Acid Deposition Monitoring Network
in East Asia (EANET)

Data Report 2014

November 2015

Network Center for EANET

Table of Contents

		Page
1.	Introduction	1
2.	Network Description	5
3.	Wet Deposition Monitoring	13
	3.1 Method	15
	3.1.1 Field Operation	16
	3.1.2 Laboratory Operation	16
	3.1.3 Data Management	17
	3.1.4 Meteorological Measurements	17
	3.1.5 Overview of the Statistics and Definitions	18
	3.1.6 Terms and Abbreviations	21
	3.1.7 Monitoring Sites	22
	3.2 Results of Monitoring	25
4.	Dry Deposition (Air Concentration) Monitoring	131
	4.1 Method	133
	4.1.1 Automatic Monitoring Method	133
	4.1.2 Manual Monitoring Method	133
	4.1.3 Monitoring Sites	133
	4.2 Results of Monitoring	138
5.	Soil and Vegetation Monitoring	195
	5.1 Method	197
	5.1.1 Field Operation	197
	5.1.2 Laboratory Operation	199
	5.1.3 Monitoring Sites	200
	5.2 Results of Monitoring	201
6.	Inland Aquatic Environment Monitoring	227
	6.1 Method	229
	6.1.1 Selection of Sampling Sites	229
	6.1.2 Field Operation	229
	6.1.3 Laboratory Operation	230
	6.1.4 Monitoring Sites	231
	6.2 Results of Monitoring	232

Page

7. Catchment-scale Monitoring 275
7.1 Method 277
7.1.1 Field Operation 277
7.1.2 Laboratory Operation 278
7.1.3 Data Management 279
7.1.4 Monitoring Sites 279
7.2 Results of Monitoring 281

Appendix I Overview of Data Report 2014 287
Appendix II Meteorological Statistics at the Monitoring Sites 295

CHAPTER 1

Introduction

1. Introduction

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

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

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

The 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 for EANET (NC) by the end of June of each calendar year based on the guidelines of EANET. The NC had prepared and presented a draft Data Report 2014, which contains the monitoring data from the participating countries at the Fifteenth Session of Scientific Advisory Committee (SAC15), held in September 2015. The draft Data Report was considered at SAC15 by the experts from the participating countries. Following the comments and guidance at the SAC15, the NC has elaborated and finalized the report.

The Data Report 2014 contains the data obtained from monitoring activities carried out in 2014.

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 for the collection of 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 specific objectives of the monitoring. Ecological survey sites are those that provide basic data for assessing the effects of acidification on terrestrial ecosystems, and they are further classified into 2 sub-categories: survey sites and ecosystem analysis sites. The criteria used for classification of the sites are presented in Table 2.1.

Table 2.1 Classification of Monitoring Sites

Site Category	Site Classification	Main Purpose and Siting Criteria
Acid Deposition Monitoring Site for wet deposition and dry deposition monitoring	Urban Site	- Assessment of the state of acid deposition in urban areas - Urbanized and industrial areas, and the areas immediately outside the urban area - Data can be used for evaluation of acid deposition effect on buildings and historical monuments or human health
	Rural Site	- Assessment of the state of acid deposition in rural areas and/or hinterlands - Data can be used for the evaluation of acid deposition on agricultural crops, forests and etc. - More than 20km apart from large pollution sources like cities, power plants and highways
	Remote Site	- Assessment of the state of acid deposition in background areas - Data can be used for evaluation of long-range transport and deposition models - More than 50km apart from large pollution sources like cities, power plants and highways - More than 500m apart from main roads (less than 500 vehicles per day)
Ecological Survey Site for soil and vegetation monitoring and Inland aquatic monitoring	Basic survey site	- Accumulation of basic data on soil, forest, and inland aquatic environment and disclose trends in their properties - In the vicinity of the acid deposition monitoring site
	Ecosystem analysis site	- Assessment of acid deposition impacts on whole ecosystem through application of terrestrial ecosystem analysis and/or catchment analysis - Sensitive Areas to changes in atmospheric acidity and ecologically conserved area

2.2 Monitoring activities in 2014

Thirteen EANET countries, namely, Cambodia, China, Indonesia, Japan, Lao PDR, Malaysia, Mongolia, Myanmar, Philippines, Republic of Korea, Russia, Thailand and Vietnam participated in monitoring of acid deposition in 2014. The data on wet deposition monitoring were submitted from a total of 55 monitoring sites, including 20 remote, 14 rural and 21 urban sites. The map showing the location of these sites with the classification information is provided in Figure 2.1. The details on the location of the monitoring sites are presented in Table 2.2 and Table 2.3.

Figure 2.1 Locations of EANET deposition monitoring sites in 2014

Table 2.2 Locations of EANET deposition monitoring sites

Country	Site		Classification	Latitude*	Longitude*	Altitude*/ m
Cambodia	Phnom Penh		Urban	11°33'N	104°50'E	10
China	Chongqing	- Haifu	Urban	29°37'N	106°30'E	317
		- Jinyunshan	Rural	29°49'N	106°22'E	800
	Xi'an	- Shizhan	Urban	34°14'N	108°57'E	400
		- Jiwozi	Remote	33°50'N	108°48'E	1,800
	Xiamen	- Hongwen	Urban	24°28'N	118°08'E	50
		- Xiaoping	Remote	24°51'N	118°02'E	686
	Zhuhai	- Xiang Zhou	Urban	22°16'N	113°34'E	40
Indonesia	Jakarta		Urban	6°11' S	106°50' E	7
	Serpong		Rural	6°15' S	106°34' E	46
	Kototabang		Remote	0°02' S	100°19' E	864
	Bandung		Urban	6°54' S	107°35' E	743
	Maros		Rural	4°55' S	119°34' E	11
Japan	Rishiri		Remote	45°07'11" N	141°12'33" E	40
	Ochiishi		Remote	43°09'43" N	145°29'50" E	49
	Tappi		Remote	41°15'06" N	140°20'59" E	106
	Sado-seki		Remote	38°14'59" N	138°24'00" E	136
	Happo		Remote	36°41'48" N	137°47'53" E	1,850
	Ijira		Rural	35°34'20" N	136°41'38" E	140
	Oki		Remote	36°17'19" N	133°11'06" E	90
	Banryu		Urban	34°40'54" N	131°47'59" E	53
	Yusuhara		Remote	33°22'45" N	132°56'05" E	790
	Hedo		Remote	26°51'58" N	128°14'55" E	60
	Ogasawara		Remote	27°05'30" N	142°12'58" E	230
	Tokyo		Urban	35°41'18" N	139°45'22" E	26
Lao PDR	Vientiane		Urban	17° N	102° E	177
Malaysia	Petaling Jaya		Urban	03°06' N	101°39' E	46
	Tanah Rata		Remote	04°47' N	101°37' E	1,545
	Danum Valley		Remote	04°58'53" N	117°50'37" E	427
	Kuching		Urban	01°29'28" N	110°20'57" E	20
Mongolia	Ulaanbaatar		Urban	47°55'13" N	106°54'43" E	1,305
	Terelj		Remote	47°59'00" N	107°27'04" E	1,556
Myanmar	Yangon		Urban	16°30' N	96°07' E	22
Philippines	Metro Manila		Urban	14°38' N	121°04' E	54
	Los Baños		Rural	14°11' N	121°15' E	35
	Mt. Sto. Tomas		Remote	16°25' N	120°36' E	1,500
Republic of Korea	Kanghwa		Rural	37°42' N	126°17' E	150
	Cheju (Kosan)		Remote	33°18' N	126°10' E	72
	Imsil		Rural	35°36' N	127°11' E	205

* The latitude, longitude and altitude information correspond to the wet deposition monitoring sites

Table 2.2 Locations of EANET deposition monitoring sites (continued)

Country	Site	Classification	Latitude*	Longitude*	Altitude*/ m
Russia	Mondy	Remote	51° 40' N	101°00' E	2,005
	Listvyanka	Rural	51° 51' N	104°54' E	700
	Irkutsk	Urban	52° 14' N	104°15' E	500
	Primorskaya	Rural	43° 42' N	132°07' E	84
Thailand	Bangkok	Urban	13° 47' N	100°32' E	75
	Samutprakarn	Urban	13° 44' N	100°34' E	2
	Pathumthani	Rural	14° 02' N	100°46' E	2
	Khanchanaburi (Vachiralongkorn Dam)	Remote	14° 46' N	98°35' E	170
	Chiang Mai (Mae Hia)	Rural	18° 46' N	98°56' E	350
	Nakhon Ratchasima	Rural	14°28'04" N	101°54'05" E	418
Vietnam	Hanoi	Urban	21° 01' N	105°51' E	5
	Hoa Binh	Rural	20° 49' N	105°20' E	23
	Cuc Phuong	Remote	20° 15' N	105°43' E	155
	Da Nang	Urban	16°02'34" N	108°12'23" E	60
	Can Tho	Rural	10° 05' N	105°42' E	5
	Ho Chi Minh	Urban	10°47'04" N	106°42'00" E	5

* The latitude, longitude and altitude information correspond to the wet deposition monitoring sites

The filter pack method is used at 42 sites for measurements of air concentrations of pollutants for determining of dry deposition. Automatic or manual gas monitors is also used for the monitoring of ozone concentration. Concentrations of particulate matter as PM_{10} are measured by automatic or manual instruments at 21 sites.

The current situation on basic survey sites for ecological monitoring and the nearest deposition monitoring sites was shown in Table 2.3. Soil and vegetation monitoring and monitoring on inland aquatic environment are conducted at 28 plots in 10 countries and 19 lakes/rivers in 11 countries, respectively, although the former is conducted in Republic of Korea and the latter is conducted in Lao PDR instead. Most of the ecological monitoring sites are corresponded to the deposition monitoring sites. Moreover, both soil and vegetation monitoring and monitoring on inland aquatic environment are conducted in the vicinity of 4 deposition monitoring sites in China, 2 sites in Japan, 1 site in Malaysia, 2 sites in Philippines, 2 sites in Russia, 1 site in Thailand, and 1 site in Vietnam. It is expected that the deposition data collected in the nearest monitoring sites will be used for interpretation of the data on ecological monitoring in these sites.

Table 2.3 Basic survey sites for ecological monitoring and the nearest deposition sites

Country	Site for deposition monitoring	Plot for soil and vegetation monitoring	Site for monitoring on inland aquatic environment
Cambodia	-	-	Sras Srang Lake
China	Jinyunshan (Chongqing)	Jinyunshan	Jinyunshan Lake
	Jiwozi (Xi'an)	Dabagou	Jiwozi River
	Xiaoping (Xiamen)	Xiaoping	Xiaoping Dam
	Zhuxiandong (Zhuhai)	Zhuxiandong	Zhuxiandong Stream
Indonesia	Serpong	Bogor Research Forest (Dramaga Experimental Forest)	-
	Bandung	-	Patengang Lake
	-	-	Gunung Lake
Japan	Ijira	Ijira	Ijira Lake
		Yamato	
	Banryu	Banryu-2[*1]	Banryu Lake
		Iwami "rinku" Factory Park[*1]	
Lao PDR	Vientiane	-	Nam Hum Lake
Malaysia	-	Pasoh Reserve Forest	-
	Petaling Jaya	Sungai Lalang Reserve Forest[*2]	Semenyih Dam
	Danum Valley	-	Tembaling River
Mongolia	Ulaanbaatar	Bogdkhan Mountain	-
	Terelj	-	Terelj River
Philippines	Los Banos	Mt. Makiling	Pandin Lake
		UP Quezon, Land Grant	
	Metro Manila	La Mesa Watershed	-
	Mt. Sto Tomas	Boneco Long Term Ecological Research Site	Ambulalakao Lake
Republic of Korea	Imsil	Mt. Naejang	-
Russia	Irkutsk	Irkutsk	-
	Listvyanka	Bolshie Koty	Pereemnaya River
		Pereemnaya river catchment	
	Mondy	Ilchir Lake	-
		Okinskoe Lake	
		Solar Observatory	
	Primorskaya	Primorskaya	Komarovka River
Thailand	Khanchanaburi (Vachiralongkorn Dam)	Vachiralongkorn Dam[*3]	Vachiralongkorn Dam
		Vachiralongkorn Puye	
Vietnam	Hoa Binh	Cave of Heaven	Hoa Binh Reservoir
		Thang Ranh	

*1. The sites around Banryu deposition site were relocated in 2001; *2. Sungai Lalang Reserve Forest would be replaced by UPM Bintulu site; *3. Kao Lam Dam was renamed to Vachiralongkorn Dam.

The implementation of the catchment scale monitoring at one site in Japan was shown in Table 2.4. This table contained the site information which is under preparation at this moment.

Table 2.4 Site for catchment-scale monitoring

Country	Site	Note
Japan	Lake Ijira catchment	
Philippines	La Mesa Watershed	Under preparation

CHAPTER 3

Wet Deposition Monitoring

3. Wet Deposition Monitoring

3.1 Method

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 Manual for Wet Deposition Monitoring in East Asia -2010*, which was issued by Network Center for EANET in November 2010 to obtain comparable, high quality monitoring data. Figure 3.1 shows the flow chart that summarizes the procedures for sampling and chemical analysis by the participating countries.

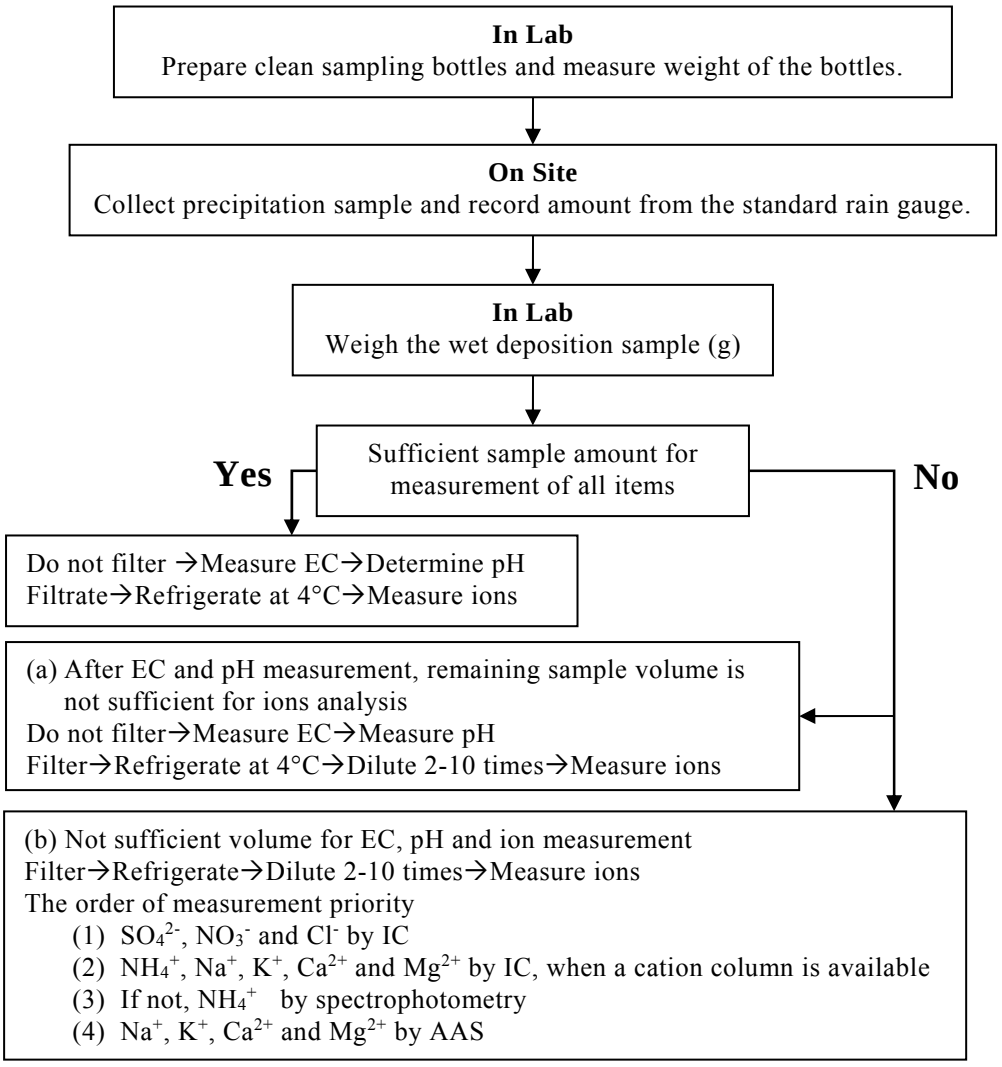


Figure 3.1 Flow chart of sampling and chemical analysis of Wet Deposition

3.1.1 Field Operation

The wet-only sampler is recommended for the collection of the precipitation samples. This instrument is designed to collect precipitation samples during the period of rainfall which is detected by an equipped rain sensor that opens the lid on the collecting bucket or funnel. The lid of this instrument closes to avoid any collection into the collecting bucket or funnel, when no rainfall is detected by the sensor.
On the other hand, when a manual sampler is used to collect the precipitation since an automatic instrument is not available, the sampling shall be done by ensuring the sample collection only during rainfall period.

The collected wet deposition samples in a tropical region have to be prevented from any microbiological degradation. Biocides such as thymol should be used to prevent the microbiological degradation when the storage during sampling, shipping and storage of the samples under the refrigeration is not possible.
Samples without biocides have to 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, the special care for the sampling of wet deposition in the higher latitude region during winter seasons should be done. The collection of the wet deposition samples may encounter difficulties due to low ambient temperature particularly when the temperature falls below -10 to -20°C.

3.1.2 Laboratory Operation

Procedures for the analysis of major constituent in wet deposition sample according to the *"Technical Manual for Wet Deposition Monitoring in East Asia -2010"* are shown in Table 3.1. Ion chromatography is recommended as the major analytical method which has been adopted by the participating countries for chemical analysis of both anions and cations contained in precipitation samples. Atomic absorption/emission spectrometry for Na^+, K^+, Ca^{2+}, and Mg^{2+}, and spectrophotometry for NH_4^+ are the secondary methods for the determination of these ions. Laboratories that use other non-recommended methods with insufficient analytical sensitivity, such as titration method, will encounter problems of unsatisfactory detection limit.
The EANET Data quality objective (DQO) values are defined in the *"Technical Documents for Wet Deposition Monitoring in East Asia -2010."* And DQO values about Detection limits are shown in Table 3.2.

3.1.3 Data Management

Each laboratory has to submit the analyzed data of the precipitation samples to the National Center. Each National Center is expected to submit the compiled data in the required format to the Network Center for EANET (NC) by the end of June in the following year. All the data have to be checked by calculating values of ion balance (R_1) and conductivity agreement (R_2). If a sample or individual datum has problems including "insufficient sample volume" or "low precision", the flags corresponding to the problems should be recorded onto the data sheet. Participating countries can refer to QA/QC part of the EANET document on *"Technical Manual for Wet Deposition Monitoring in East Asia -2010."*

3.1.4 Meteorological Measurements

It is recommended that monitoring sites incorporate collocated meteorological measurements including wind direction/speed, temperature, humidity, precipitation amount and solar radiation. Meteorological data can also be acquired from the nearest standard meteorological station (meeting the requirements of the national weather service). Local meteorological data is very useful when dealing with the interpretation of unusual precipitation events.

Meteorological statistics at the monitoring sites were shown in Appendix II at the end of report.

Table 3.1 Recommended analytical method for the measurement of major constituent in wet deposition samples

Analysis	Method
Electric conductivity (EC)	Conductivity cell method
pH	Glass electrode
Cl^-, NO_3^-, SO_4^{2-}, NO_2^-, F^-, PO_4^{3-}	Ion chromatography, Spectrophotometry
NH_4^+	Ion chromatography, Spectrophotometry (Indophenol Blue)*
Na^+, K^+, Ca^{2+}, Mg^{2+}	Ion chromatography Atomic absorption/emission spectrometry
HCO_3^-	Ion chromatography, Alkalinity method, HPLC
Organic acids	Ion chromatography

* An alternate analysis method should be used if thymol has been used as a biocide during sample collection.

Table 3.2 DQO values about Detection limits

Items	Detection limits (μmol L^{-1})
SO_4^{2-}	0.3
NO_3^-	0.5
Cl^-	0.5
Na^+	0.8
NH_4^+	0.3
K^+	0.3
Ca^{2+}	0.2
Mg^{2+}	0.3

3.1.5 Overview of the Statistics and Definition

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

Weighted average: the precipitation amount weighted average concentration (μmol L^{-1}) over the summary period.

Calculated as:

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

where $\hat{C}$: precipitation amount weighted average concentration (μmol L^{-1})

C_i : measured valid concentration for sample i (μmol L^{-1})

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

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

Calculated as:

Deposition amount = $\hat{C} \times$ (total precipitation amount for the summary period)/1000

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 (μmol L^{-1}): 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 and the component ratio of sea water.

$$[\text{nss-}SO_4^{2-}] = [SO_4^{2-}] - 0.06028\,[Na^+]$$
$$[\text{nss-}Ca^{2+}] = [Ca^{2+}] - 0.02161\,[Na^+]$$

(Na^+ : 468.3 mmol L^{-1}, SO_4^{2-} : 28.23 mmol L^{-1}, Ca^{2+} : 10.12 mmol L^{-1}; 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 = [(Number of days in the summary period)−(Number of days with missing or unknown precipitation)] / (Number of days in the summary period)×100

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

%TP = (Sum of precipitation amounts for samples with valid sample component measurements) / (Sum of precipitation amounts for all samples)×100

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

%PCL ≥ 80%, and %TP ≥ 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. Especially, monitoring sites in Japan treated bulk monitoring as data missing.

Ion balance (R_1):

Calculated as:

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

where C: total cation equivalent concentration (μeq L^{-1})

A: total anion equivalent concentration (μeq L^{-1})

$$C = 10^{(6-pH)} + \Sigma(C_{Ci}V_i)$$

where C_{Ci} : the concentration of i-th cation (μmol L^{-1})

V_i : the valence of the given ion

$$A = \Sigma(C_{Ai}V_i)$$

where C_{Ai} : the concentration of i-th anion (μmol L^{-1})

Required criteria for R_1 :

The required ion balances of precipitation analyses are given in Table 3.3.

Table 3.3 Required criteria for R_1

(C+A) (μeq L^{-1})	R_1 (%)
<50	±30
50 – 100	±15
>100	±8

Conductivity agreement (R_2) :

Calculated as:

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

where Λ_{calc} : the calculated conductivity (mS m^{-1})

Λ_{meas} : the measured conductivity (mS m^{-1})

$$\Lambda_{calc} = \Sigma(C_i \Lambda_i^0) \times 10^{-4}$$

where C_i : the ionic concentration of i-th ion (μmol L^{-1})

Λ_i^0 : the molar conductivity at infinite dilution and 25°C (Scm^2 mol^{-1})

$$\Lambda_{calc} = \{349.7 \times 10^{(6-pH)} + 80.0 \times 2c(SO_4^{2-}) + 71.4c(NO_3^-) + 76.3c(Cl^-) + 73.5c(NH_4^+) + 50.1c(Na^+) + 73.5c(K^+) + 59.5 \times 2c(Ca^{2+}) + 53.0 \times 2c(Mg^{2+})\}/10000$$

where c( ) : the ionic concentrations (μmol L^{-1})

Required criteria for R_2 :

The required conductivity comparison criteria are given in Table 3.4.

Table 3.4 Required criteria for R_2

Λ_{meas} (mS m^{-1})	R_2 (%)
<0.5	±20
0.5 – 3	±13
>3	±9

3.1.6 Terms and Abbreviations

Terms and abbreviations are given in Table 3.5.

Table 3.5 Terms and abbreviations

	Terms and abbreviations	Meaning
For all data	Data in hatched cell ( )	Rejected monthly (annual) value by the criteria. [%PCL<80% and/or %TP<80%]
	[--]	Precipitation was 0 mm.
	[*]	The constituent was not measured although precipitation was not 0 mm. [%TP=0%]
	[**]	Precipitation was not measured. [%PCL=0%]
	[***]	No data or not measured.
	Black cell ( )	Monitoring was not carried out.
For precipitation amount weighted average concentrations	Max	Maximum monitoring data for a year.
	Min	Minimum monitoring data for a year.
For concentration of ions except for H^+	[<0.2] [<0.3] [<0.5] [<0.8]	The values were lower than each DQO values about Detection limit. nss-SO_4^{2-} and nss-Ca^{2+} refer to Detection limit of SO_4^{2-} and Ca^{2+} respectively.
For deposition	[0.00]	Deposition amount was zero. (Precipitation was 0 mm.)
	[<0.01]	Calculated deposition amount was lower than 0.01mmol m^{-2}.
For results of ion balance (R_1) and conductivity agreement check (R_2)	Sample (N)	Number of samples.
	R_1 (N)	Number of samples measured and calculated ion balance (R_1).
	R_1 (AA)	Number of samples within allowable ranges for R_1.
	R_2 (N)	Number of samples measured and calculated conductivity agreement (R_2).
	R_2 (AA)	Number of samples within allowable ranges for R_2.
	R_1&R_2 (N)	Number of samples measured and calculated both R_1 and R_2.
	R_1&R_2 (AA)	Number of samples within allowable ranges of both R_1 and R_2.

3.1.7 Monitoring Sites

Precipitation samples are collected on a daily basis at 35 out of 55 sites, while weekly collection are performed at 20 sites, as presented in Table 3.6. The analytical methods used in the laboratories for measuring the precipitation samples are presented in Table 3.7.

Table 3.6 Sampling Frequencies for Wet Deposition Monitoring in 2014

Country	Name of sites	Characteristics of sites	Sampling Interval	Starting Month
Cambodia	Phnom Penh	Urban	Weekly	April 2004
China	Haifu (Chongqing)	Urban	Daily	January 2008
	Jinyunshan (Chongqing)	Rural	Daily	April 1999
	Shizhan (Xi'an)	Urban	Daily	April 1999
	Jiwozi (Xi'an)	Remote	Daily	April 1999
	Hongwen (Xiamen)	Urban	Daily	April 1999
	Xiaoping (Xiamen)	Remote	Daily	April 1999
	Xiang Zhou (Zhuhai)	Urban	Daily	April 1999
Indonesia	Jakarta	Urban	Weekly	April 1998
	Serpong	Rural	Daily	April 1998
	Kototabang	Remote	Weekly	April 1998
	Bandung	Urban	Daily	January 1999
	Maros	Rural	Weekly	January 2008
Japan	Rishiri	Remote	Daily	April 1998
	Ochiishi	Remote	Daily	January 2003
	Tappi	Remote	Daily	April 1998
	Sado-seki	Remote	Daily	April 1999
	Happo	Remote	Daily	April 1998
	Ijira	Rural	Weekly	June 1999
	Oki	Remote	Daily	April 1998
	Banryu	Urban	Weekly	May 1999
	Yusuhara	Remote	Daily	December 1999
	Hedo	Remote	Daily	December 1999
	Ogasawara	Remote	Daily	May 1999
	Tokyo	Urban	Daily	April 2007
Lao PDR	Vientiane*1	Urban	Daily	October 2003
Malaysia	Petaling Jaya	Urban	Weekly	April 1998
	Tanah Rata	Remote	Weekly	January 1999
	Danum Valley	Remote	Weekly	January 2005
	Kuching	Urban	Weekly	January 2008
Mongolia	Ulaanbaatar*1	Urban	Daily	August 1998
	Terelj*1	Remote	Daily	September 1998
Myanmar	Yangon	Urban	Weekly	January 2007
Philippines	Metro Manila	Urban	Weekly	April 1999
	Los Baños	Rural	Weekly	April 1999
	Mt. Sto. Tomas	Remote	Weekly	October 2006
Republic of Korea	Kanghwa	Rural	Daily	March 1999
	Cheju (Kosan)	Remote	Daily	April 1999
	Imsil	Rural	Daily	January 2001

Table 3.6 Sampling Frequencies for Wet Deposition Monitoring in 2014 (continued)

Country	Name of sites	Characteristics of sites	Sampling Interval	Starting Month
Russia	Mondy	Remote	Daily	May 1999
	Listvyanka	Rural	Daily	January 2000
	Irkutsk	Urban	Daily	January 2000
	Primorskaya	Rural	Daily	February 2002
Thailand	Bangkok	Urban	Daily	April 1999
	Samutprakarn	Urban	Daily	January 2004
	Pathumthani	Rural	Daily	March 1999
	Khanchanaburi	Remote	Daily	April 1999
	Chiang Mai (Mae Hia)	Rural	Daily	January 2001
	Nakhon Ratchasima	Rural	Daily	January 2006
Vietnam	Hanoi	Urban	Weekly	August 1999
	Hoa Binh	Rural	Weekly	August 1999
	Cuc Phuong	Remote	Weekly	January 2009
	Da Nang	Urban	Weekly	January 2009
	Can Tho	Rural	Weekly	January 2014
	Ho Chi Minh	Urban	Weekly	January 2014

*1: The monitoring data in 2014 could not be submitted because of malfunction of the instrument in the laboratory.

Table 3.7 Analytical methods used for Wet Deposition Monitoring in 2014

Country	Name of sites	Characteristics of sites	Anion Analysis	Cation Analysis	
				NH_4^+	Other Cations
Cambodia	Phnom Penh	Urban	IC	IC	IC
China	Haifu (Chongqing)	Urban	IC	IC	IC
	Jinyunshan (Chongqing)	Rural	IC	IC	IC
	Shizhan (Xi'an)	Urban	IC	IC	IC
	Jiwozi (Xi'an)	Remote	IC	IC	IC
	Hongwen (Xiamen)	Urban	IC	IC	IC
	Xiaoping (Xiamen)	Remote	IC	IC	IC
	Xiang Zhou (Zhuhai)	Urban	IC	IC	IC
Indonesia	Jakarta	Urban	IC	IC	IC
	Serpong	Rural	IC	IC	IC
	Kototabang	Remote	IC	IC	IC
	Bandung	Urban	IC	IC	IC
	Maros	Rural	IC	IC	IC
Japan	Rishiri	Remote	IC	IC	IC
	Ochiishi	Remote	IC	IC	IC
	Tappi	Remote	IC	IC	IC
	Sado-seki	Remote	IC	IC	IC
	Happo	Remote	IC	IC	IC
	Ijira	Rural	IC	IC	IC
	Oki	Remote	IC	IC	IC
	Banryu	Urban	IC	IC	IC
	Yusuhara	Remote	IC	IC	IC
	Hedo	Remote	IC	IC	IC
	Ogasawara	Remote	IC	IC	IC
	Tokyo	Urban	IC	IC	IC

Table 3.7 Analytical methods used for Wet Deposition Monitoring in 2014 (continued)

Country	Name of sites	Characteristics of sites	Anion Analysis	Cation Analysis	
				NH_4^+	Other Cations
Lao PDR	Vientiane	Urban	IC	IC	IC
Malaysia	Petaling Jaya	Urban	IC	IC	IC
	Tanah Rata	Remote	IC	IC	IC
	Danum Valley	Remote	IC	IC	IC
	Kuching	Urban	IC	IC	IC
Mongolia	Ulaanbaatar	Urban	IC	IC	IC
	Terelj	Remote	IC	IC	IC
Myanmar	Yangon	Urban	IC	IC	IC
Philippines	Metro Manila	Urban	IC	IC	IC
	Los Baños	Rural	IC	IC	IC
	Mt. Sto. Tomas	Remote	IC	IC	IC
Republic of Korea	Kanghwa	Rural	IC	IC	IC
	Cheju (Kosan)	Remote	IC	IC	IC
	Imsil	Rural	IC	IC	IC
Russia	Mondy	Remote	IC	SP	AES
	Listvyanka	Rural	IC	SP	AES
	Irkutsk	Urban	IC	SP	AES
	Primorskaya	Rural	SP, TI	SP	AAS, AES
Thailand	Bangkok	Urban	IC	IC	IC
	Samutprakarn	Urban	IC	IC	IC
	Pathumthani	Rural	IC	IC	IC
	Khanchanaburi	Remote	IC	IC	IC
	Chiang Mai (Mae Hia)	Rural	IC	IC	IC
	Nakhon Ratchasima	Rural	IC	IC	IC
Vietnam	Hanoi	Urban	IC	IC	IC
	Hoa Binh	Rural	IC	IC	IC
	Cuc Phuong	Remote	IC	IC	IC
	Da Nang	Urban	IC	IC	IC
	Can Tho	Rural	IC	SP	AAS
	Ho Chi Minh	Urban	IC	SP	AAS

AAS: Atomic absorption spectrometry, AES: Atomic emission spectrometry,
IC: Ion chromatography, SP: Spectrophotometry, TI: Titration

3.2 Results of Monitoring

The monthly summaries of each monitoring site in 2014 are shown in Table 3.8 through Table 3.60. The annual summaries of wet deposition monitoring in 2014 are shown in Table 3.61 through Table 3.63. The summaries contain the precipitation amount weighted average, data completeness (%PCL, %TP) and the wet deposition amount.

Results of ion balance (R_1) and the conductivity agreement (R_2) of each monitoring site are shown in Table 3.64. The summaries of annual data from 2000 to 2014 are shown in Table 3.65 through Table 3.89. Figure3.2 to Figure 3.54 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 additional items:
- Haifu, Jinyushan, Hongwen, Xiaoping and Xiang Zhou(China), Hanoi, Hoa Binh, Can Tho and Ho Chi Minh (Vietnam): F^-
- Ochiishi (Japan): HCO_3^-, F^-, Br^-, NO_2^- and PO_4^{3-}
- Ogasawara and Tokyo (Japan): F^- and NO_2^-
- Petaling Jaya, Tanah Rata, Danum Valley and Kuching (Malaysia): formic acid, acetic acid and oxalic acid
- Metro Manila and Los Baños (Philippines): PO_4^{3-}
- Mondy, Listvyanka and Irkutsk (Russia): HCO_3^-, F^-, Br^- and NO_2^-
- Primorskaya (Russia): HCO_3^-, Br^- and NO_2^-
- Bangkok, Samutprakarn, Pathumthani, Khanchanaburi, Chiang Mai and Nakhon Ratchasima (Thailand): PO_4^{3-}, formic acid and acetic acid
- Cuc Phuong and Da Nang (Vietnam): HCO_3^- and F^-

Results of the additional items are shown in Table 3.90 through Table 3.97. Note that the data in 2000 is obtained during the preparatory-phase activities of EANET.

Table 3.8 Monthly results **Site: Phnom Penh** **Country: Combodia**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	4.79	4.05	8.71	10.2	16.1	12.2	4.81	5.74	5.48	4.52	0.372	6.43	0.568	86.3
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Mar	20.9	19.9	24.3	19.7	29.9	16.1	7.67	21.2	20.8	6.42	0.437	6.36	1.29	2.79
Apr	12.2	11.7	16.3	11.0	25.1	7.92	4.42	15.3	15.1	1.72	0.720	6.14	0.876	145
May	16.2	15.8	15.8	7.64	23.0	5.56	3.57	18.4	18.3	1.40	0.527	6.28	1.31	34.1
June	7.40	6.97	10.6	9.70	16.1	7.22	3.51	14.0	13.8	1.81	0.715	6.15	0.930	213
July	8.75	8.27	7.13	10.1	11.0	7.91	2.14	13.4	13.3	1.89	0.672	6.17	0.635	300
Aug	9.31	8.72	9.30	9.36	22.0	9.83	3.21	13.4	13.2	1.27	0.443	6.35	1.25	33.5
Sept	4.12	3.89	6.29	6.44	13.9	3.71	1.58	5.37	5.29	0.411	0.752	6.12	0.545	343
Oct	2.84	2.61	5.30	4.72	13.6	3.84	1.18	4.80	4.72	0.667	0.581	6.24	0.473	120
Nov	2.34	1.55	6.73	11.9	4.97	13.0	2.95	5.12	4.84	2.23	0.407	6.39	0.551	257
Dec	4.89	4.63	12.6	5.36	24.9	4.35	2.56	7.24	7.14	1.65	0.447	6.35	0.560	25.5
Annual	6.27	5.81	8.51	9.08	13.9	7.60	2.69	9.47	9.31	1.63	0.621	6.21	0.676	1561
Max.	20.9	19.9	24.3	19.7	29.9	16.1	7.67	21.2	20.8	6.42	1.32	6.50	1.51	
Min.	<0.3	1.45	<0.5	<0.5	3.88	1.74	0.767	3.49	3.46	0.411	0.316	5.88	0.358	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	0.413	0.350	0.752	0.876	1.39	1.05	0.415	0.495	0.473	0.390	0.0321
Feb	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mar	0.0583	0.0556	0.0677	0.0551	0.0834	0.0449	0.0214	0.0591	0.0581	0.0179	<0.01
Apr	1.77	1.70	2.37	1.60	3.64	1.15	0.643	2.22	2.20	0.250	0.105
May	0.551	0.540	0.540	0.260	0.785	0.190	0.122	0.628	0.624	0.0477	0.0180
June	1.58	1.48	2.25	2.06	3.42	1.54	0.747	2.97	2.94	0.385	0.152
July	2.63	2.48	2.14	3.02	3.30	2.38	0.643	4.04	3.99	0.569	0.202
Aug	0.311	0.292	0.311	0.313	0.737	0.329	0.107	0.450	0.443	0.0424	0.0148
Sept	1.41	1.34	2.16	2.21	4.78	1.27	0.542	1.84	1.82	0.141	0.258
Oct	0.341	0.313	0.637	0.567	1.63	0.461	0.141	0.577	0.567	0.0801	0.0698
Nov	0.600	0.399	1.73	3.06	1.28	3.34	0.757	1.32	1.24	0.574	0.105
Dec	0.125	0.118	0.320	0.137	0.636	0.111	0.0652	0.184	0.182	0.0419	0.0114
Annual	9.78	9.07	13.3	14.2	21.7	11.9	4.20	14.8	14.5	2.54	0.969

Data completeness

	SO_4^{2-}	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	nss-Ca^{2+}	Mg^{2+}	H^+	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**

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

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

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

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

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

Table 3.9 Monthly results **Site: Haifu** **Country: China**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	889	886	871	184	1059	53.9	101	635	634	72.6	79.1	4.10	34.7	9.10
Feb	461	459	330	73.6	685	26.3	60.1	244	244	38.2	59.2	4.23	19.5	14.3
Mar	73.4	73.0	52.5	11.7	115	7.42	7.16	33.6	33.4	5.39	28.4	4.55	4.10	187
Apr	108	108	66.8	12.1	164	6.29	11.4	70.5	70.4	10.2	8.70	5.06	4.72	112
May	93.7	93.3	63.6	9.61	153	6.70	11.6	57.8	57.7	9.89	3.82	5.42	4.40	133
June	87.0	86.7	55.6	10.2	137	6.05	8.14	37.4	37.3	4.94	14.7	4.83	4.12	220
July	35.0	34.8	28.1	5.78	74.1	3.59	11.2	28.7	28.6	4.50	1.44	5.84	2.06	114
Aug	67.7	67.3	52.4	9.20	60.6	6.76	8.64	69.1	68.9	6.34	2.25	5.65	2.80	220
Sept	40.2	39.9	30.8	4.03	39.9	3.69	3.69	27.4	27.3	3.94	2.93	5.53	1.66	239
Oct	91.1	90.9	70.2	8.85	122	2.95	6.01	45.2	45.1	5.08	36.1	4.44	4.92	80.7
Nov	96.9	96.5	103	13.8	113	6.09	6.88	80.2	80.1	8.09	11.7	4.93	4.66	72.5
Dec	294	293	318	38.9	333	23.6	25.1	225	224	20.3	27.5	4.56	14.0	16.4
Annual	84.4	84.0	64.1	11.1	116	6.36	9.28	54.6	54.5	7.00	12.1	4.92	3.94	1417
Max.	1685	1679	1618	641	1581	130	248	1446	1443	160	437	6.88	57.7	
Min.	12.6	12.4	14.4	0.846	7.21	0.870	2.56	7.24	7.17	1.64	0.132	3.36	0.394	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	8.09	8.06	7.93	1.67	9.64	0.491	0.922	5.78	5.77	0.661	0.720
Feb	6.59	6.57	4.72	1.05	9.80	0.376	0.859	3.49	3.48	0.547	0.847
Mar	13.7	13.6	9.81	2.18	21.4	1.39	1.34	6.27	6.24	1.01	5.31
Apr	12.1	12.0	7.46	1.35	18.3	0.703	1.27	7.88	7.86	1.14	0.972
May	12.5	12.4	8.45	1.28	20.3	0.890	1.55	7.68	7.66	1.31	0.508
June	19.1	19.0	12.2	2.24	30.2	1.33	1.79	8.21	8.19	1.09	3.23
July	3.98	3.95	3.19	0.656	8.41	0.407	1.27	3.25	3.25	0.510	0.164
Aug	14.9	14.8	11.5	2.03	13.3	1.49	1.90	15.2	15.2	1.40	0.496
Sept	9.60	9.54	7.35	0.962	9.53	0.881	0.882	6.54	6.52	0.941	0.700
Oct	7.35	7.34	5.67	0.714	9.86	0.238	0.485	3.65	3.64	0.410	2.91
Nov	7.03	7.00	7.45	0.997	8.17	0.442	0.499	5.81	5.80	0.586	0.846
Dec	4.82	4.80	5.21	0.638	5.46	0.386	0.412	3.68	3.67	0.333	0.451
Annual	120	119	90.8	15.7	164	9.01	13.2	77.4	77.2	9.92	17.1

Data completeness

	SO_4^{2-}	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	nss-Ca^{2+}	Mg^{2+}	H^+	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	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	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**100**

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

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

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

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

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

Table 3.10 Monthly results **Site: Jinyunshan** **Country: China**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	438	437	464	46.5	634	17.7	28.7	157	156	20.4	313	3.50	26.4	6.00
Feb	241	241	180	25.8	309	10.0	16.6	85.7	85.5	14.2	177	3.75	14.0	24.8
Mar	75.1	74.8	58.3	5.58	105	3.73	6.55	21.7	21.6	4.20	74.3	4.13	5.06	129
Apr	102	102	63.4	9.31	128	5.28	8.03	49.8	49.7	8.06	58.7	4.23	5.66	74.4
May	63.0	62.8	49.0	6.56	74.7	4.25	5.13	31.8	31.7	5.56	29.4	4.53	3.64	83.1
June	69.5	69.0	38.8	6.15	82.0	8.66	4.81	21.9	21.7	3.57	48.7	4.31	4.03	236
July	26.8	26.6	23.4	3.23	34.4	3.00	2.41	15.4	15.3	2.92	9.06	5.04	1.70	174
Aug	38.3	38.1	25.9	3.65	35.6	3.65	2.60	20.3	20.3	3.48	17.6	4.75	2.06	255
Sept	33.3	33.2	21.9	1.91	34.8	1.72	1.95	18.8	18.8	3.63	17.3	4.76	1.95	294
Oct	60.4	60.2	46.0	5.92	58.5	2.27	3.71	21.2	21.2	3.66	61.9	4.21	4.21	101
Nov	98.8	98.4	108	11.9	113	7.32	7.49	46.6	46.5	6.42	85.6	4.07	6.54	88.0
Dec	138	137	161	18.9	162	10.0	12.6	71.4	71.2	8.07	90.4	4.04	8.70	24.6
Annual	60.4	60.1	45.6	5.70	70.6	4.50	4.42	26.0	25.9	4.37	41.2	4.39	3.65	1490
Max.	1174	1171	1094	92.2	1223	52.6	72.9	507	506	74.8	776	6.10	63.8	
Min.	2.81	2.74	4.03	<0.5	5.54	1.22	1.23	1.75	1.72	2.63	0.794	3.11	0.423	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	2.63	2.62	2.79	0.279	3.80	0.106	0.172	0.941	0.938	0.122	1.88
Feb	5.98	5.97	4.47	0.640	7.65	0.248	0.411	2.13	2.12	0.353	4.38
Mar	9.71	9.68	7.54	0.722	13.6	0.483	0.847	2.81	2.80	0.543	9.61
Apr	7.62	7.60	4.72	0.692	9.53	0.393	0.597	3.70	3.70	0.599	4.36
May	5.24	5.22	4.07	0.545	6.21	0.353	0.427	2.64	2.63	0.462	2.44
June	16.4	16.3	9.15	1.45	19.3	2.04	1.13	5.17	5.12	0.841	11.5
July	4.65	4.62	4.06	0.560	5.97	0.521	0.418	2.67	2.66	0.506	1.57
Aug	9.79	9.73	6.61	0.932	9.10	0.932	0.664	5.19	5.17	0.889	4.50
Sept	9.80	9.77	6.44	0.562	10.2	0.506	0.574	5.53	5.52	1.07	5.09
Oct	6.10	6.09	4.66	0.599	5.92	0.230	0.375	2.14	2.14	0.370	6.26
Nov	8.69	8.65	9.49	1.05	9.97	0.644	0.659	4.10	4.09	0.565	7.54
Dec	3.38	3.37	3.96	0.466	3.97	0.246	0.311	1.76	1.75	0.198	2.22
Annual	90.0	89.6	68.0	8.50	105	6.70	6.59	38.8	38.6	6.52	61.3

Data completeness

	SO_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	99.3	99.3	99.3	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/m^2 because precipitation was 0 mm.

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

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

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

Table 3.11 Monthly results **Site: Shizhan** **Country: China**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Feb	552	533	487	92.1	671	309	59.6	271	265	36.5	0.449	6.35	21.5	13.4
Mar	254	245	224	12.5	290	147	11.8	137	134	8.89	0.239	6.62	15.4	24.3
Apr	151	140	137	30.4	261	188	12.1	135	131	17.6	0.850	6.07	5.92	72.9
May	64.1	54.1	46.5	19.0	66.9	166	6.81	117	114	7.05	0.103	6.99	2.55	60.1
June	145	136	117	22.4	220	143	10.6	129	126	19.9	0.141	6.85	6.93	42.4
July	48.2	40.3	52.7	18.2	108	132	4.87	70.4	67.5	6.04	0.0926	7.03	4.97	48.4
Aug	85.2	75.3	54.3	13.9	154	164	5.06	53.6	50.1	14.4	0.103	6.99	3.34	153
Sept	85.8	83.0	88.0	19.3	120	46.3	851	72.4	71.4	6.93	0.237	6.63	2.24	179
Oct	201	198	247	37.5	352	57.0	15.5	101	99.8	22.2	0.126	6.90	1.05	9.10
Nov	147	146	124	23.4	207	18.0	10.3	146	146	7.31	0.192	6.72	0.803	19.8
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Annual	113	105	98.0	21.1	170	126	251	92.7	90.0	11.8	0.247	6.61	4.37	623
Max.	706	697	671	103	797	355	9438	438	433	48.1	2.45	9.94	46.6	
Min.	23.4	14.1	24.3	2.96	39.8	14.7	2.30	27.1	23.5	2.30	0.0001	5.61	0.506	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb	7.39	7.14	6.53	1.23	8.99	4.14	0.799	3.64	3.55	0.490	<0.01
Mar	6.17	5.96	5.45	0.303	7.05	3.58	0.286	3.33	3.26	0.216	<0.01
Apr	11.0	10.2	10.0	2.22	19.0	13.7	0.881	9.84	9.54	1.28	0.0620
May	3.85	3.25	2.79	1.14	4.02	9.96	0.409	7.05	6.84	0.424	<0.01
June	6.15	5.78	4.95	0.949	9.31	6.08	0.448	5.47	5.34	0.843	<0.01
July	2.34	1.95	2.55	0.881	5.21	6.41	0.236	3.41	3.27	0.292	<0.01
Aug	13.1	11.5	8.32	2.13	23.5	25.1	0.776	8.22	7.68	2.21	0.0158
Sept	15.3	14.8	15.7	3.45	21.4	8.28	152	13.0	12.8	1.24	0.0423
Oct	1.83	1.80	2.25	0.341	3.20	0.519	0.141	0.919	0.908	0.202	<0.01
Nov	2.92	2.89	2.46	0.463	4.09	0.355	0.203	2.89	2.88	0.145	<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	70.1	65.4	61.0	13.1	106	78.1	156	57.7	56.0	7.34	0.154

Data completeness

	SO_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/m^2 because precipitation was 0 mm.

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

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

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

Table 3.12 Monthly results **Site: Jiwozi** **Country: China**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Mar	97.1	87.7	25.5	17.6	<0.8	156	11.9	269	265	3.91	0.0501	7.30	6.33	26.7
Apr	94.5	86.5	22.3	24.9	19.3	132	9.83	228	225	22.4	0.0439	7.36	6.47	58.2
May	58.6	50.4	15.3	19.8	29.2	136	8.87	93.5	90.6	17.2	0.117	6.93	3.37	101
June	53.2	46.4	13.3	19.9	30.3	114	15.5	135	132	29.6	0.112	6.95	3.79	58.0
July	158	146	22.7	43.5	65.1	194	24.7	223	219	39.8	0.126	6.90	5.75	65.6
Aug	66.7	57.6	10.8	21.6	48.2	150	14.8	168	165	34.2	0.107	6.97	4.89	102
Sept	30.7	26.1	5.06	16.5	15.5	76.1	6.36	129	127	9.61	0.106	6.97	3.50	69.7
Oct	34.5	30.9	6.44	20.8	28.5	60.5	35.1	57.3	56.0	7.24	0.110	6.96	2.22	70.7
Nov	34.1	30.3	8.76	19.5	31.6	63.2	37.4	116	115	6.75	0.158	6.80	3.35	15.6
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Annual	69.3	61.8	13.8	23.0	32.8	125	16.4	149	146	21.6	0.104	6.98	4.29	568
Max.	363	350	43.3	80.0	166	239	110	317	314	77.8	0.288	7.91	9.37	
Min.	9.30	5.06	2.02	8.29	<0.8	15.8	1.87	25.3	24.4	1.40	0.0123	6.54	1.27	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
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	2.59	2.34	0.681	0.470	<0.01	4.18	0.318	7.17	7.08	0.104	<0.01
Apr	5.50	5.04	1.30	1.45	1.12	7.68	0.572	13.3	13.1	1.30	<0.01
May	5.92	5.09	1.55	2.00	2.95	13.8	0.896	9.46	9.16	1.74	0.0118
June	3.09	2.69	0.773	1.15	1.76	6.61	0.899	7.82	7.68	1.72	<0.01
July	10.3	9.58	1.49	2.85	4.27	12.7	1.62	14.6	14.4	2.61	<0.01
Aug	6.83	5.90	1.11	2.21	4.94	15.3	1.52	17.2	16.9	3.51	0.0109
Sept	2.14	1.82	0.353	1.15	1.08	5.30	0.443	8.99	8.88	0.669	<0.01
Oct	2.44	2.18	0.455	1.47	2.02	4.28	2.48	4.05	3.96	0.512	<0.01
Nov	0.532	0.473	0.137	0.305	0.493	0.987	0.583	1.82	1.79	0.105	<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	39.4	35.1	7.84	13.1	18.6	70.9	9.33	84.4	82.9	12.3	0.0591

Data completeness

	SO_4^{2-}	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	nss-Ca^{2+}	Mg^{2+}	H^+	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	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/m^2 because precipitation was 0 mm.

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

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

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

Table 3.13 Monthly results **Site: Hongwen** **Country: China**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Feb	23.2	22.2	26.8	27.4	51.0	16.9	2.99	51.5	51.2	3.86	2.13	5.67	1.95	116
Mar	55.4	54.0	72.6	43.4	95.2	24.2	6.65	54.1	53.6	6.37	8.03	5.10	3.34	49.7
Apr	44.8	44.4	51.3	21.9	72.3	7.70	3.53	30.0	29.9	4.04	14.7	4.83	2.09	67.2
May	17.2	16.9	22.6	12.9	9.79	5.03	<0.3	13.2	13.1	1.02	12.3	4.91	1.23	352
June	37.5	34.7	26.6	56.2	13.4	46.1	1.73	34.4	33.4	7.49	8.39	5.08	3.07	300
July	17.6	17.1	8.08	10.4	19.9	8.35	<0.3	9.30	9.12	4.34	1.97	5.71	0.844	175
Aug	16.5	13.2	25.3	60.5	22.9	54.8	1.79	8.16	6.98	13.0	8.41	5.08	1.71	14.8
Sept	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Oct	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Nov	29.9	27.6	33.1	37.2	70.0	38.3	7.55	49.0	48.1	7.38	1.38	5.86	2.00	5.89
Dec	24.1	23.4	35.2	23.1	38.6	10.8	1.34	23.2	23.0	3.80	10.4	4.98	1.37	48.1
Annual	27.0	25.8	26.4	28.6	25.7	19.8	1.42	25.5	25.1	4.27	8.39	5.08	1.89	1129
Max.	86.6	86.0	102	89.4	115	81.8	11.9	97.8	96.7	16.8	69.2	6.45	4.54	
Min.	6.78	6.65	4.39	2.64	<0.8	<0.3	<0.3	3.03	2.87	<0.3	0.355	4.16	0.509	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb	2.70	2.58	3.12	3.18	5.92	1.96	0.347	5.98	5.94	0.448	0.248
Mar	2.75	2.68	3.60	2.15	4.73	1.20	0.330	2.69	2.66	0.316	0.399
Apr	3.01	2.98	3.45	1.48	4.86	0.517	0.237	2.02	2.01	0.272	0.990
May	6.07	5.96	7.95	4.56	3.45	1.77	0.0212	4.65	4.61	0.360	4.35
June	11.3	10.4	7.99	16.9	4.03	13.8	0.520	10.3	10.0	2.25	2.52
July	3.08	2.99	1.41	1.82	3.48	1.46	0.0115	1.63	1.59	0.758	0.344
Aug	0.245	0.196	0.375	0.896	0.340	0.812	0.0266	0.121	0.103	0.193	0.125
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	0.176	0.162	0.195	0.219	0.412	0.226	0.0444	0.288	0.283	0.0434	<0.01
Dec	1.16	1.13	1.69	1.11	1.85	0.521	0.0646	1.12	1.11	0.183	0.498
Annual	30.4	29.1	29.8	32.3	29.1	22.3	1.60	28.8	28.4	4.82	9.48

Data completeness

	SO_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
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/m^2 because precipitation was 0 mm.

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

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

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

Table 3.14 Monthly results **Site: Xiaoping** **Country: China**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Feb	25.3	25.0	28.1	11.7	41.7	5.82	4.37	31.0	30.9	1.70	12.5	4.90	1.80	76.9
Mar	48.9	47.9	80.8	31.2	91.9	17.0	5.14	212	212	5.02	0.108	6.97	5.26	68.5
Apr	84.1	83.0	137	36.6	177	17.8	8.13	235	234	22.2	4.96	5.30	6.30	50.1
May	31.4	31.2	33.3	8.91	29.4	2.95	<0.3	46.9	46.8	1.85	13.7	4.86	2.09	301
June	25.5	25.0	22.0	12.2	20.7	8.47	<0.3	15.4	15.3	2.42	33.2	4.48	1.73	481
July	18.3	18.0	18.1	4.48	37.5	5.09	0.654	16.9	16.8	2.64	4.35	5.36	1.05	148
Aug	20.9	20.0	27.8	18.6	46.8	15.1	2.42	13.2	12.8	5.49	16.2	4.79	1.57	91.3
Sept	44.7	43.2	53.4	33.5	70.3	24.8	2.87	34.1	33.5	8.14	31.6	4.50	3.71	51.9
Oct	33.1	32.5	36.4	9.76	32.9	10.1	4.11	12.1	11.9	4.22	57.5	4.24	2.94	5.91
Nov	23.4	22.7	33.9	13.5	29.2	11.7	3.80	20.5	20.2	4.40	22.3	4.65	1.89	49.7
Dec	20.7	20.1	32.4	14.3	19.2	11.0	2.45	26.7	26.5	3.10	3.99	5.40	1.34	39.2
Annual	29.6	29.0	34.0	13.8	38.9	8.77	1.45	42.4	42.2	3.65	19.6	4.71	2.15	1364
Max.	165	163	294	83.7	346	83.4	16.9	582	581	314	138	9.46	11.8	
Min.	4.83	4.83	<0.5	1.07	<0.8	<0.3	<0.3	1.45	1.40	<0.3	0.0003	3.86	0.561	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb	1.95	1.92	2.16	0.896	3.21	0.448	0.336	2.38	2.37	0.131	0.961
Mar	3.35	3.28	5.53	2.14	6.29	1.16	0.352	14.5	14.5	0.344	<0.01
Apr	4.21	4.16	6.87	1.83	8.85	0.891	0.408	11.8	11.7	1.11	0.249
May	9.45	9.40	10.0	2.68	8.85	0.888	<0.01	14.1	14.1	0.556	4.14
June	12.2	12.0	10.6	5.85	9.94	4.07	0.0991	7.43	7.34	1.16	16.0
July	2.72	2.67	2.69	0.665	5.57	0.755	0.0971	2.51	2.49	0.392	0.646
Aug	1.91	1.82	2.54	1.70	4.27	1.38	0.220	1.20	1.17	0.501	1.48
Sept	2.32	2.25	2.78	1.74	3.65	1.29	0.149	1.77	1.74	0.423	1.64
Oct	0.196	0.192	0.215	0.0577	0.194	0.0594	0.0243	0.0713	0.0700	0.0250	0.340
Nov	1.16	1.13	1.68	0.670	1.45	0.581	0.189	1.02	1.00	0.219	1.11
Dec	0.813	0.787	1.27	0.562	0.753	0.432	0.0961	1.05	1.04	0.122	0.156
Annual	40.3	39.6	46.3	18.8	53.0	12.0	1.98	57.8	57.6	4.98	26.7

Data completeness

	SO_4^{2-}	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	nss-Ca^{2+}	Mg^{2+}	H^+	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**

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

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

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

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

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

Table 3.15 Monthly results **Site: Xiang Zhou** **Country: China**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Feb	35.7	24.2	33.2	69.2	19.1	190	22.3	84.8	80.7	45.1	13.5	4.87	3.54	16.0
Mar	23.2	21.9	42.1	26.7	48.3	21.2	4.51	29.0	28.5	6.77	20.6	4.69	2.87	87.5
Apr	29.8	27.3	42.1	39.5	50.6	41.4	18.0	30.6	29.7	8.72	8.96	5.05	2.70	122
May	10.2	9.24	16.9	17.4	16.3	16.4	3.27	10.8	10.5	5.99	8.02	5.10	1.35	605
June	9.09	8.15	13.5	17.8	7.63	15.6	4.40	15.8	15.5	5.05	1.19	5.93	0.995	112
July	9.07	6.74	12.0	21.1	9.04	38.7	3.75	22.2	21.3	7.47	2.36	5.63	1.36	172
Aug	7.10	6.25	10.2	17.5	17.0	14.1	12.2	10.5	10.2	3.98	2.44	5.61	0.988	283
Sept	16.3	10.7	19.8	42.9	24.0	104	2.38	12.7	10.5	14.3	14.6	4.83	3.52	113
Oct	19.4	18.7	25.4	13.9	31.1	10.5	2.30	8.93	8.70	4.62	37.0	4.43	3.43	89.5
Nov	40.2	34.3	61.3	58.9	101	97.4	4.01	36.8	34.7	15.3	44.7	4.35	6.71	51.5
Dec	56.7	52.9	54.1	57.5	62.4	62.6	57.8	72.5	71.2	12.2	5.51	5.26	4.93	23.0
Annual	14.3	12.5	20.9	23.8	23.8	30.7	6.89	17.0	16.4	7.21	9.91	5.00	1.94	1673
Max.	404	362	655	539	314	700	113	374	359	106	97.7	7.24	26.9	
Min.	3.12	<0.3	6.45	8.46	<0.8	3.48	0.767	4.74	4.39	2.88	0.0575	4.01	0.480	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb	0.571	0.388	0.531	1.11	0.305	3.04	0.357	1.36	1.29	0.722	0.216
Mar	2.03	1.92	3.68	2.34	4.22	1.86	0.395	2.53	2.49	0.593	1.80
Apr	3.62	3.32	5.12	4.79	6.14	5.03	2.18	3.71	3.61	1.06	1.09
May	6.18	5.58	10.2	10.5	9.86	9.94	1.98	6.54	6.33	3.62	4.85
June	1.02	0.913	1.51	1.99	0.854	1.75	0.493	1.77	1.73	0.566	0.133
July	1.56	1.16	2.06	3.63	1.55	6.65	0.645	3.82	3.67	1.28	0.405
Aug	2.01	1.77	2.88	4.95	4.80	3.99	3.46	2.98	2.89	1.12	0.689
Sept	1.84	1.20	2.24	4.85	2.72	11.8	0.269	1.44	1.19	1.62	1.65
Oct	1.73	1.68	2.28	1.24	2.78	0.943	0.206	0.799	0.779	0.413	3.31
Nov	2.07	1.77	3.16	3.04	5.23	5.02	0.207	1.89	1.79	0.787	2.30
Dec	1.30	1.22	1.25	1.32	1.44	1.44	1.33	1.67	1.64	0.280	0.127
Annual	23.9	20.9	34.9	39.8	39.9	51.4	11.5	28.5	27.4	12.1	16.6

Data completeness

	SO_4^{2-}	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	nss-Ca^{2+}	Mg^{2+}	H^+	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**

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

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

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

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

Data in hatched cell 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**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	17.8	16.2	7.94	38.4	3.40	26.4	1.18	5.25	4.68	3.45	29.6	4.53	1.32	1177
Feb	13.1	12.2	10.2	19.4	14.3	14.3	1.12	5.04	4.73	2.20	17.2	4.76	1.18	758
Mar	24.7	23.7	26.5	20.3	25.8	16.8	4.46	8.94	8.58	2.08	18.2	4.74	1.83	153
Apr	14.9	14.5	16.8	16.4	24.0	6.23	2.54	10.3	10.1	1.66	16.0	4.80	1.29	165
May	64.6	61.3	80.6	57.7	91.7	55.5	16.5	55.1	53.9	7.59	3.28	5.48	4.22	142
June	24.6	23.9	32.3	19.4	27.2	11.8	2.63	11.9	11.6	2.08	11.3	4.95	1.75	167
July	24.3	23.4	24.9	17.5	31.7	14.4	3.03	11.7	11.4	2.14	15.5	4.81	1.75	215
Aug	5.96	4.14	5.78	3.00	<0.8	30.1	3.80	27.6	26.9	4.94	23.4	4.63	2.02	38.0
Sept	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Oct	45.2	41.8	42.0	45.1	2.84	56.4	28.5	56.5	55.3	9.43	5.31	5.28	4.09	51.5
Nov	88.6	86.6	131	47.1	59.5	33.1	23.2	132	131	19.3	8.35	5.08	5.65	91.2
Dec	20.0	19.3	14.6	16.8	14.5	11.1	4.59	29.0	28.7	4.23	6.16	5.21	1.27	211
Annual	22.2	20.9	20.0	28.8	17.6	21.4	3.62	15.0	14.5	3.64	19.6	4.71	1.67	3168
Max.	156	153	246	246	107	464	136	230	229	34.3	41.7	5.99	25.9	
Min.	5.96	4.14	<0.5	3.00	<0.8	0.754	<0.3	2.87	2.68	<0.3	1.02	4.38	0.516	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	20.9	19.0	9.35	45.1	4.00	31.1	1.39	6.18	5.51	4.06	34.8
Feb	9.94	9.28	7.72	14.7	10.8	10.8	0.851	3.82	3.59	1.67	13.0
Mar	3.78	3.63	4.06	3.11	3.96	2.58	0.683	1.37	1.32	0.319	2.78
Apr	2.44	2.38	2.77	2.70	3.94	1.02	0.418	1.69	1.67	0.273	2.63
May	9.15	8.67	11.4	8.16	13.0	7.86	2.33	7.80	7.63	1.07	0.464
June	4.10	3.98	5.38	3.23	4.53	1.96	0.438	1.98	1.93	0.346	1.88
July	5.22	5.03	5.35	3.76	6.81	3.10	0.651	2.51	2.44	0.459	3.34
Aug	0.226	0.157	0.219	0.114	0.0181	1.14	0.145	1.05	1.02	0.188	0.891
Sept	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct	2.33	2.15	2.16	2.32	0.146	2.91	1.47	2.91	2.85	0.486	0.273
Nov	8.08	7.90	11.9	4.29	5.43	3.02	2.11	12.0	12.0	1.76	0.761
Dec	4.22	4.08	3.08	3.55	3.06	2.34	0.969	6.12	6.07	0.893	1.30
Annual	70.4	66.3	63.4	91.1	55.7	67.8	11.5	47.4	46.0	11.5	62.2

Data completeness

	SO_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	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/m^2 because precipitation was 0 mm.

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

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

Data in hatched cell 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**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	20.5	19.3	11.6	21.0	31.6	19.3	1.96	5.37	4.95	3.10	10.4	4.98	1.28	532
Feb	24.3	22.9	18.1	28.9	81.2	22.1	4.22	6.33	5.86	3.54	4.52	5.34	1.58	320
Mar	26.9	25.8	27.5	25.0	122	17.9	12.5	0.873	0.533	1.42	3.37	5.47	1.76	135
Apr	18.9	17.6	23.3	14.4	78.0	20.5	4.05	1.80	1.36	3.00	0.224	6.65	1.75	132
May	23.0	22.1	50.6	24.5	66.6	14.7	13.4	12.3	12.0	2.71	13.8	4.86	2.30	445
June	7.99	7.25	42.9	21.5	64.0	12.3	5.42	15.9	15.6	2.58	1.84	5.74	1.82	290
July	10.7	9.37	54.1	28.9	63.0	22.1	3.99	17.5	17.1	2.52	4.00	5.40	1.86	271
Aug	32.4	30.5	47.7	43.5	64.1	32.2	5.74	22.1	21.4	4.38	6.43	5.19	2.32	212
Sept	61.5	59.6	66.1	41.7	86.3	32.1	6.80	55.4	54.7	6.70	1.70	5.77	2.72	41.4
Oct	67.7	65.9	117	48.5	137	29.6	6.67	55.8	55.2	8.21	9.51	5.02	4.51	75.5
Nov	37.3	36.3	47.3	22.9	74.0	15.8	2.74	17.1	16.8	3.80	14.0	4.85	2.35	191
Dec	21.4	20.8	21.4	15.5	51.6	9.10	2.06	12.0	11.8	3.16	3.41	5.47	1.39	237
Annual	23.2	22.1	36.2	25.5	65.5	18.8	5.64	13.0	12.6	3.23	7.23	5.14	1.89	2882
Max.	91.4	89.3	156	109	233	106	52.1	94.1	93.3	13.0	60.3	7.42	5.88	
Min.	5.60	5.10	4.70	6.38	5.00	2.00	0.300	<0.2	<0.2	<0.3	0.0380	4.22	0.472	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	10.9	10.3	6.18	11.2	16.8	10.2	1.04	2.85	2.63	1.65	5.51
Feb	7.77	7.34	5.80	9.24	26.0	7.07	1.35	2.03	1.87	1.13	1.45
Mar	3.63	3.49	3.71	3.38	16.5	2.42	1.68	0.118	0.0719	0.191	0.454
Apr	2.49	2.32	3.07	1.90	10.3	2.70	0.534	0.237	0.179	0.395	0.0295
May	10.2	9.84	22.5	10.9	29.6	6.52	5.98	5.49	5.35	1.21	6.13
June	2.32	2.10	12.5	6.24	18.6	3.57	1.57	4.61	4.54	0.749	0.534
July	2.91	2.54	14.7	7.85	17.1	6.00	1.08	4.76	4.63	0.683	1.08
Aug	6.89	6.48	10.1	9.24	13.6	6.85	1.22	4.70	4.55	0.931	1.37
Sept	2.55	2.47	2.74	1.73	3.57	1.33	0.282	2.29	2.26	0.277	0.0703
Oct	5.11	4.98	8.81	3.66	10.4	2.23	0.503	4.21	4.16	0.620	0.718
Nov	7.11	6.93	9.02	4.37	14.1	3.02	0.522	3.26	3.19	0.724	2.67
Dec	5.05	4.92	5.06	3.66	12.2	2.15	0.488	2.83	2.78	0.749	0.808
Annual	66.9	63.7	104	73.3	189	54.1	16.3	37.4	36.2	9.31	20.8

Data completeness

	SO_4^{2-}	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	nss-Ca^{2+}	Mg^{2+}	H^+	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**

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

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

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

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

Data in hatched cell 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**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	13.3	12.6	4.53	14.4	10.4	11.4	16.4	6.89	6.65	1.07	22.9	4.64	1.28	125
Feb	26.1	24.6	25.9	15.7	19.7	25.3	1.73	1.87	1.32	0.530	5.35	5.27	0.767	137
Mar	11.9	11.7	14.8	10.3	44.4	2.54	3.59	4.29	4.24	1.74	14.0	4.85	1.85	105
Apr	3.79	3.67	4.44	4.23	6.07	2.02	1.55	1.43	1.38	<0.3	11.8	4.93	0.564	231
May	3.93	3.71	7.78	3.45	5.78	3.68	1.31	1.77	1.69	0.585	6.17	5.21	0.488	255
June	6.13	5.96	8.30	4.45	9.14	2.92	10.8	3.26	3.19	0.658	8.32	5.08	0.686	243
July	9.81	8.80	3.89	21.7	8.07	16.8	144	7.67	7.31	3.04	10.3	4.99	8.77	33.1
Aug	4.13	3.88	3.27	42.3	1.68	4.22	33.1	3.48	3.39	0.910	8.12	5.09	1.09	270
Sept	8.49	8.06	8.20	8.85	15.9	7.19	5.07	6.15	5.99	1.52	23.5	4.63	1.30	176
Oct	11.8	11.3	6.28	4.36	16.2	8.04	3.95	4.03	3.86	1.34	31.3	4.50	1.55	297
Nov	9.44	9.33	8.34	4.86	19.1	1.70	8.48	3.57	3.53	0.824	16.2	4.79	1.02	423
Dec	4.92	4.67	0.671	6.86	<0.8	4.06	2.41	8.38	8.30	0.870	18.8	4.72	0.766	203
Annual	8.52	8.18	7.48	10.6	12.1	5.67	10.4	3.93	3.81	0.908	15.2	4.82	1.10	2496
Max.	71.8	68.6	39.1	217	114	102	625	39.9	38.8	7.48	51.3	5.80	33.2	
Min.	1.05	0.996	<0.5	1.03	<0.8	<0.3	<0.3	0.467	0.462	<0.3	1.58	4.29	0.337	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	1.66	1.57	0.564	1.80	1.29	1.42	2.05	0.858	0.827	0.133	2.85
Feb	3.58	3.37	3.55	2.15	2.70	3.47	0.237	0.256	0.181	0.0726	0.733
Mar	1.25	1.23	1.56	1.08	4.66	0.267	0.377	0.451	0.445	0.182	1.47
Apr	0.873	0.845	1.02	0.974	1.40	0.467	0.357	0.329	0.319	0.0310	2.71
May	1.00	0.943	1.98	0.878	1.47	0.936	0.334	0.451	0.431	0.149	1.57
June	1.49	1.44	2.01	1.08	2.22	0.707	2.63	0.790	0.775	0.160	2.02
July	0.325	0.291	0.129	0.719	0.267	0.555	4.77	0.254	0.242	0.100	0.341
Aug	1.12	1.05	0.883	11.4	0.453	1.14	8.95	0.939	0.914	0.246	2.19
Sept	1.49	1.42	1.44	1.56	2.80	1.26	0.892	1.08	1.05	0.268	4.14
Oct	3.50	3.36	1.86	1.30	4.82	2.39	1.17	1.20	1.15	0.399	9.30
Nov	3.99	3.95	3.53	2.06	8.08	0.718	3.59	1.51	1.50	0.349	6.85
Dec	0.997	0.947	0.136	1.39	0.0557	0.823	0.489	1.70	1.68	0.176	3.82
Annual	21.3	20.4	18.7	26.4	30.2	14.2	25.8	9.82	9.51	2.27	38.0

Data completeness

	SO_4^{2-}	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	nss-Ca^{2+}	Mg^{2+}	H^+	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**

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

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

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

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

Data in hatched cell 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**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	18.6	18.0	10.8	11.4	26.3	10.2	4.25	16.1	15.9	6.64	0.789	6.10	1.19	266
Feb	44.7	43.6	32.6	18.5	54.0	17.9	7.23	35.8	35.5	12.2	1.23	5.91	2.51	91.6
Mar	31.8	31.3	23.0	7.73	41.7	7.61	3.94	14.1	13.9	4.78	6.89	5.16	1.77	375
Apr	33.6	33.0	16.8	10.0	41.4	10.2	4.61	20.5	20.2	7.41	2.94	5.53	1.83	185
May	50.4	49.4	27.7	14.2	76.8	15.7	6.22	26.9	26.6	9.37	1.57	5.80	2.50	107
June	52.9	51.6	36.4	23.4	80.5	21.5	7.86	21.1	20.6	6.28	19.6	4.71	3.02	216
July	58.7	57.6	50.2	28.7	98.2	17.4	6.39	28.5	28.1	8.02	11.1	4.96	2.91	183
Aug	54.6	53.8	45.7	23.8	80.3	13.3	5.22	28.9	28.6	6.88	23.5	4.63	3.41	75.4
Sept	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Oct	75.7	73.1	59.7	38.8	100	43.9	20.9	67.7	66.7	20.5	0.0879	7.06	4.57	54.0
Nov	43.5	42.7	31.6	14.3	62.1	13.4	7.11	32.3	32.0	11.0	1.10	5.96	2.28	223
Dec	24.0	23.7	15.4	5.54	33.2	5.20	2.62	16.0	15.9	5.14	2.27	5.64	1.31	257
Annual	38.8	38.0	27.2	14.7	55.4	12.9	5.63	22.8	22.6	7.51	6.14	5.21	2.14	2033
Max.	143	136	128	93.1	184	129	47.2	171	168	73.8	100	7.52	9.23	
Min.	8.33	7.54	4.38	3.12	8.00	2.97	1.51	7.62	7.51	2.36	0.0302	4.00	0.675	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	4.96	4.80	2.87	3.02	6.99	2.71	1.13	4.29	4.24	1.77	0.210
Feb	4.10	4.00	2.99	1.70	4.95	1.64	0.663	3.28	3.25	1.11	0.113
Mar	11.9	11.7	8.62	2.89	15.6	2.85	1.47	5.27	5.21	1.79	2.58
Apr	6.22	6.11	3.12	1.86	7.68	1.88	0.854	3.79	3.75	1.37	0.546
May	5.37	5.27	2.95	1.51	8.19	1.68	0.663	2.87	2.83	0.998	0.168
June	11.4	11.2	7.87	5.06	17.4	4.66	1.70	4.56	4.46	1.36	4.24
July	10.8	10.6	9.20	5.25	18.0	3.20	1.17	5.22	5.15	1.47	2.03
Aug	4.11	4.05	3.45	1.79	6.05	1.01	0.393	2.17	2.15	0.518	1.77
Sept	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct	4.09	3.94	3.22	2.10	5.39	2.37	1.13	3.65	3.60	1.11	<0.01
Nov	9.72	9.54	7.06	3.20	13.9	2.98	1.59	7.22	7.15	2.46	0.246
Dec	6.15	6.07	3.95	1.42	8.51	1.33	0.671	4.10	4.07	1.32	0.582
Annual	78.8	77.2	55.3	29.8	113	26.3	11.4	46.4	45.9	15.3	12.5

Data completeness

	SO_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	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/m^2 because precipitation was 0 mm.

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

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

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

Table 3.20 Monthly results **Site: Maros** **Country: Indonesia**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	8.04	6.84	4.83	60.5	7.16	19.8	38.0	7.65	7.22	2.92	5.19	5.28	1.23	980
Feb	8.10	7.13	6.45	22.9	10.1	16.2	8.02	5.96	5.61	2.01	7.43	5.13	0.786	335
Mar	7.13	6.40	6.69	21.6	7.50	12.3	7.97	8.07	7.80	2.62	4.92	5.31	0.845	256
Apr	5.37	4.95	6.70	13.2	11.8	6.95	6.51	9.43	9.28	1.10	1.74	5.76	0.611	90.3
May	4.83	4.18	4.92	14.4	6.92	10.8	6.38	8.13	7.90	1.40	4.00	5.40	0.685	195
June	5.76	4.96	2.48	18.5	1.88	13.2	10.5	13.1	12.8	1.90	16.7	4.78	1.22	23.2
July	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Aug	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Sept	6.18	5.39	<0.5	14.0	<0.8	13.2	4.55	27.0	26.7	2.89	0.977	6.01	1.22	35.1
Oct	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Nov	18.0	16.0	23.8	42.4	3.27	31.8	15.7	45.1	44.4	7.72	5.00	5.30	1.84	213
Dec	4.53	2.41	2.46	21.1	6.94	66.4	8.15	82.0	80.6	49.3	7.83	5.11	0.681	635
Annual	7.56	6.24	6.10	36.2	7.19	29.1	19.1	27.9	27.2	13.6	5.88	5.23	1.00	2763
Max.	172	162	404	377	34.4	203	143	437	433	179	17.4	6.20	15.6	
Min.	2.84	<0.3	<0.5	8.65	<0.8	4.80	0.485	3.30	2.95	0.826	0.631	4.76	0.384	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	7.88	6.71	4.73	59.3	7.02	19.4	37.3	7.50	7.08	2.86	5.09
Feb	2.71	2.38	2.16	7.68	3.37	5.43	2.68	1.99	1.88	0.673	2.49
Mar	1.82	1.63	1.71	5.53	1.92	3.13	2.04	2.06	1.99	0.670	1.26
Apr	0.485	0.447	0.605	1.19	1.06	0.628	0.588	0.852	0.838	0.0991	0.157
May	0.943	0.816	0.960	2.80	1.35	2.11	1.24	1.59	1.54	0.273	0.781
June	0.134	0.115	0.0576	0.430	0.0436	0.306	0.244	0.305	0.298	0.0440	0.387
July	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sept	0.217	0.189	<0.01	0.490	<0.01	0.465	0.160	0.947	0.937	0.101	0.0343
Oct	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov	3.82	3.42	5.06	9.03	0.696	6.78	3.35	9.60	9.45	1.64	1.06
Dec	2.88	1.53	1.57	13.4	4.41	42.2	5.18	52.1	51.2	31.3	4.97
Annual	20.9	17.2	16.8	99.9	19.9	80.5	52.7	77.0	75.2	37.7	16.2

Data completeness

	SO_4^{2-}	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	nss-Ca^{2+}	Mg^{2+}	H^+	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Aug	--	--	--	--	--	--	--	--	--	--	--	--	--	100
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/m^2 because precipitation was 0 mm.

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

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

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

Table 3.21 Monthly results **Site: Rishiri** **Country: Japan**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	39.6	21.6	24.0	340	22.0	299	7.33	11.8	5.31	34.3	37.5	4.43	6.74	60.5
Feb	43.4	26.4	17.7	325	31.0	282	7.64	8.48	2.40	32.1	41.7	4.38	6.75	33.3
Mar	62.1	53.6	80.2	163	87.0	141	6.16	18.3	15.3	19.0	65.4	4.18	6.75	8.12
Apr	36.3	19.4	44.7	323	34.1	281	8.52	20.6	14.6	33.1	32.7	4.49	6.53	10.6
May	43.3	35.4	23.5	151	47.7	132	5.07	12.8	9.93	16.5	30.8	4.51	4.22	88.9
June	1.48	1.34	2.22	2.35	0.811	2.23	<0.3	0.508	0.460	0.349	7.08	5.15	0.319	134
July	9.00	6.75	12.5	37.7	17.6	37.3	1.46	1.98	1.17	4.11	19.5	4.71	1.66	49.3
Aug	4.83	2.83	4.11	35.1	3.42	33.5	0.852	1.09	0.374	3.27	9.32	5.03	0.970	236
Sept	13.4	6.66	6.74	119	6.87	111	2.14	3.19	0.780	11.9	18.4	4.74	2.55	184
Oct	24.9	7.90	9.70	314	11.0	291	7.81	8.32	2.21	30.1	16.5	4.78	5.31	64.0
Nov	60.1	15.6	21.2	878	20.9	739	18.5	19.4	4.04	83.7	33.9	4.47	13.6	46.5
Dec	33.8	11.1	8.15	432	7.29	376	8.39	9.99	1.87	42.1	20.0	4.70	7.10	118
Annual	20.0	10.2	10.2	184	12.5	162	4.10	5.78	2.31	18.1	18.6	4.73	3.56	1033
Max.	854	183	538	16171	389	13866	302	247	227	1629	158	5.60	214	
Min.	0.417	<0.3	<0.5	<0.5	<0.8	0.424	<0.3	<0.2	<0.2	<0.3	2.51	3.80	0.197	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	2.40	1.31	1.45	20.5	1.33	18.1	0.443	0.712	0.321	2.08	2.27
Feb	1.44	0.879	0.588	10.8	1.03	9.37	0.254	0.282	0.0797	1.07	1.39
Mar	0.504	0.435	0.651	1.32	0.706	1.15	0.0500	0.149	0.124	0.154	0.531
Apr	0.384	0.205	0.472	3.41	0.361	2.97	0.0901	0.218	0.154	0.350	0.346
May	3.85	3.15	2.09	13.5	4.24	11.7	0.451	1.14	0.883	1.47	2.73
June	0.198	0.180	0.297	0.315	0.109	0.299	0.0169	0.0681	0.0617	0.0468	0.949
July	0.443	0.333	0.616	1.86	0.868	1.84	0.0718	0.0975	0.0577	0.202	0.960
Aug	1.14	0.667	0.967	8.26	0.805	7.88	0.201	0.257	0.0881	0.771	2.19
Sept	2.46	1.23	1.24	21.9	1.27	20.5	0.394	0.587	0.144	2.18	3.39
Oct	1.59	0.505	0.621	20.1	0.703	18.6	0.500	0.532	0.141	1.92	1.06
Nov	2.79	0.724	0.986	40.8	0.973	34.3	0.859	0.903	0.188	3.89	1.57
Dec	3.99	1.32	0.962	51.0	0.861	44.4	0.990	1.18	0.221	4.97	2.37
Annual	20.7	10.6	10.6	190	12.9	168	4.23	5.97	2.39	18.7	19.2

Data completeness

	SO_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	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	100
Feb	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	100
Mar	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	100
Apr	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	94.6	94.6	94.6	100
May	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	100
Oct	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	100
Nov	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100
Dec	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	100
Annual	**97.1**	**97.1**	**97.1**	**97.1**	**97.1**	**97.1**	**97.1**	**97.1**	**97.1**	**97.1**	**97.1**	**97.1**	**97.1**	**100**

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

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

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

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

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

Table 3.22 Monthly results **Site: Ochiishi** **Country: Japan**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	37.2	10.0	19.8	517	15.9	451	10.7	14.6	4.85	51.3	15.9	4.80	7.17	15.4
Feb	29.6	10.7	25.2	371	15.5	315	8.12	14.5	7.65	37.3	13.6	4.87	6.69	11.3
Mar	41.8	25.6	34.8	305	42.3	269	7.48	12.5	6.65	32.0	31.2	4.51	6.14	28.9
Apr	26.6	11.9	17.7	283	24.8	245	6.57	11.2	5.88	28.5	4.04	5.39	4.74	42.3
May	13.0	8.48	9.53	83.9	13.3	74.3	2.31	5.05	3.44	9.05	4.63	5.33	1.77	107
June	9.84	7.55	6.30	44.8	7.91	38.0	1.06	2.28	1.46	4.41	10.1	5.00	1.36	126
July	6.46	3.01	3.76	66.9	4.27	57.3	1.40	1.55	0.309	6.20	4.48	5.35	1.27	145
Aug	10.1	5.34	6.49	90.9	6.91	79.5	1.83	2.30	0.624	8.39	8.11	5.09	1.80	125
Sept	10.1	4.40	5.26	110	9.01	95.2	2.40	2.63	0.577	10.4	6.08	5.22	1.98	67.5
Oct	*	*	*	*	*	*	*	*	*	*	*	*	*	71.1
Nov	*	*	*	*	*	*	*	*	*	*	*	*	*	34.7
Dec	*	*	*	*	*	*	*	*	*	*	*	*	*	63.0
Annual	13.0	7.15	8.71	112	10.8	97.2	2.55	4.06	1.96	11.1	7.82	5.11	2.14	838
Max.	119	85.8	114	1612	183	1416	33.8	55.2	44.5	164	53.7	6.49	25.1	
Min.	1.50	0.457	0.600	4.30	<0.8	2.90	0.300	0.400	<0.2	<0.3	0.324	4.27	0.310	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	0.574	0.155	0.305	7.97	0.245	6.96	0.164	0.225	0.0748	0.791	0.245
Feb	0.335	0.121	0.285	4.21	0.176	3.56	0.0920	0.164	0.0867	0.423	0.154
Mar	1.21	0.741	1.01	8.83	1.22	7.77	0.216	0.360	0.192	0.927	0.902
Apr	1.13	0.503	0.750	12.0	1.05	10.4	0.278	0.473	0.249	1.21	0.171
May	1.38	0.905	1.02	8.96	1.42	7.94	0.247	0.539	0.367	0.966	0.494
June	1.24	0.955	0.796	5.66	0.999	4.80	0.134	0.288	0.185	0.558	1.27
July	0.939	0.437	0.546	9.73	0.621	8.33	0.203	0.225	0.0450	0.900	0.650
Aug	1.27	0.667	0.812	11.4	0.864	9.94	0.229	0.288	0.0780	1.05	1.01
Sept	0.684	0.297	0.355	7.43	0.608	6.42	0.162	0.178	0.0389	0.701	0.410
Oct	*	*	*	*	*	*	*	*	*	*	*
Nov	*	*	*	*	*	*	*	*	*	*	*
Dec	*	*	*	*	*	*	*	*	*	*	*
Annual	10.9	5.99	7.29	93.8	9.05	81.5	2.14	3.40	1.64	9.28	6.55

Data completeness

	SO_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	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	82.6	82.6	82.6	100
Feb	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	65.0	65.0	65.0	100
Mar	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	93.6	93.6	93.6	100
Apr	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	100
May	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100
June	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.0	99.0	99.0	100
July	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	98.8	98.8	98.8	100
Aug	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	100
Sept	100	100	100	100	100	100	100	100	100	100	97.0	97.0	97.0	100
Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Nov	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Dec	0	0	0	0	0	0	0	0	0	0	0	0	0	96.8
Annual	**76.9**	**76.9**	**76.9**	**76.9**	**76.9**	**76.9**	**76.9**	**76.9**	**76.9**	**76.9**	**76.0**	**76.0**	**76.0**	**99.7**

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

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

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

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

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

Table 3.23 Monthly results **Site: Tappi** **Country: Japan**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	54.3	36.1	56.1	349	52.8	303	8.89	16.5	9.97	37.1	43.7	4.36	7.78	68.5
Feb	44.5	27.3	17.7	331	28.7	286	7.21	10.8	4.66	34.4	26.4	4.58	4.07	38.4
Mar	50.4	34.4	57.8	299	51.0	265	7.34	20.9	15.2	32.2	35.4	4.45	7.05	80.0
Apr	37.1	22.9	72.5	252	32.4	236	7.68	19.0	13.9	29.0	36.6	4.44	5.40	9.65
May	33.7	29.0	40.5	86.3	37.4	78.4	3.06	17.6	15.9	11.3	23.9	4.62	2.97	83.4
June	17.7	11.1	17.3	131	18.9	110	3.06	4.60	2.22	13.4	13.3	4.88	2.72	113
July	29.1	26.5	37.3	46.6	42.9	42.6	1.89	4.11	3.21	5.37	33.7	4.47	2.99	165
Aug	11.5	6.92	7.68	87.6	6.90	76.0	1.88	1.87	0.266	8.37	10.1	4.99	1.85	294
Sept	12.2	9.69	10.9	46.7	7.47	40.9	1.29	1.61	0.725	4.57	18.1	4.74	1.59	99.4
Oct	25.7	7.92	10.9	325	8.66	295	6.40	7.70	1.35	32.8	15.8	4.80	5.26	88.8
Nov	27.0	15.7	23.7	212	15.2	187	4.23	6.55	2.51	21.0	29.6	4.53	4.63	93.0
Dec	77.5	15.8	23.3	1106	17.4	1024	18.6	22.9	3.72	109	20.3	4.69	10.3	61.1
Annual	26.5	17.1	24.1	176	22.7	156	3.97	7.45	4.17	18.1	21.9	4.66	3.62	1194
Max.	1336	456	1277	23257	625	21061	374	611	528	2269	115	5.56	46.9	
Min.	1.70	<0.3	1.30	4.30	<0.8	3.30	<0.3	0.200	<0.2	0.400	2.75	3.94	0.370	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	3.72	2.47	3.84	23.9	3.61	20.7	0.608	1.13	0.683	2.54	2.99
Feb	1.71	1.05	0.678	12.7	1.10	11.0	0.276	0.416	0.179	1.32	1.01
Mar	4.03	2.75	4.62	23.9	4.08	21.2	0.587	1.67	1.22	2.57	2.83
Apr	0.358	0.221	0.700	2.43	0.313	2.28	0.0741	0.183	0.134	0.280	0.353
May	2.81	2.42	3.37	7.20	3.12	6.54	0.255	1.47	1.33	0.939	1.99
June	1.99	1.25	1.95	14.8	2.13	12.4	0.345	0.518	0.251	1.51	1.50
July	4.80	4.38	6.16	7.69	7.09	7.05	0.311	0.678	0.530	0.888	5.57
Aug	3.38	2.04	2.26	25.7	2.03	22.3	0.551	0.549	0.0781	2.46	2.98
Sept	1.21	0.963	1.08	4.64	0.742	4.06	0.128	0.160	0.0720	0.454	1.80
Oct	2.28	0.703	0.969	28.8	0.769	26.2	0.568	0.684	0.120	2.92	1.41
Nov	2.51	1.46	2.20	19.7	1.42	17.4	0.393	0.609	0.234	1.95	2.75
Dec	4.73	0.967	1.42	67.5	1.06	62.5	1.13	1.40	0.227	6.63	1.24
Annual	31.7	20.4	28.8	210	27.2	187	4.74	8.89	4.98	21.6	26.1

Data completeness

	SO_4^{2-}	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	nss-Ca^{2+}	Mg^{2+}	H^+	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.4	77.4	77.4	100
Feb	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	93.8	93.8	93.8	100
Mar	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.4	99.4	99.4	100
Apr	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	93.3	93.3	93.3	100
May	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	98.3	98.3	98.3	100
June	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	97.5	97.5	97.5	100
July	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.3	99.3	99.3	96.8
Aug	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.5	99.5	99.5	100
Sept	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	97.1	97.1	97.1	100
Oct	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	98.0	98.0	98.0	100
Nov	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	98.4	98.4	98.4	100
Dec	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	50.8	50.8	50.8	96.8
Annual	**96.0**	**96.0**	**96.0**	**96.0**	**96.0**	**96.0**	**96.0**	**96.0**	**96.0**	**96.0**	**94.8**	**94.8**	**94.8**	**99.5**

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

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

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

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

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

Table 3.24 Monthly results **Site: Sado-seki** **Country: Japan**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	77.9	40.1	59.0	661	52.4	627	15.5	19.0	5.41	68.6	59.2	4.23	13.1	56.2
Feb	52.3	33.7	35.4	337	34.1	308	11.1	12.7	6.38	33.8	42.5	4.37	7.23	52.7
Mar	37.3	27.1	39.9	201	34.4	169	4.75	10.0	6.65	18.7	27.6	4.56	4.31	116
Apr	53.0	46.7	78.7	115	87.7	104	4.83	28.1	26.1	16.9	17.5	4.76	4.38	31.5
May	14.6	10.5	14.0	75.0	10.9	67.1	2.55	5.42	3.97	9.25	12.6	4.90	1.96	59.9
June	7.22	4.60	8.81	46.4	6.01	43.5	1.69	3.38	2.44	4.96	8.07	5.09	1.19	77.6
July	8.32	7.45	9.14	16.5	9.75	14.5	0.734	1.39	1.07	1.89	10.7	4.97	0.987	306
Aug	13.1	9.96	14.3	67.5	16.2	52.7	2.67	2.51	1.38	6.99	13.3	4.88	1.91	84.2
Sept	3.43	2.53	3.09	18.0	2.39	14.9	0.746	0.435	<0.2	1.68	6.52	5.19	0.553	131
Oct	17.8	7.44	10.9	213	7.08	172	4.49	5.37	1.81	21.5	11.3	4.95	3.25	215
Nov	38.9	19.8	21.4	360	13.0	317	6.72	9.23	2.37	41.3	28.7	4.54	6.33	133
Dec	125	27.4	26.1	1792	35.8	1613	41.0	42.3	7.44	179	40.2	4.40	27.5	147
Annual	32.0	15.0	19.3	317	18.2	282	7.51	9.49	3.47	32.5	19.7	4.70	5.58	1409
Max.	569	443	777	9689	989	9097	196	251	244	1015	151	5.61	142	
Min.	1.00	<0.3	<0.5	2.10	<0.8	<0.3	<0.3	<0.2	<0.2	0.300	2.45	3.82	0.250	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	4.38	2.25	3.32	37.1	2.94	35.2	0.874	1.06	0.304	3.86	3.32
Feb	2.76	1.78	1.87	17.8	1.80	16.2	0.587	0.672	0.336	1.78	2.24
Mar	4.33	3.15	4.64	23.3	3.99	19.6	0.552	1.17	0.772	2.17	3.20
Apr	1.67	1.47	2.48	3.62	2.76	3.28	0.152	0.884	0.823	0.531	0.550
May	0.873	0.631	0.835	4.49	0.654	4.01	0.153	0.324	0.238	0.554	0.752
June	0.560	0.357	0.684	3.60	0.466	3.37	0.131	0.262	0.189	0.385	0.626
July	2.55	2.28	2.80	5.06	2.99	4.45	0.225	0.424	0.328	0.580	3.26
Aug	1.11	0.839	1.20	5.69	1.36	4.43	0.225	0.211	0.116	0.589	1.12
Sept	0.448	0.331	0.405	2.36	0.313	1.94	0.0975	0.0569	0.0198	0.220	0.853
Oct	3.82	1.60	2.35	45.8	1.52	37.0	0.963	1.15	0.388	4.63	2.43
Nov	5.15	2.62	2.84	47.7	1.72	42.0	0.890	1.22	0.314	5.47	3.81
Dec	18.3	4.02	3.83	263	5.26	237	6.02	6.21	1.09	26.3	5.90
Annual	45.1	21.2	27.1	447	25.6	397	10.6	13.4	4.88	45.8	27.8

Data completeness

	SO_4^{2-}	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	nss-Ca^{2+}	Mg^{2+}	H^+	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	97.9	97.9	97.9	100
Feb	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	98.6	98.6	98.6	100
Mar	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	96.8	96.8	96.8	100
Apr	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	96.9	96.9	96.9	100
May	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	98.1	98.1	98.1	100
June	100	100	100	100	100	100	100	100	100	100	97.6	97.6	97.6	100
July	100	100	100	100	100	100	100	100	100	100	99.6	99.6	99.6	100
Aug	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.1	99.1	99.1	100
Sept	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100
Oct	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	98.5	98.5	98.5	100
Nov	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.5	98.5	98.5	100
Dec	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	92.6	92.6	92.6	100
Annual	**99.1**	**99.1**	**99.1**	**99.1**	**99.1**	**99.1**	**99.1**	**99.1**	**99.1**	**99.1**	**98.1**	**98.1**	**98.1**	**100**

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

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

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

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

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

Table 3.25 Monthly results **Site: Happo** **Country: Japan**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	22.4	21.3	16.7	21.4	19.9	18.3	1.52	6.12	5.73	2.64	23.4	4.63	1.88	121
Feb	10.3	8.95	8.11	22.3	6.63	22.7	2.07	4.07	3.58	3.51	8.40	5.08	0.820	47.5
Mar	14.0	13.8	16.1	3.94	20.6	2.91	0.848	4.83	4.77	1.29	9.57	5.02	0.926	210
Apr	14.0	13.7	17.5	4.91	20.5	5.51	1.72	4.83	4.71	1.64	13.7	4.86	1.20	69.7
May	10.1	9.94	11.3	3.11	14.0	2.48	0.379	5.06	5.00	1.36	6.50	5.19	0.729	146
June	10.6	10.5	13.7	2.63	21.2	1.41	0.341	1.87	1.84	0.639	11.7	4.93	1.01	197
July	6.11	6.03	7.50	2.65	7.26	1.36	0.515	1.58	1.55	0.902	7.65	5.12	0.608	318
Aug	4.17	4.11	5.95	2.05	3.47	1.02	0.370	0.863	0.844	0.699	7.43	5.13	0.503	293
Sept	4.46	4.42	4.91	1.56	2.43	0.787	0.365	1.18	1.16	0.696	7.72	5.11	0.506	113
Oct	5.33	5.21	4.60	2.71	3.27	1.97	0.476	1.32	1.28	1.00	8.34	5.08	0.569	225
Nov	5.40	5.26	3.46	3.00	3.02	2.32	0.963	1.67	1.62	1.13	7.27	5.14	0.492	283
Dec	8.69	7.53	3.26	20.0	<0.8	19.3	1.27	2.22	1.80	2.33	15.0	4.82	0.950	433
Annual	8.00	7.68	7.80	6.21	8.08	5.31	0.746	2.31	2.20	1.27	9.77	5.01	0.744	2453
Max.	136	135	206	505	327	465	26.1	48.8	48.0	57.6	53.7	5.85	7.26	
Min.	1.20	1.15	<0.5	<0.5	<0.8	0.300	<0.3	<0.2	<0.2	<0.3	1.41	4.27	0.180	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	2.70	2.56	2.01	2.58	2.40	2.20	0.183	0.738	0.690	0.319	2.82
Feb	0.490	0.425	0.385	1.06	0.315	1.08	0.0982	0.193	0.170	0.167	0.399
Mar	2.94	2.90	3.37	0.827	4.32	0.611	0.178	1.01	0.999	0.270	2.01
Apr	0.979	0.955	1.22	0.342	1.43	0.384	0.120	0.336	0.328	0.115	0.955
May	1.47	1.45	1.64	0.452	2.04	0.361	0.0552	0.736	0.728	0.197	0.946
June	2.08	2.06	2.69	0.517	4.18	0.277	0.0672	0.369	0.363	0.126	2.31
July	1.94	1.92	2.38	0.842	2.31	0.433	0.164	0.502	0.493	0.287	2.43
Aug	1.22	1.20	1.74	0.600	1.02	0.298	0.108	0.252	0.247	0.205	2.17
Sept	0.502	0.497	0.553	0.175	0.274	0.0885	0.0411	0.132	0.131	0.0783	0.869
Oct	1.20	1.17	1.03	0.607	0.733	0.442	0.107	0.297	0.287	0.225	1.87
Nov	1.53	1.49	0.980	0.848	0.856	0.657	0.273	0.472	0.458	0.320	2.06
Dec	3.76	3.26	1.41	8.64	0.275	8.34	0.549	0.959	0.779	1.01	6.48
Annual	19.6	18.8	19.1	15.2	19.8	13.0	1.83	5.67	5.39	3.11	24.0

Data completeness

	SO_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	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	100
Feb	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	91.2	91.2	91.2	100
Mar	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	83.9	83.9	83.9	100
Apr	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	98.3	98.3	98.3	100
May	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	92.8	92.8	92.8	100
June	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	98.0	98.0	98.0	100
July	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.6	99.6	99.6	100
Aug	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	100
Sept	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	100
Oct	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100
Nov	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	100
Dec	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	100
Annual	**89.7**	**89.7**	**89.7**	**89.7**	**89.7**	**89.7**	**89.7**	**89.7**	**89.7**	**89.7**	**89.2**	**89.2**	**89.2**	**100**

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

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

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

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

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

Table 3.26 Monthly results **Site: Ijira** **Country: Japan**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	22.9	19.6	35.4	58.3	18.6	54.6	1.99	8.99	7.81	6.96	36.5	4.44	2.98	93.0
Feb	13.4	13.0	10.7	6.60	14.7	5.05	0.569	1.45	1.34	0.633	18.5	4.73	1.25	112
Mar	14.3	13.8	16.3	12.7	15.0	9.08	0.666	2.52	2.32	1.49	21.8	4.66	1.54	278
Apr	14.0	13.7	28.5	7.86	18.0	4.86	0.864	3.93	3.82	1.38	26.7	4.57	1.83	50.9
May	11.8	11.1	13.4	12.8	14.8	11.1	0.560	3.57	3.33	1.94	11.5	4.94	1.14	272
June	18.9	18.7	21.4	5.24	26.7	2.94	0.696	4.14	4.07	1.01	21.6	4.67	1.62	94.0
July	14.2	13.7	17.7	10.8	20.9	8.40	0.346	<0.2	<0.2	0.880	24.7	4.61	1.60	424
Aug	12.1	11.0	13.6	22.5	14.5	18.0	0.668	0.738	0.348	2.03	17.6	4.76	1.51	721
Sept	5.00	4.92	6.94	3.62	3.76	1.24	<0.3	<0.2	<0.2	<0.3	11.6	4.94	0.731	264
Oct	7.93	7.52	12.1	9.79	8.91	6.79	<0.3	1.10	0.951	0.802	17.4	4.76	1.07	372
Nov	15.0	14.1	20.1	19.9	9.77	15.6	1.00	1.63	1.29	2.15	32.4	4.49	2.04	85.0
Dec	11.0	7.76	11.6	66.8	4.90	54.0	1.30	2.08	0.915	6.44	19.1	4.72	1.97	280
Annual	12.0	11.1	14.7	19.7	13.4	15.6	0.611	1.65	1.34	1.97	19.3	4.71	1.47	3044
Max.	90.4	59.2	179	514	95.2	518	14.7	73.3	62.1	63.6	102	5.48	12.4	
Min.	1.20	1.14	1.20	0.800	1.00	<0.3	<0.3	<0.2	<0.2	<0.3	3.31	3.99	0.250	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	2.13	1.82	3.29	5.43	1.73	5.08	0.185	0.836	0.727	0.648	3.39
Feb	1.49	1.45	1.20	0.736	1.64	0.563	0.0635	0.162	0.149	0.0706	2.06
Mar	3.98	3.83	4.53	3.52	4.18	2.52	0.185	0.698	0.644	0.413	6.05
Apr	0.712	0.698	1.45	0.400	0.918	0.248	0.0440	0.200	0.195	0.0705	1.36
May	3.20	3.02	3.64	3.49	4.03	3.01	0.152	0.972	0.907	0.529	3.13
June	1.77	1.76	2.01	0.492	2.51	0.277	0.0654	0.389	0.383	0.0947	2.03
July	6.00	5.79	7.50	4.57	8.86	3.56	0.147	0.0609	0.0599	0.373	10.5
Aug	8.74	7.95	9.77	16.2	10.5	13.0	0.482	0.532	0.251	1.46	12.7
Sept	1.32	1.30	1.83	0.954	0.990	0.327	<0.01	0.0363	0.0292	0.0545	3.06
Oct	2.95	2.80	4.50	3.64	3.31	2.53	0.0858	0.408	0.354	0.298	6.48
Nov	1.28	1.20	1.71	1.69	0.830	1.33	0.0851	0.138	0.110	0.182	2.75
Dec	3.08	2.17	3.24	18.7	1.37	15.1	0.364	0.582	0.256	1.80	5.34
Annual	36.6	33.8	44.7	59.8	40.8	47.5	1.86	5.02	4.07	6.00	58.8

Data completeness

	SO_4^{2-}	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	nss-Ca^{2+}	Mg^{2+}	H^+	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	99.5	99.5	99.5	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	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	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	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**100**	**100**	**100**	**100**

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

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

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

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

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

Table 3.27 Monthly results **Site: Oki** **Country: Japan**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	78.3	28.0	49.0	940	30.4	835	19.0	24.8	7.00	92.7	45.1	4.35	15.8	76.1
Feb	61.2	24.8	29.9	682	23.5	604	15.2	24.5	11.4	68.9	22.6	4.65	11.4	33.1
Mar	35.8	15.8	17.1	375	16.4	331	7.97	12.0	4.86	39.1	19.7	4.71	6.58	124
Apr	35.0	20.4	34.3	276	22.9	243	6.29	13.2	7.98	30.9	30.6	4.51	5.91	29.4
May	22.6	17.9	20.2	90.7	18.0	77.2	4.13	8.30	6.63	10.5	19.1	4.72	2.70	79.0
June	20.8	17.9	27.7	56.3	17.8	47.5	1.92	5.97	4.94	6.91	32.6	4.49	2.67	24.8
July	11.1	9.13	12.0	38.6	14.2	32.7	1.24	1.50	0.788	3.98	14.7	4.83	1.46	106
Aug	10.6	6.06	6.54	89.0	3.55	75.4	2.29	2.21	0.596	9.05	13.5	4.87	1.92	262
Sept	22.3	16.3	12.8	116	6.80	100	2.55	3.28	1.12	12.6	33.0	4.48	3.29	32.3
Oct	45.3	7.97	9.03	713	6.80	627	18.0	15.6	2.02	67.4	16.7	4.78	10.8	136
Nov	48.7	27.4	34.0	396	24.4	354	9.80	13.5	5.84	42.2	48.7	4.31	8.34	49.4
Dec	213	29.3	49.3	3418	22.8	3040	65.0	82.1	16.5	331	27.0	4.57	45.7	101
Annual	47.8	15.0	20.3	617	14.0	545	13.1	16.4	4.63	60.6	22.2	4.65	9.58	1053
Max.	2242	130	431	42237	236	37398	807	816	82.0	2963	195	6.47	372	
Min.	1.10	<0.3	1.50	5.28	<0.8	3.17	0.500	0.300	<0.2	0.978	0.339	3.71	0.340	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	5.96	2.13	3.73	71.5	2.31	63.5	1.44	1.89	0.533	7.06	3.43
Feb	2.03	0.822	0.988	22.5	0.777	20.0	0.503	0.809	0.378	2.28	0.749
Mar	4.43	1.96	2.11	46.4	2.03	41.0	0.986	1.49	0.601	4.84	2.44
Apr	1.03	0.600	1.01	8.12	0.672	7.14	0.185	0.389	0.235	0.909	0.900
May	1.79	1.42	1.60	7.16	1.42	6.10	0.327	0.655	0.524	0.827	1.51
June	0.515	0.444	0.686	1.40	0.441	1.18	0.0476	0.148	0.123	0.171	0.808
July	1.18	0.970	1.28	4.10	1.51	3.48	0.132	0.159	0.0838	0.423	1.56
Aug	2.78	1.59	1.72	23.4	0.933	19.8	0.601	0.580	0.156	2.37	3.53
Sept	0.720	0.525	0.414	3.75	0.219	3.23	0.0822	0.106	0.0361	0.407	1.06
Oct	6.17	1.09	1.23	97.2	0.926	85.4	2.46	2.12	0.275	9.18	2.28
Nov	2.41	1.35	1.68	19.6	1.21	17.5	0.484	0.666	0.288	2.09	2.40
Dec	21.4	2.95	4.96	344	2.30	306	6.54	8.26	1.66	33.3	2.72
Annual	50.4	15.8	21.4	649	14.7	574	13.8	17.3	4.88	63.9	23.4

Data completeness

	SO_4^{2-}	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	nss-Ca^{2+}	Mg^{2+}	H^+	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	93.5
Feb	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	100
Mar	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100
Apr	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	100
May	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	100
June	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	96.8	100
July	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	100
Aug	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	100
Sept	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	100
Oct	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100
Nov	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	100
Dec	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.2	100
Annual	**99.2**	**99.2**	**99.2**	**99.2**	**99.2**	**99.2**	**99.2**	**99.2**	**99.2**	**99.2**	**99.2**	**99.2**	**99.1**	**99.5**

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

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

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

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

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

Table 3.28 Monthly results **Site: Banryu** **Country: Japan**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	56.9	41.1	68.8	307	66.2	263	7.96	12.2	6.52	30.5	64.4	4.19	8.44	107
Feb	26.8	18.0	18.8	170	15.3	145	3.90	6.68	3.55	16.8	29.3	4.53	4.06	66.0
Mar	21.8	15.1	18.9	125	15.0	111	2.94	4.66	2.27	12.6	28.6	4.54	3.38	102
Apr	38.7	30.1	49.0	170	46.0	143	4.52	16.9	13.8	19.0	36.5	4.44	5.10	68.5
May	14.6	12.5	12.5	41.7	10.0	35.3	1.73	6.27	5.50	4.54	13.2	4.88	1.58	103
June	16.5	15.2	18.3	25.3	12.1	21.4	1.05	2.84	2.38	3.32	28.1	4.55	1.97	73.5
July	7.31	7.02	9.47	6.96	6.59	4.87	0.494	0.673	0.568	1.57	13.0	4.89	0.808	314
Aug	9.65	8.55	8.78	22.6	5.44	18.3	0.701	0.847	0.452	2.68	17.1	4.77	1.25	247
Sept	16.6	13.7	11.4	58.5	6.74	49.1	1.28	1.58	0.519	5.93	30.0	4.52	2.44	67.5
Oct	24.1	16.5	15.9	144	13.7	125	3.35	4.46	1.76	15.8	30.2	4.52	3.78	157
Nov	21.4	18.6	18.7	56.8	13.6	45.6	1.39	2.53	1.54	6.20	40.8	4.39	2.93	115
Dec	54.7	33.7	60.5	407	40.9	348	9.80	15.1	7.53	41.3	50.6	4.30	9.26	96.8
Annual	21.6	16.4	21.7	102	17.3	86.9	2.65	4.75	2.87	10.8	27.9	4.55	3.11	1516
Max.	139	102	348	697	191	625	20.6	50.0	41.9	74.5	155	5.76	23.2	
Min.	4.90	3.23	1.50	2.80	1.10	0.900	0.400	0.400	<0.2	1.10	1.74	3.81	0.560	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	6.06	4.37	7.32	32.7	7.05	28.0	0.848	1.30	0.695	3.25	6.86
Feb	1.77	1.19	1.24	11.2	1.01	9.59	0.257	0.441	0.234	1.11	1.94
Mar	2.21	1.54	1.91	12.7	1.52	11.2	0.298	0.473	0.230	1.28	2.90
Apr	2.65	2.06	3.36	11.6	3.15	9.80	0.309	1.16	0.944	1.30	2.50
May	1.51	1.29	1.28	4.29	1.03	3.64	0.178	0.646	0.567	0.468	1.36
June	1.21	1.12	1.35	1.86	0.893	1.57	0.0773	0.209	0.175	0.244	2.06
July	2.30	2.20	2.97	2.18	2.07	1.53	0.155	0.211	0.178	0.494	4.07
Aug	2.38	2.11	2.17	5.59	1.34	4.51	0.173	0.209	0.112	0.661	4.22
Sept	1.12	0.923	0.770	3.95	0.455	3.31	0.0864	0.107	0.0350	0.401	2.02
Oct	3.77	2.59	2.49	22.5	2.15	19.6	0.525	0.698	0.275	2.47	4.73
Nov	2.46	2.14	2.15	6.54	1.56	5.25	0.160	0.291	0.177	0.713	4.70
Dec	5.29	3.26	5.86	39.4	3.96	33.7	0.948	1.46	0.729	4.00	4.90
Annual	32.7	24.8	32.9	155	26.2	132	4.02	7.20	4.35	16.4	42.3

Data completeness

	SO_4^{2-}	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	nss-Ca^{2+}	Mg^{2+}	H^+	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**

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

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

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

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

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

Table 3.29 Monthly results **Site: Yusuhara** **Country: Japan**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	26.9	25.9	18.9	21.4	18.0	16.1	0.995	3.33	2.98	3.21	49.8	4.30	2.85	44.0
Feb	9.38	9.21	8.37	4.68	9.32	2.90	<0.3	2.40	2.34	2.00	13.1	4.88	0.981	134
Mar	14.8	14.4	9.20	8.66	12.5	5.84	0.569	1.78	1.65	2.09	21.9	4.66	1.46	218
Apr	20.5	19.5	24.6	19.6	22.1	15.9	1.63	10.3	9.93	4.06	17.9	4.75	1.78	122
May	4.57	4.46	3.15	3.07	3.80	1.79	<0.3	1.01	0.972	1.35	7.50	5.12	0.493	151
June	5.05	4.97	4.20	1.68	4.42	1.31	0.549	0.874	0.846	1.44	11.1	4.95	0.606	326
July	6.57	6.21	4.25	7.66	5.61	5.97	0.796	1.10	0.976	1.85	14.1	4.85	0.764	315
Aug	3.36	3.05	2.07	6.85	1.50	5.17	0.730	1.09	0.983	1.68	8.82	5.05	0.507	1507
Sept	16.7	16.5	6.23	4.48	4.72	2.51	0.684	1.23	1.17	1.50	35.1	4.45	1.58	153
Oct	30.8	29.3	22.1	28.3	29.1	25.1	1.42	3.17	2.62	4.16	35.7	4.45	2.75	285
Nov	*	*	*	*	*	*	*	*	*	*	*	*	*	95.0
Dec	*	*	*	*	*	*	*	*	*	*	*	*	*	180
Annual	6.92	6.61	4.87	6.95	4.91	5.19	0.701	1.60	1.49	1.82	13.2	4.88	0.789	3529
Max.	201	197	195	169	174	137	10.4	82.7	81.6	19.2	170	5.74	12.4	
Min.	0.640	0.541	<0.5	0.530	<0.8	<0.3	<0.3	0.510	0.482	0.736	1.82	3.77	0.206	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	1.18	1.14	0.833	0.943	0.793	0.710	0.0438	0.146	0.131	0.141	2.19
Feb	1.25	1.23	1.12	0.626	1.25	0.388	0.0299	0.321	0.313	0.267	1.75
Mar	3.22	3.14	2.01	1.89	2.72	1.27	0.124	0.388	0.360	0.456	4.77
Apr	2.50	2.38	3.00	2.39	2.69	1.95	0.199	1.25	1.21	0.495	2.18
May	0.687	0.671	0.474	0.462	0.572	0.269	0.0401	0.152	0.146	0.204	1.13
June	1.65	1.62	1.37	0.547	1.44	0.425	0.179	0.285	0.275	0.470	3.63
July	2.07	1.96	1.34	2.41	1.77	1.88	0.251	0.348	0.307	0.581	4.43
Aug	5.06	4.59	3.12	10.3	2.26	7.79	1.10	1.65	1.48	2.53	13.3
Sept	2.55	2.53	0.955	0.687	0.724	0.385	0.105	0.188	0.180	0.229	5.39
Oct	8.77	8.34	6.31	8.07	8.28	7.17	0.404	0.903	0.748	1.19	10.2
Nov	*	*	*	*	*	*	*	*	*	*	*
Dec	*	*	*	*	*	*	*	*	*	*	*
Annual	24.4	23.3	17.2	24.5	17.3	18.3	2.47	5.64	5.25	6.43	46.5

Data completeness

	SO_4^{2-}	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	nss-Ca^{2+}	Mg^{2+}	H^+	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Feb	100	100	100	100	100	100	100	100	100	100	99.5	99.5	99.5	100
Mar	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	98.9	98.9	98.9	100
Apr	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.4	98.4	98.4	100
May	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	98.3	98.3	98.3	100
June	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100
July	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	98.7	98.7	98.7	96.8
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.8	99.8	99.8	100
Oct	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	93.5
Nov	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Dec	0	0	0	0	0	0	0	0	0	0	0	0	0	19.4
Annual	**84.4**	**84.4**	**84.4**	**84.4**	**84.4**	**84.4**	**84.4**	**84.4**	**84.4**	**84.4**	**84.2**	**84.2**	**84.2**	**92.3**

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

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

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

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

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

Table 3.30 Monthly results **Site: Hedo** **Country: Japan**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	67.1	41.3	46.6	487	45.0	427	11.0	14.8	5.75	49.3	56.5	4.25	10.1	42.2
Feb	27.2	10.6	7.78	316	5.83	276	6.15	7.21	1.29	31.5	14.4	4.84	5.34	145
Mar	29.7	18.7	14.3	208	20.4	182	4.85	6.63	2.70	21.0	23.4	4.63	4.25	151
Apr	17.3	11.0	16.9	125	14.6	104	3.10	6.41	4.16	12.4	16.3	4.79	2.81	54.0
May	8.90	6.41	7.19	48.6	9.77	41.3	1.27	2.29	1.40	5.08	11.0	4.96	1.27	431
June	5.16	3.11	4.52	38.6	5.60	34.0	0.905	1.35	0.610	3.89	7.41	5.13	0.899	357
July	14.0	1.50	2.79	234	5.54	207	4.87	5.34	0.859	23.2	3.61	5.44	3.51	495
Aug	14.3	1.89	3.87	237	7.87	206	4.61	6.00	1.55	23.5	2.88	5.54	2.70	132
Sept	4.72	1.89	3.20	53.4	3.59	47.0	1.14	1.29	0.283	5.25	4.45	5.35	1.01	165
Oct	14.6	4.90	5.15	185	4.26	161	4.02	5.28	1.79	18.2	3.53	5.45	2.98	305
Nov	12.0	5.92	8.62	115	4.77	101	2.19	2.75	0.566	11.5	9.18	5.04	2.16	84.0
Dec	25.2	6.63	5.79	359	2.78	309	6.47	8.25	1.58	34.4	8.35	5.08	5.25	82.5
Annual	14.3	6.03	6.88	157	8.28	137	3.31	4.25	1.29	15.6	9.55	5.02	2.68	2442
Max.	1479	215	283	26735	234	22958	474	551	164	2544	157	6.25	37.9	
Min.	1.45	<0.3	<0.5	4.60	<0.8	3.17	<0.3	0.250	<0.2	0.782	0.562	3.80	0.327	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	2.83	1.74	1.96	20.6	1.90	18.0	0.465	0.625	0.243	2.08	2.38
Feb	3.95	1.54	1.13	45.9	0.846	40.0	0.892	1.05	0.187	4.57	2.09
Mar	4.48	2.83	2.15	31.4	3.09	27.5	0.733	1.00	0.408	3.18	3.53
Apr	0.934	0.596	0.914	6.74	0.789	5.61	0.167	0.346	0.225	0.670	0.880
May	3.83	2.76	3.10	20.9	4.21	17.8	0.545	0.986	0.602	2.19	4.73
June	1.84	1.11	1.61	13.8	2.00	12.1	0.323	0.480	0.218	1.39	2.64
July	6.92	0.744	1.38	116	2.74	103	2.41	2.64	0.425	11.5	1.79
Aug	1.89	0.248	0.510	31.2	1.04	27.2	0.608	0.791	0.204	3.09	0.379
Sept	0.777	0.311	0.527	8.79	0.591	7.73	0.188	0.213	0.0465	0.863	0.733
Oct	4.46	1.49	1.57	56.3	1.30	49.2	1.22	1.61	0.546	5.55	1.08
Nov	1.01	0.497	0.724	9.69	0.401	8.47	0.184	0.231	0.0476	0.963	0.771
Dec	2.08	0.547	0.477	29.6	0.229	25.5	0.534	0.680	0.130	2.84	0.689
Annual	34.9	14.7	16.8	383	20.2	335	8.08	10.4	3.14	38.2	23.3

Data completeness

	SO_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	97.3	97.3	97.3	93.5
Feb	100	100	100	100	100	100	100	100	100	100	99.7	99.7	99.7	100
Mar	100	100	100	100	100	100	100	100	100	100	98.9	98.9	98.9	93.5
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	93.3
May	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.3	99.3	99.3	96.9
June	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.7	99.7	99.7	96.7
July	99.9	99.9	92.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.3	99.3	99.3	93.5
Aug	100	100	100	100	100	100	100	100	100	100	97.3	97.3	97.3	96.8
Sept	100	100	80.7	100	100	100	100	100	100	100	99.7	99.7	99.7	96.7
Oct	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	9.3	9.3	9.3	83.9
Nov	100	100	100	100	100	100	100	100	100	100	99.4	99.4	99.4	96.7
Dec	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	98.8	98.8	98.8	96.8
Annual	**88.7**	**88.7**	**85.8**	**88.7**	**88.7**	**88.7**	**88.7**	**88.7**	**88.7**	**88.7**	**88.0**	**88.0**	**88.0**	**94.8**

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

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

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

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

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

Table 3.31 Monthly results **Site: Ogasawara** **Country: Japan**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	19.1	9.93	4.81	180	7.82	153	3.53	3.94	0.649	17.3	13.0	4.88	3.30	97.0
Feb	12.5	4.96	4.18	151	5.12	125	3.08	3.94	1.24	14.3	6.98	5.16	2.57	87.0
Mar	43.3	34.6	19.7	193	30.0	143	4.24	6.36	3.26	17.6	59.2	4.23	5.90	25.7
Apr	27.3	18.3	18.5	173	24.0	149	4.28	6.55	3.34	17.5	19.2	4.72	3.86	63.4
May	5.36	3.67	3.03	31.8	4.15	28.0	0.927	1.67	1.07	3.42	5.48	5.26	0.842	286
June	4.13	3.48	2.30	12.6	2.82	10.7	0.395	0.874	0.642	1.36	7.10	5.15	0.609	187
July	5.82	4.59	3.27	25.9	3.06	20.3	1.28	1.65	1.21	2.53	7.08	5.15	0.848	29.3
Aug	4.01	1.99	1.43	40.6	1.92	33.6	0.826	1.33	0.600	3.79	6.58	5.18	0.840	33.3
Sept	28.3	2.38	1.91	526	1.15	431	10.0	11.7	2.42	49.4	5.98	5.22	7.39	146
Oct	21.3	2.15	1.00	367	1.07	321	6.78	8.04	1.11	37.4	9.97	5.00	5.66	156
Nov	8.53	2.34	1.76	117	1.91	103	2.40	2.94	0.726	11.8	7.94	5.10	2.04	266
Dec	6.64	2.76	1.65	73.1	1.85	64.5	1.61	2.28	0.882	7.13	9.33	5.03	1.50	155
Annual	12.1	4.20	3.11	154	3.88	131	3.12	3.98	1.15	15.2	8.38	5.08	2.62	1532
Max.	160	85.9	79.7	3168	98.2	2588	60.7	69.2	15.7	296	148	6.16	42.7	
Min.	0.583	<0.3	<0.5	2.49	<0.8	2.23	<0.3	0.288	<0.2	0.329	0.692	3.83	0.250	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	1.86	0.963	0.467	17.5	0.759	14.8	0.342	0.382	0.0629	1.68	1.27
Feb	1.09	0.431	0.364	13.1	0.445	10.9	0.268	0.343	0.108	1.24	0.607
Mar	1.11	0.891	0.508	4.97	0.771	3.69	0.109	0.163	0.0837	0.454	1.52
Apr	1.73	1.16	1.17	11.0	1.52	9.43	0.271	0.415	0.212	1.11	1.22
May	1.53	1.05	0.868	9.12	1.19	8.03	0.265	0.479	0.306	0.980	1.57
June	0.774	0.653	0.430	2.35	0.529	2.00	0.0739	0.164	0.120	0.255	1.33
July	0.171	0.135	0.0959	0.758	0.0899	0.595	0.0375	0.0483	0.0354	0.0743	0.208
Aug	0.134	0.0663	0.0478	1.35	0.0638	1.12	0.0275	0.0442	0.0200	0.126	0.219
Sept	4.14	0.348	0.278	77.0	0.168	63.0	1.46	1.71	0.354	7.22	0.874
Oct	3.32	0.335	0.156	57.2	0.167	50.0	1.06	1.25	0.173	5.83	1.55
Nov	2.27	0.623	0.470	31.2	0.509	27.3	0.638	0.784	0.193	3.14	2.12
Dec	1.03	0.426	0.256	11.3	0.286	9.97	0.248	0.352	0.136	1.10	1.44
Annual	18.5	6.44	4.76	236	5.94	201	4.79	6.10	1.76	23.2	12.8

Data completeness

	SO_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	98.5	98.5	98.5	100
Feb	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	96.6	96.6	96.6	100
Mar	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	100
Apr	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	96.9	96.9	96.9	100
May	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	100
June	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	97.4	97.4	97.4	100
July	100	100	100	100	100	100	100	100	100	100	98.9	98.9	98.9	100
Aug	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	93.9	93.9	93.9	100
Sept	100	100	100	100	100	100	100	100	100	100	99.7	99.7	99.7	100
Oct	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	98.2	98.2	98.2	100
Nov	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.3	99.3	99.3	100
Dec	100	100	100	100	100	100	100	100	100	100	98.7	98.7	98.7	100
Annual	**98.1**	**98.1**	**98.1**	**98.1**	**98.1**	**98.1**	**98.1**	**98.1**	**98.1**	**98.1**	**97.2**	**97.2**	**97.2**	**100**

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

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

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

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

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

Table 3.32 Monthly results **Site: Tokyo** **Country: Japan**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	13.2	12.8	27.5	9.66	32.9	6.34	0.441	5.65	5.52	1.27	11.7	4.93	1.43	26.6
Feb	19.7	17.0	20.7	54.4	31.4	44.9	1.42	4.53	3.56	5.22	13.6	4.87	2.07	158
Mar	22.2	19.5	19.2	54.9	33.9	45.0	1.30	4.98	4.01	5.44	13.9	4.86	2.15	113
Apr	16.9	15.7	18.5	23.5	26.7	19.7	0.790	4.33	3.90	2.75	10.8	4.96	1.54	169
May	12.3	11.7	13.3	11.7	17.1	9.96	0.421	5.24	5.02	1.88	11.3	4.95	1.04	106
June	8.40	8.07	11.0	7.05	18.7	5.54	<0.3	2.85	2.73	0.965	7.88	5.10	0.850	347
July	24.8	24.0	40.5	18.3	48.2	12.6	0.488	7.06	6.79	2.11	25.7	4.59	2.53	91.3
Aug	15.5	13.5	24.1	40.9	31.0	32.8	0.836	4.68	3.97	4.11	16.2	4.79	1.79	111
Sept	28.1	27.0	36.9	22.0	33.9	17.9	0.725	5.11	4.72	2.73	50.2	4.30	3.02	159
Oct	5.30	4.28	4.68	20.1	7.57	17.0	0.456	1.95	1.58	2.12	6.78	5.17	0.732	381
Nov	14.4	13.2	15.4	22.1	26.8	19.1	0.585	3.21	2.80	2.58	16.8	4.77	1.48	94.6
Dec	9.14	8.54	11.6	12.9	20.3	10.0	0.342	3.77	3.55	1.33	11.7	4.93	1.09	51.5
Annual	13.9	12.8	16.8	23.1	23.1	18.9	0.628	3.81	3.40	2.54	14.8	4.83	1.46	1807
Max.	139	136	171	284	147	242	6.10	72.2	71.5	32.4	234	6.42	13.7	
Min.	1.44	1.39	0.740	0.677	1.41	0.483	<0.3	0.467	0.451	<0.3	0.380	3.63	0.230	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	0.352	0.342	0.733	0.257	0.876	0.169	0.0117	0.151	0.147	0.0338	0.311
Feb	3.11	2.68	3.26	8.59	4.95	7.08	0.224	0.714	0.561	0.823	2.15
Mar	2.51	2.21	2.17	6.21	3.83	5.08	0.147	0.563	0.453	0.615	1.57
Apr	2.86	2.65	3.13	3.98	4.52	3.34	0.134	0.732	0.660	0.466	1.84
May	1.30	1.24	1.41	1.24	1.81	1.05	0.0445	0.553	0.530	0.198	1.20
June	2.91	2.80	3.81	2.44	6.47	1.92	0.101	0.989	0.947	0.334	2.73
July	2.26	2.19	3.69	1.67	4.40	1.15	0.0446	0.644	0.619	0.193	2.35
Aug	1.72	1.50	2.67	4.54	3.44	3.64	0.0928	0.520	0.441	0.456	1.80
Sept	4.46	4.29	5.85	3.48	5.38	2.84	0.115	0.810	0.749	0.433	7.96
Oct	2.02	1.63	1.78	7.64	2.88	6.49	0.174	0.744	0.603	0.808	2.58
Nov	1.36	1.25	1.46	2.10	2.53	1.81	0.0553	0.304	0.265	0.244	1.59
Dec	0.471	0.440	0.596	0.667	1.05	0.515	0.0176	0.194	0.183	0.0685	0.601
Annual	25.1	23.1	30.4	41.8	41.8	34.2	1.13	6.88	6.14	4.58	26.7

Data completeness

	SO_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	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	100
Feb	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	96.4
Mar	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	100
Apr	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100
May	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.4	99.4	99.4	100
June	100	100	100	100	100	100	100	100	100	100	99.8	99.8	99.8	100
July	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.2	99.2	99.2	100
Aug	100	100	100	100	100	100	100	100	100	100	99.5	99.5	99.5	100
Sept	100	100	100	100	100	100	100	100	100	100	99.7	99.7	99.7	100
Oct	100	100	100	100	100	100	100	100	100	100	99.6	99.6	99.6	100
Nov	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	98.8	98.8	98.8	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	**97.7**	**97.7**	**97.7**	**97.7**	**97.7**	**97.7**	**97.7**	**97.7**	**97.7**	**97.7**	**97.5**	**97.5**	**97.5**	**99.7**

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

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

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

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

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

Table 3.33 Monthly results **Site: Vientiane** **Country: Lao PDR**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Feb	*	*	*	*	*	*	*	*	*	*	0.625	6.20	1.68	31.8
Mar	*	*	*	*	*	*	*	*	*	*	1.12	5.95	3.59	6.37
Apr	--	--	--	--	--	--	--	--	--	--	--	--	--	0
May	*	*	*	*	*	*	*	*	*	*	0.305	6.52	1.05	267
June	*	*	*	*	*	*	*	*	*	*	0.551	6.26	0.686	92.3
July	*	*	*	*	*	*	*	*	*	*	0.380	6.42	0.638	185
Aug	*	*	*	*	*	*	*	*	*	*	0.111	6.95	0.551	290
Sept	*	*	*	*	*	*	*	*	*	*	0.228	6.64	0.493	274
Oct	*	*	*	*	*	*	*	*	*	*	0.417	6.38	1.35	95.5
Nov	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Dec	*	*	*	*	*	*	*	*	*	*	0.0724	7.14	4.46	31.8
Annual	*	*	*	*	*	*	*	*	*	*	0.288	6.54	0.867	1273
Max.	*	*	*	*	*	*	*	*	*	*	1.12	7.40	4.46	
Min.	*	*	*	*	*	*	*	*	*	*	0.0398	5.95	0.220	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb	*	*	*	*	*	*	*	*	*	*	0.0199
Mar	*	*	*	*	*	*	*	*	*	*	<0.01
Apr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May	*	*	*	*	*	*	*	*	*	*	0.0816
June	*	*	*	*	*	*	*	*	*	*	0.0508
July	*	*	*	*	*	*	*	*	*	*	0.0701
Aug	*	*	*	*	*	*	*	*	*	*	0.0322
Sept	*	*	*	*	*	*	*	*	*	*	0.0623
Oct	*	*	*	*	*	*	*	*	*	*	0.0398
Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec	*	*	*	*	*	*	*	*	*	*	<0.01
Annual	*	*	*	*	*	*	*	*	*	*	0.366

Data completeness

	SO_4^{2-}	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	nss-Ca^{2+}	Mg^{2+}	H^+	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Feb	0	0	0	0	0	0	0	0	0	0	100	100	100	100
Mar	0	0	0	0	0	0	0	0	0	0	100	100	100	100
Apr	--	--	--	--	--	--	--	--	--	--	--	--	--	100
May	0	0	0	0	0	0	0	0	0	0	100	100	100	100
June	0	0	0	0	0	0	0	0	0	0	100	100	100	100
July	0	0	0	0	0	0	0	0	0	0	100	100	100	100
Aug	0	0	0	0	0	0	0	0	0	0	100	100	100	100
Sept	0	0	0	0	0	0	0	0	0	0	100	100	100	100
Oct	0	0	0	0	0	0	0	0	0	0	100	100	100	100
Nov	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Dec	0	0	0	0	0	0	0	0	0	0	100	100	100	100
Annual	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**100**	**100**	**100**	**100**

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

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

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

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

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

Table 3.34 Monthly results **Site: Petaling Jaya** **Country: Malaysia**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	15.2	14.9	25.6	8.05	15.0	4.95	1.13	4.21	4.11	0.881	30.2	4.52	1.90	221
Feb	47.7	46.7	65.9	24.0	195	16.8	3.09	10.5	10.1	3.73	5.38	5.27	3.70	66.4
Mar	29.9	29.3	53.0	14.0	55.6	9.84	2.59	13.4	13.2	1.66	40.6	4.39	3.23	151
Apr	18.1	18.0	30.4	7.38	17.1	2.60	1.13	5.09	5.04	0.623	34.9	4.46	2.22	572
May	21.4	21.3	40.7	7.44	17.3	3.25	1.18	7.33	7.26	1.00	48.3	4.32	2.88	384
June	23.6	22.9	33.2	16.3	45.0	12.1	3.73	14.8	14.5	2.20	14.5	4.84	2.07	36.0
July	30.6	30.0	46.7	18.2	86.4	9.94	2.76	10.6	10.4	1.80	15.9	4.80	2.66	38.6
Aug	22.2	21.7	37.7	12.9	30.8	9.17	2.77	7.30	7.10	1.72	33.8	4.47	2.48	220
Sept	26.8	26.4	41.2	11.7	33.9	6.44	1.76	7.07	6.93	1.09	38.9	4.41	2.80	283
Oct	26.5	26.3	33.0	7.24	31.6	3.15	1.09	4.22	4.16	1.51	46.1	4.34	2.82	713
Nov	14.2	14.0	26.2	5.07	14.4	2.48	0.908	3.94	3.89	0.506	29.3	4.53	1.76	511
Dec	17.5	17.0	42.5	10.2	18.6	7.96	1.80	6.57	6.40	0.907	44.0	4.36	2.56	512
Annual	21.4	21.1	35.8	8.89	27.4	5.04	1.47	6.02	5.91	1.10	38.2	4.42	2.50	3708
Max.	92.5	91.8	124	32.1	446	26.6	7.65	27.9	27.5	5.67	67.6	6.49	6.95	
Min.	5.80	5.49	9.12	3.31	0.860	0.920	<0.3	1.77	1.45	<0.3	0.324	4.17	0.740	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	3.36	3.30	5.66	1.78	3.32	1.09	0.251	0.930	0.906	0.195	6.68
Feb	3.17	3.10	4.37	1.59	13.0	1.11	0.205	0.697	0.673	0.248	0.357
Mar	4.52	4.43	8.01	2.12	8.40	1.49	0.392	2.03	2.00	0.251	6.14
Apr	10.4	10.3	17.4	4.23	9.78	1.49	0.646	2.91	2.88	0.356	20.0
May	8.23	8.16	15.6	2.86	6.63	1.25	0.453	2.81	2.79	0.384	18.5
June	0.850	0.823	1.20	0.587	1.62	0.437	0.134	0.531	0.522	0.0793	0.520
July	1.18	1.16	1.80	0.704	3.34	0.384	0.107	0.409	0.401	0.0697	0.612
Aug	4.89	4.77	8.30	2.83	6.77	2.02	0.610	1.61	1.56	0.378	7.45
Sept	7.56	7.45	11.6	3.31	9.58	1.82	0.498	2.00	1.96	0.309	11.0
Oct	18.9	18.8	23.5	5.16	22.5	2.25	0.780	3.01	2.96	1.08	32.9
Nov	7.25	7.17	13.4	2.60	7.34	1.27	0.464	2.01	1.99	0.259	15.0
Dec	8.94	8.70	21.7	5.20	9.53	4.07	0.922	3.36	3.28	0.465	22.5
Annual	79.2	78.1	133	33.0	102	18.7	5.46	22.3	21.9	4.07	142

Data completeness

	SO_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	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	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	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	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	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**100**

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

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

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

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

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

Table 3.35 Monthly results **Site: Tanah Rata** **Country: Malaysia**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	0.689	0.603	<0.5	2.14	<0.8	1.42	0.629	0.411	0.402	<0.3	3.55	5.45	0.230	91.8
Feb	23.4	23.0	25.3	22.3	39.3	7.13	3.09	8.47	8.31	2.68	31.9	4.50	2.57	50.0
Mar	4.90	4.59	4.39	5.82	0.923	5.20	1.77	3.03	2.92	<0.3	15.8	4.80	0.924	120
Apr	5.47	5.41	3.59	1.91	<0.8	1.08	0.767	0.366	0.362	<0.3	16.7	4.78	0.891	318
May	4.62	4.48	3.28	3.85	<0.8	2.34	1.60	3.62	3.57	<0.3	13.5	4.87	0.817	387
June	6.33	5.70	<0.5	7.58	<0.8	10.6	5.13	8.07	7.84	0.940	9.53	5.02	0.840	104
July	7.10	6.71	3.85	3.62	<0.8	6.48	2.10	6.12	5.98	0.830	15.5	4.81	1.07	47.0
Aug	6.19	6.01	7.74	3.32	3.69	3.03	1.14	3.72	3.66	0.464	12.2	4.91	0.882	261
Sept	4.48	4.32	<0.5	3.28	<0.8	2.66	2.60	2.20	2.16	0.491	13.9	4.86	0.859	420
Oct	11.5	11.4	10.3	3.20	12.3	1.83	1.12	2.63	2.59	0.369	17.6	4.75	1.19	380
Nov	8.71	8.48	8.72	3.68	5.68	3.85	1.92	2.91	2.84	0.321	17.2	4.76	1.04	379
Dec	1.23	1.17	0.703	0.781	<0.8	1.06	0.662	0.927	0.904	<0.3	5.33	5.27	0.276	337
Annual	6.19	6.02	4.82	3.49	3.44	2.82	1.62	2.68	2.63	0.333	13.9	4.86	0.875	2895
Max.	29.1	28.8	30.5	31.0	47.9	25.3	12.7	11.7	11.6	2.75	38.9	5.45	3.00	
Min.	<0.3	<0.3	<0.5	<0.5	<0.8	<0.3	0.390	<0.2	<0.2	<0.3	3.55	4.41	0.180	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	0.0632	0.0554	<0.01	0.197	<0.01	0.130	0.0578	0.0378	0.0369	<0.01	0.326
Feb	1.17	1.15	1.27	1.12	1.97	0.357	0.154	0.423	0.416	0.134	1.59
Mar	0.589	0.552	0.527	0.700	0.111	0.625	0.213	0.365	0.351	0.0251	1.91
Apr	1.74	1.72	1.14	0.608	<0.01	0.344	0.244	0.116	0.115	<0.01	5.32
May	1.79	1.73	1.27	1.49	<0.01	0.904	0.618	1.40	1.38	0.0857	5.21
June	0.660	0.594	<0.01	0.790	<0.01	1.10	0.535	0.840	0.817	0.0980	0.993
July	0.334	0.315	0.181	0.170	<0.01	0.305	0.0987	0.288	0.281	0.0390	0.728
Aug	1.61	1.57	2.02	0.867	0.961	0.789	0.296	0.971	0.954	0.121	3.18
Sept	1.88	1.82	0.149	1.38	0.0363	1.12	1.09	0.922	0.907	0.206	5.84
Oct	4.37	4.33	3.90	1.22	4.69	0.696	0.424	0.998	0.983	0.140	6.70
Nov	3.30	3.21	3.30	1.39	2.15	1.46	0.727	1.10	1.07	0.122	6.52
Dec	0.415	0.394	0.237	0.263	0.214	0.356	0.223	0.312	0.304	<0.01	1.80
Annual	17.9	17.4	13.9	10.1	9.97	8.17	4.69	7.75	7.60	0.964	40.3

Data completeness

	SO_4^{2-}	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	nss-Ca^{2+}	Mg^{2+}	H^+	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	76.3	76.3	76.3	100
Feb	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	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	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	100
Aug	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	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	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	100
Annual	**98.7**	**98.7**	**98.7**	**98.7**	**98.7**	**98.7**	**98.7**	**98.7**	**98.7**	**98.7**	**98.3**	**98.3**	**98.3**	**100**

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

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

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

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

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

Table 3.36 Monthly results **Site: Danum Valley** **Country: Malaysia**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	2.54	1.78	<0.5	16.2	<0.8	12.7	10.9	<0.2	<0.2	<0.3	3.44	5.46	0.516	263
Feb	1.17	1.12	<0.5	2.69	<0.8	0.754	1.50	<0.2	<0.2	<0.3	3.62	5.44	0.223	124
Mar	4.30	3.11	<0.5	21.1	<0.8	19.7	1.30	1.81	1.39	1.26	5.71	5.24	0.710	273
Apr	3.50	3.27	1.56	4.56	<0.8	3.91	1.72	0.545	0.527	0.798	9.39	5.03	0.557	221
May	1.94	1.85	1.04	3.81	1.03	1.53	0.976	0.915	0.881	0.455	3.37	5.47	0.334	274
June	2.41	2.30	0.711	2.92	<0.8	1.77	1.02	1.83	1.81	0.736	4.78	5.32	0.379	189
July	2.47	2.03	0.581	3.00	<0.8	7.36	3.19	5.01	4.85	1.26	4.59	5.34	0.391	170
Aug	2.84	2.69	1.10	3.72	<0.8	2.36	0.856	1.28	1.22	<0.3	5.18	5.29	0.389	324
Sept	3.12	3.02	<0.5	2.00	<0.8	1.63	0.602	0.349	0.332	<0.3	4.98	5.30	0.348	159
Oct	2.11	2.05	1.39	2.36	<0.8	1.01	0.782	1.73	1.71	<0.3	5.09	5.29	0.327	242
Nov	1.81	1.63	0.905	4.13	4.92	3.01	2.15	1.49	1.43	0.482	3.10	5.51	0.314	295
Dec	1.16	0.963	1.14	5.31	<0.8	3.27	1.18	0.850	0.779	0.520	6.61	5.18	0.380	314
Annual	2.58	2.25	0.738	6.50	0.915	5.42	2.16	1.41	1.32	0.552	4.87	5.31	0.419	2848
Max.	9.71	6.27	6.58	93.2	23.3	57.0	36.2	8.47	8.28	4.26	10.5	6.06	1.50	
Min.	0.750	0.705	<0.5	1.00	<0.8	<0.3	<0.3	<0.2	<0.2	<0.3	0.871	4.98	0.200	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	0.669	0.468	<0.01	4.26	<0.01	3.34	2.86	0.0353	0.0239	0.0393	0.906
Feb	0.145	0.140	<0.01	0.335	<0.01	0.0938	0.186	0.0191	0.0171	0.0233	0.450
Mar	1.17	0.849	0.0183	5.74	<0.01	5.38	0.355	0.494	0.379	0.344	1.56
Apr	0.772	0.720	0.345	1.01	0.141	0.862	0.380	0.120	0.116	0.176	2.07
May	0.532	0.506	0.284	1.04	0.283	0.420	0.268	0.251	0.242	0.125	0.922
June	0.455	0.435	0.134	0.552	0.0769	0.334	0.192	0.346	0.341	0.139	0.903
July	0.419	0.344	0.0984	0.508	0.0965	1.25	0.541	0.849	0.822	0.213	0.777
Aug	0.919	0.873	0.357	1.20	0.0575	0.764	0.277	0.413	0.397	<0.01	1.68
Sept	0.496	0.480	<0.01	0.318	<0.01	0.258	0.0957	0.0554	0.0527	<0.01	0.792
Oct	0.512	0.497	0.336	0.572	0.0200	0.244	0.189	0.419	0.413	0.0638	1.23
Nov	0.535	0.481	0.267	1.22	1.45	0.888	0.635	0.440	0.421	0.142	0.916
Dec	0.365	0.303	0.358	1.67	<0.01	1.03	0.371	0.267	0.245	0.163	2.08
Annual	7.35	6.42	2.10	18.5	2.60	15.4	6.15	4.02	3.76	1.57	13.9

Data completeness

	SO_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	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	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	94.1	94.1	94.1	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	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	100
Sept	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	100
Oct	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	100
Annual	**80.6**	**80.6**	**80.6**	**80.6**	**80.6**	**80.6**	**80.6**	**80.6**	**80.6**	**80.6**	**80.0**	**80.0**	**80.0**	**100**

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

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

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

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

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

Table 3.37 Monthly results **Site: Kuching** **Country: Malaysia**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	4.87	3.47	1.82	27.5	2.15	23.1	0.922	1.68	1.22	2.26	5.97	5.22	0.749	425
Feb	4.93	3.93	3.08	21.3	<0.8	16.7	1.39	6.39	6.03	2.38	6.00	5.22	0.752	219
Mar	8.80	7.72	6.02	22.0	7.20	17.9	4.78	4.75	4.36	1.62	2.76	5.56	0.840	149
Apr	14.7	14.3	3.87	9.48	43.8	7.33	18.2	4.32	4.19	1.17	0.198	6.70	4.01	349
May	6.88	6.72	8.76	4.62	4.35	2.74	1.53	7.62	7.56	0.791	5.44	5.26	0.676	287
June	7.42	7.22	7.06	5.27	13.0	3.33	0.843	6.20	6.13	<0.3	2.82	5.55	0.656	227
July	6.44	5.95	<0.5	5.57	<0.8	8.07	2.48	14.2	14.0	1.48	5.17	5.29	0.705	127
Aug	5.24	5.04	4.54	4.10	6.21	3.33	1.38	3.34	3.27	0.459	5.50	5.26	0.602	577
Sept	7.59	7.27	6.81	5.75	9.73	5.31	1.99	6.51	6.40	0.756	6.58	5.18	0.799	259
Oct	10.0	9.62	10.7	8.17	11.1	6.57	2.17	10.5	10.4	0.942	7.20	5.14	0.968	276
Nov	7.18	6.88	7.64	5.13	7.67	4.94	1.59	12.5	12.4	0.707	1.23	5.91	0.588	293
Dec	4.66	3.87	4.03	14.3	2.68	13.1	1.82	5.37	5.09	1.28	5.09	5.29	0.637	468
Annual	7.14	6.58	5.29	11.0	9.38	9.25	3.26	6.12	5.93	1.12	4.60	5.34	1.02	3656
Max.	32.1	29.2	35.1	191	135	159	48.8	40.3	39.6	19.0	26.9	7.13	9.40	
Min.	1.07	0.896	<0.5	1.42	<0.8	1.15	<0.3	<0.2	<0.2	<0.3	0.0741	4.57	0.240	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	2.07	1.48	0.773	11.7	0.914	9.80	0.391	0.714	0.519	0.959	2.54
Feb	1.08	0.861	0.676	4.66	<0.01	3.67	0.305	1.40	1.32	0.523	1.31
Mar	1.31	1.15	0.895	3.27	1.07	2.67	0.711	0.707	0.649	0.241	0.411
Apr	5.14	4.98	1.35	3.31	15.3	2.56	6.35	1.51	1.46	0.408	0.0693
May	1.98	1.93	2.51	1.33	1.25	0.785	0.438	2.19	2.17	0.227	1.56
June	1.68	1.64	1.60	1.20	2.95	0.757	0.191	1.41	1.39	0.0409	0.639
July	0.819	0.757	0.0432	0.708	0.0243	1.03	0.315	1.81	1.79	0.188	0.658
Aug	3.02	2.91	2.62	2.37	3.58	1.92	0.798	1.93	1.89	0.265	3.18
Sept	1.96	1.88	1.76	1.49	2.52	1.37	0.514	1.68	1.65	0.195	1.70
Oct	2.76	2.65	2.96	2.25	3.06	1.81	0.598	2.90	2.86	0.260	1.99
Nov	2.10	2.02	2.24	1.50	2.25	1.45	0.465	3.66	3.63	0.207	0.360
Dec	2.18	1.81	1.89	6.70	1.25	6.12	0.852	2.51	2.38	0.599	2.38
Annual	26.1	24.1	19.4	40.4	34.3	33.8	11.9	22.4	21.7	4.10	16.8

Data completeness

	SO_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	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	100
Mar	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	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	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	**99.5**	**99.5**	**99.5**	**99.5**	**99.5**	**99.5**	**99.5**	**99.5**	**99.5**	**99.5**	**99.5**	**99.5**	**99.5**	**100**

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

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

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

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

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

Table 3.38 Monthly results **Site: Yangon** **Country: Myanmar**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Mar	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Apr	--	--	--	--	--	--	--	--	--	--	--	--	--	0
May	4.89	4.01	7.58	23.0	19.9	14.6	7.16	9.28	8.97	2.75	0.180	6.74	0.982	284
June	6.80	5.17	6.92	31.4	7.27	27.1	9.71	19.9	19.3	6.42	0.136	6.87	1.24	596
July	3.39	2.22	2.57	19.2	11.6	19.4	1.96	9.36	8.94	3.10	0.215	6.67	0.790	697
Aug	3.51	2.66	2.79	14.0	12.4	14.2	1.65	11.4	11.1	2.42	0.209	6.68	0.738	637
Sept	4.93	4.02	3.01	16.4	28.6	15.1	2.58	10.5	10.1	3.02	0.155	6.81	0.804	179
Oct	4.27	3.86	8.44	6.89	30.8	6.74	2.18	13.6	13.5	1.42	0.213	6.67	0.675	228
Nov	2.42	1.78	3.89	12.9	14.5	10.5	4.86	8.86	8.63	1.48	0.331	6.48	0.670	226
Dec	26.0	25.7	25.2	44.0	259	4.18	48.4	221	221	11.7	0.200	6.70	5.73	24.1
Annual	4.55	3.51	4.80	19.5	16.6	17.3	4.69	14.1	13.8	3.41	0.199	6.70	0.914	2872
Max.	26.0	25.7	46.7	286	259	47.2	277	221	221	12.0	0.398	6.97	5.73	
Min.	0.833	0.314	0.855	4.32	<0.8	3.96	1.25	3.52	3.33	1.03	0.107	6.40	0.421	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May	1.39	1.14	2.15	6.54	5.65	4.14	2.04	2.64	2.55	0.783	0.0512
June	4.05	3.08	4.13	18.7	4.33	16.1	5.78	11.9	11.5	3.82	0.0808
July	2.37	1.55	1.79	13.4	8.07	13.5	1.36	6.53	6.24	2.16	0.150
Aug	2.24	1.69	1.78	8.92	7.93	9.03	1.05	7.28	7.09	1.54	0.133
Sept	0.882	0.719	0.539	2.93	5.12	2.70	0.462	1.87	1.82	0.542	0.0278
Oct	0.971	0.879	1.92	1.57	7.01	1.53	0.495	3.10	3.07	0.324	0.0484
Nov	0.547	0.403	0.880	2.92	3.28	2.38	1.10	2.01	1.95	0.335	0.0750
Dec	0.626	0.620	0.608	1.06	6.25	0.101	1.17	5.33	5.33	0.283	<0.01
Annual	13.1	10.1	13.8	56.0	47.6	49.6	13.5	40.6	39.6	9.79	0.571

Data completeness

	SO_4^{2-}	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	nss-Ca^{2+}	Mg^{2+}	H^+	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Mar	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Apr	--	--	--	--	--	--	--	--	--	--	--	--	--	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	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/m^2 because precipitation was 0 mm.

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

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

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

Table 3.39 Monthly results **Site: Metro Manila** **Country: Philippines**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Feb	*	*	*	*	*	*	*	*	*	*	*	*	*	0.800
Mar	44.5	42.1	25.2	44.1	274	40.3	33.8	37.7	36.8	7.13	0.0308	7.51	5.73	21.6
Apr	*	*	*	*	*	*	*	*	*	*	0.0339	7.47	12.6	9.80
May	19.4	18.5	24.5	12.3	38.9	14.4	3.84	24.0	23.7	4.56	0.315	6.50	1.74	131
June	19.4	18.3	23.9	18.9	36.9	18.2	2.31	14.7	14.3	1.62	4.76	5.32	1.62	281
July	12.9	10.9	7.04	34.9	26.6	32.8	3.19	8.44	7.73	1.90	0.479	6.32	1.35	563
Aug	20.4	19.2	18.3	17.9	77.4	20.4	14.5	23.0	22.5	6.04	0.123	6.91	2.02	229
Sept	14.3	12.6	15.7	29.7	21.7	28.1	3.52	12.0	11.4	5.10	0.242	6.62	1.34	830
Oct	29.0	28.3	21.1	15.9	166	12.2	25.5	17.6	17.3	7.01	0.195	6.71	3.46	357
Nov	25.7	24.3	14.5	30.1	314	23.0	75.9	31.4	30.9	15.8	0.0383	7.42	3.87	64.7
Dec	*	*	*	*	*	*	*	*	*	*	*	*	*	140
Annual	18.0	16.5	16.0	26.1	61.6	24.5	9.79	14.5	14.0	4.64	0.736	6.13	1.92	2628
Max.	183	173	125	176	1098	174	119	151	147	28.6	5.75	7.81	19.6	
Min.	5.21	3.62	5.22	8.21	7.93	3.65	0.793	6.09	5.29	<0.3	0.0155	5.24	0.677	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb	*	*	*	*	*	*	*	*	*	*	*
Mar	0.961	0.909	0.545	0.952	5.92	0.871	0.731	0.814	0.795	0.154	<0.01
Apr	*	*	*	*	*	*	*	*	*	*	<0.01
May	2.55	2.43	3.21	1.62	5.10	1.90	0.504	3.15	3.11	0.598	0.0413
June	5.45	5.15	6.71	5.30	10.4	5.12	0.650	4.12	4.01	0.456	1.33
July	7.25	6.14	3.96	19.6	15.0	18.4	1.79	4.75	4.35	1.07	0.269
Aug	4.69	4.40	4.21	4.11	17.8	4.67	3.33	5.27	5.17	1.39	0.0283
Sept	11.8	10.4	13.0	24.7	18.0	23.3	2.92	9.99	9.49	4.23	0.201
Oct	10.3	10.1	7.53	5.69	59.1	4.37	9.10	6.27	6.18	2.50	0.0697
Nov	1.66	1.57	0.940	1.95	20.3	1.49	4.91	2.03	2.00	1.02	<0.01
Dec	*	*	*	*	*	*	*	*	*	*	*
Annual	47.3	43.5	42.0	68.6	162	64.4	25.7	38.2	36.8	12.2	1.93

Data completeness

	SO_4^{2-}	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	nss-Ca^{2+}	Mg^{2+}	H^+	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Feb	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	0	0	0	0	0	0	0	0	0	0	100	100	100	100
May	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	100
June	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	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	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	100
Dec	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Annual	**91.5**	**91.5**	**91.5**	**91.5**	**91.5**	**91.5**	**91.5**	**91.5**	**91.5**	**91.5**	**91.8**	**91.8**	**91.8**	**100**

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

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

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

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

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

Table 3.40 Monthly results **Site: Los Baños** **Country: Philippines**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	*	*	*	*	*	*	*	*	*	*	*	*	*	2.70
Feb	37.9	30.9	19.5	140	206	117	89.3	27.4	24.9	23.5	0.0457	7.34	7.88	3.80
Mar	18.4	13.2	10.3	90.4	203	86.1	76.6	22.9	21.1	20.8	0.0392	7.41	6.38	29.1
Apr	*	*	*	*	*	*	*	*	*	*	*	*	*	0.100
May	14.7	13.8	17.0	19.4	106	16.2	9.05	13.2	12.9	3.44	0.440	6.36	2.14	119
June	12.7	12.4	17.6	9.17	44.1	5.44	0.664	6.00	5.89	2.02	8.20	5.09	1.14	116
July	9.65	8.96	6.63	14.7	70.6	11.6	13.3	2.93	2.73	1.31	3.60	5.44	1.73	534
Aug	6.44	6.18	5.75	6.55	59.8	4.24	2.88	6.63	6.54	2.95	0.317	6.50	0.982	205
Sept	6.01	5.41	5.59	11.4	9.40	10.0	1.73	5.28	5.07	2.63	0.464	6.33	0.604	236
Oct	5.85	5.08	6.26	15.0	10.7	12.8	0.896	7.43	7.15	2.93	0.391	6.41	0.732	208
Nov	18.1	13.4	6.82	87.6	176	78.8	30.8	9.83	8.13	9.24	0.152	6.82	4.35	106
Dec	*	*	*	*	*	*	*	*	*	*	*	*	*	514
Annual	9.13	8.20	8.22	18.3	55.9	15.4	8.18	6.99	6.67	3.32	1.61	5.79	1.45	2073
Max.	51.9	50.7	36.8	140	826	117	145	37.2	35.0	32.2	13.2	8.07	15.0	
Min.	1.17	<0.3	2.16	3.33	<0.8	1.30	<0.3	<0.2	<0.2	<0.3	0.0085	4.88	0.319	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	*	*	*	*	*	*	*	*	*	*	*
Feb	0.144	0.117	0.0741	0.534	0.784	0.443	0.339	0.104	0.0947	0.0893	<0.01
Mar	0.536	0.385	0.301	2.63	5.90	2.51	2.23	0.668	0.613	0.606	<0.01
Apr	*	*	*	*	*	*	*	*	*	*	*
May	1.76	1.64	2.03	2.32	12.6	1.93	1.08	1.58	1.54	0.411	0.0525
June	1.47	1.43	2.03	1.06	5.10	0.629	0.0769	0.695	0.681	0.233	0.949
July	5.15	4.78	3.54	7.86	37.7	6.16	7.12	1.57	1.46	0.698	1.92
Aug	1.32	1.27	1.18	1.34	12.3	0.868	0.590	1.36	1.34	0.605	0.0651
Sept	1.42	1.28	1.32	2.70	2.22	2.37	0.410	1.25	1.20	0.623	0.110
Oct	1.22	1.06	1.30	3.12	2.23	2.67	0.186	1.55	1.49	0.609	0.0812
Nov	1.92	1.42	0.723	9.29	18.6	8.35	3.27	1.04	0.862	0.979	0.0161
Dec	*	*	*	*	*	*	*	*	*	*	*
Annual	18.9	17.0	17.0	38.0	116	32.0	17.0	14.5	13.8	6.88	3.34

Data completeness

	SO_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	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	100
Mar	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100
Apr	0	0	0	0	0	0	0	0	0	0	0	0	0	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	100
July	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	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	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	100
Dec	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Annual	**57.0**	**57.0**	**57.0**	**57.0**	**57.0**	**57.0**	**57.0**	**57.0**	**57.0**	**57.0**	**57.0**	**57.0**	**57.0**	**100**

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

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

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

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

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

Table 3.41 Monthly results **Site: Mt. Sto. Tomas** **Country: Philippines**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Mar	3.47	3.15	5.70	3.69	23.6	5.29	1.33	10.5	10.4	1.00	0.234	6.63	0.578	50.2
Apr	10.2	9.71	14.2	6.44	35.4	8.02	2.39	12.2	12.0	0.619	0.599	6.22	0.836	228
May	8.28	7.90	14.2	4.74	26.8	6.30	1.58	9.98	9.84	1.43	0.643	6.19	0.869	458
June	3.57	3.25	5.12	2.76	9.85	5.29	0.758	6.92	6.81	1.18	0.759	6.12	0.389	487
July	2.35	2.09	2.51	2.87	8.88	4.39	1.11	8.28	8.18	1.33	0.467	6.33	0.279	517
Aug	4.04	3.65	2.83	4.31	7.80	6.57	0.846	7.26	7.12	1.48	1.12	5.95	0.378	811
Sept	3.51	3.09	1.40	4.92	9.26	6.96	1.44	6.58	6.43	1.36	0.644	6.19	0.344	905
Oct	6.36	5.89	5.89	3.92	17.8	7.82	1.59	9.24	9.07	1.90	0.575	6.24	0.556	158
Nov	4.15	3.59	6.89	4.00	21.0	9.34	2.15	17.7	17.5	2.64	0.128	6.89	0.689	19.8
Dec	2.45	1.81	<0.5	2.65	19.2	10.5	1.16	22.0	21.8	3.47	0.0871	7.06	0.752	7.60
Annual	4.62	4.24	5.07	4.21	13.5	6.30	1.26	8.06	7.92	1.35	0.724	6.14	0.460	3641
Max.	18.8	17.9	26.2	12.6	51.9	15.1	4.74	22.0	21.8	4.11	12.0	7.06	1.30	
Min.	1.18	0.987	<0.5	1.24	6.49	2.99	0.575	5.60	5.53	<0.3	0.0871	4.92	0.203	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
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	0.174	0.158	0.286	0.185	1.19	0.266	0.0669	0.526	0.521	0.0504	0.0118
Apr	2.33	2.22	3.25	1.47	8.08	1.83	0.545	2.78	2.74	0.141	0.137
May	3.79	3.62	6.51	2.17	12.3	2.89	0.724	4.57	4.51	0.655	0.295
June	1.73	1.58	2.49	1.34	4.80	2.57	0.369	3.37	3.31	0.575	0.369
July	1.22	1.08	1.30	1.48	4.59	2.27	0.573	4.28	4.23	0.688	0.241
Aug	3.28	2.96	2.30	3.50	6.33	5.33	0.687	5.89	5.78	1.20	0.906
Sept	3.18	2.80	1.27	4.45	8.37	6.29	1.30	5.95	5.82	1.23	0.583
Oct	1.00	0.929	0.930	0.618	2.81	1.23	0.251	1.46	1.43	0.300	0.0907
Nov	0.0822	0.0710	0.137	0.0792	0.415	0.185	0.0425	0.350	0.346	0.0522	<0.01
Dec	0.0186	0.0138	<0.01	0.0202	0.146	0.0799	<0.01	0.167	0.165	0.0264	<0.01
Annual	16.8	15.4	18.5	15.3	49.0	23.0	4.57	29.3	28.8	4.92	2.64

Data completeness

	SO_4^{2-}	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	nss-Ca^{2+}	Mg^{2+}	H^+	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	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/m^2 because precipitation was 0 mm.

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

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

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

Table 3.42 Monthly results **Site: Kanghwa** **Country: Republic of Korea**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	102	100	148	53.5	218	38.8	13.6	34.1	33.3	9.13	36.8	4.43	6.47	13.5
Feb	63.0	60.8	62.5	50.3	111	36.4	22.3	18.2	17.4	2.85	34.3	4.46	4.28	12.5
Mar	89.7	87.6	216	105	258	34.4	45.2	36.1	35.3	5.98	120	3.92	9.84	1.00
Apr	28.1	27.0	32.6	21.9	52.9	18.0	2.97	11.6	11.2	1.08	24.1	4.62	2.09	23.0
May	52.3	50.0	52.1	50.9	81.3	39.0	6.95	22.2	21.3	4.28	6.79	5.17	2.78	70.5
June	31.7	30.9	44.6	18.7	65.6	13.2	3.50	10.2	9.87	2.58	16.7	4.78	2.31	10.0
July	20.2	18.0	22.8	43.1	54.9	37.2	2.44	2.66	1.86	2.70	6.61	5.18	1.58	113
Aug	12.0	7.59	15.6	105	31.7	73.1	25.3	1.34	0.352	2.37	5.78	5.24	1.99	82.5
Sept	3.61	3.33	6.49	34.9	23.7	4.71	22.2	1.36	1.26	<0.3	0.313	6.50	0.683	42.5
Oct	12.9	12.1	22.1	34.8	41.6	13.4	12.8	1.89	1.60	<0.3	21.4	4.67	1.70	14.5
Nov	29.9	27.6	70.2	68.1	51.9	39.2	28.3	9.15	8.31	3.58	49.7	4.30	3.99	37.5
Dec	129	110	123	376	174	313	11.1	49.2	42.4	36.3	9.31	5.03	10.1	6.50
Annual	29.3	26.7	36.9	61.6	60.2	43.2	13.4	8.94	8.13	3.27	13.4	4.87	2.41	427
Max.	232	220	322	689	344	583	198	171	166	63.7	155	6.66	13.2	
Min.	2.85	2.57	4.31	12.7	7.74	4.68	<0.3	0.307	<0.2	<0.3	0.219	3.81	0.510	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	1.38	1.35	2.00	0.723	2.95	0.524	0.183	0.461	0.449	0.123	0.497
Feb	0.787	0.760	0.782	0.629	1.38	0.455	0.279	0.228	0.218	0.0357	0.429
Mar	0.0897	0.0876	0.216	0.105	0.258	0.0344	0.0452	0.0361	0.0353	<0.01	0.120
Apr	0.647	0.622	0.750	0.503	1.22	0.413	0.0683	0.267	0.258	0.0248	0.554
May	3.69	3.52	3.67	3.59	5.73	2.75	0.490	1.56	1.50	0.301	0.479
June	0.317	0.309	0.446	0.187	0.656	0.132	0.0350	0.102	0.0987	0.0258	0.167
July	2.27	2.02	2.56	4.85	6.18	4.19	0.274	0.300	0.209	0.304	0.744
Aug	0.989	0.626	1.28	8.70	2.61	6.03	2.09	0.110	0.0290	0.196	0.477
Sept	0.153	0.141	0.276	1.48	1.01	0.200	0.945	0.0580	0.0537	<0.01	0.0133
Oct	0.188	0.176	0.320	0.505	0.602	0.195	0.186	0.0275	0.0232	<0.01	0.310
Nov	1.12	1.03	2.63	2.55	1.95	1.47	1.06	0.343	0.312	0.134	1.86
Dec	0.837	0.714	0.802	2.44	1.13	2.03	0.0723	0.320	0.276	0.236	0.0605
Annual	12.5	11.4	15.7	26.3	25.7	18.4	5.73	3.81	3.47	1.39	5.72

Data completeness

	SO_4^{2-}	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	nss-Ca^{2+}	Mg^{2+}	H^+	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**

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

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

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

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

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

Table 3.43 Monthly results **Site: Cheju** **Country: Republic of Korea**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	62.5	39.9	62.0	400	60.7	376	20.4	20.8	12.7	44.9	0.336	6.47	7.90	29.5
Feb	32.6	22.6	31.9	149	25.9	167	4.64	7.45	4.14	12.2	0.299	6.52	3.32	74.7
Mar	19.4	13.5	21.2	93.5	25.7	97.5	11.2	3.87	1.76	3.07	1.29	5.89	2.15	108
Apr	12.5	8.88	14.8	69.2	31.6	59.6	9.68	2.38	1.09	1.99	1.04	5.98	1.59	68.5
May	11.8	8.98	12.2	44.9	26.6	46.2	6.60	1.86	1.38	1.40	1.43	5.84	1.15	185
June	2.23	1.22	7.44	12.1	4.11	16.7	2.17	0.856	0.495	0.918	0.427	6.37	0.379	74.0
July	5.27	3.87	12.2	16.7	11.7	23.2	3.54	0.975	0.481	0.748	0.524	6.28	0.621	246
Aug	8.26	5.12	10.9	60.8	33.1	52.2	3.22	1.54	0.583	1.63	0.791	6.10	1.34	229
Sept	18.6	14.5	24.7	74.3	45.1	68.3	11.9	1.18	<0.2	0.977	11.7	4.93	2.29	81.5
Oct	40.2	20.7	36.9	368	30.6	323	65.3	9.21	2.72	20.1	0.776	6.11	6.60	35.2
Nov	60.4	18.5	31.7	793	18.5	694	50.4	20.9	5.89	57.4	1.92	5.72	11.8	47.0
Dec	113	32.1	67.0	1548	27.8	1342	118	43.7	14.7	131	0.687	6.16	22.7	17.6
Annual	17.2	10.2	18.2	124	25.5	116	11.3	4.12	1.79	7.85	1.61	5.79	2.42	1195
Max.	216	144	207	2125	231	1816	722	86.0	67.8	183	55.0	7.01	30.0	
Min.	1.83	<0.3	3.97	8.77	<0.8	6.52	1.09	<0.2	<0.2	0.535	0.0977	4.26	0.350	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	1.84	1.18	1.83	11.8	1.79	11.1	0.601	0.615	0.375	1.32	<0.01
Feb	2.44	1.68	2.38	11.1	1.93	12.5	0.347	0.557	0.310	0.910	0.0224
Mar	2.10	1.46	2.29	10.1	2.77	10.5	1.21	0.418	0.190	0.331	0.139
Apr	0.854	0.608	1.01	4.74	2.17	4.08	0.663	0.163	0.0747	0.136	0.0711
May	2.17	1.66	2.25	8.31	4.92	8.54	1.22	0.344	0.255	0.260	0.265
June	0.165	0.0904	0.551	0.897	0.304	1.24	0.160	0.0634	0.0366	0.0679	0.0316
July	1.29	0.950	2.99	4.09	2.87	5.71	0.871	0.240	0.118	0.184	0.129
Aug	1.89	1.17	2.49	13.9	7.56	11.9	0.737	0.353	0.133	0.374	0.181
Sept	1.52	1.18	2.02	6.06	3.68	5.57	0.968	0.0960	0.0108	0.0796	0.951
Oct	1.42	0.730	1.30	12.9	1.08	11.4	2.30	0.324	0.0956	0.707	0.0273
Nov	2.84	0.871	1.49	37.3	0.868	32.6	2.37	0.982	0.277	2.70	0.0901
Dec	1.99	0.565	1.18	27.2	0.489	23.6	2.08	0.768	0.258	2.31	0.0121
Annual	20.5	12.1	21.8	148	30.4	139	13.5	4.92	2.13	9.38	1.93

Data completeness

	SO_4^{2-}	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	nss-Ca^{2+}	Mg^{2+}	H^+	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**

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

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

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

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

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

Table 3.44 Monthly results **Site: Imsil** **Country: Republic of Korea**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	198	187	393	167	393	185	20.5	91.5	87.5	26.0	42.8	4.37	14.8	8.50
Feb	103	95.7	172	64.7	260	121	5.83	30.5	27.9	7.69	6.48	5.19	6.75	1.10
Mar	21.3	19.5	45.5	23.3	63.4	30.2	5.65	5.09	4.44	0.762	1.24	5.91	1.67	94.5
Apr	15.3	13.7	27.2	70.7	45.2	27.4	43.3	4.74	4.15	1.20	6.28	5.20	1.94	65.5
May	25.4	23.0	29.5	20.0	44.6	40.3	5.68	6.51	5.96	1.56	3.95	5.40	1.53	36.5
June	22.3	20.3	37.3	15.1	46.8	33.6	6.51	2.15	1.43	1.04	3.91	5.41	1.53	50.5
July	8.08	6.49	17.0	19.2	19.7	26.4	4.99	0.747	0.220	0.744	0.655	6.18	0.822	193
Aug	4.81	4.25	8.96	6.65	10.2	9.20	1.58	1.32	1.12	1.09	0.881	6.06	0.423	382
Sept	16.2	15.0	32.3	10.3	38.9	19.9	2.20	0.616	0.259	0.594	5.34	5.27	1.18	108
Oct	13.2	11.5	14.8	51.4	18.6	27.9	30.1	0.975	0.551	0.513	14.1	4.85	1.65	85.5
Nov	36.4	32.2	66.5	88.3	69.6	68.7	26.9	6.51	5.09	4.85	28.7	4.54	3.83	47.5
Dec	64.1	49.5	127	282	117	242	37.2	27.9	22.7	19.7	29.4	4.53	7.47	28.5
Annual	15.2	13.4	28.0	30.7	33.4	29.8	9.82	3.50	2.90	1.77	5.17	5.29	1.39	1101
Max.	221	210	530	605	499	587	527	104	99.9	48.5	91.2	7.32	17.3	
Min.	1.94	0.787	3.72	4.81	2.01	4.35	0.957	<0.2	<0.2	<0.3	0.0478	4.04	0.210	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	1.68	1.59	3.34	1.42	3.34	1.57	0.175	0.778	0.744	0.221	0.364
Feb	0.113	0.105	0.189	0.0712	0.287	0.134	<0.01	0.0336	0.0307	<0.01	<0.01
Mar	2.02	1.84	4.30	2.20	5.99	2.86	0.534	0.481	0.419	0.0720	0.118
Apr	1.00	0.897	1.78	4.63	2.96	1.79	2.84	0.311	0.272	0.0787	0.412
May	0.927	0.838	1.08	0.732	1.63	1.47	0.207	0.238	0.217	0.0570	0.144
June	1.13	1.02	1.88	0.765	2.36	1.70	0.329	0.108	0.0723	0.0527	0.197
July	1.56	1.25	3.27	3.70	3.81	5.10	0.962	0.144	0.0425	0.144	0.126
Aug	1.83	1.62	3.42	2.54	3.91	3.51	0.603	0.503	0.428	0.416	0.336
Sept	1.75	1.62	3.49	1.11	4.20	2.15	0.238	0.0665	0.0280	0.0641	0.577
Oct	1.13	0.985	1.27	4.39	1.59	2.39	2.58	0.0833	0.0471	0.0438	1.20
Nov	1.73	1.53	3.16	4.19	3.30	3.26	1.28	0.309	0.242	0.230	1.36
Dec	1.83	1.41	3.62	8.04	3.33	6.91	1.06	0.796	0.647	0.561	0.839
Annual	16.7	14.7	30.8	33.8	36.7	32.8	10.8	3.85	3.19	1.95	5.69

Data completeness

	SO_4^{2-}	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	nss-Ca^{2+}	Mg^{2+}	H^+	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**

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

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

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

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

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

Table 3.45 Monthly results **Site: Mondy** **Country: Russia**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Mar	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Apr	--	--	--	--	--	--	--	--	--	--	--	--	--	0
May	7.20	6.95	6.32	8.04	12.7	4.07	3.89	9.45	9.36	1.83	4.94	5.31	0.664	23.8
June	3.20	3.13	4.11	1.53	0.865	1.01	0.683	4.22	4.20	0.681	5.49	5.26	0.386	73.1
July	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Aug	16.9	15.0	9.96	32.2	34.0	31.2	38.1	24.4	23.7	5.46	2.02	5.70	1.93	1.00
Sept	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Oct	10.2	9.98	3.73	5.15	2.05	2.96	2.93	9.96	9.90	1.57	2.40	5.62	0.491	19.3
Nov	15.0	14.7	7.40	1.10	1.50	4.78	2.81	28.2	28.1	4.52	0.302	6.52	0.930	2.40
Dec	5.73	5.62	6.10	0.600	<0.8	1.74	1.02	13.0	13.0	1.60	1.41	5.85	0.420	3.70
Annual	5.47	5.34	4.65	3.57	3.60	2.25	2.01	7.02	6.97	1.18	4.65	5.33	0.480	123
Max.	19.9	17.7	12.4	39.4	41.6	36.5	46.0	29.2	28.4	6.20	13.2	6.52	2.28	
Min.	1.20	1.17	<0.5	0.500	<0.8	0.435	<0.3	0.750	0.741	<0.3	0.302	4.88	0.220	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May	0.171	0.165	0.150	0.191	0.302	0.0970	0.0926	0.225	0.223	0.0436	0.118
June	0.234	0.229	0.301	0.112	0.0633	0.0737	0.0500	0.308	0.307	0.0498	0.401
July	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug	0.0169	0.0150	<0.01	0.0322	0.0340	0.0312	0.0381	0.0244	0.0237	<0.01	<0.01
Sept	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct	0.196	0.193	0.0719	0.0994	0.0395	0.0572	0.0566	0.192	0.191	0.0303	0.0463
Nov	0.0360	0.0353	0.0178	<0.01	<0.01	0.0115	<0.01	0.0677	0.0674	0.0108	<0.01
Dec	0.0212	0.0208	0.0226	<0.01	<0.01	<0.01	<0.01	0.0481	0.0480	<0.01	<0.01
Annual	0.675	0.658	0.573	0.440	0.444	0.277	0.248	0.866	0.860	0.146	0.573

Data completeness

	SO_4^{2-}	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	nss-Ca^{2+}	Mg^{2+}	H^+	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Mar	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Apr	--	--	--	--	--	--	--	--	--	--	--	--	--	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	--	--	--	--	--	--	--	--	--	--	--	--	--	100
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	**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/m^2 because precipitation was 0 mm.

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

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

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

Table 3.46 Monthly results **Site: Listvyanka** **Country: Russia**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	16.8	16.3	30.8	5.18	4.81	9.19	7.17	18.7	18.5	3.70	4.84	5.32	1.19	11.2
Feb	19.2	18.6	57.9	2.79	7.33	9.93	3.91	30.5	30.3	5.79	5.79	5.24	1.70	2.26
Mar	30.5	29.4	37.3	6.05	6.20	17.2	8.26	27.7	27.4	6.19	7.94	5.10	1.78	7.64
Apr	51.0	49.2	36.1	17.1	13.2	29.1	5.55	69.4	68.7	12.4	2.36	5.63	3.24	8.92
May	16.3	16.1	9.85	1.55	11.5	4.08	2.94	10.2	10.1	1.95	13.8	4.86	1.17	71.0
June	14.1	13.9	9.32	4.14	10.5	3.69	2.80	9.54	9.46	1.49	15.7	4.80	1.05	39.9
July	13.9	13.7	11.1	3.00	13.5	2.24	2.05	8.90	8.85	1.01	13.1	4.88	1.06	43.5
Aug	12.0	11.9	7.87	1.98	6.78	1.54	1.66	5.38	5.35	0.939	17.6	4.75	0.872	55.1
Sept	32.7	32.4	13.1	3.66	27.1	5.09	2.98	11.9	11.8	3.84	18.9	4.72	1.57	10.5
Oct	23.1	23.0	12.0	2.66	59.1	2.96	3.40	13.4	13.3	2.03	0.929	6.03	1.38	12.3
Nov	45.0	44.5	26.9	6.97	96.2	9.62	8.74	34.9	34.7	9.01	0.951	6.02	2.64	3.30
Dec	12.7	12.3	17.8	10.8	5.66	6.18	4.68	19.5	19.4	4.53	1.51	5.82	0.965	13.6
Annual	17.4	17.1	13.2	3.65	13.7	4.80	3.11	12.8	12.7	2.37	12.6	4.90	1.20	279
Max.	122	121	156	24.5	170	42.2	14.8	88.8	88.1	26.7	43.7	6.86	4.98	
Min.	7.60	7.44	4.52	0.530	1.00	0.435	1.02	2.99	2.95	0.410	0.138	4.36	0.550	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	0.189	0.183	0.345	0.0581	0.0539	0.103	0.0803	0.210	0.208	0.0415	0.0542
Feb	0.0433	0.0419	0.131	<0.01	0.0166	0.0224	<0.01	0.0689	0.0684	0.0131	0.0131
Mar	0.233	0.225	0.285	0.0462	0.0474	0.131	0.0631	0.212	0.209	0.0473	0.0606
Apr	0.455	0.439	0.322	0.153	0.117	0.259	0.0495	0.619	0.613	0.111	0.0211
May	1.16	1.14	0.699	0.110	0.813	0.290	0.209	0.721	0.715	0.139	0.982
June	0.563	0.554	0.371	0.165	0.419	0.147	0.112	0.380	0.377	0.0594	0.625
July	0.602	0.596	0.482	0.130	0.588	0.0975	0.0892	0.387	0.384	0.0440	0.569
Aug	0.663	0.657	0.434	0.109	0.373	0.0849	0.0915	0.297	0.295	0.0518	0.969
Sept	0.343	0.340	0.138	0.0384	0.285	0.0535	0.0313	0.125	0.124	0.0403	0.198
Oct	0.284	0.281	0.147	0.0326	0.724	0.0362	0.0416	0.164	0.163	0.0249	0.0114
Nov	0.149	0.147	0.0889	0.0230	0.317	0.0317	0.0289	0.115	0.115	0.0297	<0.01
Dec	0.172	0.167	0.241	0.146	0.0767	0.0838	0.0634	0.265	0.263	0.0613	0.0205
Annual	4.85	4.77	3.68	1.02	3.83	1.34	0.868	3.56	3.53	0.662	3.53

Data completeness

	SO_4^{2-}	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	nss-Ca^{2+}	Mg^{2+}	H^+	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**

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

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

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

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

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

Table 3.47 Monthly results **Site: Irkutsk** **Country: Russia**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	21.5	20.8	24.0	13.0	19.2	11.5	5.61	30.6	30.4	4.72	1.22	5.91	1.46	22.9
Feb	104	102	64.4	26.5	24.9	43.5	25.2	208	207	33.8	0.0904	7.04	6.63	1.88
Mar	53.6	49.6	27.4	79.1	35.5	66.4	6.01	52.7	51.2	10.1	4.75	5.32	3.21	11.0
Apr	31.0	28.6	29.8	32.9	44.4	39.5	7.69	74.9	74.0	9.77	0.783	6.11	3.21	11.7
May	22.4	21.9	14.2	8.45	35.3	7.03	3.86	24.1	23.9	4.71	3.84	5.42	1.48	35.1
June	17.5	17.3	8.06	3.63	11.9	3.22	2.22	13.2	13.1	2.18	12.5	4.90	1.13	72.9
July	17.5	17.4	9.61	3.51	16.5	2.19	1.78	13.5	13.4	2.00	7.98	5.10	1.06	77.1
Aug	15.5	15.4	7.91	2.05	15.7	1.60	1.46	6.64	6.61	1.27	12.5	4.90	0.936	97.7
Sept	20.7	20.4	7.67	3.47	14.0	4.36	3.07	9.63	9.54	1.96	15.2	4.82	1.18	24.6
Oct	49.3	48.8	11.0	14.6	110	8.59	3.62	26.3	26.1	3.68	0.520	6.28	2.49	9.63
Nov	134	126	26.7	150	149	134	18.9	194	192	25.3	0.0853	7.07	10.1	2.89
Dec	52.8	51.5	23.4	26.0	55.8	20.6	3.76	154	154	13.3	0.178	6.75	5.28	20.6
Annual	23.2	22.7	12.3	9.86	23.9	8.62	2.97	26.5	26.3	3.68	8.65	5.06	1.59	388
Max.	279	250	118	599	219	470	44.3	434	433	65.7	39.8	8.43	20.6	
Min.	4.15	4.13	1.36	0.970	<0.8	0.435	<0.3	2.50	2.42	0.820	0.0037	4.40	0.422	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	0.493	0.477	0.550	0.298	0.441	0.264	0.129	0.702	0.696	0.108	0.0280
Feb	0.196	0.191	0.121	0.0499	0.0468	0.0818	0.0473	0.392	0.390	0.0636	<0.01
Mar	0.587	0.543	0.300	0.867	0.389	0.727	0.0658	0.577	0.561	0.110	0.0520
Apr	0.361	0.334	0.347	0.384	0.518	0.461	0.0897	0.874	0.864	0.114	<0.01
May	0.785	0.770	0.499	0.296	1.24	0.247	0.135	0.845	0.840	0.165	0.135
June	1.28	1.26	0.587	0.265	0.867	0.235	0.162	0.959	0.954	0.159	0.914
July	1.35	1.34	0.741	0.271	1.27	0.169	0.137	1.04	1.03	0.154	0.615
Aug	1.51	1.50	0.773	0.200	1.53	0.157	0.143	0.649	0.645	0.124	1.22
Sept	0.510	0.503	0.189	0.0856	0.345	0.107	0.0757	0.237	0.235	0.0483	0.376
Oct	0.475	0.470	0.106	0.141	1.06	0.0827	0.0349	0.253	0.251	0.0354	<0.01
Nov	0.387	0.364	0.0771	0.433	0.430	0.388	0.0546	0.563	0.554	0.0731	<0.01
Dec	1.09	1.06	0.481	0.536	1.15	0.425	0.0773	3.17	3.16	0.274	<0.01
Annual	9.02	8.82	4.77	3.82	9.28	3.35	1.15	10.3	10.2	1.43	3.35

Data completeness

	SO_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	99.7	100	100	99.7	99.7	99.7	99.7	99.7	99.7	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	96.8
Annual	**100**	**99.9**	**100**	**100**	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**100**	**100**	**100**	**99.7**

[--] for averages and completeness: Precipitation was 0mm.
[0.00] for deposition: The deposition was 0 mmol/m^2 because precipitation was 0 mm.
[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)
[**] for all: Precipitation was not measured. (%PCL=0%)
Data in hatched cell for averages and deposition: Rejected monthly (annual) value by the criteria of EANET (%PCL<80% or %TP<80%)

Table 3.48 Monthly results **Site: Primorskaya** **Country: Russia**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	57.7	50.7	39.5	94.2	28.8	116	12.8	71.1	68.6	37.4	0.363	6.44	4.21	3.90
Feb	43.3	39.3	30.2	86.0	48.2	66.6	39.6	51.4	50.0	20.6	1.95	5.71	3.84	5.40
Mar	42.8	38.3	32.4	134	68.7	74.8	22.0	78.3	76.7	29.2	0.262	6.58	4.87	5.80
Apr	131	127	19.9	106	74.1	52.3	21.5	76.9	75.7	20.4	44.2	4.35	7.17	13.9
May	50.8	49.8	8.47	49.3	50.2	16.5	11.4	24.1	23.7	11.0	5.38	5.27	2.36	105
June	18.2	16.8	18.2	23.5	21.6	23.0	8.16	12.7	12.2	4.08	2.01	5.70	1.20	46.6
July	19.6	19.1	3.33	7.68	25.8	8.49	2.46	12.4	12.2	3.11	4.43	5.35	1.09	88.8
Aug	19.4	19.0	3.69	8.79	36.2	6.05	2.86	7.31	7.18	3.22	0.878	6.06	0.970	44.1
Sept	20.7	20.0	7.15	17.0	42.2	11.9	1.92	12.7	12.4	3.22	0.662	6.18	1.17	136
Oct	27.1	26.3	6.12	23.0	39.1	14.8	2.20	23.7	23.4	3.18	3.01	5.52	1.41	75.2
Nov	40.4	39.3	5.12	18.6	56.8	17.4	2.77	14.5	14.1	8.24	1.34	5.87	1.71	96.6
Dec	35.9	34.7	12.8	20.5	47.6	19.4	4.83	25.3	24.9	7.49	1.20	5.92	1.82	20.9
Annual	32.1	31.1	7.66	25.0	42.3	15.8	5.14	18.1	17.7	6.21	3.41	5.47	1.63	643
Max.	265	262	55.8	185	113	116	39.6	166	165	37.4	224	7.76	16.8	
Min.	4.00	2.55	1.80	2.80	8.90	5.70	0.800	2.15	1.94	0.400	0.0174	3.65	0.780	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	0.225	0.198	0.154	0.367	0.112	0.453	0.0499	0.277	0.268	0.146	<0.01
Feb	0.234	0.212	0.163	0.464	0.260	0.360	0.214	0.278	0.270	0.111	0.0105
Mar	0.248	0.222	0.188	0.775	0.398	0.434	0.128	0.454	0.445	0.169	<0.01
Apr	1.81	1.77	0.276	1.48	1.03	0.726	0.298	1.07	1.05	0.283	0.615
May	5.35	5.25	0.893	5.20	5.29	1.74	1.20	2.54	2.50	1.16	0.567
June	0.847	0.782	0.849	1.10	1.01	1.07	0.380	0.590	0.567	0.190	0.0938
July	1.74	1.70	0.295	0.682	2.29	0.754	0.218	1.10	1.09	0.276	0.393
Aug	0.856	0.839	0.163	0.388	1.60	0.267	0.126	0.322	0.317	0.142	0.0387
Sept	2.83	2.73	0.974	2.32	5.75	1.62	0.262	1.73	1.70	0.438	0.0902
Oct	2.04	1.97	0.460	1.73	2.94	1.11	0.165	1.78	1.76	0.239	0.226
Nov	3.90	3.80	0.494	1.80	5.48	1.68	0.267	1.40	1.36	0.796	0.129
Dec	0.749	0.725	0.268	0.428	0.996	0.406	0.101	0.529	0.520	0.157	0.0251
Annual	20.6	20.0	4.93	16.1	27.2	10.1	3.30	11.6	11.4	3.99	2.19

Data completeness

	SO_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	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	100	100	43.6	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	100	100	55.2	100
Apr	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	100	100	65.5	100
May	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	100	100	91.6	100
June	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	100	100	79.8	100
July	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	100	100	92.6	100
Aug	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	100	100	92.3	100
Sept	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	100	100	85.8	100
Oct	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	100	100	88.6	100
Nov	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100	100	99.3	100
Dec	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	100	100	81.8	96.8
Annual	**89.1**	**89.1**	**89.1**	**89.1**	**89.1**	**89.1**	**89.1**	**89.1**	**89.1**	**89.1**	**100**	**100**	**89.1**	**99.7**

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

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

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

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

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

Table 3.49 Monthly results **Site: Bangkok** **Country: Thailand**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Mar	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Apr	--	--	--	--	--	--	--	--	--	--	--	--	--	0
May	4.06	3.59	30.6	9.31	28.8	7.83	1.28	11.2	11.1	1.65	1.10	5.96	1.12	5.00
June	7.62	6.56	8.77	19.1	33.9	17.6	1.48	14.9	14.5	3.18	0.121	6.92	0.980	179
July	13.4	12.7	12.9	14.1	44.6	12.1	1.63	21.8	21.6	4.35	0.166	6.78	1.19	106
Aug	6.61	6.18	13.8	7.13	51.9	7.26	1.38	13.9	13.8	1.96	0.108	6.97	0.934	307
Sept	8.62	8.13	17.8	6.14	66.0	8.24	1.27	12.5	12.3	2.19	0.0571	7.24	1.27	240
Oct	9.29	9.09	22.5	4.08	58.5	3.39	1.30	13.4	13.3	1.35	0.0224	7.65	1.21	174
Nov	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Annual	8.43	7.88	15.3	9.22	52.3	9.17	1.38	14.5	14.3	2.37	0.0943	7.03	1.10	1011
Max.	30.3	29.3	44.0	56.4	142	47.8	3.84	48.9	48.1	8.23	1.10	8.26	3.34	
Min.	1.35	1.22	1.61	1.41	16.6	0.870	0.512	2.74	2.70	0.411	0.0055	5.96	0.430	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May	0.0203	0.0179	0.153	0.0465	0.144	0.0391	<0.01	0.0561	0.0553	<0.01	<0.01
June	1.36	1.17	1.57	3.41	6.06	3.14	0.264	2.66	2.59	0.569	0.0216
July	1.42	1.34	1.37	1.48	4.70	1.28	0.173	2.31	2.28	0.460	0.0176
Aug	2.03	1.90	4.23	2.19	15.9	2.23	0.425	4.28	4.23	0.602	0.0330
Sept	2.07	1.95	4.28	1.47	15.9	1.98	0.304	2.99	2.95	0.527	0.0137
Oct	1.62	1.58	3.91	0.710	10.2	0.590	0.226	2.32	2.31	0.234	<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	8.52	7.96	15.5	9.32	52.9	9.26	1.40	14.6	14.4	2.40	0.0953

Data completeness

	SO_4^{2-}	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	nss-Ca^{2+}	Mg^{2+}	H^+	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Mar	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Apr	--	--	--	--	--	--	--	--	--	--	--	--	--	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Annual	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**

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

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

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

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

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

Table 3.50 Monthly results **Site: Samutprakarn** **Country: Thailand**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Mar	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Apr	--	--	--	--	--	--	--	--	--	--	--	--	--	0
May	10.3	9.46	17.8	15.7	22.6	14.2	2.12	9.81	9.50	2.90	1.07	5.97	1.13	147
June	8.78	7.24	7.12	29.2	26.8	25.5	2.53	14.3	13.8	4.67	0.412	6.39	0.837	78.9
July	7.20	6.43	4.17	13.6	26.3	12.8	1.50	9.51	9.23	2.52	0.197	6.71	1.10	116
Aug	12.5	11.6	7.03	12.7	68.1	15.0	3.06	24.4	24.0	3.79	0.117	6.93	0.776	255
Sept	5.40	5.11	6.19	3.96	39.7	4.76	0.950	5.94	5.83	1.32	0.0499	7.30	0.774	176
Oct	10.7	10.1	29.0	4.70	70.2	10.3	3.08	16.2	16.0	3.68	0.220	6.66	1.34	219
Nov	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Annual	9.61	8.85	13.0	11.3	48.6	12.6	2.33	14.6	14.3	3.12	0.310	6.51	1.00	991
Max.	48.5	46.8	110	73.6	258	89.2	11.8	120	119	18.5	1.29	8.16	5.43	
Min.	1.77	1.48	0.806	0.564	8.87	0.870	<0.3	1.50	1.39	0.411	0.0069	5.89	0.270	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May	1.51	1.39	2.60	2.30	3.31	2.08	0.311	1.44	1.39	0.425	0.156
June	0.693	0.572	0.562	2.30	2.12	2.01	0.199	1.13	1.09	0.369	0.0325
July	0.837	0.747	0.485	1.58	3.06	1.48	0.174	1.10	1.07	0.292	0.0229
Aug	3.18	2.95	1.79	3.24	17.3	3.82	0.778	6.20	6.12	0.965	0.0297
Sept	0.950	0.900	1.09	0.696	6.98	0.837	0.167	1.04	1.03	0.233	<0.01
Oct	2.35	2.21	6.36	1.03	15.4	2.26	0.675	3.54	3.49	0.805	0.0482
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	9.52	8.77	12.9	11.2	48.2	12.5	2.30	14.5	14.2	3.09	0.307

Data completeness

	SO_4^{2-}	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	nss-Ca^{2+}	Mg^{2+}	H^+	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Mar	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Apr	--	--	--	--	--	--	--	--	--	--	--	--	--	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	91.8	91.8	91.8	100
Aug	100	100	100	100	100	100	100	100	100	100	84.8	84.8	84.8	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**	**95.1**	**95.1**	**95.1**	**100**

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

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

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

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

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

Table 3.51 Monthly results **Site: Pathumthani** **Country: Thailand**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Mar	38.5	37.7	18.2	112	97.5	13.7	10.6	37.9	37.6	4.34	10.2	4.99	3.07	3.20
Apr	19.7	19.2	34.0	28.4	60.9	7.01	4.92	17.3	17.1	1.67	27.9	4.55	2.62	26.5
May	9.86	9.24	28.9	13.3	41.6	10.2	2.32	48.8	48.6	3.72	1.61	5.79	1.64	60.8
June	6.26	5.83	10.8	9.53	29.8	7.15	1.30	23.0	22.8	2.44	1.57	5.80	0.835	216
July	9.17	8.61	18.6	11.0	43.3	9.32	1.44	25.7	25.5	2.04	2.68	5.57	1.15	86.8
Aug	8.84	8.35	13.6	11.0	32.5	8.17	1.56	28.7	28.5	2.32	0.712	6.15	0.921	56.9
Sept	7.36	7.13	15.6	5.07	37.1	3.90	0.873	18.2	18.1	1.39	3.36	5.47	0.916	332
Oct	5.82	5.71	10.9	3.93	24.2	1.83	3.44	16.0	16.0	1.63	2.61	5.58	0.712	226
Nov	15.8	15.5	14.8	5.36	50.4	5.58	1.79	26.4	26.3	1.84	1.59	5.80	1.23	39.1
Dec	35.7	35.6	<0.5	<0.5	95.1	2.45	3.83	64.3	64.3	0.336	1.56	5.81	2.62	12.4
Annual	8.23	7.91	14.8	7.88	35.3	5.31	1.87	22.5	22.4	1.91	3.09	5.51	0.998	1059
Max.	94.7	94.3	150	247	205	119	34.0	164	163	18.1	30.9	6.75	5.63	
Min.	1.79	1.65	<0.5	<0.5	8.88	0.514	0.358	4.35	4.30	0.303	0.178	4.51	0.288	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
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	0.123	0.121	0.0582	0.358	0.312	0.0439	0.0338	0.121	0.120	0.0139	0.0327
Apr	0.521	0.510	0.901	0.752	1.61	0.186	0.130	0.457	0.453	0.0444	0.741
May	0.599	0.562	1.76	0.810	2.53	0.620	0.141	2.97	2.95	0.226	0.0977
June	1.35	1.26	2.33	2.06	6.44	1.54	0.281	4.96	4.93	0.527	0.339
July	0.796	0.747	1.62	0.957	3.76	0.809	0.125	2.23	2.21	0.177	0.232
Aug	0.503	0.475	0.772	0.626	1.85	0.465	0.0891	1.63	1.62	0.132	0.0405
Sept	2.44	2.36	5.16	1.68	12.3	1.29	0.289	6.03	6.00	0.462	1.12
Oct	1.31	1.29	2.45	0.887	5.47	0.412	0.777	3.62	3.61	0.367	0.589
Nov	0.617	0.604	0.579	0.210	1.97	0.218	0.0701	1.03	1.03	0.0718	0.0621
Dec	0.441	0.439	<0.01	<0.01	1.17	0.0302	0.0473	0.794	0.794	<0.01	0.0193
Annual	8.71	8.37	15.6	8.34	37.4	5.62	1.98	23.8	23.7	2.03	3.27

Data completeness

	SO_4^{2-}	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	nss-Ca^{2+}	Mg^{2+}	H^+	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	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/m^2 because precipitation was 0 mm.

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

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

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

Table 3.52 Monthly results **Site: Khanchanaburi** **Country: Thailand**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Mar	10.7	10.5	14.8	5.71	40.9	3.68	3.74	4.62	4.54	1.36	0.407	6.39	0.896	77.5
Apr	16.2	15.9	17.3	9.08	51.8	5.16	5.19	12.1	12.0	3.66	0.462	6.34	1.28	22.6
May	7.16	6.88	10.7	6.19	27.3	4.74	2.42	3.78	3.68	1.27	0.701	6.15	0.393	67.9
June	4.10	3.33	3.93	12.8	10.8	12.9	1.04	7.88	7.60	2.42	5.24	5.28	0.708	141
July	2.79	2.08	2.60	13.7	6.53	11.8	0.675	4.63	4.38	1.66	1.14	5.94	0.458	199
Aug	1.12	0.868	1.48	4.06	4.26	4.15	0.436	3.07	2.98	0.929	0.102	6.99	0.310	189
Sept	1.62	1.49	3.70	1.36	9.08	2.16	0.618	2.66	2.61	0.761	1.65	5.78	0.459	53.3
Oct	1.83	1.72	3.32	1.28	14.2	1.87	0.938	1.43	1.39	0.538	1.86	5.73	0.429	193
Nov	1.25	1.04	3.71	1.41	19.4	3.48	1.28	1.75	1.67	0.823	1.45	5.84	0.370	35.2
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Annual	3.59	3.20	4.68	6.90	14.0	6.41	1.22	4.07	3.93	1.32	1.61	5.79	0.506	979
Max.	26.7	26.2	22.9	77.9	74.3	66.1	8.44	62.9	61.4	14.8	47.9	7.31	3.15	
Min.	0.312	<0.3	0.645	<0.5	<0.8	0.435	<0.3	0.499	0.480	0.411	0.0490	4.32	0.200	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
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	0.829	0.812	1.15	0.443	3.17	0.285	0.290	0.358	0.352	0.105	0.0315
Apr	0.366	0.359	0.391	0.205	1.17	0.117	0.117	0.274	0.271	0.0828	0.0104
May	0.486	0.467	0.723	0.420	1.86	0.322	0.164	0.257	0.250	0.0862	0.0476
June	0.580	0.470	0.554	1.81	1.52	1.82	0.146	1.11	1.07	0.342	0.740
July	0.556	0.415	0.518	2.74	1.30	2.35	0.135	0.924	0.873	0.331	0.228
Aug	0.211	0.164	0.279	0.766	0.803	0.784	0.0822	0.579	0.562	0.175	0.0192
Sept	0.0861	0.0792	0.197	0.0727	0.484	0.115	0.0329	0.142	0.139	0.0406	0.0879
Oct	0.354	0.332	0.643	0.247	2.75	0.362	0.181	0.277	0.269	0.104	0.360
Nov	0.0440	0.0366	0.131	0.0496	0.683	0.122	0.0450	0.0615	0.0588	0.0290	0.0509
Dec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	3.51	3.13	4.58	6.75	13.7	6.28	1.19	3.98	3.85	1.30	1.58

Data completeness

	SO_4^{2-}	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	nss-Ca^{2+}	Mg^{2+}	H^+	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	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/m^2 because precipitation was 0 mm.

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

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

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

Table 3.53 Monthly results **Site: Chiang Mai** **Country: Thailand**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Mar	59.9	59.1	95.9	32.1	188	13.2	20.2	48.9	48.6	10.2	0.513	6.29	4.86	1.40
Apr	53.7	52.9	72.5	28.0	138	12.3	17.0	37.3	37.1	9.11	0.453	6.34	3.69	37.8
May	8.06	7.95	11.4	3.84	25.4	1.90	1.27	7.44	7.40	1.61	0.864	6.06	0.885	180
June	4.22	4.05	5.09	2.20	14.6	2.80	<0.3	6.11	6.05	0.990	0.389	6.41	0.409	99.5
July	1.95	1.73	3.09	3.55	11.6	3.61	<0.3	6.15	6.07	1.57	0.359	6.44	0.326	148
Aug	2.55	2.26	4.92	5.04	14.7	4.71	<0.3	13.0	12.9	0.515	0.212	6.67	0.467	61.0
Sept	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Oct	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Nov	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Annual	8.39	8.17	11.7	5.39	26.8	3.65	1.77	9.72	9.64	1.91	0.527	6.28	0.803	527
Max.	314	312	532	124	522	50.8	145	179	178	76.7	4.37	6.90	21.9	
Min.	0.365	<0.3	0.565	1.01	5.65	<0.3	<0.3	1.70	1.54	<0.3	0.126	5.36	0.190	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
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	0.0839	0.0828	0.134	0.0449	0.263	0.0185	0.0283	0.0685	0.0681	0.0143	<0.01
Apr	2.03	2.00	2.74	1.06	5.23	0.466	0.643	1.41	1.40	0.344	0.0171
May	1.45	1.43	2.05	0.691	4.58	0.342	0.228	1.34	1.33	0.291	0.156
June	0.419	0.402	0.506	0.219	1.45	0.279	0.0170	0.607	0.601	0.0985	0.0387
July	0.287	0.255	0.456	0.525	1.72	0.533	0.0107	0.909	0.897	0.231	0.0531
Aug	0.155	0.138	0.300	0.308	0.896	0.288	<0.01	0.794	0.788	0.0314	0.0129
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	0.00	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	4.42	4.31	6.19	2.84	14.1	1.93	0.935	5.13	5.09	1.01	0.278

Data completeness

	SO_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	99.9	99.9	99.9	100
June	100	100	100	100	100	100	100	100	100	100	99.4	99.4	99.4	100
July	100	100	100	100	100	100	100	100	100	100	99.7	99.7	99.7	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Oct	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Nov	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Annual	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**99.8**	**99.8**	**99.8**	**100**

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

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

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

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

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

Table 3.54 Monthly results **Site: Nakhon Ratchasima** **Country: Thailand**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Mar	15.5	15.1	42.5	11.4	71.1	7.08	6.50	8.98	8.88	2.25	20.5	4.69	2.15	51.8
Apr	18.9	18.3	45.1	13.5	79.4	9.73	5.25	12.9	12.7	2.23	32.0	4.49	2.72	79.2
May	9.09	8.78	24.0	9.24	38.1	5.15	1.74	1.79	1.71	<0.3	25.1	4.60	1.68	62.7
June	7.66	6.94	14.4	13.8	24.6	12.0	1.24	9.53	9.33	1.23	6.74	5.17	0.935	118
July	8.73	8.08	16.1	9.78	29.2	10.7	1.29	11.9	11.7	1.51	3.87	5.41	0.814	70.1
Aug	5.08	4.87	7.99	4.56	16.4	3.46	0.522	3.86	3.79	<0.3	3.36	5.47	0.476	45.5
Sept	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Oct	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Nov	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Annual	10.8	10.3	24.5	11.1	42.3	8.85	2.63	8.73	8.57	1.31	15.0	4.82	1.46	427
Max.	52.1	50.7	116	137	279	113	19.7	98.1	96.8	17.3	83.2	6.73	5.61	
Min.	2.50	2.03	4.35	3.67	6.65	<0.3	<0.3	<0.2	<0.2	<0.3	0.186	4.08	0.300	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
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	0.804	0.782	2.20	0.591	3.68	0.367	0.337	0.465	0.460	0.117	1.06
Apr	1.50	1.45	3.58	1.07	6.29	0.771	0.416	1.02	1.00	0.176	2.53
May	0.570	0.551	1.50	0.579	2.39	0.323	0.109	0.112	0.107	<0.01	1.57
June	0.900	0.815	1.70	1.62	2.89	1.41	0.146	1.12	1.10	0.145	0.792
July	0.612	0.567	1.13	0.686	2.05	0.749	0.0901	0.835	0.818	0.106	0.271
Aug	0.231	0.222	0.363	0.207	0.746	0.157	0.0237	0.176	0.172	<0.01	0.153
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	0.00	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	4.61	4.39	10.5	4.76	18.0	3.78	1.12	3.73	3.66	0.557	6.42

Data completeness

	SO_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	99.7	99.7	99.7	100
June	100	100	100	100	100	100	100	100	100	100	99.3	99.3	99.3	100
July	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	96.0	96.0	96.0	100
Aug	100	100	100	100	100	100	100	100	100	100	99.1	99.1	99.1	100
Sept	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Oct	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Nov	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Annual	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**99.0**	**99.0**	**99.0**	**100**

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

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

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

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

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

Table 3.55 Monthly results **Site: Hanoi** **Country: Vietnam**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	128	122	126	88.3	209	92.5	8.51	97.6	95.6	17.4	0.192	6.72	7.15	4.10
Feb	261	260	230	97.2	638	27.1	10.4	107	107	17.8	0.261	6.58	13.3	14.0
Mar	95.0	93.4	68.6	16.3	224	27.0	4.51	14.2	13.6	4.51	1.20	5.92	4.29	61.7
Apr	74.3	73.7	64.0	23.0	132	9.55	7.87	46.7	46.5	7.13	1.49	5.83	3.80	132
May	68.7	68.4	55.7	12.9	97.9	5.31	7.03	48.9	48.8	7.45	1.98	5.70	3.27	147
June	42.9	42.7	31.6	6.50	60.7	3.62	3.74	29.4	29.3	3.19	3.17	5.50	1.98	212
July	28.0	27.8	19.7	5.10	50.5	2.51	2.56	16.7	16.6	1.83	1.46	5.83	1.37	403
Aug	17.5	17.2	15.3	7.07	24.8	4.07	2.33	14.1	14.1	2.13	3.24	5.49	1.01	274
Sept	18.7	18.1	9.82	7.23	28.6	10.2	2.97	19.3	19.1	2.50	0.270	6.57	1.13	252
Oct	23.4	22.6	20.7	13.8	44.0	13.1	2.48	15.2	14.9	2.75	0.922	6.04	1.36	117
Nov	51.9	51.2	51.1	15.8	104	12.1	4.20	25.0	24.7	4.36	3.71	5.43	2.74	38.9
Dec	109	108	84.8	23.9	154	13.9	6.33	87.6	87.3	10.9	0.532	6.27	5.30	7.20
Annual	39.3	38.9	30.6	10.4	68.0	7.24	3.75	24.8	24.6	3.51	1.83	5.74	1.99	1661
Max.	596	593	548	177	1471	180	18.9	210	209	33.6	7.59	7.02	28.5	
Min.	5.96	5.86	4.51	2.95	10.3	1.06	0.598	2.93	2.90	0.884	0.0962	5.12	0.564	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	0.525	0.502	0.516	0.362	0.858	0.379	0.0349	0.400	0.392	0.0714	<0.01
Feb	3.66	3.63	3.22	1.36	8.94	0.380	0.145	1.50	1.50	0.250	<0.01
Mar	5.86	5.76	4.23	1.01	13.8	1.67	0.278	0.877	0.841	0.278	0.0741
Apr	9.83	9.75	8.46	3.04	17.5	1.26	1.04	6.18	6.15	0.943	0.197
May	10.1	10.0	8.17	1.89	14.4	0.778	1.03	7.17	7.15	1.09	0.290
June	9.07	9.02	6.69	1.38	12.8	0.766	0.791	6.21	6.20	0.675	0.670
July	11.3	11.2	7.92	2.05	20.3	1.01	1.03	6.70	6.68	0.736	0.589
Aug	4.78	4.71	4.18	1.93	6.78	1.12	0.638	3.87	3.85	0.584	0.888
Sept	4.70	4.54	2.47	1.82	7.18	2.57	0.748	4.87	4.81	0.629	0.0679
Oct	2.73	2.63	2.41	1.61	5.12	1.52	0.289	1.77	1.74	0.320	0.107
Nov	2.02	1.99	1.99	0.615	4.04	0.470	0.164	0.971	0.961	0.170	0.144
Dec	0.782	0.776	0.610	0.172	1.11	0.100	0.0456	0.631	0.628	0.0788	<0.01
Annual	65.3	64.6	50.9	17.2	113	12.0	6.23	41.2	40.9	5.83	3.04

Data completeness

	SO_4^{2-}	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	nss-Ca^{2+}	Mg^{2+}	H^+	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**

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

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

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

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

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

Table 3.56 Monthly results **Site: Hoa Binh** **Country: Vietnam**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	*	*	*	*	*	*	*	*	*	*	*	*	*	3.60
Feb	*	*	*	*	*	*	*	*	*	*	*	*	*	3.20
Mar	53.6	52.9	71.5	13.1	148	10.6	3.61	18.7	18.5	5.23	1.96	5.71	3.12	26.6
Apr	45.4	45.0	55.0	9.29	90.7	7.63	5.63	26.9	26.7	5.81	1.13	5.95	2.41	126
May	36.4	36.2	34.0	6.04	62.8	3.46	3.65	20.3	20.2	4.20	3.34	5.48	1.84	260
June	17.0	16.9	16.8	1.55	33.3	1.87	0.733	6.30	6.26	1.63	5.67	5.25	1.00	319
July	20.2	20.1	13.1	2.34	31.0	0.924	1.66	8.50	8.48	1.96	4.60	5.34	0.996	135
Aug	14.6	14.4	11.0	2.96	15.8	2.96	3.70	9.23	9.17	1.78	4.32	5.36	0.825	150
Sept	11.5	11.4	13.4	2.68	21.2	1.85	1.81	7.98	7.94	0.443	1.75	5.76	0.659	177
Oct	18.8	18.6	17.8	3.78	35.7	2.87	2.53	9.00	8.93	2.24	1.60	5.80	0.980	77.7
Nov	68.7	68.0	78.6	14.6	93.1	10.8	12.5	59.4	59.1	10.0	0.626	6.20	3.51	14.5
Dec	121	121	130	17.1	235	8.05	11.5	59.5	59.3	10.9	8.10	5.09	6.25	10.6
Annual	25.2	25.1	25.2	4.24	45.6	3.16	2.77	13.4	13.3	2.72	3.60	5.44	1.35	1303
Max.	251	250	224	33.8	476	26.9	20.1	108	108	19.6	9.57	6.40	12.1	
Min.	3.06	3.00	4.38	0.973	10.1	0.800	0.598	2.05	2.03	<0.3	0.403	5.02	0.303	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	*	*	*	*	*	*	*	*	*	*	*
Feb	*	*	*	*	*	*	*	*	*	*	*
Mar	1.42	1.41	1.90	0.349	3.93	0.281	0.0960	0.498	0.492	0.139	0.0522
Apr	5.74	5.68	6.95	1.17	11.5	0.964	0.711	3.40	3.38	0.734	0.143
May	9.48	9.43	8.83	1.57	16.4	0.900	0.949	5.29	5.27	1.09	0.869
June	5.42	5.39	5.36	0.495	10.6	0.597	0.233	2.01	1.99	0.519	1.81
July	2.72	2.71	1.76	0.316	4.18	0.125	0.224	1.14	1.14	0.264	0.620
Aug	2.18	2.16	1.64	0.443	2.37	0.444	0.554	1.38	1.37	0.267	0.647
Sept	2.04	2.02	2.37	0.475	3.75	0.329	0.321	1.41	1.41	0.0786	0.310
Oct	1.46	1.44	1.39	0.294	2.77	0.223	0.197	0.699	0.694	0.174	0.124
Nov	0.996	0.986	1.14	0.212	1.35	0.156	0.182	0.861	0.858	0.145	<0.01
Dec	1.29	1.28	1.37	0.181	2.50	0.0853	0.122	0.630	0.628	0.115	0.0859
Annual	32.9	32.7	32.8	5.53	59.5	4.12	3.61	17.4	17.3	3.54	4.69

Data completeness

	SO_4^{2-}	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	nss-Ca^{2+}	Mg^{2+}	H^+	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Feb	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Mar	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	100
Apr	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	**99.4**	**99.4**	**99.4**	**99.4**	**99.4**	**99.4**	**99.4**	**99.4**	**99.4**	**99.4**	**99.4**	**99.4**	**99.4**	**100**

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

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

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

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

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

Table 3.57 Monthly results **Site: Cuc Phuong** **Country: Vietnam**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	*	*	*	*	*	*	*	*	*	*	*	*	*	2.20
Feb	63.7	59.5	49.9	101	64.4	68.8	45.9	77.8	76.3	17.1	0.634	6.20	4.59	32.9
Mar	80.9	80.0	25.6	29.7	37.8	14.0	16.4	90.9	90.6	14.2	1.21	5.92	3.67	72.9
Apr	19.1	18.2	22.1	16.7	55.6	14.5	5.71	32.4	32.0	5.46	1.03	5.99	1.88	92.4
May	9.55	8.68	9.62	11.5	10.7	14.5	4.12	22.6	22.3	7.30	2.18	5.66	1.13	239
June	16.5	16.0	10.7	7.32	22.7	7.89	2.91	13.5	13.3	3.55	6.56	5.18	1.26	286
July	15.5	15.1	7.47	9.10	25.9	6.01	2.49	20.2	20.1	3.63	1.20	5.92	1.05	426
Aug	5.00	4.48	3.36	5.47	6.42	8.62	1.88	9.10	8.91	2.65	1.38	5.86	0.511	279
Sept	9.87	9.55	5.02	3.96	12.5	5.29	2.51	16.0	15.8	2.99	2.52	5.60	0.827	109
Oct	50.1	48.8	10.4	19.8	17.3	22.1	15.8	32.9	32.4	4.83	8.95	5.05	2.23	98.0
Nov	20.6	20.0	16.1	23.9	5.88	10.1	2.28	28.5	28.3	8.63	13.5	4.87	1.77	32.2
Dec	31.1	29.8	32.3	21.6	15.7	21.0	2.92	56.1	55.7	7.89	0.891	6.05	2.00	31.7
Annual	18.5	17.9	10.2	11.7	20.5	10.7	4.72	23.1	22.8	4.88	3.00	5.52	1.28	1702
Max.	133	124	112	118	162	155	49.1	123	121	20.4	25.1	6.92	6.27	
Min.	2.24	1.29	1.24	1.75	0.831	<0.3	1.51	4.77	4.67	1.77	0.120	4.60	0.420	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	*	*	*	*	*	*	*	*	*	*	*
Feb	2.10	1.96	1.64	3.33	2.12	2.26	1.51	2.56	2.51	0.561	0.0208
Mar	5.90	5.83	1.87	2.17	2.76	1.02	1.19	6.63	6.60	1.04	0.0883
Apr	1.76	1.68	2.05	1.54	5.14	1.34	0.527	2.99	2.96	0.505	0.0952
May	2.29	2.08	2.30	2.74	2.55	3.48	0.986	5.40	5.33	1.75	0.520
June	4.71	4.57	3.05	2.09	6.49	2.26	0.833	3.86	3.82	1.02	1.88
July	6.60	6.45	3.19	3.88	11.0	2.56	1.06	8.62	8.56	1.55	0.511
Aug	1.39	1.25	0.937	1.52	1.79	2.40	0.524	2.54	2.48	0.739	0.384
Sept	1.08	1.04	0.547	0.432	1.37	0.577	0.273	1.74	1.73	0.326	0.274
Oct	4.91	4.78	1.02	1.94	1.70	2.17	1.55	3.23	3.18	0.473	0.877
Nov	0.663	0.643	0.518	0.771	0.189	0.325	0.0733	0.918	0.911	0.278	0.434
Dec	0.985	0.945	1.02	0.685	0.497	0.665	0.0924	1.78	1.76	0.250	0.0283
Annual	31.5	30.4	17.4	19.8	34.9	18.2	8.04	39.2	38.8	8.30	5.10

Data completeness

	SO_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	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	100
Mar	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	100
Apr	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	100
May	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	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	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	100
Oct	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	100
Nov	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	100
Dec	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	100
Annual	**97.4**	**97.4**	**97.4**	**97.4**	**97.4**	**97.4**	**97.4**	**97.4**	**97.4**	**97.4**	**97.4**	**97.4**	**97.4**	**100**

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

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

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

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

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

Table 3.58 Monthly results **Site: Da Nang** **Country: Vietnam**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	87.3	70.0	12.5	466	93.1	287	162	43.9	37.7	38.7	21.5	4.67	10.6	84.0
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Mar	*	*	*	*	*	*	*	*	*	*	*	*	*	3.80
Apr	18.7	13.8	<0.5	96.0	10.8	81.8	5.55	36.4	34.6	16.9	1.49	5.83	1.27	62.0
May	*	*	*	*	*	*	*	*	*	*	*	*	*	5.60
June	9.99	6.52	<0.5	57.0	<0.8	57.6	3.68	18.3	17.0	8.22	0.871	6.06	0.760	82.4
July	10.6	7.20	<0.5	61.3	3.42	56.3	4.74	19.5	18.3	7.52	1.87	5.73	0.947	345
Aug	15.0	9.34	6.59	123	20.7	93.7	11.7	66.8	64.8	14.2	2.12	5.67	3.62	36.3
Sept	7.51	5.74	<0.5	44.6	1.39	29.3	23.0	29.6	29.0	5.25	1.83	5.74	1.46	85.7
Oct	8.58	6.20	3.10	48.2	8.12	39.6	6.74	28.9	28.1	6.23	1.92	5.72	1.26	838
Nov	13.4	9.01	5.47	73.6	6.91	73.3	14.8	30.9	29.3	9.41	1.56	5.81	2.14	307
Dec	25.5	14.6	16.2	172	34.3	180	5.47	20.3	16.4	19.4	4.70	5.33	2.10	370
Annual	15.8	10.8	5.29	92.9	14.5	82.1	13.8	27.3	25.5	10.8	3.01	5.52	1.85	2219
Max.	144	123	72.7	520	542	458	167	257	255	54.8	25.7	6.25	16.2	
Min.	2.60	1.80	<0.5	16.2	<0.8	13.3	0.384	10.8	9.18	2.22	0.562	4.59	0.567	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	7.33	5.88	1.05	39.2	7.82	24.1	13.6	3.69	3.17	3.25	1.80
Feb	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mar	*	*	*	*	*	*	*	*	*	*	*
Apr	1.16	0.855	<0.01	5.95	0.667	5.07	0.344	2.25	2.14	1.05	0.0924
May	*	*	*	*	*	*	*	*	*	*	*
June	0.823	0.537	<0.01	4.70	<0.01	4.75	0.303	1.50	1.40	0.678	0.0718
July	3.66	2.48	0.0832	21.1	1.18	19.4	1.64	6.75	6.33	2.59	0.647
Aug	0.544	0.339	0.239	4.47	0.751	3.40	0.424	2.42	2.35	0.517	0.0768
Sept	0.644	0.492	0.0322	3.82	0.119	2.51	1.97	2.54	2.48	0.450	0.157
Oct	7.19	5.19	2.60	40.4	6.80	33.1	5.65	24.2	23.5	5.22	1.61
Nov	4.12	2.76	1.68	22.6	2.12	22.5	4.54	9.49	9.00	2.89	0.478
Dec	9.42	5.41	6.00	63.4	12.7	66.5	2.02	7.50	6.06	7.15	1.74
Annual	35.0	24.0	11.7	206	32.2	182	30.5	60.6	56.7	23.9	6.69

Data completeness

	SO_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	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	100
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Mar	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	0	0	0	0	0	0	0	0	0	0	0	0	0	100
June	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	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	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	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	**99.5**	**99.5**	**99.5**	**99.5**	**99.5**	**99.5**	**99.5**	**99.5**	**99.5**	**99.5**	**99.5**	**99.5**	**99.5**	**100**

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

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

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

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

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

Table 3.59 Monthly results **Site: Can Tho** **Country: Vietnam**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Mar	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Apr	16.2	15.1	5.68	46.4	16.4	19.6	10.5	20.0	19.6	6.05	1.00	6.00	1.69	62.8
May	6.64	5.69	6.67	29.9	19.9	15.8	3.95	8.76	8.42	4.22	0.752	6.12	1.05	198
June	8.22	7.27	9.49	30.9	16.4	15.7	9.32	13.8	13.5	4.74	0.548	6.26	1.11	201
July	8.89	7.99	10.3	28.5	17.8	14.9	6.30	15.4	15.1	5.68	0.467	6.33	1.22	423
Aug	9.83	8.85	9.98	31.4	17.1	16.3	12.1	14.1	13.8	2.68	0.752	6.12	1.16	172
Sept	8.75	7.73	6.44	27.2	15.3	16.9	12.0	10.4	10.0	5.46	0.361	6.44	0.993	57.0
Oct	8.30	7.42	7.10	22.1	19.0	14.6	6.32	11.2	10.9	3.82	0.491	6.31	0.979	625
Nov	9.30	8.31	9.39	25.9	21.8	16.4	10.4	12.3	12.0	4.43	0.342	6.47	1.08	94.6
Dec	9.75	8.86	11.7	14.4	16.3	14.7	5.09	8.64	8.32	5.80	0.376	6.43	0.929	5.60
Annual	8.73	7.80	8.38	27.4	18.3	15.4	7.45	12.8	12.4	4.45	0.550	6.26	1.10	1840
Max.	22.0	20.6	17.0	48.0	35.0	24.0	17.2	21.0	20.5	10.1	1.58	6.70	1.90	
Min.	5.50	4.73	2.30	8.50	7.90	10.2	2.00	0.912	0.588	1.20	0.200	5.80	0.650	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
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	1.02	0.946	0.357	2.92	1.03	1.23	0.658	1.26	1.23	0.380	0.0628
May	1.32	1.13	1.32	5.93	3.95	3.14	0.784	1.74	1.67	0.837	0.149
June	1.65	1.46	1.91	6.23	3.30	3.17	1.88	2.79	2.72	0.954	0.110
July	3.76	3.38	4.36	12.1	7.54	6.33	2.67	6.51	6.38	2.40	0.198
Aug	1.69	1.52	1.72	5.41	2.94	2.81	2.08	2.43	2.37	0.462	0.130
Sept	0.499	0.441	0.367	1.55	0.874	0.964	0.685	0.592	0.572	0.311	0.0206
Oct	5.19	4.64	4.44	13.8	11.9	9.15	3.95	6.98	6.79	2.39	0.307
Nov	0.880	0.787	0.889	2.45	2.06	1.55	0.988	1.17	1.13	0.419	0.0323
Dec	0.0546	0.0496	0.0657	0.0808	0.0910	0.0823	0.0285	0.0484	0.0466	0.0325	<0.01
Annual	16.1	14.4	15.4	50.4	33.7	28.4	13.7	23.5	22.9	8.19	1.01

Data completeness

	SO_4^{2-}	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	nss-Ca^{2+}	Mg^{2+}	H^+	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Mar	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	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/m^2 because precipitation was 0 mm.

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

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

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

Table 3.60 Monthly results **Site: Ho Chi Minh** **Country: Vietnam**

Precipitation amount-weighted average concentration/ Precipitation amount

	SO_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^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}	μmol L^{-1}		mS m^{-1}	mm $month^{-1}$ or mm $year^{-1}$
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Feb	40.0	33.9	32.0	90.0	45.0	101	20.8	24.0	21.8	12.0	0.158	6.80	3.70	23.0
Mar	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Apr	32.9	30.4	11.9	70.9	23.9	41.4	15.9	34.3	33.4	10.8	1.25	5.90	2.86	103
May	36.9	34.9	23.0	56.7	23.1	32.6	9.83	41.7	40.9	12.3	0.884	6.05	2.52	216
June	23.2	21.7	17.7	38.7	27.1	25.1	7.36	26.5	26.0	5.06	1.73	5.76	1.86	185
July	21.0	20.0	17.1	35.9	20.7	17.7	9.81	24.3	23.9	6.80	1.59	5.80	1.69	197
Aug	24.7	23.6	15.8	37.8	25.9	17.8	15.4	20.8	20.4	10.7	1.66	5.78	1.95	325
Sept	21.5	19.8	19.9	47.1	23.5	28.6	11.7	28.2	27.6	5.74	1.12	5.95	2.01	250
Oct	19.8	18.5	14.9	41.9	22.9	20.6	7.65	19.5	19.1	9.04	1.43	5.84	1.74	379
Nov	17.3	16.2	19.4	40.2	22.4	18.4	9.34	21.7	21.3	7.96	2.01	5.70	1.70	156
Dec	25.0	23.2	23.1	46.6	31.4	31.1	5.39	29.4	28.7	9.90	1.06	5.98	2.20	80.2
Annual	24.2	22.7	17.9	44.8	24.3	25.0	10.6	26.0	25.4	8.73	1.42	5.85	2.00	1916
Max.	104	96.9	52.1	178	45.0	110	35.6	129	127	35.1	3.16	6.80	7.60	
Min.	11.9	11.2	6.20	11.8	12.0	10.8	3.30	12.0	11.7	2.00	0.158	5.50	0.730	

Wet deposition amount

	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}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb	0.920	0.780	0.736	2.07	1.04	2.32	0.478	0.552	0.502	0.276	<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	3.40	3.14	1.23	7.33	2.47	4.28	1.64	3.54	3.45	1.12	0.129
May	7.98	7.55	4.98	12.3	4.99	7.05	2.13	9.01	8.86	2.67	0.191
June	4.30	4.02	3.28	7.17	5.03	4.65	1.36	4.92	4.82	0.938	0.321
July	4.15	3.94	3.37	7.09	4.08	3.48	1.93	4.80	4.72	1.34	0.313
Aug	8.02	7.67	5.13	12.3	8.42	5.78	5.02	6.75	6.62	3.49	0.540
Sept	5.38	4.95	4.96	11.8	5.87	7.15	2.92	7.04	6.88	1.43	0.281
Oct	7.50	7.03	5.65	15.9	8.70	7.80	2.90	7.41	7.24	3.43	0.542
Nov	2.70	2.53	3.02	6.28	3.49	2.87	1.46	3.38	3.32	1.24	0.313
Dec	2.01	1.86	1.85	3.74	2.52	2.50	0.432	2.36	2.30	0.794	0.0847
Annual	46.3	43.5	34.2	85.8	46.6	47.9	20.3	49.7	48.7	16.7	2.72

Data completeness

	SO_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
Apr	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	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	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	100
Annual	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**99.9**	**100**

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

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

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

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

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

Table 3.61 Annual precipitation amount and precipitation amount-weighted average concentration in 2014

Country	Name of sites	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^{-1}	µmol L^{-1}	µmol L^{-1}	µmol L^{-1}	µmol L^{-1}	µmol L^{-1}	µmol L^{-1}	µmol L^{-1}	µmol L^{-1}	µmol L^{-1}	µmol L^{-1}		mS m^{-1}
Cambodia	Phnom Penh	1561	6.27	5.81	8.51	9.08	13.9	7.60	2.69	9.47	9.31	1.63	0.621	6.21	0.676
China	Haifu	1417	84.4	84.0	64.1	11.1	116	6.36	9.28	54.6	54.5	7.00	12.1	4.92	3.94
	Jinyunshan	1490	60.4	60.1	45.6	5.70	70.6	4.50	4.42	26.0	25.9	4.37	41.2	4.39	3.65
	Shizhan	623	113	105	98.0	21.1	170	126	251	92.7	90.0	11.8	0.247	6.61	4.37
	Jiwozi	568	69.3	61.8	13.8	23.0	32.8	125	16.4	149	146	21.6	0.104	6.98	4.29
	Hongwen	1129	27.0	25.8	26.4	28.6	25.7	19.8	1.42	25.5	25.1	4.27	8.39	5.08	1.89
	Xiaoping	1364	29.6	29.0	34.0	13.8	38.9	8.77	1.45	42.4	42.2	3.65	19.6	4.71	2.15
	Xiang Zhou	1673	14.3	12.5	20.9	23.8	23.8	30.7	6.89	17.0	16.4	7.21	9.91	5.00	1.94
Indonesia	Jakarta	3168	22.2	20.9	20.0	28.8	17.6	21.4	3.62	15.0	14.5	3.64	19.6	4.71	1.67
	Serpong	2882	23.2	22.1	36.2	25.5	65.5	18.8	5.64	13.0	12.6	3.23	7.23	5.14	1.89
	Kototabang	2496	8.52	8.18	7.48	10.6	12.1	5.67	10.4	3.93	3.81	0.908	15.2	4.82	1.10
	Bandung	2033	38.8	38.0	27.2	14.7	55.4	12.9	5.63	22.8	22.6	7.51	6.14	5.21	2.14
	Maros	2763	7.56	6.24	6.10	36.2	7.19	29.1	19.1	27.9	27.2	13.6	5.88	5.23	1.00
Japan	Rishiri	1033	20.0	10.2	10.2	184	12.5	162	4.10	5.78	2.31	18.1	18.6	4.73	3.56
	Ochiishi	838	13.0	7.15	8.71	112	10.8	97.2	2.55	4.06	1.96	11.1	7.82	5.11	2.14
	Tappi	1194	26.5	17.1	24.1	176	22.7	156	3.97	7.45	4.17	18.1	21.9	4.66	3.62
	Sado-seki	1409	32.0	15.0	19.3	317	18.2	282	7.51	9.49	3.47	32.5	19.7	4.70	5.58
	Happo	2453	8.00	7.68	7.80	6.21	8.08	5.31	0.746	2.31	2.20	1.27	9.77	5.01	0.744
	Ijira	3044	12.0	11.1	14.7	19.7	13.4	15.6	0.611	1.65	1.34	1.97	19.3	4.71	1.47
	Oki	1053	47.8	15.0	20.3	617	14.0	545	13.1	16.4	4.63	60.6	22.2	4.65	9.58
	Banryu	1516	21.6	16.4	21.7	102	17.3	86.9	2.65	4.75	2.87	10.8	27.9	4.55	3.11
	Yusuhara	3529	6.92	6.61	4.87	6.95	4.91	5.19	0.701	1.60	1.49	1.82	13.2	4.88	0.789
	Hedo	2442	14.3	6.03	6.88	157	8.28	137	3.31	4.25	1.29	15.6	9.55	5.02	2.68
	Ogasawara	1532	12.1	4.20	3.11	154	3.88	131	3.12	3.98	1.15	15.2	8.38	5.08	2.62
	Tokyo	1807	13.9	12.8	16.8	23.1	23.1	18.9	0.628	3.81	3.40	2.54	14.8	4.83	1.46
Lao PDR	Vientiane	1273	***	***	***	***	***	***	***	***	***	***	0.288	6.54	0.867
Malaysia	Petaling Jaya	3708	21.4	21.1	35.8	8.89	27.4	5.04	1.47	6.02	5.91	1.10	38.2	4.42	2.50
	Tanah Rata	2895	6.19	6.02	4.82	3.49	3.44	2.82	1.62	2.68	2.63	0.333	13.9	4.86	0.875
	Danum Valley	2848	2.58	2.25	0.738	6.50	0.915	5.42	2.16	1.41	1.32	0.552	4.87	5.31	0.419
	Kuching	3656	7.14	6.58	5.29	11.0	9.38	9.25	3.26	6.12	5.93	1.12	4.60	5.34	1.02
Mongolia	Ulaanbaatar	***	***	***	***	***	***	***	***	***	***	***	***	***	***
	Terelj	***	***	***	***	***	***	***	***	***	***	***	***	***	***
Myanmar	Yangon	2872	4.55	3.51	4.80	19.5	16.6	17.3	4.69	14.1	13.8	3.41	0.199	6.70	0.914
Philippines	Metro Manila	2628	18.0	16.5	16.0	26.1	61.6	24.5	9.79	14.5	14.0	4.64	0.736	6.13	1.92
	Los Baños	2073	9.13	8.20	8.22	18.3	55.9	15.4	8.18	6.99	6.67	3.32	1.61	5.79	1.45
	Mt. Sto. Tomas	3641	4.62	4.24	5.07	4.21	13.5	6.30	1.26	8.06	7.92	1.35	0.724	6.14	0.460
R of Korea	Kanghwa	427	29.3	26.7	36.9	61.6	60.2	43.2	13.4	8.94	8.13	3.27	13.4	4.87	2.41
	Cheju	1195	17.2	10.2	18.2	124	25.5	116	11.3	4.12	1.79	7.85	1.61	5.79	2.42
	Imsil	1101	15.2	13.4	28.0	30.7	33.4	29.8	9.82	3.50	2.90	1.77	5.17	5.29	1.39
Russia	Mondy	123	5.47	5.34	4.65	3.57	3.60	2.25	2.01	7.02	6.97	1.18	4.65	5.33	0.480
	Listvyanka	279	17.4	17.1	13.2	3.65	13.7	4.80	3.11	12.8	12.7	2.37	12.6	4.90	1.20
	Irkutsk	388	23.2	22.7	12.3	9.86	23.9	8.62	2.97	26.5	26.3	3.68	8.65	5.06	1.59
	Primorskaya	643	32.1	31.1	7.66	25.0	42.3	15.8	5.14	18.1	17.7	6.21	3.41	5.47	1.63
Thailand	Bangkok	1011	8.43	7.88	15.3	9.22	52.3	9.17	1.38	14.5	14.3	2.37	0.09	7.03	1.10
	Samutprakarn	991	9.61	8.85	13.0	11.3	48.6	12.6	2.33	14.6	14.3	3.12	0.310	6.51	1.00
	Pathumthani	1059	8.23	7.91	14.8	7.88	35.3	5.31	1.87	22.5	22.4	1.91	3.09	5.51	0.998
	Khanchanaburi	979	3.59	3.20	4.68	6.90	14.0	6.41	1.22	4.07	3.93	1.32	1.61	5.79	0.506
	Chiang Mai	527	8.39	8.17	11.7	5.39	26.8	3.65	1.77	9.72	9.64	1.91	0.527	6.28	0.803
	Nakhon Ratchasima	427	10.8	10.3	24.5	11.1	42.3	8.85	2.63	8.73	8.57	1.31	15.0	4.82	1.46
Vietnam	Hanoi	1661	39.3	38.9	30.6	10.4	68.0	7.24	3.75	24.8	24.6	3.51	1.83	5.74	1.99
	Hoa Binh	1303	25.2	25.1	25.2	4.24	45.6	3.16	2.77	13.4	13.3	2.72	3.60	5.44	1.35
	Cuc Phuong	1702	18.5	17.9	10.2	11.7	20.5	10.7	4.72	23.1	22.8	4.88	3.00	5.52	1.28
	Da Nang	2219	15.8	10.8	5.29	92.9	14.5	82.1	13.8	27.3	25.5	10.8	3.01	5.52	1.85
	Can Tho	1840	8.73	7.80	8.38	27.4	18.3	15.4	7.45	12.8	12.4	4.45	0.550	6.26	1.10
	Ho Chi Minh	1916	24.2	22.7	17.9	44.8	24.3	25.0	10.6	26.0	25.4	8.73	1.42	5.85	2.00

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

[***] *Not measured*

Table 3.62 Annual wet depositions in 2014

Country	Name of sites	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	9.78	9.07	13.3	14.2	21.7	11.9	4.20	14.8	14.5	2.54	0.969
China	Haifu	120	119	90.8	15.7	164	9.01	13.2	77.4	77.2	9.92	17.1
	Jinyunshan	90.0	89.6	68.0	8.50	105	6.70	6.59	38.8	38.6	6.52	61.3
	Shizhan	70.1	65.4	61.0	13.1	106	78.1	156	57.7	56.0	7.34	0.154
	Jiwozi	39.4	35.1	7.84	13.1	18.6	70.9	9.33	84.4	82.9	12.3	0.06
	Hongwen	30.4	29.1	29.8	32.3	29.1	22.3	1.60	28.8	28.4	4.82	9.48
	Xiaoping	40.3	39.6	46.3	18.8	53.0	12.0	1.98	57.8	57.6	4.98	26.7
	Xiang Zhou	23.9	20.9	34.9	39.8	39.9	51.4	11.5	28.5	27.4	12.1	16.6
Indonesia	Jakarta	70.4	66.3	63.4	91.1	55.7	67.8	11.5	47.4	46.0	11.5	62.2
	Serpong	66.9	63.7	104	73.3	189	54.1	16.3	37.4	36.2	9.31	20.8
	Kototabang	21.3	20.4	18.7	26.4	30.2	14.2	25.8	9.82	9.51	2.27	38.0
	Bandung	78.8	77.2	55.3	29.8	113	26.3	11.4	46.4	45.9	15.3	12.5
	Maros	20.9	17.2	16.8	99.9	19.9	80.5	52.7	77.0	75.2	37.7	16.2
Japan	Rishiri	20.7	10.6	10.6	190	12.9	168	4.23	5.97	2.39	18.7	19.2
	Ochiishi	10.9	5.99	7.29	93.8	9.05	81.5	2.14	3.40	1.64	9.28	6.55
	Tappi	31.7	20.4	28.8	210	27.2	187	4.74	8.89	4.98	21.6	26.1
	Sado-seki	45.1	21.2	27.1	447	25.6	397	10.6	13.4	4.88	45.8	27.8
	Happo	19.6	18.8	19.1	15.2	19.8	13.0	1.83	5.67	5.39	3.11	24.0
	Ijira	36.6	33.8	44.7	59.8	40.8	47.5	1.86	5.02	4.07	6.00	58.8
	Oki	50.4	15.8	21.4	649	14.7	574	13.8	17.3	4.88	63.9	23.4
	Banryu	32.7	24.8	32.9	155	26.2	132	4.02	7.20	4.35	16.4	42.3
	Yusuhara	24.4	23.3	17.2	24.5	17.3	18.3	2.47	5.64	5.25	6.43	46.5
	Hedo	34.9	14.7	16.8	383	20.2	335	8.08	10.4	3.14	38.2	23.3
	Ogasawara	18.5	6.44	4.76	236	5.94	201	4.79	6.10	1.76	23.2	12.8
	Tokyo	25.1	23.1	30.4	41.8	41.8	34.2	1.13	6.88	6.14	4.58	26.7
Lao PDR	Vientiane	***	***	***	***	***	***	***	***	***	***	0.366
Malaysia	Petaling Jaya	79.2	78.1	133	33.0	102	18.7	5.46	22.3	21.9	4.07	142
	Tanah Rata	17.9	17.4	13.9	10.1	9.97	8.17	4.69	7.75	7.60	0.964	40.3
	Danum Valley	7.35	6.42	2.10	18.5	2.60	15.4	6.15	4.02	3.76	1.57	13.9
	Kuching	26.1	24.1	19.4	40.4	34.3	33.8	11.9	22.4	21.7	4.10	16.8
Mongolia	Ulaanbaatar	***	***	***	***	***	***	***	***	***	***	***
	Terelj	***	***	***	***	***	***	***	***	***	***	***
Myanmar	Yangon	13.1	10.1	13.8	56.0	47.6	49.6	13.5	40.6	39.6	9.79	0.571
Philippines	Metro Manila	47.3	43.5	42.0	68.6	162	64.4	25.7	38.2	36.8	12.2	1.93
	Los Baños	18.9	17.0	17.0	38.0	116	32.0	17.0	14.5	13.8	6.88	3.34
	Mt. Sto. Tomas	16.8	15.4	18.5	15.3	49.0	23.0	4.57	29.3	28.8	4.92	2.64
R of Korea	Kanghwa	12.5	11.4	15.7	26.3	25.7	18.4	5.73	3.81	3.47	1.39	5.72
	Cheju	20.5	12.1	21.8	148	30.4	139	13.5	4.92	2.13	9.38	1.93
	Imsil	16.7	14.7	30.8	33.8	36.7	32.8	10.8	3.85	3.19	1.95	5.69
Russia	Mondy	0.675	0.658	0.573	0.440	0.444	0.277	0.248	0.866	0.860	0.146	0.573
	Listvyanka	4.85	4.77	3.68	1.02	3.83	1.34	0.868	3.56	3.53	0.662	3.53
	Irkutsk	9.02	8.82	4.77	3.82	9.28	3.35	1.15	10.3	10.2	1.43	3.35
	Primorskaya	20.6	20.0	4.93	16.1	27.2	10.1	3.30	11.6	11.4	3.99	2.19
Thailand	Bangkok	8.52	7.96	15.5	9.32	52.9	9.26	1.40	14.6	14.4	2.40	0.10
	Samutprakarn	9.52	8.77	12.9	11.2	48.2	12.5	2.30	14.5	14.2	3.09	0.307
	Pathumthani	8.71	8.37	15.6	8.34	37.4	5.62	1.98	23.8	23.7	2.03	3.27
	Khanchanaburi	3.51	3.13	4.58	6.75	13.7	6.28	1.19	3.98	3.85	1.30	1.58
	Chiang Mai	4.42	4.31	6.19	2.84	14.1	1.93	0.935	5.13	5.09	1.01	0.278
	Nakhon Ratchasima	4.61	4.39	10.5	4.76	18.0	3.78	1.12	3.73	3.66	0.557	6.42
Vietnam	Hanoi	65.3	64.6	50.9	17.2	113	12.0	6.23	41.2	40.9	5.83	3.04
	Hoa Binh	32.9	32.7	32.8	5.53	59.5	4.12	3.61	17.4	17.3	3.54	4.69
	Cuc Phuong	31.5	30.4	17.4	19.8	34.9	18.2	8.04	39.2	38.8	8.30	5.10
	Da Nang	35.0	24.0	11.7	206	32.2	182	30.5	60.6	56.7	23.9	6.69
	Can Tho	16.1	14.4	15.4	50.4	33.7	28.4	13.7	23.5	22.9	8.19	1.01
	Ho Chi Minh	46.3	43.5	34.2	85.8	46.6	47.9	20.3	49.7	48.7	16.7	2.72

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

[***] *Not measured*

Table 3.63 Data completeness for annual summaries in 2014 (%PCL, %TP)

Country	Name of sites	Precip. %PCL	SO_4^{2-} %TP	nss-SO_4^{2-} %TP	NO_3^- %TP	Cl^- %TP	NH_4^+ %TP	Na^+ %TP	K^+ %TP	Ca^{2+} %TP	nss-Ca^{2+} %TP	Mg^{2+} %TP	H^+ %TP	pH %TP	EC %TP
Cambodia	Phnom Penh	100	100	100	100	100	100	100	100	100	100	100	100	100	100
China	Haifu	100	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
	Jinyunshan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Shizhan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Jiwozi	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Hongwen	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Xiaoping	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Xiang Zhou	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Indonesia	Jakarta	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Serpong	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Kototabang	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Bandung	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Maros	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Japan	Rishiri	100	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
	Ochiishi	99.7	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.0	76.0	76.0
	Tappi	99.5	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	94.8	94.8	94.8
	Sado-seki	100	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	98.1	98.1	98.1
	Happo	100	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.2	89.2	89.2
	Ijira	100	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100	100	100
	Oki	99.5	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.1
	Banryu	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Yusuhara	92.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.2	84.2	84.2
	Hedo	94.8	88.7	88.7	85.8	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.0	88.0	88.0
	Ogasawara	100	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	97.2	97.2	97.2
	Tokyo	99.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.5	97.5	97.5
Lao PDR	Vientiane	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100	100	100
Malaysia	Petaling Jaya	100	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
	Tanah Rata	100	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.3	98.3	98.3
	Danum Valley	100	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.0	80.0	80.0
	Kuching	100	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
Mongolia	Ulaanbaatar	***	***	***	***	***	***	***	***	***	***	***	***	***	***
	Terelj	***	***	***	***	***	***	***	***	***	***	***	***	***	***
Myanmar	Yangon	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Philippines	Metro Manila	100	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.8	91.8	91.8
	Los Baños	100	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
	Mt. Sto. Tomas	100	100	100	100	100	100	100	100	100	100	100	100	100	100
R of Korea	Kanghwa	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Cheju	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Imsil	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Russia	Mondy	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Listvyanka	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Irkutsk	99.7	100	99.9	100	100	99.9	99.9	99.9	99.9	99.9	99.9	100	100	100
	Primorskaya	99.7	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	100	100	89.1
Thailand	Bangkok	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Samutprakarn	100	100	100	100	100	100	100	100	100	100	100	95.1	95.1	95.1
	Pathumthani	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Khanchanaburi	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Chiang Mai	100	100	100	100	100	100	100	100	100	100	100	99.8	99.8	99.8
	Nakhon Ratchasima	100	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.0	99.0	99.0
Vietnam	Hanoi	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Hoa Binh	100	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
	Cuc Phuong	100	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
	Da Nang	100	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
	Can Tho	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Ho Chi Minh	100	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

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

[***] *Not measured*

Table 3.64 Results of ion balance and conductivity agreement check in 2014

Country	Name of sites	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	30	30	7	23.3	30	11	36.7	30	3	10.0
China	Haifu*	156	156	139	89.1	156	151	96.8	156	135	86.5
	Jinyunshan*	141	140	133	95.0	140	138	98.6	140	131	93.6
	Shizhan	52	52	13	25.0	52	17	32.7	52	4	7.7
	Jiwozi	65	65	1	1.5	65	49	75.4	65	0	0
	Hongwen*	51	51	31	60.8	51	42	82.4	51	29	56.9
	Xiaoping*	69	69	39	56.5	69	60	87.0	69	36	52.2
	Xiang Zhou*	70	70	11	15.7	70	33	47.1	70	4	5.7
Indonesia	Jakarta	42	42	24	57.1	42	33	78.6	42	19	45.2
	Serpong	76	76	48	63.2	76	70	92.1	76	47	61.8
	Kototabang	50	50	11	22.0	50	36	72.0	50	9	18.0
	Bandung	95	95	32	33.7	95	91	95.8	95	32	33.7
	Maros	32	32	8	25.0	32	27	84.4	32	8	25.0
Japan	Rishiri	200	143	135	94.4	143	143	100	143	135	94.4
	Ochiishi*	110	59	59	100	59	59	100	59	59	100
	Tappi	176	107	107	100	107	107	100	107	107	100
	Sado-seki	172	130	130	100	130	130	100	130	130	100
	Happo	157	137	136	99.3	137	135	98.5	137	134	97.8
	Ijira	47	45	45	100	45	45	100	45	45	100
	Oki	167	137	137	100	135	134	99.3	135	134	99.3
	Banryu	49	49	49	100	49	49	100	49	49	100
	Yusuhara	128	111	102	91.9	111	110	99.1	111	101	91.0
	Hedo	171	129	127	98.4	129	129	100	129	127	98.4
	Ogasawara*	154	119	119	100	119	118	99.2	119	118	99.2
	Tokyo*	134	114	112	98.2	114	113	99.1	114	111	97.4
Lao PDR	Vientiane	28	***	***	***	***	***	***	***	***	***
Malaysia	Petaling Jaya*	46	45	39	86.7	45	44	97.8	45	39	86.7
	Tanah Rata*	47	39	27	69.2	39	33	84.6	39	23	59.0
	Danum Valley*	42	39	29	74.4	39	36	92.3	39	27	69.2
	Kuching*	47	47	36	76.6	47	38	80.9	47	29	61.7
Mongolia	Ulaanbaatar	***	***	***	***	***	***	***	***	***	***
	Terelj	***	***	***	***	***	***	***	***	***	***
Myanmar	Yangon	28	28	0	0	28	13	46.4	28	0	0
Philippines	Metro Manila	28	27	7	25.9	27	16	59.3	27	7	25.9
	Los Baños	27	27	10	37.0	27	17	63.0	27	8	29.6
	Mt. Sto. Tomas	35	35	3	8.6	35	31	88.6	35	3	8.6
R of Korea	Kanghwa	38	38	38	100	38	38	100	38	38	100
	Cheju	71	71	71	100	71	71	100	71	71	100
	Imsil	86	86	86	100	86	86	100	86	86	100
Russia	Mondy*	12	12	11	91.7	12	12	100	12	11	91.7
	Listvyanka*	50	50	49	98.0	50	50	100	50	49	98.0
	Irkutsk*	85	84	82	97.6	84	83	98.8	84	82	97.6
	Primorskaya*	89	44	44	100	44	44	100	44	44	100
Thailand	Bangkok*	41	41	3	7.3	41	36	87.8	41	2	4.9
	Samutprakarn*	66	61	1	1.6	61	44	72.1	61	1	1.6
	Pathumthani*	79	79	6	7.6	79	73	92.4	79	4	5.1
	Khanchanaburi*	74	75	22	29.3	75	51	68.0	75	13	17.3
	Chiang Mai*	66	61	14	23.0	61	49	80.3	61	11	18.0
	Nakhon Ratchasima*	58	49	32	65.3	49	42	85.7	49	29	59.2
Vietnam	Hanoi*	39	39	35	89.7	39	39	100	39	35	89.7
	Hoa Binh*	35	35	34	97.1	35	35	100	35	34	97.1
	Cuc Phuong*	46	31	31	100	31	31	100	31	31	100
	Da Nang*	34	28	27	96.4	28	12	42.9	28	11	39.3
	Can Tho*	34	34	2	5.9	34	24	70.6	34	1	2.9
	Ho Chi Minh*	39	38	18	47.4	38	35	92.1	38	17	44.7

Sample(N) : *Number of samples*
R_1 (N) : *Number of samples measured and calculated ion balance (R_1)*
R_1 (AA) : *Number of samples within allowable ranges for R_1*
R_2 (N) : *Number of samples measured and caluculated conductivity agreement (R_2)*
R_2 (AA) : *Number of samples within allowable ranges for R_2*
R_1 &R_2 (N) : *Number of samples measured and calculated both R_1 and R_2*
R_1 &R_2 (AA) : *Number of samples within allowable ranges for both R_1 and R_2*
*Sites marked with ** : *R1 and R2, calculated including concentrations of additional measured constituents*
[***] *Not measured*

Table 3.65 Annual precipitation from 2000 to 2014

unit: mm y^{-1}

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cambodia	Phnom Penh					419	1308	949	1374	1834	1326	1851	1277	1617	1345	1561
China	Guanyinqiao	1081	752	1445	987	1387	1077	842	1299							
	Nanshan	1259														
	Haifu									1010	1066	977	810	1010	1026	1417
	Jinyunshan		710	1607	1233	1518	1461	1196	1645	1213	1098	979	848	1005	1127	1490
	Shizhan	559	364	349	1273	601	509	483	527	385	592	459	659	393	441	623
	Weishuiyuan	447	69.3	232	1302	466	439	316								
	Jiwozi	829	209	142	611	1020	362	234	100	438	628	1155	971	390	649	568
	Hongwen	1517	296	1568	1301	1065	1702	2134	1347	945	737	1530	843	924	1403	1129
	Xiaoping	1566	2682	2171	1768	1958	2921	2352	1044	2000	1134	1518	1531	1291	1979	1364
	Xiang Zhou	2031	1990	1731	1726	1340	1179	1529	1442	2815	2010	1857	1259	1518	2421	1673
	Zhuxiandong	1779	2571	1581	1755	1277	1062	887	***	2311	1580	1853	1146			
Indonesia	Jakarta	1577	1237	1572	1617	1469	2125	1481	2171	1717	1557	2120	990	2722	2331	3168
	Serpong	***	1607	2505	2143	1462	824	1603	2015	2370	1344	1426	830	894	2324	2882
	Kototabang	2340	1209	1798	3127	2111	2194	1248	2772	2481	2656	2370	2193	2639	2120	2496
	Bandung	893	2605	2541	1606	894	1749	1311	1969	2334	2683	2606	1530	2084	2346	2033
	Maros									3037	3237	2663	3632	2451	4033	2763
Japan	Rishiri	770	615	957	709	945	961	1294	883	828	1054	1072	1232	1172	1170	1033
	Ochiishi				782	648	822	997	866	730	1580	1085	818	871	1059	838
	Tappi	1049	1082	1329	1150	1473	1240	964	1055	824	1337	1555	1144	1178	1070	1194
	Sado-seki	1068	971	1433	1126	1539	1143	1264	1163	1021	1037	1368	1387	1296	1576	1409
	Happo	2188	2345	2607	2461	3088	2997	2755	2329	1645	2352	2621	3076	2002	2658	2453
	Ijira	2685	2237	2648	2967	3424	2569	2829	2263	2250	2876	3847	3068	2862	2724	3044
	Oki	1209	1246	1571	1597	1409	1313	1396	1160	1110	1123	1452	1534	1296	1395	1053
	Banryu	1565	1788	1303	1752	1738	1290	1960	1273	1268	1735	1471	1432	1208	2024	1516
	Yusuhara	2801	2080	2346	2839	3970	2321	3160	2373	2189	2068	2476	3401	3048	2485	3529
	Hedo	2907	2126	2032	1393	1778	1780	1863	2701	1961	1975	2643	1766	2837	1612	2442
	Ogasawara	1985	1806	1331	1398	1171	2050	1585	1567	1674	1675	1856	1297	1572	1265	1532
	Tokyo								1080	1860	1727	1656	1388	1635	1609	1807
Lao PDR	Vientiane				88.6	442	665	709	1399	1668	181	***	***	1322	***	1273
Malaysia	Petaling Jaya	3417	3085	2660	3041	2996	2848	4009	3021	3747	2968	3517	3607	3412	3570	3708
	Tanah Rata	3127	2626	2783	3010	2415	2886	2785	2968	3925	3077	2451	3293	2846	2771	2895
	Danum Valley						1256	3005	2988	2999	3391	2370	3787	2958	3202	2848
	Kuching									4286	4671	4645	4632	3796	4110	3656
Mongolia	Ulaanbaatar	197	166	179	297	83.4	150	188	126	155	228	153	163	170	154	***
	Terelj	208	88.6	246	312	207	246	215	185	206	111	130	144	117	90.8	***
Myanmar	Yangon								3981	6375	3010	2280	3151	2570	2692	2872
Philippines	Metro Manila	4036	2291	2975	2205	2164	2377	2696	3505	2381	3782	2676	3657	4461	3516	2628
	Los Baños	2635	1817	1702	1608	1743	1643	2222	3097	1894	2900	2068	2384	2102	2394	2073
	Mt. Sto. Tomas							431	3379	5078	4727	3610	4608	5730	4392	3641
Republic of Korea	Kanghwa	1118	1139	824	1573	878	811	1092	883	1546	1266	1570	1476	748	898	427
	Cheju	1058	1114	1017	1291	1124	699	1127	1244	843	1039	1003	1076	1199	636	1195
	Imsil		1299	993	1876	1207	1248	709	1344	854	1069	1642	1493	1400	1220	1101
Russia	Mondy	305	319	204	409	360	286	410	351	206	119	90.2	73.5	105	330	123
	Listvyanka	442	494	360	540	551	452	311	408	391	312	327	478	343	278	279
	Irkutsk	534	468	303	457	553	442	357	478	527	430	375	329	443	277	388
	Primorskaya			835	323	692	737	623	989	553	864	673	621	922	723	643
Thailand	Bangkok	1148	1174	1300	1385	1211	2006	1589	1579	1776	2072	2023	2171	1799	1330	1011
	Samutprakarn	978				1260	1625	1420	1871	1734	1989	1880	2103	953	1115	991
	Pathumthani	956	1349	948	1658	976	1268	1608	1381	1670	1314	1763	1562	1563	1181	1059
	Khanchanaburi	881	1516	2200	1627	1392	2043	2518	1704	1962	1998	1626	1941	2390	1501	979
	Chiang Mai		1084	1473	808	1151	1430	1420	937	1286	1052	1167	1614	1111	1433	527
	Nakhon Ratchasima							1190	1386	1722	1259	1627	1509	1126	1443	427
Vietnam	Hanoi	1256	2255	1416	1586	1575	1761	1231	1659	2267	1609	1236	1817	1798	1945	1661
	Hoa Binh	1894	2223	1626	1691	1831	2279	1546	1949	1978	1357	1370	1760	1915	2008	1303
	Cuc Phuong										2266	1654	1853	2018	1898	1702
	Da Nang										2966	1690	3639	1682	2315	2219
	Can Tho															1840
	Ho Chi Minh															1916

[***]: No data or not measured

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

Black cell: Monitoring was not carried out

Table 3.66 Precipitation amount-weighted annual average concentrations of SO_4^{2-} from 2000 to 2014

unit: μmol L^{-1}

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cambodia	Phnom Penh					***	5.68	5.31	22.5	11.6	11.6	7.37	9.04	10.5	7.99	6.27
China	Guanyinqiao	152	205	114	110	165	186	177	130							
	Nanshan	130														
	Haifu									144	99.3	139	142	102	106	84.4
	Jinyunshan		124	78.3	83.2	109	102	141	90.4	120	114	151	141	124	81.4	60.4
	Shizhan	356	470	850	203	173	126	274	183	191	136	100.0	110	109	141	113
	Weishuiyuan	538	1510	1010	143	202	107	330								
	Jiwozi	141	326	305	90.6	55.2	118	128	182	145	93.5	31.8	62.6	94.5	52.6	69.3
	Hongwen	20.2	56.5	42.8	36.9	69.1	47.2	28.6	75.5	31.7	26.1	26.7	31.3	32.2	21.9	27.0
	Xiaoping	14.6	18.3	16.7	23.6	27.2	20.2	16.9	28.0	29.2	28.2	27.3	24.9	23.4	22.7	29.6
	Xiang Zhou	22.4	15.7	27.9	20.5	18.7	23.8	29.2	21.7	16.5	18.2	19.8	15.5	14.9	19.1	14.3
	Zhuxiandong	48.0	19.3	32.0	18.5	26.9	29.5	19.3	***	21.5	21.0	17.1	20.4			
Indonesia	Jakarta	58.7	62.7	38.5	66.7	48.6	40.3	26.2	27.9	22.7	19.4	21.9	28.7	20.6	21.9	22.2
	Serpong	***	38.2	25.7	23.1	28.1	33.3	28.2	30.5	27.8	23.1	24.4	33.6	29.0	26.5	23.2
	Kototabang	3.69	4.68	7.47	9.18	5.23	5.50	7.65	6.99	2.91	4.72	6.33	7.77	6.04	6.22	8.52
	Bandung	67.4	33.7	27.7	20.4	27.7	35.3	26.8	26.4	28.0	29.2	27.0	30.8	26.5	30.7	38.8
	Maros									5.38	6.96	10.8	8.26	8.77	6.44	7.56
Japan	Rishiri	39.0	31.0	27.3	23.5	28.6	27.9	22.9	28.3	29.4	25.9	23.4	21.2	27.8	23.2	20.0
	Ochiishi				19.1	34.5	22.6	27.7	21.3	18.7	16.7	23.0	15.2	25.3	32.5	13.0
	Tappi	21.9	22.9	22.7	21.8	26.2	29.6	35.8	29.6	28.3	23.1	21.3	27.5	22.3	33.1	26.5
	Sado-seki	34.4	41.0	28.2	16.5	17.7	34.2	28.3	34.9	31.0	33.0	32.3	24.5	29.8	33.5	32.0
	Happo	13.3	11.7	7.59	7.53	9.13	12.0	10.3	12.2	10.9	10.1	6.11	7.00	11.6	8.88	8.00
	Ijira	19.9	22.0	19.7	19.1	14.0	18.9	20.6	19.0	18.2	15.4	11.1	13.0	13.6	12.3	12.0
	Oki	40.5	33.8	35.3	21.5	29.3	55.7	29.5	36.3	35.6	37.8	40.8	45.6	37.9	47.0	47.8
	Banryu	15.6	19.0	19.0	17.4	19.8	26.9	22.0	27.9	25.8	20.9	21.0	21.1	25.9	17.3	21.6
	Yusuhara	11.1	9.16	11.2	9.33	6.72	12.1	10.1	9.50	10.2	11.7	9.64	7.02	10.7	9.07	6.92
	Hedo	32.2	15.9	36.9	35.2	77.0	36.0	19.2	14.4	14.2	13.1	20.9	20.5	31.2	22.2	14.3
	Ogasawara	11.4	11.4	18.1	18.0	10.7	13.1	10.2	12.7	8.97	16.5	15.0	15.7	10.2	13.5	12.1
	Tokyo								17.1	19.6	16.0	10.9	15.9	15.6	12.2	13.9
Lao PDR	Vientiane				***	***	***	3.46	4.67	5.06	4.05	***	***	2.41	***	***
Malaysia	Petaling Jaya	23.5	22.2	23.7	21.0	18.2	23.3	20.6	13.8	17.5	13.2	17.1	22.5	17.0	17.8	21.4
	Tanah Rata	4.12	3.73	4.62	3.79	4.03	5.58	4.43	3.52	3.28	3.27	3.25	5.05	4.59	4.77	6.19
	Danum Valley						4.40	3.41	2.29	2.49	2.82	5.08	1.96	2.28	3.17	2.58
	Kuching									4.14	3.78	3.57	4.07	4.67	5.01	7.14
Mongolia	Ulaanbaatar	24.3	25.2	24.7	19.5	22.1	26.7	25.4	37.1	27.9	19.9	22.2	28.1	***	56.6	***
	Terelj	16.4	9.72	15.1	8.26	13.3	17.5	23.8	25.0	16.5	16.5	30.5	23.6	***	48.5	***
Myanmar	Yangon								***	***	8.01	4.52	6.63	7.48	7.96	4.55
Philippines	Metro Manila	23.4	37.3	26.3	17.1	20.4	24.0	17.6	22.3	24.9	13.6	20.3	18.7	24.1	15.1	18.0
	Los Baños	10.5	15.6	16.1	7.08	8.42	9.86	10.8	8.38	18.0	8.82	7.39	8.57	12.6	6.60	9.13
	Mt. Sto. Tomas							1.37	5.74	3.47	5.04	4.94	4.69	7.26	7.71	4.62
Republic of Korea	Kanghwa	31.6	25.0	34.5	26.1	44.8	46.8	37.0	41.2	27.9	29.2	26.3	27.2	27.2	36.1	29.3
	Cheju	23.2	20.7	28.0	22.7	23.8	34.3	28.1	37.9	26.2	25.3	19.3	25.5	36.7	40.6	17.2
	Imsil		16.4	22.9	16.3	16.5	22.8	26.8	28.8	21.0	19.6	19.5	20.7	19.4	18.5	15.2
Russia	Mondy	7.18	11.0	10.8	8.51	6.85	5.37	4.70	9.31	7.13	7.82	6.80	4.53	7.16	3.58	5.47
	Listvyanka	15.4	13.4	18.2	19.1	19.2	17.3	19.0	17.1	21.3	19.3	20.7	22.1	21.4	18.1	17.4
	Irkutsk	30.1	29.6	34.2	26.3	26.6	27.8	26.0	33.6	38.5	31.2	33.5	34.4	37.9	36.6	23.2
	Primorskaya			29.0	43.1	37.2	38.2	46.0	30.8	40.6	22.6	31.9	14.0	20.8	29.2	32.1
Thailand	Bangkok	21.6	18.2	18.6	18.5	16.3	19.5	22.3	17.2	18.0	12.7	12.0	10.7	10.7	7.09	8.43
	Samutprakarn	25.5				16.5	19.1	20.7	14.8	15.7	15.1	15.6	7.67	10.2	7.67	9.61
	Pathumthani	19.6	17.2	15.0	12.4	17.5	13.2	13.4	12.0	10.6	8.89	8.01	9.45	7.93	9.41	8.23
	Khanchanaburi	3.64	5.22	5.62	3.56	3.39	2.80	4.04	2.47	3.78	3.60	1.79	5.11	3.72	1.23	3.59
	Chiang Mai		2.79	4.46	4.13	6.90	5.90	4.54	6.00	4.96	4.30	3.32	3.24	4.76	4.13	8.39
	Nakhon Ratchasima							8.24	6.44	7.36	6.44	7.04	5.30	6.64	7.49	10.8
Vietnam	Hanoi	30.1	14.0	33.7	30.1	37.0	51.4	46.9	33.6	20.2	27.4	35.4	30.7	28.8	25.9	39.3
	Hoa Binh	16.3	14.7	18.8	22.5	29.4	17.8	24.9	17.0	13.6	16.1	26.3	18.0	17.1	19.7	25.2
	Cuc Phuong										18.5	20.3	37.6	24.3	26.9	18.5
	Da Nang										18.8	16.4	21.1	19.6	24.2	15.8
	Can Tho															8.73
	Ho Chi Minh															24.2

[***]: No data or not measured

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

Black cell: Monitoring was not carried out

Table 3.67 Precipitation amount-weighted annual average concentrations of nss-SO_4^{2-} from 2000 to 2014

unit: μmol L^{-1}

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cambodia	Phnom Penh					***	***	5.08	22.0	8.67	11.2	7.18	8.83	10.3	7.80	5.81
China	Guanyinqiao	151	205	114	109	165	185	177	130							
	Nanshan	130														
	Haifu									144	99.0	138	142	101	106	84.0
	Jinyunshan		123	78.0	82.9	109	101	140	90.0	120	113	151	140	124	81.2	60.1
	Shizhan	353	460	835	199	171	125	271	182	190	135	99.5	109	109	132	105
	Weishuiyuan	534	1500	994	136	201	106	326								
	Jiwozi	140	316	295	84.5	53.7	115	124	177	140	92.0	31.4	62.1	91.8	45.8	61.8
	Hongwen	18.8	55.9	39.4	34.8	66.0	44.1	27.0	74.0	30.3	24.6	25.5	30.2	31.2	21.0	25.8
	Xiaoping	14.1	17.6	15.7	22.1	26.4	19.6	16.1	27.2	27.8	27.3	26.2	24.2	22.9	22.0	29.0
	Xiang Zhou	19.9	14.6	25.4	18.3	16.7	21.5	27.0	20.5	14.4	15.8	18.6	13.5	12.1	15.9	12.5
	Zhuxiandong	46.3	18.0	29.3	16.4	23.8	26.1	18.0	***	19.0	18.3	15.9	17.7			
Indonesia	Jakarta	55.6	60.3	36.4	65.1	46.4	38.9	25.4	27.0	22.1	18.8	21.4	28.0	19.8	20.9	20.9
	Serpong	***	36.8	24.2	22.4	26.9	32.3	27.7	29.8	27.2	22.5	23.9	33.0	28.4	25.6	22.1
	Kototabang	***	4.41	7.09	8.59	4.58	5.16	7.28	6.47	2.61	4.38	6.04	7.38	5.47	5.71	8.18
	Bandung	***	32.5	27.2	20.0	27.0	34.6	25.7	26.0	27.5	28.5	26.4	30.1	25.8	29.9	38.0
	Maros									4.43	6.18	10.0	7.36	7.65	5.28	6.24
Japan	Rishiri	19.4	18.2	15.6	12.9	14.7	15.7	16.3	19.7	14.5	15.3	13.6	12.9	10.5	11.3	10.2
	Ochiishi				7.47	12.9	10.1	11.3	10.1	8.41	5.88	9.65	6.73	8.81	7.18	7.15
	Tappi	12.9	14.8	12.9	13.4	14.2	16.6	18.4	15.7	16.4	11.5	14.5	18.5	13.8	17.6	17.1
	Sado-seki	18.9	19.5	13.1	10.9	9.53	16.8	14.8	21.3	18.3	13.7	13.4	15.3	15.3	13.9	15.0
	Happo	12.9	11.3	7.39	7.24	8.78	11.5	10.1	12.0	10.7	9.82	5.88	6.80	11.0	8.63	7.68
	Ijira	18.7	20.2	18.0	18.3	12.7	18.0	20.0	17.7	17.3	14.6	10.3	12.1	12.4	11.4	11.1
	Oki	16.9	14.8	13.5	10.3	11.9	19.3	15.8	19.7	16.4	15.2	16.2	16.7	16.4	16.5	15.0
	Banryu	13.9	14.3	14.2	12.5	13.0	21.3	18.0	23.1	21.4	15.0	15.3	14.6	20.3	13.1	16.4
	Yusuhara	10.1	8.45	9.44	8.46	5.27	10.6	9.39	8.69	9.69	10.9	9.11	6.28	9.66	8.47	6.61
	Hedo	5.89	6.49	7.44	11.3	24.4	13.0	7.86	6.58	6.73	5.55	5.79	8.26	6.30	8.58	6.03
	Ogasawara	3.13	5.11	3.94	4.08	3.44	7.32	4.15	4.85	3.81	5.21	3.02	3.56	3.35	4.99	4.20
	Tokyo								15.0	18.4	14.5	9.86	13.6	13.8	10.8	12.8
Lao PDR	Vientiane				***	***	***	3.03	4.53	4.88	3.50	***	***	***	***	***
Malaysia	Petaling Jaya	23.2	22.0	23.4	20.7	17.9	22.9	20.3	13.6	17.2	12.9	16.8	22.2	16.8	17.5	21.1
	Tanah Rata	4.01	3.61	4.52	3.68	3.92	5.18	4.34	3.43	3.21	3.19	3.17	4.93	4.50	4.64	6.02
	Danum Valley						4.13	3.07	2.04	2.30	2.47	4.32	1.72	2.11	2.86	2.25
	Kuching									3.82	3.33	3.17	3.53	4.35	4.56	6.58
Mongolia	Ulaanbaatar	23.9	24.6	24.3	19.3	21.8	26.3	24.9	36.8	27.3	19.6	22.0	27.7	***	52.0	***
	Terelj	16.0	8.77	14.3	7.99	12.9	16.8	23.0	24.5	15.8	16.0	29.8	23.2	***	47.7	***
Myanmar	Yangon								***	***	6.90	3.90	5.72	6.15	7.33	3.51
Philippines	Metro Manila	21.6	22.7	25.4	16.0	19.4	23.0	16.5	21.1	23.4	12.6	18.9	17.4	23.1	13.4	16.5
	Los Baños	8.50	13.2	14.8	6.25	7.70	8.83	9.44	7.32	16.9	7.77	6.02	7.40	11.3	5.22	8.20
	Mt. Sto. Tomas							1.20	5.40	3.17	4.54	4.56	4.43	6.64	7.31	4.24
Republic of Korea	Kanghwa	28.2	22.5	31.5	24.6	42.9	44.7	35.2	38.5	25.6	26.5	24.7	25.0	24.4	34.3	26.7
	Cheju	14.0	16.2	24.5	19.9	20.3	29.2	22.9	31.8	18.2	22.1	13.1	16.4	14.1	23.2	10.2
	Imsil		15.5	20.5	14.9	15.4	21.5	24.9	27.9	19.0	16.6	16.6	18.4	16.3	16.7	13.4
Russia	Mondy	7.08	10.8	10.7	8.37	6.75	5.28	4.60	9.12	7.02	7.69	6.63	4.30	6.90	3.49	5.34
	Listvyanka	15.1	13.2	18.0	18.8	18.9	17.1	18.8	17.0	21.2	19.1	20.5	21.8	21.1	17.7	17.1
	Irkutsk	29.6	29.1	33.6	25.9	26.2	27.4	25.4	33.0	37.9	30.1	32.4	33.4	37.3	35.8	22.7
	Primorskaya			27.6	41.1	35.8	36.9	45.0	29.6	39.3	21.8	30.4	13.2	19.4	27.6	31.1
Thailand	Bangkok	21.2	17.7	17.6	18.0	15.7	18.7	21.8	16.8	17.4	12.1	11.5	10.3	10.3	6.36	7.88
	Samutprakarn	24.9				15.5	17.9	19.7	14.1	14.8	14.5	14.5	7.33	9.74	6.22	8.85
	Pathumthani	18.9	16.7	14.4	12.1	17.0	12.8	13.0	11.7	10.3	8.56	7.67	9.10	7.10	9.04	7.91
	Khanchanaburi	3.09	4.54	5.11	2.96	2.84	2.40	3.67	2.04	3.22	3.03	1.60	4.66	3.14	<1.0	3.20
	Chiang Mai		2.56	3.92	3.97	6.72	5.84	4.34	5.82	4.81	4.14	3.16	3.05	4.53	3.83	8.17
	Nakhon Ratchasima							7.97	6.18	7.11	6.27	6.85	5.05	6.42	7.31	10.3
Vietnam	Hanoi	29.0	13.3	33.4	29.6	36.5	50.4	46.1	33.1	19.6	26.8	35.0	30.3	28.6	25.4	38.9
	Hoa Binh	15.5	14.1	18.6	22.3	29.2	17.4	24.6	16.8	13.4	15.9	26.0	17.9	16.9	19.5	25.1
	Cuc Phuong										17.8	19.6	36.8	23.1	25.3	17.9
	Da Nang										13.1	13.9	16.8	16.1	15.6	10.8
	Can Tho															7.80
	Ho Chi Minh															22.7

[***]: No data or not measured

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

Black cell: Monitoring was not carried out

Table 3.68 Precipitation amount-weighted annual average concentrations of NO_3^- from 2000 to 2014

unit: μmol L^{-1}

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cambodia	Phnom Penh					7.68	***	9.05	8.26	9.40	10.3	8.37	8.85	10.7	7.65	8.51
China	Guanyinqiao	42.1	52.8	34.4	38.9	43.9	41.3	60.7	48.8							
	Nanshan	41.6														
	Haifu									65.0	53.2	77.6	83.1	73.9	73.9	64.1
	Jinyunshan		40.3	29.4	34.4	36.8	34.4	46.1	31.5	46.5	54.4	75.0	77.5	70.4	53.1	45.6
	Shizhan	87.0	153	150	68.0	61.7	12.1	81.7	75.9	40.2	57.7	41.0	17.5	49.4	35.6	98.0
	Weishuiyuan	95.8	210	168	54.1	69.6	11.4	104								
	Jiwozi	29.1	140	89.8	42.8	26.4	9.31	50.7	66.8	103	27.4	12.2	8.24	47.4	8.77	13.8
	Hongwen	18.7	37.9	30.7	33.6	49.8	37.3	22.4	37.6	22.9	23.4	29.0	23.6	35.2	20.9	26.4
	Xiaoping	14.6	18.7	14.8	22.6	19.6	18.1	16.0	26.2	24.6	29.3	30.3	22.6	26.7	20.7	34.0
	Xiang Zhou	15.6	14.1	17.8	20.9	22.1	17.2	21.8	16.6	12.3	17.7	23.9	15.7	15.2	20.4	20.9
	Zhuxiandong	33.5	22.2	20.8	11.5	25.0	21.5	13.2	***	14.7	19.8	19.7	18.8			
Indonesia	Jakarta	17.6	53.7	28.2	58.4	77.6	53.9	20.5	31.1	14.1	15.3	17.1	29.8	16.2	21.8	20.0
	Serpong	***	50.7	32.6	30.8	39.7	39.4	28.3	30.4	30.3	25.4	29.8	35.5	31.5	39.5	36.2
	Kototabang	6.16	2.74	5.64	49.3	4.71	1.58	1.40	3.57	2.79	<1.0	2.37	5.05	4.65	2.86	7.48
	Bandung	34.4	26.9	26.3	20.4	28.2	19.2	23.1	21.6	20.7	22.8	17.9	28.0	21.6	22.0	27.2
	Maros									3.51	5.36	6.35	7.51	9.05	3.65	6.10
Japan	Rishiri	18.1	18.0	13.5	12.2	11.6	12.6	14.0	15.6	14.7	17.3	14.3	14.1	13.4	13.4	10.2
	Ochiishi				7.95	13.5	9.31	11.4	9.57	8.44	5.42	9.47	9.58	9.80	8.83	8.71
	Tappi	12.9	15.3	16.9	16.9	16.3	18.2	22.5	21.6	22.4	13.4	17.5	19.8	17.4	25.2	24.1
	Sado-seki	18.3	22.2	15.0	13.9	11.2	18.6	18.9	25.8	23.9	16.6	18.1	19.7	20.0	19.4	19.3
	Happo	11.1	8.88	6.97	6.57	8.01	9.53	8.25	9.82	11.0	8.56	6.51	8.17	11.6	8.32	7.80
	Ijira	24.1	21.7	21.8	21.7	15.4	24.1	24.2	21.8	24.1	18.4	15.1	15.1	16.7	14.8	14.7
	Oki	18.6	15.7	15.1	12.9	17.0	21.8	18.2	23.8	19.3	20.2	24.2	21.2	21.6	24.2	20.3
	Banryu	13.9	17.4	19.1	15.9	15.6	25.5	19.5	29.2	24.6	20.0	22.6	19.5	27.8	16.2	21.7
	Yusuhara	7.02	6.85	8.45	6.95	5.27	9.41	7.56	7.19	8.98	7.83	7.70	5.75	8.57	7.03	4.87
	Hedo	5.73	6.57	9.49	9.48	13.4	11.0	8.09	6.41	6.90	6.43	6.38	7.69	7.17	8.58	6.88
	Ogasawara	2.38	3.69	2.71	4.69	3.67	3.21	4.78	4.88	3.75	3.39	3.07	2.93	2.88	3.82	3.11
	Tokyo								19.5	24.4	18.1	15.3	21.7	18.8	16.1	16.8
Lao PDR	Vientiane				***	***	***	6.94	6.90	5.96	9.73	***	***	5.55	***	***
Malaysia	Petaling Jaya	27.2	23.7	36.8	32.9	29.8	35.9	30.0	26.6	36.1	46.4	49.5	52.8	43.8	33.5	35.8
	Tanah Rata	3.32	3.39	5.99	4.70	4.61	6.04	5.34	4.17	4.53	5.19	4.40	2.21	3.78	3.78	4.82
	Danum Valley						2.50	1.41	<1.0	1.37	1.65	1.42	1.05	<1.0	1.97	0.738
	Kuching									4.98	4.55	4.91	5.00	3.82	4.52	5.29
Mongolia	Ulaanbaatar	19.9	20.7	23.7	15.5	15.8	18.8	18.6	26.0	20.1	19.1	21.4	16.8	***	30.9	***
	Terelj	17.6	9.20	18.1	12.4	16.1	11.8	15.5	18.3	18.3	21.0	27.6	18.0	***	31.8	***
Myanmar	Yangon								***	***	7.23	4.96	6.30	8.31	6.72	4.80
Philippines	Metro Manila	12.1	18.5	17.6	13.1	15.4	21.5	12.3	14.1	21.1	8.68	50.5	14.4	18.2	13.9	16.0
	Los Baños	5.44	13.9	8.21	4.87	6.10	9.83	8.13	6.25	7.97	8.01	31.4	8.35	11.9	7.80	8.22
	Mt. Sto. Tomas							1.87	5.47	3.92	3.94	4.29	2.56	6.10	8.47	5.07
Republic of Korea	Kanghwa	42.4	28.6	32.7	27.3	41.1	45.0	33.0	39.0	31.0	18.9	31.8	27.7	36.4	43.2	36.9
	Cheju	15.3	18.4	24.0	23.0	24.8	27.5	25.5	15.1	26.5	18.6	22.7	27.9	19.3	30.3	18.2
	Imsil		15.6	32.0	16.9	20.5	26.4	27.7	18.1	22.6	22.3	29.0	27.7	26.2	26.2	28.0
Russia	Mondy	9.97	10.6	13.5	6.80	6.78	5.03	5.10	8.51	7.48	7.90	8.11	4.30	7.99	5.03	4.65
	Listvyanka	18.7	14.7	25.0	29.8	19.8	11.8	14.6	20.4	15.4	16.4	20.2	30.6	19.3	15.7	13.2
	Irkutsk	21.0	18.4	21.8	17.8	17.1	16.4	16.5	18.3	17.1	16.8	22.3	20.7	18.3	16.3	12.3
	Primorskaya			10.2	15.4	21.4	21.6	29.2	19.1	33.1	18.6	21.9	37.8	23.4	18.5	7.66
Thailand	Bangkok	21.6	17.9	24.6	23.1	15.9	23.2	33.0	28.0	31.2	28.1	26.8	20.6	27.6	12.9	15.3
	Samutprakarn	15.4				9.79	17.9	14.1	16.6	17.4	20.0	15.4	9.81	12.5	5.07	13.0
	Pathumthani	18.6	19.6	18.5	17.2	24.0	19.6	22.0	22.8	21.5	16.6	20.4	19.2	18.8	18.6	14.8
	Khanchanaburi	5.74	6.75	6.06	4.89	4.78	2.50	6.15	2.94	5.02	4.55	3.76	7.27	6.86	1.93	4.68
	Chiang Mai		4.13	6.64	6.53	6.12	8.36	7.87	7.97	9.11	8.44	7.30	7.26	7.91	9.89	11.7
	Nakhon Ratchasima							11.3	11.4	11.5	12.7	14.6	9.97	11.2	10.4	24.5
Vietnam	Hanoi	16.1	5.06	15.1	24.8	25.2	30.8	24.9	15.6	9.76	16.6	20.8	21.7	25.2	26.3	30.6
	Hoa Binh	9.68	8.77	20.2	13.4	19.9	12.9	16.1	10.5	10.2	12.9	15.5	14.4	15.4	18.8	25.2
	Cuc Phuong										10.9	23.2	27.8	20.1	16.7	10.2
	Da Nang										11.4	7.02	15.8	4.79	5.41	5.29
	Can Tho															8.38
	Ho Chi Minh															17.9

[***]: No data or not measured

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

Black cell: Monitoring was not carried out

Table 3.69 Precipitation amount-weighted annual average concentrations of Cl^- from 2000 to 2014

unit: μmol L^{-1}

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cambodia	Phnom Penh					***	6.21	6.20	12.6	8.68	10.3	4.93	5.89	6.67	7.53	9.08
China	Guanyinqiao	24.0	29.8	15.6	16.2	14.7	18.3	19.3	13.8							
	Nanshan	15.6														
	Haifu									13.8	11.0	16.2	14.3	11.4	12.7	11.1
	Jinyunshan		56.8	12.9	10.3	12.8	15.5	13.6	8.70	15.4	16.1	16.1	11.9	11.6	7.21	5.70
	Shizhan	49.0	81.3	349	83.3	36.1	34.4	35.8	39.9	33.6	26.2	22.9	10.7	16.0	50.8	21.1
	Weishuiyuan	91.6	278	285	99.4	39.4	36.5	51.1								
	Jiwozi	32.3	98.9	185	70.1	14.8	38.4	33.2	44.1	33.8	27.9	14.6	11.1	31.3	33.9	23.0
	Hongwen	32.0	35.8	42.9	51.3	60.2	66.0	45.9	39.0	31.2	32.3	15.0	25.4	23.9	19.3	28.6
	Xiaoping	20.7	28.8	9.15	23.5	16.6	11.9	22.3	14.6	18.6	20.1	13.9	17.1	14.5	13.0	13.8
	Xiang Zhou	49.8	37.8	68.9	47.4	36.4	65.8	44.6	30.9	34.8	44.9	22.4	29.8	43.4	46.1	23.8
	Zhuxiandong	39.4	27.7	59.5	40.2	58.8	52.6	29.3	***	45.6	51.4	21.7	18.8			
Indonesia	Jakarta	21.5	38.9	28.1	52.2	39.1	41.6	15.6	18.7	11.4	12.0	15.4	19.4	13.0	19.3	28.8
	Serpong	***	32.3	23.0	27.2	23.8	19.8	10.9	14.3	17.0	17.6	22.4	15.1	24.1	22.7	25.5
	Kototabang	6.76	6.60	16.8	27.8	11.8	7.13	7.80	13.8	3.88	10.7	9.91	13.9	9.72	27.3	10.6
	Bandung	105	25.0	20.3	13.0	17.4	14.6	14.1	7.53	8.33	11.8	8.60	12.4	10.6	15.6	14.7
	Maros									20.1	15.3	21.1	16.1	20.0	36.3	36.2
Japan	Rishiri	372	235	217	201	256	233	126	161	268	193	184	156	332	222	184
	Ochiishi				227	410	232	317	219	194	205	266	180	307	486	112
	Tappi	178	156	191	154	231	250	326	262	226	217	124	167	162	289	176
	Sado-seki	274	378	307	107	154	337	256	257	236	364	351	182	293	355	317
	Happo	10.7	8.84	4.97	7.26	8.74	8.69	5.68	4.36	5.60	6.64	4.99	4.43	11.6	4.89	6.21
	Ijira	23.0	32.7	33.3	19.1	27.5	16.8	14.4	24.8	18.9	16.5	16.2	17.2	24.5	19.5	19.7
	Oki	449	359	419	201	321	696	253	312	371	436	471	552	411	579	617
	Banryu	31.0	86.5	88.9	92.5	133	110	76.0	89.2	82.5	114	107	125	103	80.8	102
	Yusuhara	18.7	12.3	31.8	16.0	28.1	29.9	14.0	16.2	10.0	13.9	11.0	14.7	21.8	13.4	6.95
	Hedo	515	175	593	451	982	488	217	146	138	141	284	232	496	263	157
	Ogasawara	164	123	278	286	139	115	119	154	98.8	227	211	241	134	166	154
	Tokyo								41.1	23.7	27.8	19.4	45.9	35.8	27.7	23.1
Lao PDR	Vientiane				***	***	***	4.77	7.42	7.41	6.19	***	***	4.46	***	***
Malaysia	Petaling Jaya	8.51	7.50	7.33	9.24	7.42	8.78	6.94	5.70	7.50	7.89	9.26	8.36	7.98	7.66	8.89
	Tanah Rata	6.80	3.00	2.26	2.39	2.43	2.64	2.10	1.70	1.47	2.26	1.91	2.95	3.19	2.96	3.49
	Danum Valley						6.00	7.15	4.90	6.10	6.79	17.1	5.70	4.16	7.52	6.50
	Kuching									6.35	8.41	8.04	11.5	6.78	8.82	11.0
Mongolia	Ulaanbaatar	8.96	9.65	7.69	7.64	8.03	7.75	7.77	9.38	10.1	9.63	8.49	7.46	***	4.08	***
	Terelj	8.96	8.66	11.4	6.59	8.96	9.92	9.28	10.3	9.22	9.95	10.6	9.81	***	6.94	***
Myanmar	Yangon								***	***	25.0	13.2	15.8	26.6	27.1	19.5
Philippines	Metro Manila	25.6	115	18.8	24.3	24.0	14.2	23.1	27.9	28.7	24.6	20.6	29.8	20.2	28.7	26.1
	Los Baños	33.0	34.5	24.6	16.2	14.3	18.1	21.0	24.4	18.8	25.0	25.3	26.2	21.6	25.8	18.3
	Mt. Sto. Tomas							1.57	7.38	5.24	8.31	5.07	4.41	6.50	7.11	4.21
Republic of Korea	Kanghwa	54.9	42.6	43.0	61.3	55.8	56.1	36.0	57.7	45.6	60.2	43.9	48.5	67.5	36.3	61.6
	Cheju	210	112	83.8	68.5	79.1	105	102	104	136	63.7	114	147	455	344	124
	Imsil		28.7	36.9	38.1	26.7	44.0	77.5	22.4	36.6	51.9	44.4	25.3	88.8	22.8	30.7
Russia	Mondy	2.58	1.45	8.87	3.07	2.75	5.92	4.47	3.94	4.22	3.29	3.39	5.28	5.95	3.69	3.57
	Listvyanka	5.04	2.16	6.81	4.13	4.94	5.38	3.50	4.29	5.13	3.02	3.43	6.63	3.28	5.85	3.65
	Irkutsk	11.6	12.2	18.0	17.7	8.52	12.4	12.5	13.2	15.9	24.9	23.8	22.0	15.1	19.2	9.86
	Primorskaya			33.9	35.6	21.3	21.7	18.0	18.6	25.6	14.7	29.4	67.4	29.9	42.7	25.0
Thailand	Bangkok	12.6	9.41	13.9	8.67	11.3	12.3	10.8	8.23	11.3	7.65	9.33	7.98	8.33	7.24	9.22
	Samutprakarn	12.9				12.8	19.0	12.5	11.2	12.8	8.45	16.2	7.61	9.92	9.16	11.3
	Pathumthani	10.4	7.75	11.6	6.39	14.3	7.13	6.83	6.64	6.61	6.23	5.77	6.82	15.9	6.85	7.88
	Khanchanaburi	17.6	9.96	14.1	8.80	9.96	7.79	6.30	6.62	10.3	8.84	3.30	8.86	11.6	2.89	6.90
	Chiang Mai		4.53	10.1	4.71	3.82	4.21	3.73	5.85	4.59	4.91	3.58	2.88	4.14	5.94	5.39
	Nakhon Ratchasima							5.52	5.11	5.93	4.62	4.81	4.80	6.36	6.34	11.1
Vietnam	Hanoi	24.3	27.1	9.53	21.3	14.7	27.2	15.6	11.8	8.74	9.65	10.9	8.56	6.58	9.93	10.4
	Hoa Binh	20.3	22.1	6.95	6.92	11.8	13.5	6.46	6.30	4.22	5.38	6.35	4.30	4.65	6.18	4.24
	Cuc Phuong										44.2	24.3	15.5	20.3	25.2	11.7
	Da Nang										110	50.4	93.5	83.1	174	92.9
	Can Tho															27.4
	Ho Chi Minh															44.8

[***]: No data or not measured

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

Black cell: Monitoring was not carried out

Table 3.70 Precipitation amount-weighted annual average concentrations of NH_4^+ from 2000 to 2014

unit: μmol L^{-1}

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cambodia	Phnom Penh					10.8	16.3	17.9	19.7	11.8	13.1	22.6	21.9	21.6	13.5	13.9
China	Guanyinqiao	161	211	120	132	137	157	179	140							
	Nanshan	105														
	Haifu									148	105	141	145	116	142	116
	Jinyunshan		111	83.5	85.6	105	105	121	75.2	98.8	110	124	117	124	90.1	70.6
	Shizhan	421	255	203	144	146	77.2	167	206	164	169	187	60.8	109	238	170
	Weishuiyuan	426	354	319	144	151	64.4	239								
	Jiwozi	199	171	71.2	82.7	37.1	37.8	48.6	11.2	31.6	52.0	17.3	23.1	26.6	55.5	32.8
	Hongwen	31.6	64.9	44.2	29.4	45.8	35.4	29.1	38.5	34.7	46.6	39.8	42.3	43.2	18.3	25.7
	Xiaoping	19.8	33.2	31.1	38.2	38.0	32.2	21.5	52.7	33.0	45.8	42.9	38.9	30.4	25.3	38.9
	Xiang Zhou	20.5	25.0	95.8	34.0	50.7	103	56.7	19.4	19.5	22.1	24.4	20.7	29.1	17.7	23.8
	Zhuxiandong	51.0	30.3	48.4	29.9	59.5	26.1	27.4	***	18.6	25.6	22.7	24.8			
Indonesia	Jakarta	77.3	66.2	31.7	20.8	22.4	12.4	17.4	24.2	25.4	17.7	23.0	33.7	23.1	17.2	17.6
	Serpong	***	67.6	46.0	45.0	42.3	44.6	40.3	44.3	47.2	43.0	52.3	62.2	71.1	83.0	65.5
	Kototabang	1.14	2.38	5.12	1.85	12.3	9.46	9.88	18.2	7.55	2.69	2.83	10.0	8.47	6.93	12.1
	Bandung	32.8	37.9	29.9	32.7	36.8	35.8	46.5	47.9	44.8	48.3	32.1	60.8	53.8	47.4	55.4
	Maros									8.85	12.7	10.1	9.30	14.1	6.75	7.19
Japan	Rishiri	34.0	26.0	20.1	18.3	17.1	18.9	17.5	25.9	23.6	17.7	15.7	14.0	11.4	12.9	12.5
	Ochiishi				7.65	11.8	7.51	15.6	7.84	6.45	8.40	10.7	11.0	12.3	9.68	10.8
	Tappi	9.65	12.7	14.7	16.2	15.6	15.8	18.9	17.7	18.2	10.5	15.0	16.9	13.8	19.1	22.7
	Sado-seki	16.9	19.7	14.5	15.6	10.1	18.3	16.6	25.2	21.7	12.5	11.9	14.6	15.5	18.1	18.2
	Happo	14.2	10.8	7.74	6.37	8.30	10.8	8.96	11.1	10.1	9.73	5.88	6.06	10.7	8.94	8.08
	Ijira	23.8	17.6	22.8	18.1	14.7	20.3	22.8	20.7	18.0	18.2	12.2	14.1	14.7	13.4	13.4
	Oki	19.4	14.7	12.4	8.82	10.9	15.8	12.8	15.7	15.7	17.0	17.8	18.6	17.0	17.5	14.0
	Banryu	11.6	13.8	17.9	12.5	11.2	21.8	14.9	22.3	19.2	16.3	21.6	15.7	21.5	13.8	17.3
	Yusuhara	5.06	5.17	7.57	6.02	4.78	8.88	7.52	7.45	7.52	8.25	6.60	4.83	7.55	7.16	4.91
	Hedo	7.22	4.48	18.5	10.9	17.2	13.3	8.55	7.49	6.11	6.43	9.31	9.13	18.8	9.94	8.28
	Ogasawara	2.33	4.82	5.40	3.63	5.09	3.46	4.59	7.70	3.43	4.82	5.29	4.54	5.18	6.04	3.88
	Tokyo								27.7	29.9	26.2	19.2	25.4	24.3	22.9	23.1
Lao PDR	Vientiane				***	***	***	7.72	10.9	8.39	17.3	***	***	***	***	***
Malaysia	Petaling Jaya	43.7	58.1	16.2	12.2	13.1	20.1	23.3	19.1	20.8	7.57	4.60	4.86	1.29	16.2	27.4
	Tanah Rata	41.1	35.4	4.02	2.30	2.39	2.82	3.53	3.91	3.10	5.41	4.05	14.3	5.67	2.42	3.44
	Danum Valley						2.03	2.05	1.32	9.76	3.44	4.89	1.90	<1.0	<1.0	0.915
	Kuching									4.61	4.94	1.94	5.03	6.16	2.87	9.38
Mongolia	Ulaanbaatar	52.0	49.9	72.8	47.5	46.2	54.4	53.7	87.1	53.3	46.7	54.7	45.9	***	62.2	***
	Terelj	44.3	30.5	65.7	31.6	35.6	36.1	54.6	38.8	51.1	41.0	35.0	39.4	***	5.37	***
Myanmar	Yangon								***	***	16.2	14.6	14.9	17.7	17.0	16.6
Philippines	Metro Manila	35.6	77.1	46.2	23.7	35.4	29.9	40.5	33.6	62.2	21.1	53.1	183	273	41.2	61.6
	Los Baños	13.6	22.4	34.5	14.5	13.9	15.0	16.3	16.8	19.6	11.7	38.2	29.4	67.8	22.3	55.9
	Mt. Sto. Tomas							<1.0	8.69	10.5	14.1	4.65	<1.0	3.42	4.71	13.5
Republic of Korea	Kanghwa	37.6	37.5	40.1	57.6	75.6	66.4	53.0	58.4	35.4	30.5	26.5	43.3	49.4	78.5	60.2
	Cheju	20.2	32.3	43.3	41.9	36.0	30.9	26.1	28.8	26.2	45.2	26.8	28.0	33.4	35.9	25.5
	Imsil		42.3	42.2	32.5	28.2	32.4	50.2	40.0	29.9	35.2	31.2	37.7	39.5	40.5	33.4
Russia	Mondy	11.4	22.2	33.8	14.7	11.2	9.76	3.70	30.1	9.86	20.2	17.5	9.14	19.0	2.71	3.60
	Listvyanka	16.5	10.8	26.8	20.8	12.2	16.6	15.5	15.6	18.9	13.4	18.3	17.2	26.7	9.85	13.7
	Irkutsk	32.1	25.1	43.0	42.1	27.2	35.3	24.9	33.9	34.4	36.4	34.5	32.7	34.1	29.5	23.9
	Primorskaya			35.9	39.1	30.4	41.6	49.8	29.6	50.6	28.8	42.7	54.1	27.0	39.6	42.3
Thailand	Bangkok	41.3	36.2	46.8	37.5	37.8	43.4	56.1	57.8	53.8	64.9	37.8	40.2	44.1	46.3	52.3
	Samutprakarn	31.8				34.5	37.4	49.9	47.1	56.4	41.0	28.1	27.8	34.1	37.7	48.6
	Pathumthani	38.3	35.5	34.2	29.1	34.0	31.2	33.5	34.4	29.7	33.0	28.0	38.1	37.9	44.9	35.3
	Khanchanaburi	6.84	11.0	10.9	12.5	8.40	4.96	17.5	13.9	10.1	26.1	8.90	13.0	8.95	6.80	14.0
	Chiang Mai		15.8	18.5	15.8	15.7	21.0	15.2	18.8	19.9	20.2	19.3	13.5	19.6	19.3	26.8
	Nakhon Ratchasima							23.1	18.3	21.1	22.9	24.6	24.3	25.7	23.8	42.3
Vietnam	Hanoi	27.5	20.3	55.5	55.1	52.7	98.8	45.7	48.3	30.6	50.6	52.4	52.8	60.2	53.4	68.0
	Hoa Binh	8.01	12.5	28.2	28.7	41.0	30.1	27.6	21.3	17.1	31.4	28.3	27.8	30.0	25.3	45.6
	Cuc Phuong										6.30	9.90	19.2	23.9	25.5	20.5
	Da Nang										13.5	8.67	21.5	21.3	24.6	14.5
	Can Tho															18.3
	Ho Chi Minh															24.3

[***]: No data or not measured

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

Black cell: Monitoring was not carried out

Table 3.71 Precipitation amount-weighted annual average concentrations of Na^+ from 2000 to 2014

unit: μmol L^{-1}

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cambodia	Phnom Penh					***	***	1.85	8.25	10.3	6.95	3.10	3.55	3.65	3.10	7.60
China	Guanyinqiao	11.8	10.8	5.54	4.91	7.28	8.35	7.92	5.92							
	Nanshan	7.73														
	Haifu									6.99	4.20	7.56	9.87	6.04	7.29	6.36
	Jinyunshan		10.2	5.90	4.99	12.3	15.3	6.65	6.20	10.3	7.70	8.17	6.12	6.28	3.92	4.50
	Shizhan	44.1	164	246	69.2	19.1	16.1	45.2	15.6	24.4	13.4	7.30	17.7	5.59	138	126
	Weishuiyuan	68.9	219	207	113	23.3	20.5	66.9								
	Jiwozi	23.8	158	171	102	25.1	59.6	65.6	85.8	81.1	25.2	6.47	7.86	44.5	112	125
	Hongwen	23.8	10.8	55.6	34.8	50.4	51.4	30.8	24.1	22.9	24.5	19.4	18.1	16.3	14.3	19.8
	Xiaoping	8.66	11.8	16.4	24.7	13.0	9.67	23.2	12.4	22.5	16.4	18.8	10.9	8.45	12.1	8.77
	Xiang Zhou	42.1	24.6	41.5	39.1	72.1	44.1	35.5	19.4	34.6	40.2	19.8	32.3	45.9	54.2	30.7
	Zhuxiandong	31.2	27.5	45.2	36.0	94.4	60.9	22.6	***	40.7	45.3	19.9	45.0			
Indonesia	Jakarta	52.4	39.4	35.3	27.1	37.2	23.2	13.1	15.8	9.95	9.31	7.92	11.7	12.7	16.2	21.4
	Serpong	***	23.8	25.2	11.3	19.6	16.0	7.46	11.7	10.5	10.2	8.32	10.1	10.9	14.0	18.8
	Kototabang	***	4.52	6.29	9.65	10.9	5.69	6.21	8.65	5.33	6.12	5.25	6.54	9.63	8.51	5.67
	Bandung	***	20.2	8.64	7.10	10.8	11.9	18.3	6.65	8.62	11.8	9.74	12.2	10.8	13.6	12.9
	Maros									15.7	13.3	13.2	14.9	19.9	19.3	29.1
Japan	Rishiri	325	212	197	176	229	203	110	143	247	176	162	139	292	200	162
	Ochiishi				198	360	208	278	186	171	182	232	155	274	421	97.2
	Tappi	149	134	165	141	199	218	289	234	197	199	114	150	141	257	156
	Sado-seki	258	355	268	93.8	135	290	224	227	215	321	320	153	246	328	282
	Happo	7.85	6.22	3.39	4.78	5.94	7.04	4.13	3.13	4.12	5.14	3.76	3.34	9.57	4.07	5.31
	Ijira	19.9	29.7	28.5	13.3	21.6	13.6	10.8	20.8	15.4	13.5	13.0	13.8	19.3	15.1	15.6
	Oki	396	316	363	185	295	602	225	275	324	376	409	480	357	505	545
	Banryu	28.9	78.2	79.4	80.9	113	92.1	66.4	78.6	72.2	98.8	94.2	108	92.2	69.1	86.9
	Yusuhara	15.2	11.8	28.9	14.4	24.1	25.2	11.9	13.5	8.61	12.0	8.82	12.3	18.1	9.90	5.19
	Hedo	454	160	515	430	873	449	189	129	124	127	254	204	418	227	137
	Ogasawara	139	104	236	251	125	97.3	103	133	86.2	188	208	202	114	141	131
	Tokyo								34.5	19.5	23.5	17.3	37.7	29.5	22.8	18.9
Lao PDR	Vientiane				***	***	***	7.10	2.38	2.91	9.14	***	***	***	***	***
Malaysia	Petaling Jaya	4.97	3.70	5.08	5.60	5.69	6.64	4.27	3.61	4.22	4.59	4.99	4.56	3.85	4.29	5.04
	Tanah Rata	1.90	1.92	1.64	1.89	1.83	6.64	1.41	1.54	1.20	1.58	1.29	1.99	1.51	2.17	2.82
	Danum Valley						4.45	5.64	4.15	3.22	5.83	13.8	5.52	2.87	5.14	5.42
	Kuching									5.39	7.35	6.67	9.08	5.21	7.54	9.25
Mongolia	Ulaanbaatar	7.88	9.09	6.29	3.84	5.79	7.16	8.43	5.25	3.59	4.88	3.50	5.65	***	78.8	***
	Terelj	6.47	15.9	16.9	4.50	6.32	11.5	12.5	9.42	5.47	7.60	11.1	6.07	***	17.0	***
Myanmar	Yangon								***	***	18.5	12.9	15.0	22.1	15.8	17.3
Philippines	Metro Manila	30.6	205	14.6	18.4	16.3	15.9	17.2	20.2	24.6	20.2	22.3	21.4	16.7	28.0	24.5
	Los Baños	34.8	37.2	21.1	15.3	12.0	17.2	22.7	17.6	19.1	17.4	22.7	19.4	22.2	22.8	15.4
	Mt. Sto. Tomas							2.81	5.68	5.11	8.26	6.30	4.31	10.3	6.70	6.30
Republic of Korea	Kanghwa	56.3	41.7	49.2	25.4	32.5	33.7	28.8	44.3	39.3	45.1	27.0	35.8	50.7	29.6	43.2
	Cheju	152	74.7	58.3	46.7	57.8	84.8	85.0	101	133	53.6	103	152	375	290	116
	Imsil		15.4	38.6	22.8	17.9	21.7	31.1	15.0	32.0	50.3	48.2	37.4	51.8	30.3	29.8
Russia	Mondy	1.84	2.27	1.93	2.27	1.93	1.52	1.57	3.13	1.84	2.28	2.81	3.86	4.32	1.36	2.25
	Listvyanka	4.57	3.38	3.80	5.10	4.66	3.01	2.80	2.57	2.49	3.82	3.60	5.42	4.20	6.68	4.80
	Irkutsk	8.85	8.27	9.19	6.59	6.65	6.89	10.0	9.94	10.0	18.7	18.4	16.8	9.96	12.8	8.62
	Primorskaya			23.1	33.7	22.5	21.7	16.8	19.8	22.9	12.8	23.9	13.7	23.1	25.5	15.8
Thailand	Bangkok	6.93	8.33	16.1	7.65	10.2	12.8	8.72	7.08	9.77	9.79	8.79	6.46	6.07	12.0	9.17
	Samutprakarn	10.1				16.5	19.8	14.6	12.2	15.4	10.0	18.6	5.70	7.89	25.3	12.6
	Pathumthani	10.9	8.06	9.65	4.73	8.94	6.56	7.49	5.77	5.96	5.58	7.46	5.87	14.1	5.96	5.31
	Khanchanaburi	9.71	11.3	8.34	10.3	8.99	6.70	6.86	7.05	9.23	9.49	3.11	7.45	9.71	5.46	6.41
	Chiang Mai		3.94	9.66	3.21	3.05	<1.0	3.53	2.93	2.61	2.69	2.72	3.21	3.80	5.63	3.65
	Nakhon Ratchasima							4.45	4.45	4.20	2.73	3.21	4.04	3.71	2.96	8.85
Vietnam	Hanoi	18.1	11.5	5.94	8.96	8.05	17.7	13.5	8.20	9.59	9.17	7.28	6.17	4.19	7.69	7.24
	Hoa Binh	12.7	9.80	2.06	2.36	3.91	7.47	4.49	3.20	3.07	3.39	4.86	2.46	3.03	4.13	3.16
	Cuc Phuong										11.2	12.0	13.6	20.0	26.7	10.7
	Da Nang										94.6	41.3	70.2	63.2	144	82.1
	Can Tho															15.4
	Ho Chi Minh															25.0

[***]: No data or not measured

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

Black cell: Monitoring was not carried out

Table 3.72 Precipitation amount-weighted annual average concentrations of K^+ from 2000 to 2014

unit: μmol L^{-1}

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cambodia	Phnom Penh					1.63	***	1.48	3.64	10.3	1.50	0.861	1.15	0.761	1.06	2.69
China	Guanyinqiao	14.2	18.7	10.6	11.0	10.9	12.4	12.6	8.81							
	Nanshan	16.3														
	Haifu									11.5	7.72	10.0	9.38	6.57	12.8	9.28
	Jinyunshan		44.4	10.3	8.60	11.7	11.4	11.4	6.78	9.54	8.71	10.4	10.4	7.64	5.49	4.42
	Shizhan	26.5	42.2	40.5	18.7	9.57	15.4	18.0	19.3	13.3	10.2	32.4	13.4	5.69	28.1	251
	Weishuiyuan	34.7	74.9	76.6	20.3	11.3	12.6	33.6								
	Jiwozi	17.9	43.6	42.2	21.3	8.48	27.7	20.8	28.0	29.0	13.7	4.89	7.28	9.74	10.2	16.4
	Hongwen	4.99	10.4	4.30	4.33	7.23	5.08	3.35	3.73	2.12	2.26	2.24	1.99	2.86	1.90	1.42
	Xiaoping	2.81	4.20	3.76	4.75	5.09	2.76	13.5	7.31	10.2	2.33	1.94	2.80	3.47	1.66	1.45
	Xiang Zhou	6.59	4.02	17.6	5.74	7.65	2.66	8.16	8.27	1.65	2.10	2.21	3.74	9.20	8.24	6.89
	Zhuxiandong	6.18	5.86	13.2	6.62	22.7	5.60	2.62	***	4.50	2.56	3.29	5.92			
Indonesia	Jakarta	***	24.3	11.3	9.28	10.3	5.73	8.01	11.2	3.51	2.22	2.23	2.28	2.86	2.83	3.62
	Serpong	***	7.04	3.95	7.96	5.65	6.18	4.46	2.76	2.21	1.75	3.20	3.15	4.33	4.91	5.64
	Kototabang	***	1.32	5.10	20.0	6.27	4.36	4.56	8.40	3.40	9.35	4.43	3.96	5.52	19.3	10.4
	Bandung	***	12.6	2.04	4.13	3.29	4.66	4.81	2.03	2.31	4.08	4.22	4.77	3.36	7.97	5.63
	Maros									5.76	3.89	2.52	1.86	3.50	1.84	19.1
Japan	Rishiri	9.95	6.04	5.08	4.90	6.01	5.09	3.75	4.13	6.58	4.31	4.28	3.44	6.41	4.61	4.10
	Ochiishi				4.63	8.08	5.28	7.66	4.58	3.81	4.09	6.16	3.70	6.76	9.35	2.55
	Tappi	3.64	3.28	4.07	3.45	4.95	4.99	7.12	5.66	5.36	4.95	3.50	4.34	3.96	6.21	3.97
	Sado-seki	6.37	8.19	6.49	2.46	3.56	6.65	5.69	5.88	7.16	7.96	8.08	4.45	6.62	7.69	7.51
	Happo	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.356	0.447	0.865	0.581	0.746
	Ijira	2.95	4.06	2.10	1.24	1.10	<1.0	<1.0	1.15	<1.0	<1.0	0.426	0.535	0.609	0.589	0.611
	Oki	10.5	8.77	9.53	5.45	9.62	15.5	6.56	9.12	11.9	10.1	10.1	12.7	9.16	12.8	13.1
	Banryu	1.35	2.73	2.89	2.49	3.02	3.69	2.23	3.06	2.54	3.00	5.43	3.39	3.26	2.33	2.65
	Yusuhara	<1.0	<1.0	1.01	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.613	0.465	1.07	0.387	0.701
	Hedo	9.06	3.56	12.0	10.1	24.6	11.3	4.71	3.31	3.18	3.29	6.19	4.94	10.6	5.48	3.31
	Ogasawara	3.58	4.08	6.17	5.60	3.07	2.28	2.53	3.17	2.61	4.55	5.02	4.95	2.71	3.64	3.12
	Tokyo								1.40	1.14	1.10	0.989	1.29	0.888	0.711	0.628
Lao PDR	Vientiane				***	***	***	3.51	1.69	1.69	<1.0	***	***	***	***	***
Malaysia	Petaling Jaya	1.77	1.42	1.27	3.04	1.64	2.46	1.55	<1.0	1.19	1.51	1.50	1.31	1.33	1.14	1.47
	Tanah Rata	1.09	<1.0	<1.0	<1.0	1.52	<1.0	<1.0	<1.0	<1.0	<1.0	1.06	2.03	1.68	1.75	1.62
	Danum Valley						1.17	1.01	1.08	2.53	1.59	3.24	1.73	1.21	1.01	2.16
	Kuching									<1.0	<1.0	0.650	0.854	0.924	0.695	3.26
Mongolia	Ulaanbaatar	3.92	4.64	3.81	3.39	2.84	4.33	5.15	1.28	2.81	2.53	2.72	3.98	***	3.88	***
	Terelj	4.50	3.81	10.2	4.11	4.68	6.48	8.98	3.80	6.46	4.10	5.43	5.00	***	7.98	***
Myanmar	Yangon								***	***	6.46	2.07	1.66	6.78	2.66	4.69
Philippines	Metro Manila	15.5	23.2	9.87	2.52	3.93	3.90	12.6	5.38	15.6	3.99	17.0	23.5	26.3	6.45	9.79
	Los Baños	1.74	9.51	6.38	1.83	2.14	2.20	2.49	4.92	2.91	9.08	7.43	6.82	8.14	6.37	8.18
	Mt. Sto. Tomas							1.32	2.29	<1.0	1.95	1.41	0.821	0.885	0.752	1.26
Republic of Korea	Kanghwa	5.61	4.74	8.83	9.39	11.4	6.49	4.86	10.8	5.40	8.97	7.78	3.62	6.39	3.27	13.4
	Cheju	6.32	9.38	6.45	8.16	8.11	8.61	6.04	7.18	10.4	9.75	7.96	6.54	15.7	12.0	11.3
	Imsil		14.8	6.55	11.2	5.72	48.6	42.1	14.3	5.61	10.9	10.3	3.89	47.5	6.33	9.82
Russia	Mondy	1.19	2.07	2.32	1.61	2.68	1.05	1.11	2.47	2.02	3.29	2.62	4.98	9.05	2.30	2.01
	Listvyanka	4.67	1.73	2.22	2.64	2.36	1.15	1.54	1.28	3.38	2.07	1.66	2.42	2.00	4.36	3.11
	Irkutsk	4.38	7.37	2.32	2.63	2.72	3.39	7.64	7.77	8.99	26.6	5.52	4.59	4.99	5.19	2.97
	Primorskaya			5.35	10.1	7.24	7.07	5.47	6.18	8.99	4.40	5.84	6.75	5.09	5.55	5.14
Thailand	Bangkok	3.22	4.11	3.35	2.62	1.62	2.17	2.83	1.57	2.03	1.98	2.58	1.82	1.52	1.91	1.38
	Samutprakarn	5.29				4.88	4.92	4.31	2.88	6.12	2.77	17.0	1.11	1.52	5.23	2.33
	Pathumthani	2.26	1.68	1.49	1.17	1.19	1.20	1.66	1.61	1.50	1.61	1.85	1.96	1.64	2.13	1.87
	Khanchanaburi	8.88	4.98	2.38	2.02	1.09	<1.0	2.44	<1.0	1.15	1.21	0.710	2.21	1.57	0.955	1.22
	Chiang Mai		2.94	4.41	3.95	1.41	<1.0	1.70	2.87	2.63	1.47	1.21	1.45	1.26	1.48	1.77
	Nakhon Ratchasima							<1.0	1.38	1.24	1.31	0.940	1.20	1.26	0.813	2.63
Vietnam	Hanoi	4.09	3.81	2.07	2.57	2.95	5.22	3.78	2.70	2.77	1.57	2.78	2.27	3.00	2.64	3.75
	Hoa Binh	3.56	2.33	1.48	1.48	1.67	3.64	2.43	2.24	3.24	2.72	2.88	2.40	1.50	7.10	2.77
	Cuc Phuong										14.0	5.61	3.31	6.06	8.57	4.72
	Da Nang										6.27	3.41	14.0	11.5	17.9	13.8
	Can Tho															7.45
	Ho Chi Minh															10.6

[***]: No data or not measured

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

Black cell: Monitoring was not carried out

Table 3.73 Precipitation amount-weighted annual average concentrations of Ca^{2+} from 2000 to 2014

unit: μmol L^{-1}

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cambodia	Phnom Penh					<0.2	***	9.11	19.2	32.6	20.4	8.33	9.30	10.7	9.57	9.47
China	Guanyinqiao	63.0	137	65.4	65.4	110	156	143	75.2							
	Nanshan	55.2														
	Haifu									65.3	43.2	69.2	68.5	57.9	69.5	54.6
	Jinyunshan		44.9	29.7	30.7	70.5	57.7	98.3	55.1	68.3	66.7	68.7	65.1	59.2	31.2	26.0
	Shizhan	229	675	479	258	147	107	301	116	150	138	105	91.2	128	325	92.7
	Weishuiyuan	305	1160	617	241	190	91.0	330								
	Jiwozi	124	429	276	230	88.0	129	221	347	266	93.7	40.7	91.6	203	133	149
	Hongwen	6.75	36.3	49.1	30.7	83.7	37.4	25.5	54.9	14.1	13.2	9.11	14.1	17.5	21.9	25.5
	Xiaoping	0.773	5.10	10.6	17.3	6.41	10.6	10.5	16.7	15.6	9.04	8.37	11.7	20.0	22.7	42.4
	Xiang Zhou	21.2	7.96	15.5	22.8	18.0	7.31	14.1	4.71	5.43	4.91	7.40	17.5	10.8	43.4	17.0
	Zhuxiandong	25.0	14.3	20.7	20.2	24.7	17.0	17.1	***	13.6	7.40	16.4	19.1			
Indonesia	Jakarta	87.6	64.4	42.9	101	50.9	17.4	18.8	13.9	4.36	12.6	10.3	11.1	12.0	14.1	15.0
	Serpong	***	13.6	9.93	6.60	10.5	12.0	7.19	7.37	7.97	5.17	9.25	10.9	9.29	14.0	13.0
	Kototabang	3.97	1.43	4.92	5.53	6.98	3.38	5.19	4.70	4.86	5.47	4.77	5.90	7.85	9.55	3.93
	Bandung	***	24.2	17.1	10.9	18.3	15.9	14.8	9.50	11.3	15.3	13.5	20.9	13.3	19.6	22.8
	Maros									8.39	8.11	9.58	6.49	16.1	10.4	27.9
Japan	Rishiri	13.7	10.1	10.2	7.74	8.60	7.62	5.33	5.83	8.72	10.1	6.89	5.63	8.44	7.33	5.78
	Ochiishi				5.74	12.2	8.96	10.2	6.96	5.29	5.20	8.25	5.42	7.35	11.5	4.06
	Tappi	6.37	5.78	9.01	6.98	7.76	10.7	12.7	11.0	10.3	6.41	8.54	8.01	8.02	14.1	7.45
	Sado-seki	11.7	15.8	9.08	5.08	4.70	10.2	12.1	11.8	10.3	11.1	12.7	8.28	11.4	10.4	9.49
	Happo	3.88	4.31	2.00	1.92	2.36	4.15	6.28	2.91	2.70	4.66	2.40	2.57	4.14	2.77	2.31
	Ijira	6.77	5.62	4.18	2.88	2.31	2.82	2.89	3.63	2.20	2.74	2.48	1.97	2.50	2.74	1.65
	Oki	16.0	12.9	11.5	6.91	11.9	18.6	11.4	13.6	10.9	14.6	16.1	17.1	12.1	17.0	16.4
	Banryu	4.24	5.97	5.37	3.39	5.29	5.87	9.51	7.36	7.41	5.45	8.02	5.85	6.65	3.92	4.75
	Yusuhara	2.69	3.41	1.78	1.42	1.84	2.39	2.61	1.96	1.69	1.97	1.79	2.27	2.39	2.16	1.60
	Hedo	10.1	4.88	14.0	10.9	22.7	14.1	9.21	4.92	4.18	4.47	7.98	6.04	11.5	6.89	4.25
	Ogasawara	5.11	5.43	8.61	8.00	3.36	2.56	3.58	4.36	2.55	5.20	5.82	5.56	3.46	4.60	3.98
	Tokyo								4.99	4.09	3.42	3.98	4.84	4.21	4.35	3.81
Lao PDR	Vientiane				***	***	***	8.75	3.04	5.77	5.50	***	***	***	***	***
Malaysia	Petaling Jaya	6.84	6.30	7.44	7.83	5.05	6.07	3.80	3.94	3.94	4.97	5.40	3.97	3.96	6.13	6.02
	Tanah Rata	2.26	3.10	3.08	3.35	2.32	1.83	1.15	1.05	0.772	1.03	1.22	2.08	2.37	2.91	2.68
	Danum Valley						1.35	1.26	0.513	0.353	1.01	3.82	0.887	0.800	1.44	1.41
	Kuching									1.91	1.79	2.60	3.15	3.42	4.20	6.12
Mongolia	Ulaanbaatar	37.7	47.4	49.9	26.5	43.2	49.8	45.9	41.2	42.9	42.2	34.3	33.9	***	95.3	***
	Terelj	15.2	15.0	27.3	10.7	16.2	13.6	24.8	13.6	17.9	35.8	42.3	20.4	***	69.1	***
Myanmar	Yangon								***	***	9.66	6.37	6.89	7.79	1.07	14.1
Philippines	Metro Manila	14.5	71.6	8.71	8.76	11.1	10.6	13.7	10.4	13.7	6.41	12.8	12.9	13.9	11.5	14.5
	Los Baños	6.95	65.3	7.23	7.75	5.40	3.54	6.92	5.19	3.75	5.08	20.1	6.38	9.40	6.40	6.99
	Mt. Sto. Tomas							5.64	23.4	3.09	5.87	22.7	7.84	14.0	8.58	8.06
Republic of Korea	Kanghwa	26.5	14.0	11.1	11.3	14.0	11.1	15.8	12.4	10.8	5.19	7.02	4.39	8.64	8.72	8.94
	Cheju	13.8	5.89	9.37	8.10	7.70	11.3	9.05	10.6	10.5	4.08	6.72	6.60	11.2	13.6	4.12
	Imsil		5.85	9.84	5.39	6.76	5.00	14.7	13.7	6.92	3.88	5.74	6.81	4.31	2.95	3.50
Russia	Mondy	5.79	7.00	8.54	3.80	5.33	4.17	5.46	6.91	7.97	5.19	9.20	9.02	12.1	4.61	7.02
	Listvyanka	12.8	7.25	11.4	14.3	14.1	8.23	8.81	9.02	8.18	12.6	12.6	16.1	11.7	11.9	12.8
	Irkutsk	28.0	34.8	31.5	23.9	21.9	21.6	29.9	26.5	29.5	29.2	32.2	34.7	31.3	33.0	26.5
	Primorskaya			18.1	25.3	21.5	21.1	25.0	14.0	19.4	11.7	16.9	13.7	12.2	18.0	18.1
Thailand	Bangkok	11.4	12.0	15.7	11.9	11.0	18.6	18.4	13.6	16.1	10.0	11.2	10.5	13.5	25.2	14.5
	Samutprakarn	11.1				7.84	9.68	14.8	11.0	13.8	13.2	7.78	5.95	8.39	19.9	14.6
	Pathumthani	13.2	13.0	17.4	6.30	11.4	8.48	12.8	8.50	11.6	9.19	9.17	12.1	20.6	27.1	22.5
	Khanchanaburi	4.76	9.05	4.92	8.45	4.78	2.45	2.71	3.03	4.59	4.93	1.80	4.04	17.5	3.26	4.07
	Chiang Mai		6.95	18.0	5.72	4.77	3.75	4.74	8.03	6.68	5.69	4.40	2.60	7.77	10.6	9.72
	Nakhon Ratchasima							9.54	3.75	3.35	2.53	2.21	1.88	3.74	1.96	8.73
Vietnam	Hanoi	20.9	10.7	16.8	17.8	25.0	26.1	35.2	18.1	11.8	12.0	23.7	14.6	15.0	16.2	24.8
	Hoa Binh	13.1	10.4	12.6	12.0	19.9	14.3	17.8	9.33	14.5	9.44	21.1	12.5	11.1	16.9	13.4
	Cuc Phuong										24.8	38.3	32.2	30.6	24.4	23.1
	Da Nang										6.35	8.87	10.0	16.9	21.5	27.3
	Can Tho															12.8
	Ho Chi Minh															26.0

[***]: No data or not measured

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

Black cell: Monitoring was not carried out

Table 3.74 Precipitation amount-weighted annual average concentrations of nss-Ca^{2+} from 2000 to 2014

unit: μmol L^{-1}

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cambodia	Phnom Penh					***	***	9.07	19.1	32.5	20.3	8.26	9.23	10.7	9.50	9.31
China	Guanyinqiao	62.8	137	65.3	65.3	110	156	143	75.1							
	Nanshan	55.0														
	Haifu									65.2	43.2	69.0	68.2	57.7	69.3	54.5
	Jinyunshan		44.7	29.6	30.6	70.2	57.4	98.2	55.0	68.1	66.5	68.6	64.9	59.0	31.1	25.9
	Shizhan	228	672	474	257	147	107	300	116	149	138	105	90.8	128	322	90.0
	Weishuiyuan	303	1150	612	238	189	90.6	328								
	Jiwozi	123	425	273	227	87.4	128	220	345	264	93.2	40.6	91.4	202	130	146
	Hongwen	6.32	36.1	47.9	30.0	82.6	36.3	24.8	54.4	13.6	12.7	8.70	13.7	17.1	21.6	25.1
	Xiaoping	0.599	4.90	10.3	16.8	6.13	10.4	9.99	16.4	15.1	8.69	7.96	11.5	19.9	22.4	42.2
	Xiang Zhou	20.3	7.43	14.6	21.9	16.4	6.46	13.3	4.33	4.68	4.04	6.97	16.8	9.76	42.2	16.4
	Zhuxiandong	24.3	13.7	19.7	19.4	22.7	15.7	16.7	***	12.7	6.44	15.9	18.1			
Indonesia	Jakarta	86.4	63.5	42.2	101	50.2	16.9	18.5	13.6	4.14	12.4	10.2	10.8	11.7	13.8	14.5
	Serpong	***	13.1	9.40	6.38	10.1	11.7	7.03	7.19	7.75	5.03	9.07	10.7	9.05	13.7	12.6
	Kototabang	***	1.36	4.78	5.32	6.75	3.26	5.06	4.51	4.76	5.34	4.65	5.76	7.64	9.37	3.81
	Bandung	***	23.7	16.9	10.7	18.0	15.4	14.4	9.36	11.1	15.1	13.3	20.6	13.1	19.3	22.6
	Maros									8.05	7.83	9.30	6.17	15.7	9.98	27.2
Japan	Rishiri	6.68	5.53	5.91	3.98	3.66	3.27	2.99	2.76	3.40	6.39	3.44	2.63	2.20	3.06	2.31
	Ochiishi				1.60	4.48	4.44	4.30	2.96	1.66	1.38	3.25	2.11	1.50	2.42	1.96
	Tappi	3.20	3.01	5.49	3.94	3.52	6.15	6.50	6.01	6.09	2.26	6.16	4.87	4.44	8.53	4.17
	Sado-seki	6.18	8.32	3.39	3.06	1.88	3.90	7.28	6.87	5.67	4.20	5.94	4.99	6.19	3.83	3.47
	Happo	3.71	4.18	1.92	1.81	2.24	4.00	6.19	2.85	2.61	4.55	2.32	2.49	3.93	2.69	2.20
	Ijira	6.34	4.97	3.57	2.60	1.87	2.53	2.65	3.18	1.87	2.46	2.21	1.70	2.09	2.43	1.34
	Oki	7.50	6.10	3.91	2.85	5.51	5.51	6.85	7.68	3.94	6.44	7.24	6.73	4.40	6.12	4.63
	Banryu	3.67	4.29	3.66	1.65	2.86	3.89	8.08	5.66	5.85	3.32	5.99	3.52	4.66	2.42	2.87
	Yusuhara	2.43	3.21	1.24	1.14	1.32	1.85	2.35	1.67	1.51	1.71	1.65	2.04	2.00	1.95	1.49
	Hedo	0.807	1.71	2.89	3.48	4.30	4.39	5.15	2.13	1.50	1.75	2.50	1.63	2.44	1.99	1.29
	Ogasawara	2.14	3.19	3.58	2.63	1.04	0.575	1.37	1.50	0.862	1.16	1.35	1.20	1.01	1.56	1.15
	Tokyo								4.24	3.67	2.91	3.60	4.03	3.57	3.86	3.40
Lao PDR	Vientiane				***	***	***	8.59	2.99	5.70	5.30	***	***	***	***	***
Malaysia	Petaling Jaya	6.73	6.22	7.33	7.71	4.93	5.93	3.71	3.86	3.85	4.87	5.29	3.87	3.88	6.04	5.91
	Tanah Rata	2.21	3.06	3.04	3.31	2.28	1.70	1.12	1.02	0.753	1.01	1.19	2.04	2.33	2.87	2.63
	Danum Valley						1.26	1.16	0.453	0.315	0.919	3.59	0.794	0.750	1.34	1.32
	Kuching									1.81	1.66	2.45	2.95	3.32	4.04	5.93
Mongolia	Ulaanbaatar	37.6	47.2	49.8	26.4	43.0	49.6	45.7	41.1	42.9	42.1	34.2	33.8	***	93.6	***
	Terelj	15.1	14.6	26.3	10.6	16.1	13.3	24.5	13.4	17.7	35.6	42.1	20.2	***	68.8	***
Myanmar	Yangon								***	***	9.26	6.09	6.57	7.32	0.792	13.8
Philippines	Metro Manila	13.9	67.2	8.40	8.40	10.8	10.3	13.3	9.96	13.2	5.98	12.3	12.4	13.5	10.9	14.0
	Los Baños	6.20	64.5	6.77	7.46	5.14	3.18	6.43	4.82	3.34	4.71	19.7	5.96	8.92	5.94	6.67
	Mt. Sto. Tomas							5.58	23.3	2.98	5.69	22.5	7.75	13.8	8.43	7.92
Republic of Korea	Kanghwa	25.3	13.1	10.0	10.8	13.3	10.3	15.2	11.5	10.0	4.23	6.44	3.66	7.54	8.09	8.13
	Cheju	10.5	4.30	8.15	7.09	6.45	9.45	7.21	8.43	7.63	3.03	4.70	3.72	3.15	7.33	1.79
	Imsil		5.51	9.00	4.89	6.37	4.53	14.0	13.3	6.23	2.83	4.79	6.02	3.40	2.29	2.90
Russia	Mondy	5.75	6.95	8.50	3.75	5.29	4.14	5.43	6.84	7.93	5.14	9.14	8.94	12.1	4.58	6.97
	Listvyanka	12.7	7.18	11.3	14.1	14.0	8.16	8.76	8.96	8.12	12.5	12.5	16.0	11.7	11.7	12.7
	Irkutsk	27.8	34.6	31.3	23.7	21.7	21.4	29.7	26.3	29.2	28.8	31.8	34.4	31.1	32.7	26.3
	Primorskaya			17.6	24.6	21.0	20.7	24.7	13.5	18.9	11.4	16.3	13.4	11.7	17.4	17.7
Thailand	Bangkok	11.2	11.8	15.4	11.7	10.7	18.4	18.2	13.5	15.9	9.81	11.1	10.4	13.3	25.0	14.3
	Samutprakarn	10.8				7.48	9.25	14.5	10.7	13.5	13.0	7.38	5.83	8.22	19.3	14.3
	Pathumthani	12.9	12.8	17.2	6.20	11.2	8.34	12.7	8.38	11.5	9.07	9.03	12.0	20.3	27.0	22.4
	Khanchanaburi	4.56	8.81	4.74	8.22	4.59	2.31	2.56	2.88	4.39	4.72	1.73	3.88	17.3	3.14	3.93
	Chiang Mai		6.86	17.8	5.65	4.71	3.73	4.68	7.97	6.63	5.63	4.36	2.54	7.69	10.4	9.64
	Nakhon Ratchasima							9.45	3.66	3.26	2.48	2.15	1.81	3.66	1.90	8.57
Vietnam	Hanoi	20.5	10.4	16.7	17.6	24.8	25.7	35.0	17.9	11.6	11.8	23.5	14.5	15.0	16.1	24.6
	Hoa Binh	12.8	10.2	12.6	11.9	19.8	14.1	17.7	9.26	14.4	9.37	21.0	12.5	11.0	16.9	13.3
	Cuc Phuong										24.6	38.0	32.0	30.2	23.8	22.8
	Da Nang										4.31	7.98	8.50	15.5	18.4	25.5
	Can Tho															12.4
	Ho Chi Minh															25.4

[***]: No data or not measured

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

Black cell: Monitoring was not carried out

Table 3.75 Precipitation amount-weighted annual average concentrations of Mg^{2+} from 2000 to 2014

unit: μmol L^{-1}

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cambodia	Phnom Penh					<0.4	***	0.661	3.27	3.45	2.00	0.717	1.22	1.22	1.12	1.63
China	Guanyinqiao	8.54	11.6	6.00	4.46	9.12	12.7	12.6	8.04							
	Nanshan	7.05														
	Haifu									7.08	5.45	8.95	8.61	6.87	8.23	7.00
	Jinyunshan		5.76	3.37	2.89	3.55	3.17	4.00	2.81	4.64	5.56	5.76	6.13	5.82	4.42	4.37
	Shizhan	23.6	48.5	67.9	33.5	15.3	13.2	28.3	21.4	45.4	12.4	11.0	9.94	3.47	54.5	11.8
	Weishuiyuan	31.7	88.4	91.1	40.0	19.3	10.9	42.0								
	Jiwozi	14.6	41.1	50.1	33.9	16.6	30.9	40.6	48.8	77.3	20.2	7.17	9.65	44.4	22.3	21.6
	Hongwen	4.22	6.30	9.64	5.96	11.4	9.04	5.44	6.18	4.92	4.08	2.00	4.22	4.69	3.36	4.27
	Xiaoping	1.32	2.50	1.61	4.04	1.44	1.15	2.77	2.06	3.39	3.24	1.89	2.21	3.45	4.03	3.65
	Xiang Zhou	6.95	2.93	5.52	7.15	6.35	6.87	12.0	2.38	3.97	4.52	2.57	4.39	6.90	14.0	7.21
	Zhuxiandong	7.91	3.33	7.08	7.37	8.49	9.08	4.99	***	5.70	6.15	2.86	6.75			
Indonesia	Jakarta	219	69.0	13.1	12.7	6.30	3.63	8.59	2.21	1.67	1.97	2.23	3.45	2.96	2.62	3.64
	Serpong	***	3.53	4.52	2.69	3.99	3.74	1.73	2.65	4.12	1.36	3.09	3.12	2.01	3.86	3.23
	Kototabang	***	1.04	2.58	6.76	1.78	0.939	2.26	3.81	1.000	1.10	1.55	0.950	1.40	2.40	0.908
	Bandung	***	4.07	1.64	1.70	3.28	2.45	3.26	1.68	4.40	4.13	4.43	5.78	3.17	6.33	7.51
	Maros									2.56	1.86	2.17	2.50	7.03	2.81	13.6
Japan	Rishiri	36.3	24.8	22.3	20.3	26.4	23.3	12.6	17.0	30.0	19.9	18.6	15.4	32.3	22.5	18.1
	Ochiishi				22.1	42.2	22.2	31.2	21.5	19.8	19.9	28.6	18.5	30.6	48.2	11.1
	Tappi	17.5	15.5	19.6	16.8	23.4	24.2	33.3	26.4	23.1	21.1	12.9	17.4	15.4	30.0	18.1
	Sado-seki	29.0	40.5	30.7	11.3	15.6	33.0	25.9	26.1	23.5	36.2	37.7	19.0	29.4	36.9	32.5
	Happo	1.67	1.59	0.926	1.25	1.26	1.20	0.958	0.676	0.697	1.16	0.810	0.896	2.30	1.37	1.27
	Ijira	2.89	3.99	3.53	2.16	2.75	1.75	1.64	2.75	1.74	1.67	1.62	1.69	2.54	2.09	1.97
	Oki	45.0	36.6	40.6	21.2	34.4	69.9	26.9	31.7	36.7	43.1	48.1	55.5	41.2	56.1	60.6
	Banryu	3.33	9.11	9.30	9.29	13.2	10.8	8.34	9.85	8.91	11.8	12.1	12.8	11.2	8.50	10.8
	Yusuhara	2.18	1.83	3.55	1.83	2.86	3.04	1.66	1.80	1.11	1.61	1.56	2.56	2.84	2.40	1.82
	Hedo	50.0	16.9	59.0	49.3	91.0	47.3	21.8	14.8	14.2	14.5	29.2	23.2	47.9	25.7	15.6
	Ogasawara	19.2	13.3	32.4	31.1	13.0	10.7	11.4	15.0	10.6	21.9	24.5	23.6	13.6	17.0	15.2
	Tokyo								4.22	2.78	2.97	2.40	4.79	3.78	3.04	2.54
Lao PDR	Vientiane				***	***	***	3.49	0.698	1.31	0.722	***	***	***	***	***
Malaysia	Petaling Jaya	1.39	1.30	1.43	0.707	0.888	0.842	0.710	<0.4	0.520	0.467	0.698	0.579	0.497	0.686	1.10
	Tanah Rata	0.415	0.406	0.422	0.451	<0.4	0.492	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	0.333
	Danum Valley						<0.4	0.481	0.402	0.528	0.549	1.48	0.541	<0.4	0.430	0.552
	Kuching									<0.4	<0.4	0.457	0.745	<0.4	0.588	1.12
Mongolia	Ulaanbaatar	4.14	5.41	3.56	3.69	5.86	5.21	4.39	4.75	3.67	5.32	2.98	9.23	***	3.74	***
	Terelj	3.16	2.53	4.09	2.26	5.15	3.67	4.85	2.07	3.00	5.45	5.54	7.35	***	4.97	***
Myanmar	Yangon								***	***	2.84	1.80	3.02	6.56	12.3	3.41
Philippines	Metro Manila	6.32	15.0	3.27	2.99	4.38	2.46	5.46	4.13	4.64	2.56	9.12	7.13	6.53	4.54	4.64
	Los Baños	3.71	11.1	2.94	2.60	3.59	2.34	3.44	3.46	4.65	3.73	8.20	4.76	4.26	3.25	3.32
	Mt. Sto. Tomas							0.971	2.08	<0.4	1.53	3.34	1.61	2.90	1.69	1.35
Republic of Korea	Kanghwa	9.31	5.26	6.34	2.86	5.49	6.20	5.10	6.74	2.75	5.27	3.64	3.18	5.50	3.30	3.27
	Cheju	18.6	9.96	7.48	5.86	7.27	15.0	9.59	7.30	9.68	6.02	6.90	10.5	34.5	25.6	7.85
	Imsil		1.92	3.31	1.60	2.39	1.82	3.99	3.57	1.99	3.88	4.68	2.02	3.05	1.87	1.77
Russia	Mondy	1.09	1.46	2.20	0.775	1.27	0.961	0.986	1.78	1.98	1.17	1.81	2.60	4.06	0.877	1.18
	Listvyanka	2.94	1.78	3.04	3.65	3.20	1.58	1.71	1.85	1.76	2.84	2.97	3.12	2.53	2.92	2.37
	Irkutsk	4.99	5.55	5.66	4.32	4.77	5.08	5.76	6.27	6.44	7.55	6.75	7.29	6.49	6.38	3.68
	Primorskaya			5.66	11.2	7.05	5.67	5.50	4.30	6.26	3.11	4.27	4.29	4.43	4.89	6.21
Thailand	Bangkok	2.01	3.16	3.54	2.33	2.13	3.78	2.34	1.68	2.34	1.49	1.52	1.25	1.35	2.63	2.37
	Samutprakarn	2.39				1.87	3.43	4.63	2.69	3.99	2.80	2.20	1.20	1.53	4.46	3.12
	Pathumthani	2.41	2.17	2.77	1.06	1.58	1.31	1.76	1.28	1.70	1.24	1.38	1.57	3.14	2.59	1.91
	Khanchanaburi	1.67	2.52	1.75	2.23	1.64	1.13	0.983	0.997	1.61	1.44	0.575	1.27	2.76	1.03	1.32
	Chiang Mai		1.10	3.54	2.08	1.82	1.00	2.42	1.24	1.78	2.73	0.451	<0.4	0.842	1.50	1.91
	Nakhon Ratchasima							1.98	1.78	1.22	1.27	0.703	<0.4	0.423	<0.4	1.31
Vietnam	Hanoi	4.99	3.97	2.95	3.64	3.80	8.64	8.55	4.17	3.65	4.78	5.68	4.08	2.15	2.79	3.51
	Hoa Binh	4.67	3.71	1.42	2.14	2.52	4.21	5.28	2.76	1.60	1.85	5.56	2.39	2.17	2.69	2.72
	Cuc Phuong										4.37	4.41	4.78	7.07	12.2	4.88
	Da Nang										10.2	8.52	9.42	9.19	18.8	10.8
	Can Tho															4.45
	Ho Chi Minh															8.73

[***]: No data or not measured

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

Black cell: Monitoring was not carried out

Table 3.76 Precipitation amount-weighted annual average concentrations of H^+ from 2000 to 2014

unit: μmol L^{-1}

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cambodia	Phnom Penh					4.79	0.478	0.191	0.203	1.45	0.649	1.07	1.10	0.694	0.662	0.621
China	Guanyinqiao	46.7	16.1	25.2	32.2	25.9	11.2	13.7	22.6							
	Nanshan	60.5														
	Haifu									63.5	60.3	71.0	65.9	57.5	30.1	12.1
	Jinyunshan		65.4	43.6	50.3	25.9	23.7	20.4	30.0	44.0	47.1	115	90.9	81.5	63.3	41.2
	Shizhan	2.09	0.420	0.576	1.00	0.505	3.86	2.75	3.03	0.402	0.297	0.211	0.535	0.552	0.117	0.247
	Weishuiyuan	0.381	0.484	0.931	0.784	1.05	7.04	1.46								
	Jiwozi	3.79	0.573	0.999	0.890	0.776	0.627	1.36	0.143	0.114	0.794	2.91	1.13	0.076	0.635	0.104
	Hongwen	19.1	29.6	16.2	34.4	19.4	19.9	14.7	16.2	25.7	30.2	26.6	22.5	30.9	13.2	8.39
	Xiaoping	12.2	12.6	33.6	41.4	24.6	16.5	16.5	25.4	27.9	34.1	26.5	15.3	15.7	9.92	19.6
	Xiang Zhou	7.00	11.4	7.83	7.87	16.5	27.3	13.4	23.3	11.7	13.4	14.1	8.81	7.73	5.83	9.91
	Zhuxiandong	23.0	16.7	12.8	7.88	23.2	24.4	15.0	***	13.1	17.7	11.3	16.7			
Indonesia	Jakarta	6.57	3.79	16.9	6.96	20.4	49.1	41.5	27.5	22.5	23.5	18.6	28.2	17.4	16.9	19.6
	Serpong	***	23.7	22.6	24.1	20.8	25.6	25.0	25.8	23.9	19.3	17.5	19.7	12.4	8.63	7.23
	Kototabang	31.2	8.53	4.89	5.00	18.5	20.9	29.4	5.31	6.00	22.6	16.0	9.22	9.75	10.6	15.2
	Bandung	***	10.1	34.9	10.0	9.30	9.33	7.00	11.8	6.81	4.99	7.99	4.00	3.48	4.01	6.14
	Maros									2.35	4.64	6.16	4.43	2.41	3.41	5.88
Japan	Rishiri	15.7	16.8	15.0	13.3	14.4	18.4	21.5	26.3	12.3	18.3	18.7	20.1	20.2	21.2	18.6
	Ochiishi				12.2	20.7	14.6	13.8	16.7	13.5	9.64	14.8	13.1	15.2	9.38	7.82
	Tappi	19.0	23.0	20.9	27.0	25.4	24.9	26.5	23.8	26.0	18.2	20.4	24.6	20.5	16.0	21.9
	Sado-seki	26.9	23.2	22.7	21.5	19.7	27.6	19.7	31.4	27.9	17.7	19.8	20.8	18.6	18.2	19.7
	Happo	18.6	14.6	11.8	12.4	13.9	15.9	10.7	16.2	14.7	10.7	8.00	9.15	13.3	10.0	9.77
	Ijira	30.1	37.1	30.4	38.7	22.1	30.9	31.0	29.3	35.7	23.0	17.3	18.0	20.5	17.9	19.3
	Oki	22.8	17.0	18.6	17.5	15.9	27.4	18.7	23.1	25.0	19.4	21.8	18.8	26.4	24.6	22.2
	Banryu	22.9	21.9	20.4	23.3	19.9	32.7	20.5	32.3	29.3	22.1	19.8	21.8	33.5	22.8	27.9
	Yusuhara	19.5	14.9	17.4	18.4	10.6	22.8	14.4	15.3	21.6	17.2	16.2	11.7	16.8	16.7	13.2
	Hedo	7.38	10.9	11.3	12.5	16.5	14.7	10.1	10.2	10.0	7.81	6.34	12.5	7.49	10.9	9.55
	Ogasawara	5.91	8.07	8.21	9.10	7.48	15.4	10.1	9.38	10.0	6.79	5.68	4.98	4.63	5.65	8.38
	Tokyo								16.3	24.8	17.7	11.2	14.9	14.4	8.83	14.8
Lao PDR	Vientiane				0.313	2.26	0.481	0.325	2.16	0.987	3.31	***	***	0.351	***	0.288
Malaysia	Petaling Jaya	44.9	56.0	58.8	52.1	47.3	43.1	37.8	27.6	37.2	45.2	54.4	69.4	61.4	38.0	38.2
	Tanah Rata	16.1	12.7	10.8	12.7	13.7	14.3	11.3	11.1	8.01	8.31	8.64	9.76	10.9	11.2	13.9
	Danum Valley						10.5	8.93	8.03	6.02	6.00	5.99	6.20	6.58	5.33	4.87
	Kuching									5.55	5.47	5.25	3.73	4.84	5.17	4.60
Mongolia	Ulaanbaatar	0.550	0.643	0.419	1.90	0.347	1.02	0.354	0.550	0.521	0.777	1.33	3.64	1.31	1.04	***
	Terelj	3.02	0.913	1.77	3.96	1.64	5.44	6.89	6.04	3.72	0.608	2.44	5.47	1.81	12.3	***
Myanmar	Yangon								2.66	0.392	0.346	0.384	0.347	0.323	0.352	0.199
Philippines	Metro Manila	3.28	3.87	8.11	36.2	6.64	11.3	5.01	5.33	2.84	5.87	2.25	2.27	6.03	2.85	0.736
	Los Baños	3.64	2.98	1.81	32.5	5.47	7.27	2.44	2.91	11.2	2.64	1.32	2.70	2.19	1.41	1.61
	Mt. Sto. Tomas							0.475	2.97	3.22	1.47	0.201	4.46	1.12	5.18	0.724
Republic of Korea	Kanghwa	10.0	10.2	22.2	21.3	27.2	56.9	21.0	24.0	28.4	25.9	39.0	23.0	24.4	26.3	13.4
	Cheju	14.1	12.9	24.3	15.0	18.2	28.5	45.9	30.7	21.5	7.79	9.19	6.80	4.95	4.18	1.61
	Imsil		8.05	2.02	8.34	11.8	0.997	6.45	1.85	13.1	8.06	13.5	5.42	7.82	6.01	5.17
Russia	Mondy	5.50	3.15	4.06	4.47	4.57	4.34	4.08	3.03	6.72	3.33	2.80	2.90	2.37	4.83	4.65
	Listvyanka	8.57	11.0	13.2	9.71	12.1	14.7	22.8	21.6	23.2	14.4	17.6	18.8	16.7	15.9	12.6
	Irkutsk	7.76	5.31	9.44	4.24	12.2	7.61	7.04	11.7	17.1	3.89	7.41	9.51	11.6	9.81	8.65
	Primorskaya			6.30	13.2	14.5	8.67	15.0	14.5	16.3	10.5	10.7	23.4	8.55	8.80	3.41
Thailand	Bangkok	11.1	10.7	7.90	29.5	6.49	12.7	6.91	8.96	5.29	8.07	8.48	8.97	2.08	2.52	0
	Samutprakarn	14.8				3.41	3.42	1.36	2.46	5.08	7.40	4.82	1.27	0.679	1.06	0.310
	Pathumthani	5.66	7.42	4.64	13.7	13.6	12.9	13.0	15.6	9.24	7.05	5.82	9.99	3.60	3.90	3.09
	Khanchanaburi	2.73	5.47	2.30	3.47	0.847	2.87	1.78	1.66	2.19	2.18	2.03	3.21	0.964	4.72	1.61
	Chiang Mai		1.94	1.89	2.47	2.54	5.94	2.00	1.12	1.04	1.20	0.676	5.14	0.789	0.909	0.527
	Nakhon Ratchasima							7.61	8.30	9.31	13.6	17.8	9.95	8.58	5.70	15.0
Vietnam	Hanoi	3.57	1.47	2.79	1.55	2.26	0.710	1.85	2.61	1.43	2.15	1.16	5.03	2.39	2.21	1.83
	Hoa Binh	7.79	9.09	6.50	4.15	2.52	2.03	2.57	8.71	3.25	5.13	4.26	3.65	2.35	0.911	3.60
	Cuc Phuong										10.3	5.88	9.09	3.68	3.77	3.00
	Da Nang										16.8	7.71	10.4	3.66	2.62	3.01
	Can Tho															0.550
	Ho Chi Minh															1.42

[***]: No data or not measured

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

Black cell: Monitoring was not carried out

Table 3.77 Precipitation amount-weighted annual average pH from 2000 to 2014

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cambodia	Phnom Penh					5.32	6.32	6.72	6.69	5.84	6.19	5.97	5.96	6.16	6.18	6.21
China	Guanyinqiao	4.33	4.79	4.60	4.49	4.59	4.95	4.86	4.65							
	Nanshan	4.22														
	Haifu									4.20	4.22	4.15	4.18	4.24	4.52	4.92
	Jinyunshan		4.18	4.36	4.30	4.59	4.62	4.69	4.52	4.36	4.33	3.94	4.04	4.09	4.20	4.39
	Shizhan	5.68	6.38	6.24	6.00	6.30	5.41	5.56	5.52	6.40	6.53	6.68	6.27	6.26	6.93	6.61
	Weishuiyuan	6.42	6.32	6.03	6.11	5.98	5.15	5.84								
	Jiwozi	5.42	6.24	6.00	6.05	6.11	6.20	5.87	6.85	6.94	6.10	5.54	5.95	7.12	6.20	6.98
	Hongwen	4.72	4.53	4.79	4.46	4.71	4.70	4.83	4.79	4.59	4.52	4.57	4.65	4.51	4.88	5.08
	Xiaoping	4.91	4.90	4.47	4.38	4.61	4.78	4.78	4.60	4.55	4.47	4.58	4.82	4.80	5.00	4.71
	Xiang Zhou	5.15	4.94	5.11	5.10	4.78	4.56	4.87	4.63	4.93	4.87	4.85	5.05	5.11	5.23	5.00
	Zhuxiandong	4.64	4.78	4.89	5.10	4.63	4.61	4.82	***	4.88	4.75	4.95	4.78			
Indonesia	Jakarta	5.18	5.42	4.77	5.16	4.69	4.31	4.38	4.56	4.65	4.63	4.73	4.55	4.76	4.77	4.71
	Serpong	***	4.63	4.65	4.62	4.68	4.59	4.60	4.59	4.62	4.71	4.76	4.70	4.91	5.06	5.14
	Kototabang	4.51	5.07	5.31	5.30	4.73	4.68	4.53	5.27	5.22	4.65	4.80	5.04	5.01	4.97	4.82
	Bandung	***	4.99	4.46	5.00	5.03	5.03	5.15	4.93	5.17	5.30	5.10	5.40	5.46	5.40	5.21
	Maros									5.63	5.33	5.21	5.35	5.62	5.47	5.23
Japan	Rishiri	4.80	4.77	4.82	4.88	4.84	4.74	4.67	4.58	4.91	4.74	4.73	4.70	4.70	4.67	4.73
	Ochiishi				4.91	4.68	4.84	4.86	4.78	4.87	5.02	4.83	4.88	4.82	5.03	5.11
	Tappi	4.72	4.64	4.68	4.57	4.59	4.60	4.58	4.62	4.59	4.74	4.69	4.61	4.69	4.80	4.66
	Sado-seki	4.57	4.63	4.64	4.67	4.70	4.56	4.70	4.50	4.55	4.75	4.70	4.68	4.73	4.74	4.70
	Happo	4.73	4.84	4.93	4.91	4.86	4.80	4.97	4.79	4.83	4.97	5.10	5.04	4.88	5.00	5.01
	Ijira	4.52	4.43	4.52	4.41	4.65	4.51	4.51	4.53	4.45	4.64	4.76	4.75	4.69	4.75	4.71
	Oki	4.64	4.77	4.73	4.76	4.80	4.56	4.73	4.64	4.60	4.71	4.66	4.73	4.58	4.61	4.65
	Banryu	4.64	4.66	4.69	4.63	4.70	4.49	4.69	4.49	4.53	4.66	4.70	4.66	4.48	4.64	4.55
	Yusuhara	4.71	4.83	4.76	4.73	4.97	4.64	4.84	4.81	4.67	4.77	4.79	4.93	4.77	4.78	4.88
	Hedo	5.13	4.96	4.95	4.90	4.78	4.83	4.99	4.99	5.00	5.11	5.20	4.90	5.13	4.96	5.02
	Ogasawara	5.23	5.09	5.09	5.04	5.13	4.81	4.99	5.03	5.00	5.17	5.25	5.30	5.33	5.25	5.08
	Tokyo								4.79	4.60	4.75	4.95	4.83	4.84	5.05	4.83
Lao PDR	Vientiane				6.51	5.65	6.32	6.49	5.67	6.01	5.48	***	***	6.46	***	6.54
Malaysia	Petaling Jaya	4.35	4.25	4.23	4.28	4.33	4.37	4.42	4.56	4.43	4.35	4.26	4.16	4.21	4.42	4.42
	Tanah Rata	4.79	4.90	4.97	4.90	4.86	4.84	4.95	4.95	5.10	5.08	5.06	5.01	4.96	4.95	4.86
	Danum Valley						4.98	5.05	5.10	5.22	5.22	5.22	5.21	5.18	5.27	5.31
	Kuching									5.26	5.26	5.28	5.43	5.32	5.29	5.34
Mongolia	Ulaanbaatar	6.26	6.19	6.38	5.72	6.46	5.99	6.45	6.26	6.28	6.11	5.88	5.44	5.88	5.98	***
	Terelj	5.52	6.04	5.75	5.40	5.78	5.26	5.16	5.22	5.43	6.22	5.61	5.26	5.74	4.91	***
Myanmar	Yangon								5.57	6.41	6.46	6.42	6.46	6.49	6.45	6.70
Philippines	Metro Manila	5.48	5.41	5.09	4.44	5.18	4.95	5.30	5.27	5.55	5.23	5.65	5.64	5.22	5.55	6.13
	Los Baños	5.44	5.53	5.74	4.49	5.26	5.14	5.61	5.54	4.95	5.58	5.88	5.57	5.66	5.85	5.79
	Mt. Sto. Tomas							6.32	5.53	5.49	5.83	6.70	5.35	5.95	5.29	6.14
Republic of Korea	Kanghwa	5.00	4.99	4.65	4.67	4.57	4.25	4.68	4.62	4.55	4.59	4.41	4.64	4.61	4.58	4.87
	Cheju	4.85	4.89	4.61	4.83	4.74	4.55	4.34	4.51	4.67	5.11	5.04	5.17	5.31	5.38	5.79
	Imsil		5.09	5.69	5.08	4.93	6.00	5.19	5.73	4.88	5.09	4.87	5.27	5.11	5.22	5.29
Russia	Mondy	5.26	5.50	5.39	5.35	5.34	5.36	5.39	5.52	5.17	5.48	5.55	5.54	5.62	5.32	5.33
	Listvyanka	5.07	4.96	4.88	5.01	4.92	4.83	4.64	4.67	4.63	4.84	4.76	4.73	4.78	4.80	4.90
	Irkutsk	5.11	5.28	5.02	5.37	4.91	5.12	5.15	4.93	4.77	5.41	5.13	5.02	4.93	5.01	5.06
	Primorskaya			5.20	4.88	4.84	5.06	4.83	4.84	4.79	4.98	4.97	4.63	5.07	5.06	5.47
Thailand	Bangkok	4.95	4.97	5.10	4.53	5.19	4.89	5.16	5.05	5.28	5.09	5.07	5.05	5.68	5.60	7.03
	Samutprakarn	4.83				5.47	5.47	5.87	5.61	5.29	5.13	5.32	5.90	6.17	5.98	6.51
	Pathumthani	5.25	5.13	5.33	4.86	4.87	4.89	4.89	4.81	5.03	5.15	5.24	5.00	5.44	5.41	5.51
	Khanchanaburi	5.56	5.26	5.64	5.46	6.07	5.54	5.75	5.78	5.66	5.66	5.69	5.49	6.02	5.33	5.79
	Chiang Mai		5.71	5.72	5.61	5.59	5.23	5.70	5.95	5.98	5.92	6.17	5.29	6.10	6.04	6.28
	Nakhon Ratchasima							5.12	5.08	5.03	4.87	4.75	5.00	5.07	5.24	4.82
Vietnam	Hanoi	5.45	5.83	5.55	5.81	5.65	6.15	5.73	5.58	5.84	5.67	5.93	5.30	5.62	5.66	5.74
	Hoa Binh	5.11	5.04	5.19	5.38	5.60	5.69	5.59	5.06	5.49	5.29	5.37	5.44	5.63	6.04	5.44
	Cuc Phuong										4.99	5.23	5.04	5.43	5.42	5.52
	Da Nang										4.77	5.11	4.98	5.44	5.58	5.52
	Can Tho															6.26
	Ho Chi Minh															5.85

[***]: No data or not measured

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

Black cell: Monitoring was not carried out

Table 3.78 Precipitation amount-weighted annual average EC from 2000 to 2014

unit: mS m^{-1}

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cambodia	Phnom Penh					1.17	0.807	1.17	1.37	1.53	0.880	0.747	0.820	0.704	0.665	0.676
China	Guanyinqiao	5.61	7.00	4.36	4.89	5.82	6.70	6.70	5.01							
	Nanshan	5.20														
	Haifu									6.46	5.14	6.71	6.55	5.33	5.26	3.94
	Jinyunshan		6.23	3.69	4.19	4.35	4.23	5.45	3.76	5.13	5.27	8.07	7.09	6.56	4.81	3.65
	Shizhan	11.4	19.5	16.1	7.50	6.47	5.18	9.81	7.21	7.96	5.80	5.63	4.31	6.51	6.97	4.37
	Weishuiyuan	15.1	27.7	21.7	7.80	8.55	4.61	13.4								
	Jiwozi	7.71	9.65	4.02	5.19	2.91	5.82	6.95	10.3	8.46	3.73	1.67	3.04	5.39	3.61	4.29
	Hongwen	1.66	3.87	2.64	2.88	3.41	2.63	2.31	2.68	2.15	2.25	2.05	2.18	2.67	1.63	1.89
	Xiaoping	0.879	1.44	1.60	2.15	1.97	1.91	2.19	2.01	2.09	2.26	2.06	1.82	1.67	1.46	2.15
	Xiang Zhou	2.05	1.95	3.20	2.19	2.37	2.41	2.20	1.99	1.84	1.99	1.74	1.84	1.76	1.15	1.94
	Zhuxiandong	3.04	2.08	3.63	2.42	3.15	2.49	2.67	***	1.94	2.15	1.37	1.99			
Indonesia	Jakarta	5.06	26.4	2.97	4.78	3.69	3.37	1.92	2.23	1.78	1.66	1.90	2.17	1.39	1.59	1.67
	Serpong	***	2.94	1.87	2.26	2.25	2.63	2.10	2.14	2.10	1.66	1.95	2.31	2.05	2.16	1.89
	Kototabang	0.997	0.427	4.94	1.96	1.11	0.843	0.881	0.816	0.556	0.766	0.903	0.742	0.791	0.927	1.10
	Bandung	3.37	2.08	1.68	1.50	1.80	1.75	1.69	1.64	1.58	1.62	1.43	1.90	1.60	1.86	2.14
	Maros									0.623	1.06	0.718	0.576	0.885	0.970	1.00
Japan	Rishiri	6.37	4.51	4.23	3.80	4.72	4.46	3.04	3.72	4.86	4.10	3.77	3.50	5.54	4.25	3.56
	Ochiishi				3.45	6.72	4.01	5.00	3.69	3.33	3.31	4.65	3.28	4.96	7.10	2.14
	Tappi	3.69	3.52	3.89	3.74	4.57	4.18	5.98	4.92	4.32	3.78	2.80	3.64	3.45	4.76	3.62
	Sado-seki	4.76	5.64	4.99	2.65	3.10	5.05	3.81	4.92	4.28	5.65	5.08	3.57	4.88	5.98	5.58
	Happo	1.22	0.965	0.667	0.692	0.915	1.10	0.840	1.08	1.03	0.860	0.597	0.666	1.07	0.764	0.744
	Ijira	2.11	2.44	2.18	2.12	1.62	2.11	2.15	2.05	2.18	1.65	1.33	1.46	1.65	1.42	1.47
	Oki	7.28	5.90	6.59	3.82	5.86	11.3	4.77	5.91	6.60	7.16	7.56	8.76	6.72	9.41	9.58
	Banryu	1.82	2.52	2.56	2.56	3.02	3.50	2.54	3.36	3.10	3.02	2.88	3.13	3.44	2.48	3.11
	Yusuhara	1.17	0.981	1.42	1.16	1.03	1.59	1.08	1.06	1.14	1.15	1.06	0.870	1.24	1.06	0.789
	Hedo	7.21	2.95	8.85	7.10	14.2	7.10	3.58	2.54	2.61	2.44	4.59	3.87	7.27	4.24	2.68
	Ogasawara	2.59	2.20	3.95	4.31	2.29	2.33	2.14	2.59	1.86	3.27	3.58	3.70	2.26	2.86	2.62
	Tokyo								1.80	1.96	1.66	1.18	1.88	1.75	1.33	1.46
Lao PDR	Vientiane				2.07	2.65	1.01	0.764	0.396	0.644	0.534	***	***	0.411	***	0.867
Malaysia	Petaling Jaya	2.08	2.13	2.81	2.32	2.26	2.12	1.81	1.40	1.98	2.46	2.90	3.43	3.10	2.43	2.50
	Tanah Rata	0.725	0.543	0.594	0.613	0.763	0.684	0.510	0.506	0.471	0.544	0.550	0.822	0.780	0.734	0.875
	Danum Valley						0.562	0.465	0.347	0.461	0.445	0.552	0.440	0.416	0.410	0.419
	Kuching									0.443	0.521	0.500	0.547	0.489	0.549	1.02
Mongolia	Ulaanbaatar	1.79	1.91	2.20	1.56	1.68	1.87	1.92	2.18	1.92	1.76	1.53	1.74	1.71	2.54	***
	Terelj	1.28	0.933	1.93	1.05	1.12	1.18	1.95	2.02	1.34	2.06	1.88	1.54	1.33	1.94	***
Myanmar	Yangon								0.595	0.949	1.54	1.34	0.682	1.30	0.813	0.914
Philippines	Metro Manila	2.20	6.49	1.85	1.36	1.48	1.66	1.66	1.40	2.88	1.24	1.89	3.76	4.81	1.53	1.92
	Los Baños	1.13	2.08	1.22	1.99	0.801	1.01	1.08	0.859	1.76	0.802	1.22	1.18	1.74	1.02	1.45
	Mt. Sto. Tomas							0.221	1.03	0.347	0.495	0.533	0.355	0.500	0.558	0.460
Republic of Korea	Kanghwa	2.50	1.98	2.68	2.54	3.25	4.14	2.75	3.49	2.72	2.88	2.46	2.34	2.76	2.66	2.41
	Cheju	3.37	2.56	3.03	2.22	2.45	3.43	3.64	3.43	3.47	2.20	2.32	3.07	7.05	5.55	2.42
	Imsil		1.31	1.80	1.42	1.42	1.72	2.51	1.58	1.75	1.98	1.89	1.58	2.58	1.47	1.39
Russia	Mondy	0.578	0.680	0.964	0.586	0.536	0.485	0.428	0.799	0.727	0.621	0.653	0.566	0.864	0.420	0.480
	Listvyanka	1.04	0.945	1.39	1.36	1.30	1.19	1.51	1.38	1.58	1.31	1.41	1.63	1.51	1.25	1.20
	Irkutsk	1.71	1.79	2.10	1.67	1.80	1.66	1.76	2.02	2.48	2.18	2.05	2.16	2.16	2.08	1.59
	Primorskaya			1.77	2.66	2.20	2.03	2.47	1.90	2.58	1.48	1.96	2.64	1.56	1.89	1.63
Thailand	Bangkok	1.64	1.50	1.32	1.67	1.25	1.66	1.94	1.41	1.54	1.38	1.31	1.24	1.26	1.35	1.10
	Samutprakarn	1.52				1.01	1.30	1.56	1.34	1.66	1.48	1.13	0.667	0.902	1.20	1.00
	Pathumthani	1.48	1.80	1.07	1.24	1.47	1.31	1.42	1.50	1.19	1.07	0.975	1.27	1.17	1.08	0.998
	Khanchanaburi	0.519	0.559	0.508	0.352	0.406	0.315	0.462	0.292	0.496	0.511	0.249	0.585	0.817	0.326	0.506
	Chiang Mai		0.885	0.476	0.458	0.486	0.812	0.593	0.630	0.622	0.608	0.519	0.442	0.512	0.682	0.803
	Nakhon Ratchasima							0.918	0.775	0.833	0.981	0.992	0.796	0.756	0.789	1.46
Vietnam	Hanoi	1.55	0.917	1.52	1.70	1.85	2.75	2.18	1.57	1.11	1.41	1.72	1.60	1.56	1.52	1.99
	Hoa Binh	1.15	1.04	1.06	1.12	1.48	1.15	1.22	1.08	0.918	1.10	1.39	1.02	0.940	1.10	1.35
	Cuc Phuong										1.74	1.71	1.98	1.73	1.80	1.28
	Da Nang										2.53	1.46	2.37	2.10	3.46	1.85
	Can Tho															1.10
	Ho Chi Minh															2.00

[***]: No data or not measured

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

Black cell: Monitoring was not carried out

Table 3.79 Annual SO_4^{2-} deposition amount from 2000 to 2014

unit: mmol $m^{-2}y^{-1}$

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cambodia	Phnom Penh					***	7.43	5.04	30.9	21.3	15.4	13.6	11.5	17.0	10.7	9.78
China	Guanyinqiao	164	154	165	108	229	200	149	169							
	Nanshan	164														
	Haifu									145	106	136	115	103	109	120
	Jinyunshan		87.7	126	103	166	149	169	149	146	125	148	119	125	91.7	90.0
	Shizhan	199	171	297	258	104	63.9	132	96.7	73.6	80.5	45.8	72.5	42.9	62.0	70.1
	Weishuiyuan	241	105	234	186	94.2	47.1	104								
	Jiwozi	117	68.0	43.2	55.3	56.3	42.8	30.0	18.2	63.6	58.7	36.8	60.7	36.9	34.1	39.4
	Hongwen	30.7	16.7	67.0	48.0	73.6	80.4	61.1	102	29.9	19.2	40.8	26.4	29.7	30.7	30.4
	Xiaoping	22.8	49.1	36.3	41.7	53.3	59.0	39.7	29.2	58.3	32.0	41.4	38.1	30.2	44.9	40.3
	Xiang Zhou	45.5	31.2	48.3	35.3	25.0	28.0	44.6	31.2	46.5	36.6	36.7	19.5	22.6	46.3	23.9
	Zhuxiandong	85.4	49.5	50.6	32.4	34.3	31.3	17.1	***	49.6	33.2	31.6	23.4			
Indonesia	Jakarta	92.7	77.5	60.5	108	71.4	85.6	38.7	60.6	38.9	30.2	46.4	28.4	56.0	51.0	70.4
	Serpong	***	61.4	64.3	49.5	41.0	27.5	45.2	61.5	65.9	31.0	34.8	27.9	26.0	61.6	66.9
	Kototabang	8.65	5.66	13.4	28.7	11.0	12.1	9.55	19.4	7.21	12.5	15.0	17.1	16.0	13.2	21.3
	Bandung	60.2	87.8	70.4	32.8	24.8	61.7	35.1	52.0	65.4	78.3	70.3	47.1	55.2	72.1	78.8
	Maros									16.3	22.5	28.9	30.0	21.5	26.0	20.9
Japan	Rishiri	30.0	19.1	26.1	16.6	27.0	26.8	29.6	24.9	24.3	27.4	25.1	26.1	32.6	27.1	20.7
	Ochiishi				14.9	22.3	18.6	27.6	18.4	13.7	26.3	24.9	12.4	22.0	34.4	10.9
	Tappi	22.9	24.7	30.2	25.1	38.6	36.8	34.5	31.2	23.3	30.9	33.1	31.5	26.2	35.4	31.7
	Sado-seki	36.8	39.8	40.4	18.6	27.2	39.1	35.7	40.6	31.6	34.2	44.2	34.0	38.6	52.7	45.1
	Happo	29.2	27.4	19.8	18.5	28.2	35.8	28.4	28.4	18.0	23.8	16.0	21.5	23.2	23.6	19.6
	Ijira	53.3	49.1	52.2	56.7	48.0	48.5	58.3	43.0	41.0	44.2	42.6	39.8	38.9	33.6	36.6
	Oki	49.0	42.1	55.4	34.3	41.3	73.2	41.1	42.1	39.5	42.4	59.3	70.0	49.1	65.6	50.4
	Banryu	24.4	33.9	24.8	30.5	34.4	34.6	43.1	35.5	32.7	36.3	30.8	30.1	31.2	35.0	32.7
	Yusuhara	31.0	19.0	26.2	26.5	26.7	28.0	31.9	22.5	22.4	24.1	23.9	23.9	32.8	22.5	24.4
	Hedo	93.6	33.9	75.0	49.0	137	64.1	35.8	38.8	27.8	25.9	55.3	36.3	88.5	35.8	34.9
	Ogasawara	22.6	20.7	24.1	25.2	12.5	26.9	16.2	19.9	15.0	27.7	27.9	20.4	16.0	17.1	18.5
	Tokyo								18.4	36.5	27.6	18.1	22.0	25.5	19.7	25.1
Lao PDR	Vientiane				***	***	***	2.45	6.54	8.43	0.733	***	***	3.19	***	***
Malaysia	Petaling Jaya	80.4	68.4	63.1	63.9	54.5	66.4	82.5	41.8	65.6	39.2	60.3	81.2	58.0	63.6	79.2
	Tanah Rata	12.9	9.79	12.8	11.4	9.74	16.1	12.3	10.4	12.9	10.0	7.96	16.6	13.1	13.2	17.9
	Danum Valley						5.53	10.2	6.85	7.46	9.56	12.0	7.42	6.75	10.1	7.35
	Kuching									17.8	17.6	16.6	18.9	17.7	20.6	26.1
Mongolia	Ulaanbaatar	4.78	4.17	4.41	5.80	1.84	4.01	4.78	4.67	4.33	4.53	3.39	4.59	***	8.71	***
	Terelj	3.41	0.861	3.72	2.57	2.75	4.29	5.10	4.63	3.40	1.83	3.96	3.40	***	4.40	***
Myanmar	Yangon								***	***	24.1	10.3	20.9	19.2	21.4	13.1
Philippines	Metro Manila	94.4	85.5	78.2	37.6	44.0	57.1	47.4	78.1	59.2	51.3	54.2	68.3	108	52.9	47.3
	Los Baños	27.7	28.4	27.3	11.4	14.7	16.2	23.9	26.0	34.2	25.6	15.3	20.4	26.5	15.8	18.9
	Mt. Sto. Tomas							0.592	19.4	17.6	23.8	17.8	21.6	41.6	33.8	16.8
Republic of Korea	Kanghwa	35.3	28.5	28.4	41.1	39.3	37.9	40.3	36.4	43.2	37.0	41.3	40.1	20.3	32.4	12.5
	Cheju	24.5	23.0	28.5	29.3	26.8	24.0	31.6	47.1	22.1	26.3	19.4	27.4	43.9	25.9	20.5
	Imsil		21.3	22.7	30.6	19.9	28.4	19.0	38.8	17.9	21.0	32.0	30.9	27.2	22.6	16.7
Russia	Mondy	2.19	3.51	2.20	3.48	2.46	1.54	1.93	3.26	1.47	0.929	0.613	0.333	0.753	1.18	0.675
	Listvyanka	6.79	6.60	6.56	10.3	10.6	7.80	5.90	6.99	8.33	6.02	6.76	10.6	7.33	5.02	4.85
	Irkutsk	16.1	13.9	10.3	12.0	14.7	12.3	9.28	16.0	20.3	13.4	12.6	11.3	16.8	10.1	9.02
	Primorskaya			24.2	13.9	25.7	28.2	28.6	30.4	22.5	19.5	21.5	8.70	19.1	21.1	20.6
Thailand	Bangkok	24.8	21.3	24.2	25.6	19.8	39.1	35.5	27.2	32.0	26.3	24.3	23.2	19.3	9.42	8.52
	Samutprakarn	25.0				20.7	31.1	29.4	27.7	27.2	30.0	29.3	16.1	9.73	8.55	9.52
	Pathumthani	18.7	23.2	14.2	20.5	17.1	16.7	21.6	16.6	17.8	11.7	14.1	14.8	12.4	11.1	8.71
	Khanchanaburi	3.21	7.91	12.4	5.78	4.71	5.72	10.2	4.20	7.41	7.19	2.91	9.93	8.89	1.84	3.51
	Chiang Mai		3.02	6.57	3.34	7.95	8.43	6.44	5.62	6.38	4.52	3.88	5.23	5.28	5.92	4.42
	Nakhon Ratchasima							9.80	8.93	12.7	8.11	11.5	7.99	7.48	10.8	4.61
Vietnam	Hanoi	37.9	31.5	47.8	47.7	58.3	90.6	57.7	55.8	45.8	44.1	43.8	55.7	51.8	50.4	65.3
	Hoa Binh	30.8	32.6	30.5	38.0	53.9	40.6	38.5	33.1	26.9	21.8	36.1	31.7	32.7	39.6	32.9
	Cuc Phuong										41.9	33.7	69.7	49.0	51.1	31.5
	Da Nang										55.6	27.6	76.7	32.9	56.1	35.0
	Can Tho															16.1
	Ho Chi Minh															46.3

[***]: No data or not measured

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

Black cell: Monitoring was not carried out

Table 3.80 Annual nss-SO_4^{2-} deposition amount from 2000 to 2014

unit: mmol $m^{-2}y^{-1}$

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cambodia	Phnom Penh					***	***	4.82	30.2	15.9	14.9	13.3	11.3	16.6	10.5	9.07
China	Guanyinqiao	163	154	164	108	228	200	149	169							
	Nanshan	164														
	Haifu									145	106	135	115	102	108	119
	Jinyunshan		87.3	125	102	165	148	168	148	145	124	148	119	125	91.5	89.6
	Shizhan	198	167	291	253	103	63.4	131	96.2	73.0	80.1	45.6	71.8	42.8	58.3	65.4
	Weishuiyuan	239	104	231	177	93.5	46.6	103								
	Jiwozi	116	66.0	41.7	51.6	54.7	41.5	29.1	17.7	61.5	57.8	36.3	60.3	35.8	29.7	35.1
	Hongwen	28.5	16.5	61.8	45.3	70.3	75.1	57.7	99.7	28.6	18.1	39.0	25.5	28.8	29.5	29.1
	Xiaoping	22.0	47.2	34.1	39.0	51.8	57.3	37.9	28.4	55.6	30.9	39.7	37.1	29.5	43.5	39.6
	Xiang Zhou	40.3	29.1	44.0	31.6	22.4	25.3	41.3	29.5	40.6	31.7	34.5	17.0	18.4	38.4	20.9
	Zhuxiandong	82.4	46.2	46.3	28.8	30.4	27.7	15.9	***	44.0	28.9	29.4	20.3			
Indonesia	Jakarta	87.7	74.6	57.3	105	68.2	82.7	37.6	58.5	37.9	29.3	45.4	27.7	53.9	48.8	66.3
	Serpong	***	59.1	60.5	48.0	39.3	26.7	44.4	60.1	64.5	30.2	34.1	27.4	25.4	59.6	63.7
	Kototabang	***	5.33	12.7	26.9	9.66	11.3	9.08	17.9	6.47	11.6	14.3	16.2	14.4	12.1	20.4
	Bandung	***	84.6	69.1	32.1	24.2	60.5	33.7	51.2	64.2	76.4	68.8	46.0	53.8	70.2	77.2
	Maros									13.5	20.0	26.7	26.7	18.7	21.3	17.2
Japan	Rishiri	14.9	11.2	14.9	9.12	13.9	15.0	21.0	17.4	12.0	16.2	14.6	15.8	12.3	13.2	10.6
	Ochiishi				5.84	8.33	8.28	11.3	8.73	6.14	9.29	10.5	5.51	7.68	7.60	5.99
	Tappi	13.5	16.0	17.1	15.4	21.0	20.6	17.8	16.6	13.5	15.4	22.5	21.2	16.3	18.9	20.4
	Sado-seki	20.2	18.9	18.8	12.3	14.7	19.2	18.7	24.7	18.7	14.2	18.3	21.2	19.9	22.0	21.2
	Happo	28.1	26.6	19.3	17.8	27.1	34.5	27.8	28.0	17.6	23.1	15.4	20.9	22.0	22.9	18.8
	Ijira	50.1	45.1	47.6	54.3	43.6	46.3	56.5	40.1	39.0	41.9	39.6	37.2	35.5	31.1	33.8
	Oki	20.4	18.4	21.2	16.4	16.8	25.3	22.0	22.8	18.2	17.0	23.6	25.6	21.2	23.1	15.8
	Banryu	21.7	25.5	18.6	22.0	22.5	27.5	35.3	29.5	27.2	25.9	22.5	20.8	24.5	26.5	24.8
	Yusuhara	28.4	17.6	22.1	24.0	20.9	24.5	29.7	20.6	21.2	22.6	22.6	21.3	29.4	21.1	23.3
	Hedo	17.1	13.8	15.1	15.7	43.4	23.1	14.7	17.8	13.2	11.0	15.3	14.6	17.9	13.8	14.7
	Ogasawara	6.22	9.23	5.25	5.71	4.02	15.0	6.58	7.61	6.38	8.72	5.60	4.62	5.27	6.31	6.44
	Tokyo								16.2	34.3	25.1	16.3	18.9	22.6	17.4	23.1
Lao PDR	Vientiane				***	***	***	2.15	6.34	8.14	0.633	***	***	***	***	***
Malaysia	Petaling Jaya	79.3	67.7	62.3	62.9	53.5	65.3	81.4	41.2	64.6	38.4	59.3	80.2	57.3	62.6	78.1
	Tanah Rata	12.5	9.49	12.6	11.1	9.48	14.9	12.1	10.2	12.6	9.80	7.78	16.2	12.8	12.8	17.4
	Danum Valley						5.19	9.23	6.11	6.89	8.36	10.2	6.51	6.24	9.15	6.42
	Kuching									16.4	15.6	14.7	16.3	16.5	18.7	24.1
Mongolia	Ulaanbaatar	4.69	4.08	4.34	5.73	1.81	3.95	4.68	4.63	4.22	4.47	3.36	4.53	***	8.00	***
	Terelj	3.33	0.776	3.51	2.49	2.67	4.12	4.93	4.53	3.26	1.78	3.86	3.34	***	4.33	***
Myanmar	Yangon								***	***	20.8	8.88	18.0	15.8	19.7	10.1
Philippines	Metro Manila	87.0	52.0	75.6	35.2	41.9	54.8	44.6	73.9	55.7	47.7	50.6	63.6	103	47.0	43.5
	Los Baños	22.4	23.9	25.1	10.0	13.4	14.5	21.0	22.7	32.0	22.5	12.5	17.6	23.7	12.5	17.0
	Mt. Sto. Tomas							0.519	18.2	16.1	21.5	16.5	20.4	38.1	32.1	15.4
Republic of Korea	Kanghwa	31.6	25.6	26.0	38.6	37.6	36.3	38.5	34.0	39.5	33.6	38.8	36.9	18.3	30.8	11.4
	Cheju	14.8	18.0	24.9	25.6	22.9	20.4	25.9	39.5	15.3	23.0	13.1	17.6	16.9	14.8	12.1
	Imsil		20.1	20.4	28.0	18.6	26.8	17.6	37.5	16.3	17.7	27.2	27.5	22.8	20.4	14.7
Russia	Mondy	2.16	3.46	2.17	3.42	2.43	1.51	1.89	3.20	1.45	0.912	0.598	0.316	0.726	1.15	0.658
	Listvyanka	6.67	6.50	6.47	10.1	10.4	7.72	5.85	6.93	8.27	5.94	6.69	10.4	7.25	4.91	4.77
	Irkutsk	15.8	13.6	10.2	11.8	14.5	12.1	9.07	15.8	20.0	12.9	12.2	11.0	16.5	9.90	8.82
	Primorskaya			23.0	13.3	24.8	27.2	28.0	29.2	21.7	18.8	20.5	8.19	17.9	20.0	20.0
Thailand	Bangkok	24.4	20.7	22.9	24.9	19.1	37.6	34.6	26.5	31.0	25.1	23.3	22.4	18.6	8.46	7.96
	Samutprakarn	24.4				19.5	29.1	28.0	26.3	25.6	28.8	27.2	15.4	9.28	6.94	8.77
	Pathumthani	18.1	22.5	13.7	20.1	16.6	16.2	20.8	16.1	17.2	11.2	13.5	14.2	11.1	10.7	8.37
	Khanchanaburi	2.72	6.89	11.2	4.81	3.96	4.89	9.24	3.48	6.33	6.05	2.61	9.06	7.49	1.40	3.13
	Chiang Mai		2.78	5.78	3.21	7.74	8.36	6.16	5.46	6.18	4.36	3.69	4.93	5.04	5.49	4.31
	Nakhon Ratchasima							9.48	8.56	12.2	7.90	11.1	7.63	7.23	10.5	4.39
Vietnam	Hanoi	36.5	30.0	47.3	46.9	57.5	88.7	56.7	55.0	44.5	43.2	43.3	55.0	51.4	49.5	64.6
	Hoa Binh	29.4	31.3	30.3	37.8	53.5	39.6	38.1	32.7	26.5	21.5	35.7	31.5	32.4	39.1	32.7
	Cuc Phuong										40.4	32.5	68.2	46.5	48.0	30.4
	Da Nang										38.7	23.4	61.3	27.1	36.0	24.0
	Can Tho															14.4
	Ho Chi Minh															43.5

[***]: No data or not measured

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

Black cell: Monitoring was not carried out

Table 3.81 Annual NO_3^- deposition amount from 2000 to 2014

unit: mmol $m^{-2}y^{-1}$

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cambodia	Phnom Penh					3.22	***	8.59	11.3	17.2	13.7	15.5	11.3	17.4	10.3	13.3
China	Guanyinqiao	45.5	39.7	49.7	38.4	60.9	44.5	51.1	63.3							
	Nanshan	52.4														
	Haifu									65.6	56.7	75.9	67.4	74.6	75.8	90.8
	Jinyunshan		28.6	47.3	42.5	55.9	50.2	55.2	51.8	56.4	59.7	73.4	65.8	70.8	59.9	68.0
	Shizhan	48.6	55.8	52.2	86.6	37.1	6.16	39.4	40.0	15.5	34.1	18.8	11.5	19.4	15.7	61.0
	Weishuiyuan	42.9	14.5	39.0	70.5	32.4	5.01	32.8								
	Jiwozi	24.1	29.3	12.7	26.2	26.9	3.37	11.9	6.68	44.9	17.2	14.1	8.01	18.5	5.69	7.84
	Hongwen	28.4	11.2	48.2	43.7	53.1	63.4	47.7	50.6	21.6	17.2	44.3	19.9	32.5	29.3	29.8
	Xiaoping	22.8	50.1	32.0	39.9	38.5	52.9	37.7	27.3	49.2	33.2	46.0	34.6	34.4	40.9	46.3
	Xiang Zhou	31.8	28.0	30.9	36.0	29.6	20.3	33.3	23.9	34.7	35.5	44.3	19.8	23.1	49.3	34.9
	Zhuxiandong	59.6	57.1	32.9	20.2	31.9	22.8	11.7	***	33.9	31.3	36.6	21.5			
Indonesia	Jakarta	27.8	66.4	44.3	94.5	114	115	30.4	67.4	24.1	23.8	36.2	29.5	44.2	50.8	63.4
	Serpong	***	81.4	81.6	66.1	58.0	32.5	45.4	61.3	71.8	34.2	42.4	29.5	28.2	91.9	104
	Kototabang	14.4	3.32	10.1	154	9.94	3.46	1.74	9.88	6.93	0.679	5.61	11.1	12.3	6.06	18.7
	Bandung	30.7	70.0	66.7	32.7	25.2	33.5	30.3	42.4	48.4	61.3	46.8	42.8	45.0	51.7	55.3
	Maros									10.7	17.4	16.9	27.3	22.2	14.7	16.8
Japan	Rishiri	13.9	11.1	12.9	8.65	11.0	12.1	18.2	13.8	12.1	18.3	15.4	17.4	15.7	15.7	10.6
	Ochiishi				6.22	8.78	7.65	11.3	8.29	6.16	8.57	10.3	7.83	8.54	9.36	7.29
	Tappi	13.5	16.5	22.5	19.4	24.0	22.5	21.7	22.8	18.5	18.0	27.2	22.7	20.4	27.0	28.8
	Sado-seki	19.5	21.6	21.4	15.7	17.3	21.3	23.9	30.0	24.4	17.2	24.8	27.3	26.0	30.6	27.1
	Happo	24.3	20.8	18.2	16.2	24.7	28.6	22.7	22.9	18.2	20.1	17.1	25.1	23.3	22.1	19.1
	Ijira	64.8	48.5	57.8	64.5	52.6	61.9	68.5	49.4	54.3	52.9	57.9	46.4	47.7	40.2	44.7
	Oki	22.4	19.5	23.7	20.7	24.0	28.7	25.4	27.6	21.5	22.7	35.2	32.6	28.0	33.7	21.4
	Banryu	21.7	31.1	25.0	27.9	27.0	32.8	38.3	37.1	31.2	34.8	33.2	27.9	33.6	32.8	32.9
	Yusuhara	19.7	14.2	19.8	19.7	20.9	21.8	23.9	17.1	19.7	16.2	19.1	19.6	26.1	17.5	17.2
	Hedo	16.7	14.0	19.3	13.2	23.8	19.6	15.1	17.3	13.5	12.7	16.9	13.6	20.3	13.8	16.8
	Ogasawara	4.73	6.67	3.61	6.55	4.30	6.58	7.57	7.64	6.27	5.67	5.70	3.80	4.53	4.83	4.76
	Tokyo								21.0	45.5	31.3	25.4	30.1	30.7	25.9	30.4
Lao PDR	Vientiane				***	***	***	4.92	9.65	9.95	1.76	***	***	7.34	***	***
Malaysia	Petaling Jaya	92.9	73.2	97.9	100	89.4	102	120	80.5	135	138	174	190	150	119	133
	Tanah Rata	10.4	8.90	16.7	14.1	11.1	17.4	14.9	12.4	17.8	16.0	10.8	7.29	10.8	10.5	13.9
	Danum Valley						3.14	4.24	2.02	4.11	5.61	3.36	3.99	2.83	6.32	2.10
	Kuching									21.3	21.2	22.8	23.1	14.5	18.6	19.4
Mongolia	Ulaanbaatar	3.91	3.43	4.23	4.62	1.32	2.83	3.50	3.27	3.12	4.35	3.26	2.75	***	4.76	***
	Terelj	3.65	0.815	4.45	3.87	3.34	2.89	3.32	3.39	3.77	2.33	3.58	2.59	***	2.89	***
Myanmar	Yangon								***	***	21.8	11.3	19.8	21.4	18.1	13.8
Philippines	Metro Manila	48.9	42.5	52.3	28.8	33.4	51.1	33.1	49.4	50.2	32.8	135	52.7	81.4	49.0	42.0
	Los Baños	14.3	25.3	14.0	7.84	10.6	16.2	18.1	19.4	15.1	23.2	64.9	19.9	25.0	18.7	17.0
	Mt. Sto. Tomas							0.804	18.5	19.9	18.6	15.5	11.8	34.9	37.2	18.5
Republic of Korea	Kanghwa	47.4	32.6	27.0	42.9	36.1	36.5	36.1	34.5	48.0	23.9	49.8	40.9	27.2	38.8	15.7
	Cheju	16.2	20.5	24.4	29.7	27.9	19.2	28.8	18.7	22.3	19.3	22.7	30.0	23.1	19.3	21.8
	Imsil		20.2	31.8	31.7	24.8	32.9	19.6	24.4	19.3	23.9	47.6	41.3	36.7	32.0	30.8
Russia	Mondy	3.04	3.38	2.75	2.78	2.44	1.44	2.09	2.99	1.54	0.938	0.732	0.316	0.841	1.66	0.573
	Listvyanka	8.25	7.26	8.99	16.1	10.9	5.34	4.54	8.33	6.02	5.10	6.59	14.6	6.64	4.37	3.68
	Irkutsk	11.2	8.61	6.59	8.15	9.48	7.25	5.89	8.76	9.02	7.23	8.36	6.81	8.09	4.52	4.77
	Primorskaya			8.51	4.97	14.8	15.9	18.2	18.9	18.3	16.1	14.7	23.5	21.6	13.4	4.93
Thailand	Bangkok	24.8	21.0	32.0	31.9	19.3	46.6	52.4	44.1	55.4	58.2	54.1	44.7	49.7	17.2	15.5
	Samutprakarn	15.1				12.3	29.1	20.0	31.0	30.2	39.7	28.9	20.6	11.9	5.65	12.9
	Pathumthani	17.8	26.5	17.6	28.4	23.4	24.8	35.4	31.4	35.9	21.8	36.0	30.0	29.3	22.0	15.6
	Khanchanaburi	5.06	10.2	13.3	7.96	6.65	5.11	15.5	5.01	9.85	9.10	6.11	14.1	16.4	2.90	4.58
	Chiang Mai		4.47	9.78	5.27	7.04	12.0	11.2	7.47	11.7	8.88	8.52	11.7	8.78	14.2	6.19
	Nakhon Ratchasima							13.5	15.7	19.8	16.0	23.7	15.0	12.6	15.0	10.5
Vietnam	Hanoi	20.2	11.4	21.4	39.4	39.7	54.3	30.6	25.8	22.1	26.7	25.7	39.5	45.3	51.2	50.9
	Hoa Binh	18.3	19.5	32.8	22.6	36.4	29.5	25.0	20.4	20.2	17.5	21.3	25.4	29.5	37.7	32.8
	Cuc Phuong										24.6	38.4	51.5	40.5	31.6	17.4
	Da Nang										33.7	11.9	57.5	8.06	12.5	11.7
	Can Tho															15.4
	Ho Chi Minh															34.2

[***]: No data or not measured

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

Black cell: Monitoring was not carried out

Table 3.82 Annual Cl^- deposition amount from 2000 to 2014

unit: mmol $m^{-2}y^{-1}$

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cambodia	Phnom Penh					***	8.12	5.88	17.4	15.9	13.6	9.12	7.52	10.8	10.1	14.2
China	Guanyinqiao	25.9	22.4	22.5	16.0	20.3	19.7	16.2	17.9							
	Nanshan	19.7														
	Haifu									13.9	11.7	15.8	11.6	11.5	13.1	15.7
	Jinyunshan		40.3	20.8	12.6	19.5	22.6	16.2	14.3	18.6	17.7	15.7	10.1	11.7	8.13	8.50
	Shizhan	27.4	29.6	122	106	21.7	17.5	17.3	21.0	12.9	15.5	10.5	7.07	6.28	22.4	13.1
	Weishuiyuan	41.0	19.3	66.0	129	18.3	16.0	16.1								
	Jiwozi	26.8	20.7	26.2	42.8	15.1	13.9	7.77	4.41	14.8	17.5	16.9	10.8	12.2	22.0	13.1
	Hongwen	48.6	10.6	67.3	66.7	64.1	112	98.0	52.6	29.5	23.8	23.0	21.5	22.1	27.1	32.3
	Xiaoping	32.4	77.3	19.9	41.6	32.5	34.9	52.4	15.2	37.1	22.8	21.1	26.1	18.8	25.7	18.8
	Xiang Zhou	101	75.2	119	81.8	48.8	77.6	68.1	44.5	98.1	90.2	41.6	37.5	65.8	112	39.8
	Zhuxiandong	70.2	71.2	94.1	70.5	75.1	55.9	25.9	***	105	81.2	40.2	21.5			
Indonesia	Jakarta	33.9	48.2	44.2	84.4	57.4	88.4	23.0	40.7	19.6	18.7	32.7	19.2	35.3	45.1	91.1
	Serpong	***	51.8	57.6	58.2	34.8	16.3	17.4	28.8	40.3	23.6	31.9	12.5	21.6	52.8	73.3
	Kototabang	15.8	7.97	30.1	87.0	24.8	15.6	9.74	38.2	9.62	28.4	23.5	30.5	25.7	57.8	26.4
	Bandung	93.7	65.1	51.5	20.9	15.6	25.5	18.6	14.8	19.4	31.6	22.4	18.9	22.1	36.5	29.8
	Maros									60.9	49.7	56.2	58.4	48.9	146	99.9
Japan	Rishiri	286	145	207	142	242	224	163	142	222	203	197	192	389	260	190
	Ochiishi				178	266	191	316	189	142	323	288	147	267	514	93.8
	Tappi	187	169	253	178	341	310	314	276	186	290	192	191	191	309	210
	Sado-seki	292	367	439	121	236	385	324	298	241	377	481	252	380	559	447
	Happo	23.4	20.7	13.0	17.9	27.0	26.1	15.6	10.1	9.21	15.6	13.1	13.6	23.3	13.0	15.2
	Ijira	61.8	73.0	88.2	56.6	94.2	43.3	40.8	56.1	42.5	47.4	62.4	52.8	70.2	53.2	59.8
	Oki	543	448	658	321	453	914	353	362	412	489	684	847	532	807	649
	Banryu	48.5	155	116	162	232	142	149	114	105	197	157	179	125	164	155
	Yusuhara	52.4	25.6	74.6	45.4	112	69.4	44.4	38.5	22.0	28.8	27.3	49.8	66.5	33.4	24.5
	Hedo	1500	373	1200	628	1750	869	404	394	270	278	751	410	1407	424	383
	Ogasawara	325	222	370	400	162	235	188	241	165	379	391	313	210	210	236
	Tokyo								44.4	44.0	48.0	32.1	63.8	58.5	44.5	41.8
Lao PDR	Vientiane				***	***	***	3.38	10.4	12.4	1.12	***	***	5.89	***	***
Malaysia	Petaling Jaya	29.1	23.2	19.5	28.1	22.2	25.0	27.8	17.2	28.1	23.4	32.6	30.2	27.2	27.3	33.0
	Tanah Rata	21.3	7.87	6.29	7.19	5.86	7.61	5.85	5.05	5.78	6.96	4.67	9.70	9.07	8.19	10.1
	Danum Valley						7.54	21.5	14.6	18.3	23.0	40.5	21.6	12.3	24.1	18.5
	Kuching									27.2	39.3	37.3	53.2	25.7	36.2	40.4
Mongolia	Ulaanbaatar	1.76	1.60	1.37	2.27	0.670	1.17	1.46	1.18	1.56	2.20	1.30	1.22	***	0.628	***
	Terelj	1.86	0.767	2.80	2.06	1.85	2.44	1.99	1.91	1.90	1.10	1.37	1.41	***	0.630	***
Myanmar	Yangon								***	***	75.3	30.0	49.6	68.3	72.9	56.0
Philippines	Metro Manila	103	264	55.9	53.5	52.0	33.7	62.3	97.8	68.4	92.9	55.2	109	90.1	101	68.6
	Los Baños	87.1	62.7	41.9	26.1	24.9	29.7	46.7	75.5	35.5	72.6	52.3	62.5	45.4	61.7	38.0
	Mt. Sto. Tomas							0.677	24.9	26.6	39.3	18.3	20.3	37.2	31.2	15.3
Republic of Korea	Kanghwa	61.4	48.6	35.5	96.4	48.9	45.5	39.2	50.9	70.5	76.2	68.9	71.6	50.5	32.6	26.3
	Cheju	222	125	85.3	88.4	88.9	73.1	116	130	114	66.1	114	158	545	219	148
	Imsil		37.3	36.7	71.5	32.2	54.9	54.9	30.1	31.2	55.5	72.9	37.9	124	27.8	33.8
Russia	Mondy	0.785	0.463	1.81	1.25	0.991	1.69	1.83	1.38	0.869	0.391	0.306	0.388	0.626	1.22	0.440
	Listvyanka	2.22	1.07	2.45	2.23	2.72	2.43	1.09	1.75	2.00	0.942	1.12	3.17	1.13	1.62	1.02
	Irkutsk	6.19	5.72	5.45	8.07	4.71	5.47	4.48	6.30	8.39	10.7	8.95	7.23	6.69	5.30	3.82
	Primorskaya			28.3	11.5	14.7	16.0	11.2	18.3	14.2	12.7	19.8	41.9	27.5	30.9	16.1
Thailand	Bangkok	14.4	11.1	18.0	12.0	13.7	24.7	17.1	13.0	20.1	15.9	18.9	17.3	15.0	9.63	9.32
	Samutprakarn	12.6				16.2	30.9	17.7	21.0	22.1	16.8	30.4	16.0	9.45	10.2	11.2
	Pathumthani	9.96	10.5	11.0	10.6	13.9	9.04	11.0	9.17	11.0	8.18	10.2	10.6	24.9	8.08	8.34
	Khanchanaburi	15.5	15.1	30.9	14.3	13.9	15.9	15.9	11.3	20.1	17.6	5.37	17.2	27.8	4.34	6.75
	Chiang Mai		4.91	14.8	3.81	4.40	6.01	5.29	5.48	5.90	5.16	4.17	4.65	4.59	8.51	2.84
	Nakhon Ratchasima							6.56	7.08	10.2	5.81	7.82	7.24	7.17	9.14	4.76
Vietnam	Hanoi	30.5	61.2	13.5	33.7	23.2	47.9	19.2	19.5	19.8	15.5	13.4	15.6	11.8	19.3	17.2
	Hoa Binh	38.4	49.2	11.3	11.7	21.6	30.9	9.99	12.3	8.35	7.30	8.70	7.58	8.91	12.4	5.53
	Cuc Phuong										100	40.2	28.7	41.0	47.9	19.8
	Da Nang										325	85.2	340	140	403	206
	Can Tho															50.4
	Ho Chi Minh															85.8

[***]: No data or not measured

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

Black cell: Monitoring was not carried out

Table 3.83 Annual NH_4^+ deposition amount from 2000 to 2014

unit: mmol $m^{-2}y^{-1}$

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cambodia	Phnom Penh					4.51	21.3	17.0	27.0	21.6	17.3	41.9	28.0	34.9	18.1	21.7
China	Guanyinqiao	174	158	173	131	189	169	151	181							
	Nanshan	132														
	Haifu									149	112	137	117	118	145	164
	Jinyunshan		79.1	134	106	160	154	145	124	120	121	121	98.8	125	102	105
	Shizhan	235	92.8	70.7	183	87.5	39.3	80.7	109	63.3	99.7	85.6	40.0	42.7	105	106
	Weishuiyuan	190	24.5	74.1	188	70.5	28.2	75.4								
	Jiwozi	165	35.7	10.1	50.5	37.8	13.7	11.4	1.12	13.8	32.7	20.0	22.5	10.4	36.0	18.6
	Hongwen	47.9	19.2	69.3	38.3	48.8	60.2	62.0	51.8	32.8	34.4	60.9	35.7	39.9	25.7	29.1
	Xiaoping	31.0	88.9	67.5	67.5	74.4	94.0	50.5	55.0	65.9	52.0	65.1	59.6	39.2	50.0	53.0
	Xiang Zhou	41.7	49.8	166	58.7	67.9	121	86.6	28.0	55.0	44.4	45.4	26.1	44.2	42.9	39.9
	Zhuxiandong	90.7	77.8	76.5	52.5	75.9	27.8	24.3	***	42.9	40.5	42.1	28.4			
Indonesia	Jakarta	122	81.9	49.8	33.6	32.8	26.4	25.7	52.6	43.6	27.6	48.8	33.4	62.9	40.0	55.7
	Serpong	***	109	115	96.4	61.9	36.8	64.6	89.2	112	57.7	74.6	51.6	63.6	193	189
	Kototabang	2.66	2.88	9.21	5.78	25.9	20.7	12.3	50.5	18.7	7.15	6.72	21.9	22.4	14.7	30.2
	Bandung	29.3	98.8	75.9	52.6	32.9	62.6	61.0	94.3	104	130	83.7	93.0	112	111	113
	Maros									26.9	41.2	27.0	33.8	34.5	27.2	19.9
Japan	Rishiri	26.2	16.0	19.2	12.9	16.2	18.1	22.6	22.9	19.5	18.7	16.8	17.3	13.3	15.1	12.9
	Ochiishi				5.98	7.64	6.17	15.6	6.79	4.71	13.3	11.6	8.98	10.7	10.3	9.05
	Tappi	10.1	13.8	19.6	18.6	22.9	19.6	18.2	18.7	15.0	14.0	23.3	19.4	16.3	20.4	27.2
	Sado-seki	18.1	19.2	20.7	17.6	15.5	20.9	21.0	29.3	22.2	12.9	16.2	20.2	20.1	28.6	25.6
	Happo	31.0	25.3	20.2	15.7	25.6	32.3	24.7	25.8	16.6	22.9	15.4	18.6	21.5	23.8	19.8
	Ijira	63.8	39.4	60.4	53.6	50.2	52.1	64.5	46.8	40.6	52.4	46.9	43.4	42.2	36.6	40.8
	Oki	23.5	18.4	19.5	14.1	15.3	20.8	17.8	18.3	17.4	19.1	25.8	28.6	22.0	24.4	14.7
	Banryu	18.2	24.6	23.4	21.9	19.5	28.1	29.1	28.4	24.3	28.3	31.8	22.5	25.9	27.9	26.2
	Yusuhara	14.2	10.7	17.8	17.1	19.0	20.6	23.8	17.7	16.5	17.1	16.3	16.4	23.0	17.8	17.3
	Hedo	21.0	9.52	37.6	15.2	30.6	23.6	15.9	20.2	12.0	12.7	24.6	16.1	53.5	16.0	20.2
	Ogasawara	4.62	8.70	7.18	5.07	5.96	7.10	7.27	12.1	5.74	8.07	9.82	5.88	8.14	7.64	5.94
	Tokyo								29.9	55.6	45.3	31.8	35.3	39.8	36.9	41.8
Lao PDR	Vientiane				***	***	***	5.47	15.3	14.0	3.13	***	***	***	***	***
Malaysia	Petaling Jaya	149	179	43.0	37.1	39.4	57.3	93.3	57.7	77.9	22.5	16.2	17.5	4.40	57.8	102
	Tanah Rata	129	93.0	11.2	6.92	5.77	8.13	9.84	11.6	12.2	16.7	9.92	47.2	16.1	6.69	9.97
	Danum Valley						2.55	6.15	3.95	29.3	11.7	11.6	7.19	1.90	2.48	2.60
	Kuching									19.7	23.1	9.03	23.3	23.4	11.8	34.3
Mongolia	Ulaanbaatar	10.2	8.28	13.0	14.1	3.86	8.18	10.1	11.0	8.26	10.6	8.35	7.50	***	9.58	***
	Terelj	9.20	2.70	16.2	9.86	7.37	8.87	11.7	7.19	10.5	4.54	4.53	5.66	***	0.487	***
Myanmar	Yangon								***	***	48.9	33.3	46.9	45.6	45.8	47.6
Philippines	Metro Manila	143	177	137	52.2	76.6	71.0	109	118	148	79.7	142	667	1218	145	162
	Los Baños	35.9	40.7	58.8	23.3	24.3	24.7	36.2	52.1	37.1	33.9	79.1	70.1	142	53.3	116
	Mt. Sto. Tomas							0.293	29.4	53.3	66.7	16.8	3.79	19.6	20.7	49.0
Republic of Korea	Kanghwa	42.0	42.7	33.0	90.6	66.4	53.8	57.9	51.5	54.8	38.6	41.6	63.8	36.9	70.5	25.7
	Cheju	21.3	36.0	44.0	54.1	40.4	21.6	29.5	35.9	22.1	47.0	26.8	30.2	40.1	22.9	30.4
	Imsil		54.9	41.9	61.0	34.0	40.5	35.5	53.7	25.5	37.6	51.2	56.3	55.4	49.4	36.7
Russia	Mondy	3.47	7.08	6.89	6.00	4.03	2.79	1.52	10.6	2.03	2.40	1.58	0.672	2.00	0.894	0.444
	Listvyanka	7.29	5.34	9.66	11.3	6.74	7.50	4.82	6.35	7.40	4.18	5.99	8.22	9.17	2.74	3.83
	Irkutsk	17.2	11.7	13.0	19.2	15.1	15.6	8.89	16.2	18.1	15.7	12.9	10.8	15.1	8.15	9.28
	Primorskaya			30.0	12.6	21.0	30.7	31.0	29.2	28.0	24.9	28.8	33.6	24.9	28.6	27.2
Thailand	Bangkok	47.4	42.5	60.9	51.9	45.8	87.1	89.0	91.3	95.5	134	76.5	87.3	79.4	61.6	52.9
	Samutprakarn	31.1				43.5	60.8	70.8	88.1	97.8	81.5	52.9	58.5	32.5	42.1	48.2
	Pathumthani	36.6	47.9	32.4	48.2	33.2	39.6	53.9	47.5	49.6	43.3	49.4	59.5	59.2	53.1	37.4
	Khanchanaburi	6.03	16.7	24.0	20.3	11.7	10.1	44.1	23.7	19.8	52.1	14.5	25.2	21.4	10.2	13.7
	Chiang Mai		17.1	27.3	12.8	18.1	30.1	21.6	17.7	25.6	21.2	22.5	21.9	21.8	27.7	14.1
	Nakhon Ratchasima							27.5	25.4	36.4	28.8	40.0	36.7	29.0	34.4	18.0
Vietnam	Hanoi	34.5	45.7	78.6	87.4	83.0	174	56.2	80.1	69.4	81.4	64.8	95.9	108	104	113
	Hoa Binh	15.2	27.8	45.9	48.5	75.0	68.5	42.7	41.4	33.8	42.6	38.8	48.9	57.4	50.7	59.5
	Cuc Phuong										14.3	16.4	35.5	48.3	48.5	34.9
	Da Nang										40.0	14.6	78.3	35.8	57.0	32.2
	Can Tho															33.7
	Ho Chi Minh															46.6

[***]: No data or not measured

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

Black cell: Monitoring was not carried out

Table 3.84 Annual Na^+ deposition amount from 2000 to 2014

unit: mmol $m^{-2}y^{-1}$

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cambodia	Phnom Penh					***	***	1.75	11.3	18.8	9.22	5.74	4.54	5.90	4.16	11.9
China	Guanyinqiao	12.8	8.11	8.01	4.85	10.1	8.99	6.66	7.69							
	Nanshan	9.73														
	Haifu									7.06	4.48	7.38	7.99	6.10	7.48	9.01
	Jinyunshan		7.25	9.48	6.15	18.7	22.3	7.95	10.2	12.5	8.45	8.00	5.19	6.32	4.41	6.70
	Shizhan	24.7	59.8	85.7	88.1	11.5	8.18	21.8	8.22	9.41	7.91	3.35	11.7	2.20	60.9	78.1
	Weishuiyuan	30.8	15.1	48.0	147	10.9	9.01	21.1								
	Jiwozi	19.8	33.1	24.2	62.2	25.5	21.6	15.4	8.58	35.5	15.8	7.47	7.63	17.3	72.8	70.9
	Hongwen	36.1	3.20	87.2	45.2	53.7	87.4	65.6	32.4	21.7	18.1	29.6	15.2	15.0	20.1	22.3
	Xiaoping	13.6	31.7	35.6	43.6	25.5	28.3	54.5	13.0	44.9	18.5	28.6	16.6	10.9	23.9	12.0
	Xiang Zhou	85.4	49.0	71.9	67.5	96.6	52.0	54.3	27.9	97.5	80.7	36.8	40.7	69.7	131	51.4
	Zhuxiandong	55.5	70.7	71.4	63.2	120	64.7	20.0	***	94.1	71.5	37.0	51.5			
Indonesia	Jakarta	82.6	48.8	55.6	43.8	54.6	49.4	19.3	34.4	17.1	14.5	16.8	11.6	34.5	37.7	67.8
	Serpong	***	38.2	63.2	24.2	28.7	13.2	12.0	23.7	24.8	13.7	11.9	8.36	9.71	32.5	54.1
	Kototabang	***	5.46	11.3	30.2	23.0	12.5	7.75	24.0	13.2	16.3	12.4	14.3	25.4	18.0	14.2
	Bandung	***	52.7	22.0	11.4	9.66	20.9	24.0	13.1	20.1	31.6	25.4	18.7	22.5	31.9	26.3
	Maros									47.5	43.0	35.3	54.1	48.8	77.7	80.5
Japan	Rishiri	250	130	188	125	217	195	142	126	204	185	173	171	343	234	168
	Ochiishi				155	233	171	277	161	125	287	252	126	239	446	81.5
	Tappi	156	145	219	162	292	270	278	247	162	266	177	171	166	275	187
	Sado-seki	275	345	384	106	208	332	283	264	219	333	437	213	319	517	397
	Happo	17.2	14.6	8.85	11.8	18.4	21.1	11.4	7.29	6.77	12.1	9.86	10.3	19.2	10.8	13.0
	Ijira	53.5	66.4	75.6	39.4	74.0	34.9	30.7	47.1	34.5	39.0	50.0	42.3	55.2	41.3	47.5
	Oki	479	394	570	296	416	791	315	319	360	422	594	737	462	705	574
	Banryu	45.2	140	104	142	197	119	130	100	91.6	171	139	155	111	140	132
	Yusuhara	42.6	24.5	67.8	40.7	95.8	58.5	37.5	32.1	18.8	24.9	21.8	41.8	55.1	24.6	18.3
	Hedo	1320	341	1050	599	1550	800	351	349	243	250	670	360	1186	366	335
	Ogasawara	277	189	314	351	146	199	163	209	144	315	386	262	179	178	201
	Tokyo								37.3	36.2	40.7	28.7	52.3	48.2	36.7	34.2
Lao PDR	Vientiane				***	***	***	5.04	3.32	4.86	1.66	***	***	***	***	***
Malaysia	Petaling Jaya	17.0	11.4	13.5	17.0	17.0	18.9	17.1	10.9	15.8	13.6	17.6	16.5	13.1	15.3	18.7
	Tanah Rata	5.94	5.05	4.56	5.70	4.42	19.2	3.93	4.57	4.73	4.87	3.15	6.56	4.29	6.02	8.17
	Danum Valley						5.59	16.9	12.4	9.65	19.8	32.7	20.9	8.49	16.5	15.4
	Kuching									23.1	34.3	31.0	42.1	19.8	31.0	33.8
Mongolia	Ulaanbaatar	1.55	1.51	1.12	1.14	0.483	1.08	1.58	0.660	0.556	1.11	0.535	0.924	***	12.1	***
	Terelj	1.34	1.41	4.15	1.40	1.31	2.83	2.68	1.74	1.13	0.843	1.44	0.873	***	1.54	***
Myanmar	Yangon								***	***	55.7	29.3	47.2	56.7	42.6	49.6
Philippines	Metro Manila	123	470	43.3	40.5	35.3	37.9	46.3	70.8	58.7	76.5	59.7	78.2	74.6	98.3	64.4
	Los Baños	91.7	67.6	35.9	24.6	20.9	28.3	50.5	54.4	36.2	50.5	46.9	46.3	46.7	54.5	32.0
	Mt. Sto. Tomas							1.21	19.2	25.9	39.1	22.7	19.9	58.9	29.4	23.0
Republic of Korea	Kanghwa	62.9	47.5	40.6	40.0	28.5	27.3	31.5	39.1	60.8	57.1	42.4	52.8	37.9	26.6	18.4
	Cheju	161	83.2	59.3	60.3	64.9	59.3	95.8	126	112	55.7	103	163	449	184	139
	Imsil		20.0	38.3	42.7	21.6	27.0	22.0	20.2	27.3	53.7	79.2	55.9	72.6	36.9	32.8
Russia	Mondy	0.560	0.726	0.392	0.927	0.693	0.436	0.643	1.10	0.379	0.270	0.253	0.283	0.455	0.449	0.277
	Listvyanka	2.02	1.67	1.37	2.76	2.57	1.36	0.870	1.05	0.972	1.19	1.18	2.59	1.44	1.86	1.34
	Irkutsk	4.73	3.88	2.78	3.01	3.68	3.04	3.58	4.75	5.29	8.06	6.91	5.52	4.41	3.55	3.35
	Primorskaya			19.3	10.9	15.6	16.0	10.5	19.6	12.7	11.0	16.1	8.48	21.3	18.4	10.1
Thailand	Bangkok	7.95	9.78	20.9	10.6	12.3	25.6	13.8	11.2	17.3	20.3	17.8	14.0	10.9	16.0	9.26
	Samutprakarn	9.91				20.8	32.2	20.8	22.8	26.8	19.9	35.0	12.0	7.51	28.2	12.5
	Pathumthani	10.4	10.9	9.15	7.84	8.72	8.32	12.0	7.97	9.95	7.34	13.1	9.16	22.0	7.04	5.62
	Khanchanaburi	8.55	17.1	18.3	16.7	12.5	13.7	17.3	12.0	18.1	19.0	5.05	14.5	23.2	8.19	6.28
	Chiang Mai		4.27	14.2	2.60	3.52	1.31	5.02	2.75	3.35	2.83	3.17	5.17	4.22	8.07	1.93
	Nakhon Ratchasima							5.30	6.17	7.24	3.44	5.22	6.10	4.18	4.27	3.78
Vietnam	Hanoi	22.8	25.9	8.41	14.2	12.7	31.2	16.6	13.6	21.7	14.8	9.00	11.2	7.54	15.0	12.0
	Hoa Binh	24.1	21.8	3.34	3.98	7.16	17.0	6.94	6.23	6.08	4.60	6.65	4.32	5.81	8.29	4.12
	Cuc Phuong										25.5	19.8	25.2	40.4	50.7	18.2
	Da Nang										281	69.9	255	106	333	182
	Can Tho															28.4
	Ho Chi Minh															47.9

[***]: No data or not measured

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

Black cell: Monitoring was not carried out

Table 3.85 Annual K^+ deposition amount from 2000 to 2014

unit: mmol $m^{-2}y^{-1}$

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cambodia	Phnom Penh					0.682	***	1.41	5.00	19.0	1.98	1.59	1.47	1.23	1.42	4.20
China	Guanyinqiao	15.3	14.0	15.3	10.9	15.1	13.4	10.6	11.4							
	Nanshan	20.5														
	Haifu									11.6	8.23	9.78	7.60	6.64	13.1	13.2
	Jinyunshan		31.6	16.5	10.6	17.8	16.6	13.6	11.1	11.6	9.56	10.2	8.80	7.69	6.19	6.59
	Shizhan	14.8	15.3	14.1	23.9	5.75	7.85	8.67	10.2	5.11	6.03	14.9	8.83	2.23	12.4	156
	Weishuiyuan	15.5	5.19	17.8	26.5	5.25	5.52	10.6								
	Jiwozi	14.8	9.11	5.99	13.0	8.65	10.0	4.88	2.80	12.7	8.58	5.64	7.07	3.80	6.64	9.33
	Hongwen	7.56	3.06	6.73	5.63	7.70	8.65	7.14	5.03	2.00	1.66	3.42	1.68	2.64	2.67	1.60
	Xiaoping	4.40	11.3	8.17	8.39	9.96	8.06	31.7	7.63	20.3	2.64	2.94	4.29	4.48	3.29	1.98
	Xiang Zhou	13.4	8.00	30.4	9.91	10.3	3.13	12.5	11.9	4.65	4.23	4.10	4.71	14.0	20.0	11.5
	Zhuxiandong	11.0	15.1	20.8	11.6	28.9	5.95	2.32	***	10.4	4.04	6.10	6.78			
Indonesia	Jakarta	***	30.1	17.8	15.0	15.2	12.2	11.9	24.3	6.03	3.46	4.72	2.26	7.79	6.61	11.5
	Serpong	***	11.3	9.89	17.0	8.26	5.09	7.14	5.56	5.24	2.36	4.57	2.61	3.87	11.4	16.3
	Kototabang	***	1.59	9.16	62.6	13.2	9.57	5.69	23.3	8.42	24.8	10.5	8.69	14.6	40.9	25.8
	Bandung	***	32.7	5.19	6.63	2.95	8.15	6.31	4.01	5.38	11.0	11.0	7.30	7.01	18.7	11.4
	Maros									17.5	12.6	6.71	6.74	8.57	7.41	52.7
Japan	Rishiri	7.66	3.71	4.86	3.47	5.68	4.89	4.85	3.65	5.44	4.54	4.59	4.24	7.51	5.40	4.23
	Ochiishi				3.62	5.23	4.34	7.64	3.97	2.78	6.47	6.68	3.02	5.89	9.91	2.14
	Tappi	3.82	3.55	5.41	3.97	7.28	6.19	6.86	5.97	4.42	6.62	5.45	4.96	4.66	6.65	4.74
	Sado-seki	6.80	7.95	9.30	2.78	5.48	7.60	7.20	6.84	7.31	8.26	11.1	6.18	8.58	12.1	10.6
	Happo	1.76	1.50	1.03	0.942	1.55	2.14	1.42	1.41	0.962	1.58	0.934	1.38	1.73	1.54	1.83
	Ijira	7.91	9.09	5.57	3.69	3.75	2.39	2.77	2.60	1.43	1.95	1.64	1.64	1.74	1.60	1.86
	Oki	12.7	10.9	15.0	8.70	13.6	20.4	9.16	10.6	13.2	11.3	14.7	19.5	11.9	17.8	13.8
	Banryu	2.12	4.89	3.76	4.36	5.25	4.76	4.37	3.89	3.22	5.20	7.98	4.85	3.93	4.71	4.02
	Yusuhara	2.15	1.05	2.37	1.30	3.72	2.27	2.15	1.51	0.928	1.59	1.52	1.58	3.25	0.962	2.47
	Hedo	26.3	7.57	24.3	14.0	43.7	20.2	8.77	8.95	6.23	6.49	16.4	8.73	30.2	8.82	8.08
	Ogasawara	7.10	7.37	8.21	7.82	3.59	4.68	4.01	4.97	4.36	7.61	9.32	6.42	4.26	4.60	4.79
	Tokyo								1.51	2.12	1.90	1.64	1.79	1.45	1.14	1.13
Lao PDR	Vientiane				***	***	***	2.49	2.37	2.82	0.168	***	***	***	***	***
Malaysia	Petaling Jaya	6.06	4.39	3.37	9.25	4.91	6.99	6.23	2.97	4.45	4.47	5.26	4.71	4.53	4.07	5.46
	Tanah Rata	3.41	2.40	2.21	2.15	3.68	2.57	1.74	1.92	1.70	3.05	2.60	6.70	4.78	4.85	4.69
	Danum Valley						1.47	3.05	3.22	7.58	5.39	7.67	6.56	3.59	3.22	6.15
	Kuching									2.77	3.24	3.02	3.95	3.51	2.85	11.9
Mongolia	Ulaanbaatar	0.771	0.770	0.679	1.01	0.237	0.651	0.968	0.161	0.435	0.577	0.416	0.650	***	0.598	***
	Terelj	0.935	0.337	2.50	1.28	0.970	1.59	1.93	0.703	1.33	0.455	0.703	0.719	***	0.725	***
Myanmar	Yangon								***	***	19.4	4.71	5.21	17.4	7.17	13.5
Philippines	Metro Manila	62.6	53.1	29.4	5.55	8.50	9.28	34.0	18.9	37.1	15.1	45.6	85.9	117	22.7	25.7
	Los Baños	4.58	17.3	10.9	2.94	3.74	3.62	5.53	15.2	5.51	26.3	15.4	16.3	17.1	15.3	17.0
	Mt. Sto. Tomas							0.569	7.73	3.57	9.24	5.09	3.78	5.07	3.30	4.57
Republic of Korea	Kanghwa	6.27	5.40	7.28	14.8	10.00	5.26	5.31	9.51	8.35	11.3	12.2	5.34	4.78	2.94	5.73
	Cheju	6.69	10.4	6.55	10.5	9.11	6.02	6.80	8.94	8.78	10.1	7.98	7.04	18.8	7.65	13.5
	Imsil		19.3	6.50	21.0	6.90	60.6	29.9	19.2	4.79	11.7	16.8	5.81	66.5	7.72	10.8
Russia	Mondy	0.361	0.661	0.473	0.659	0.965	0.300	0.455	0.867	0.416	0.390	0.237	0.366	0.952	0.759	0.248
	Listvyanka	2.06	0.855	0.800	1.42	1.30	0.520	0.479	0.521	1.32	0.646	0.543	1.16	0.686	1.21	0.868
	Irkutsk	2.34	3.45	0.703	1.20	1.50	1.50	2.73	3.72	4.74	11.4	2.07	1.51	2.21	1.44	1.15
	Primorskaya			4.47	3.25	5.01	5.21	3.41	6.11	4.97	3.81	3.93	4.19	4.69	4.01	3.30
Thailand	Bangkok	3.70	4.83	4.36	3.63	1.96	4.34	4.50	2.48	3.61	4.10	5.22	3.95	2.74	2.54	1.40
	Samutprakarn	5.17				6.15	7.99	6.12	5.38	10.6	5.51	31.9	2.33	1.45	5.83	2.30
	Pathumthani	2.16	2.27	1.41	1.93	1.16	1.52	2.67	2.23	2.51	2.12	3.26	3.06	2.57	2.51	1.98
	Khanchanaburi	7.82	7.54	5.23	3.29	1.52	1.40	6.16	1.21	2.26	2.41	1.15	4.30	3.75	1.43	1.19
	Chiang Mai		3.19	6.49	3.19	1.62	1.02	2.41	2.69	3.38	1.55	1.41	2.33	1.40	2.12	0.935
	Nakhon Ratchasima							0.791	1.91	2.13	1.65	1.53	1.81	1.42	1.17	1.12
Vietnam	Hanoi	5.14	8.59	2.93	4.08	4.65	9.19	4.65	4.48	6.28	2.53	3.43	4.12	5.39	5.13	6.23
	Hoa Binh	6.74	5.19	2.40	2.50	3.06	8.29	3.76	4.36	6.40	3.69	3.94	4.23	2.88	14.3	3.61
	Cuc Phuong										31.7	9.28	6.14	12.2	16.3	8.04
	Da Nang										18.6	5.76	50.9	19.3	41.5	30.5
	Can Tho															13.7
	Ho Chi Minh															20.3

[***]: No data or not measured

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

Black cell: Monitoring was not carried out

Table 3.86 Annual Ca^{2+} deposition amount from 2000 to 2014

unit: mmol $m^{-2}y^{-1}$

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cambodia	Phnom Penh					0	***	8.64	26.4	59.9	27.1	15.4	11.9	17.4	12.9	14.8
China	Guanyinqiao	68.1	103	94.5	64.5	153	168	120	97.7							
	Nanshan	69.5														
	Haifu									66.0	46.1	67.6	55.5	58.5	71.2	77.4
	Jinyunshan		31.9	47.7	37.8	107	84.3	118	90.7	82.9	73.2	67.3	55.2	59.5	35.1	38.8
	Shizhan	128	246	167	329	88.5	54.4	145	61.3	57.6	81.7	48.1	60.1	50.1	143	57.7
	Weishuiyuan	136	80.0	143	313	88.3	39.9	104								
	Jiwozi	103	89.5	39.1	140	89.7	46.7	51.9	34.7	116	58.9	47.0	88.9	79.3	86.2	84.4
	Hongwen	10.2	10.7	77.0	40.0	89.1	63.7	54.4	74.0	13.3	9.71	13.9	11.9	16.1	30.8	28.8
	Xiaoping	1.21	13.8	23.0	30.6	12.5	30.9	24.7	17.4	31.2	10.2	12.7	17.9	25.9	44.9	57.8
	Xiang Zhou	43.1	15.8	26.9	39.3	24.1	8.62	21.6	6.78	15.3	9.87	13.7	22.1	16.3	105	28.5
	Zhuxiandong	44.4	36.8	32.7	35.5	31.5	18.1	15.2	***	31.4	11.7	30.3	21.8			
Indonesia	Jakarta	138	79.6	67.5	164	74.8	36.9	27.9	30.2	7.48	19.6	21.9	11.0	32.6	33.0	47.4
	Serpong	***	21.8	24.9	14.1	15.4	9.89	11.5	14.9	18.9	6.95	13.2	9.08	8.31	32.5	37.4
	Kototabang	9.28	1.73	8.84	17.3	14.7	7.42	6.48	13.0	12.1	14.5	11.3	12.9	20.7	20.2	9.82
	Bandung	***	63.0	43.4	17.5	16.3	27.7	19.4	18.7	26.4	41.1	35.1	32.0	27.8	45.9	46.4
	Maros									25.5	26.3	25.5	23.6	39.4	41.9	77.0
Japan	Rishiri	10.6	6.21	9.73	5.49	8.13	7.32	6.90	5.15	7.22	10.6	7.39	6.93	9.89	8.58	5.97
	Ochiishi				4.49	7.92	7.37	10.2	6.03	3.86	8.21	8.95	4.44	6.41	12.2	3.40
	Tappi	6.68	6.25	12.0	8.02	11.4	13.3	12.3	11.7	8.52	8.58	13.3	9.17	9.45	15.0	8.89
	Sado-seki	12.5	15.4	13.0	5.72	7.23	11.6	15.3	13.7	10.5	11.5	17.4	11.5	14.8	16.4	13.4
	Happo	8.49	10.1	5.21	4.72	7.29	12.4	17.3	6.77	4.44	11.0	6.30	7.89	8.29	7.37	5.67
	Ijira	18.2	12.6	11.1	8.55	7.92	7.25	8.17	8.23	4.94	7.89	9.55	6.05	7.16	7.45	5.02
	Oki	19.4	16.1	18.1	11.0	16.7	24.4	15.9	15.8	12.1	16.3	23.3	26.2	15.7	23.8	17.3
	Banryu	6.64	10.7	6.99	5.95	9.20	7.57	18.6	9.37	9.40	9.46	11.8	8.38	8.03	7.92	7.20
	Yusuhara	7.55	7.09	4.17	4.04	7.32	5.55	8.25	4.66	3.71	4.07	4.44	7.71	7.28	5.37	5.64
	Hedo	29.3	10.4	28.5	15.1	40.3	25.1	17.2	13.3	8.19	8.83	21.1	10.7	32.6	11.1	10.4
	Ogasawara	10.1	9.81	11.5	11.2	3.93	5.25	5.68	6.83	4.27	8.71	10.8	7.21	5.44	5.82	6.10
	Tokyo								5.38	7.61	5.91	6.59	6.72	6.88	7.00	6.88
Lao PDR	Vientiane				***	***	***	6.20	4.25	9.62	0.996	***	***	***	***	***
Malaysia	Petaling Jaya	23.4	19.4	19.8	23.8	15.1	17.3	15.2	11.9	14.7	14.8	19.0	14.3	13.5	21.9	22.3
	Tanah Rata	7.06	8.13	8.56	10.1	5.60	5.28	3.20	3.11	3.03	3.17	2.99	6.84	6.73	8.06	7.75
	Danum Valley						1.70	3.79	1.53	1.06	3.43	9.05	3.36	2.37	4.59	4.02
	Kuching									8.19	8.35	12.1	14.6	13.0	17.2	22.4
Mongolia	Ulaanbaatar	7.41	7.86	8.91	7.88	3.60	7.49	8.63	5.19	6.66	9.63	5.23	5.54	***	14.7	***
	Terelj	3.16	1.33	6.72	3.32	3.36	3.33	5.32	2.52	3.68	3.97	5.48	2.93	***	6.28	***
Myanmar	Yangon								***	***	29.1	14.5	21.7	20.0	2.87	40.6
Philippines	Metro Manila	58.6	164	25.9	19.3	24.1	25.2	36.8	36.4	32.7	24.2	34.2	47.0	61.8	40.5	38.2
	Los Baños	18.3	119	12.3	12.5	9.41	5.82	15.4	16.1	7.10	14.7	41.6	15.2	19.8	15.3	14.5
	Mt. Sto. Tomas							2.43	79.0	15.7	27.8	81.8	36.1	80.4	37.7	29.3
Republic of Korea	Kanghwa	29.6	15.9	9.14	17.9	12.3	8.98	17.2	11.0	16.8	6.57	11.0	6.48	6.46	7.83	3.81
	Cheju	14.6	6.56	9.53	10.5	8.66	7.89	10.2	13.2	8.86	4.23	6.74	7.10	13.4	8.64	4.92
	Imsil		7.60	9.76	10.1	8.16	6.24	10.4	18.4	5.91	4.14	9.42	10.2	6.03	3.59	3.85
Russia	Mondy	1.76	2.24	1.74	1.55	1.92	1.19	2.24	2.42	1.64	0.616	0.830	0.663	1.28	1.52	0.866
	Listvyanka	5.66	3.58	4.11	7.70	7.80	3.72	2.74	3.68	3.19	3.92	4.12	7.72	4.03	3.30	3.56
	Irkutsk	14.9	16.3	9.53	10.9	12.1	9.53	10.7	12.7	15.5	12.6	12.1	11.4	13.9	9.12	10.3
	Primorskaya			15.1	8.16	14.9	15.6	15.6	13.8	10.7	10.1	11.3	8.52	11.2	13.0	11.6
Thailand	Bangkok	13.0	14.1	20.5	16.5	13.3	37.4	29.2	21.5	28.7	20.8	22.8	22.9	24.2	33.5	14.6
	Samutprakarn	10.8				9.88	15.7	21.0	20.5	24.0	26.2	14.6	12.5	7.99	22.2	14.5
	Pathumthani	12.6	17.5	16.5	10.5	11.1	10.8	20.6	11.7	19.4	12.1	16.2	18.9	32.2	32.0	23.8
	Khanchanaburi	4.19	13.7	10.8	13.7	6.65	5.01	6.82	5.16	9.00	9.85	2.93	7.84	41.7	4.90	3.98
	Chiang Mai		7.53	26.5	4.62	5.50	5.36	6.72	7.53	8.60	5.98	5.14	4.20	8.64	15.1	5.13
	Nakhon Ratchasima							11.4	5.20	5.78	3.19	3.60	2.83	4.21	2.83	3.73
Vietnam	Hanoi	26.2	24.1	23.8	28.2	39.3	45.9	43.4	30.0	26.7	19.3	29.2	26.6	27.0	31.6	41.2
	Hoa Binh	24.8	23.1	20.5	20.2	36.4	32.6	27.5	18.2	28.7	12.8	28.9	22.1	21.2	34.0	17.4
	Cuc Phuong										56.2	63.3	59.8	61.8	46.2	39.2
	Da Nang										18.8	15.0	36.4	28.4	49.7	60.6
	Can Tho															23.5
	Ho Chi Minh															49.7

[***]: No data or not measured

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

Black cell: Monitoring was not carried out

Table 3.87 Annual nss-Ca^{2+} deposition amount from 2000 to 2014

unit: mmol $m^{-2}y^{-1}$

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cambodia	Phnom Penh					***	***	8.61	26.2	59.5	26.9	15.3	11.8	17.3	12.8	14.5
China	Guanyinqiao	67.9	103	94.3	64.4	153	168	120	97.5							
	Nanshan	69.3														
	Haifu									65.8	46.0	67.5	55.3	58.3	71.1	77.2
	Jinyunshan		31.7	47.5	37.7	107	83.9	117	90.4	82.6	73.0	67.1	55.1	59.4	35.0	38.6
	Shizhan	128	244	165	327	88.3	54.3	145	61.2	57.4	81.5	48.0	59.8	50.1	142	56.0
	Weishuiyuan	136	79.7	142	310	88.1	39.8	104								
	Jiwozi	102	88.8	38.6	139	89.1	46.2	51.6	34.5	116	58.5	46.9	88.8	78.9	84.6	82.9
	Hongwen	9.59	10.7	75.1	39.0	88.0	61.8	53.0	73.3	12.8	9.32	13.3	11.5	15.8	30.3	28.4
	Xiaoping	0.938	13.1	22.3	29.6	12.0	30.3	23.5	17.1	30.2	9.85	12.1	17.6	25.6	44.4	57.6
	Xiang Zhou	41.3	14.8	25.3	37.9	22.0	7.62	20.4	6.25	13.2	8.13	13.0	21.2	14.8	102	27.4
	Zhuxiandong	43.2	35.3	31.1	34.1	28.9	16.7	14.8	***	29.3	10.2	29.5	20.7			
Indonesia	Jakarta	136	78.5	66.3	163	73.8	35.9	27.5	29.5	7.11	19.2	21.6	10.7	31.9	32.2	46.0
	Serpong	***	21.0	23.5	13.7	14.7	9.60	11.3	14.5	18.4	6.76	12.9	8.91	8.10	31.8	36.2
	Kototabang	***	1.65	8.60	16.6	14.2	7.15	6.31	12.5	11.8	14.2	11.0	12.6	20.2	19.9	9.51
	Bandung	***	61.8	42.9	17.2	16.1	26.9	18.9	18.4	25.9	40.4	34.6	31.6	27.4	45.2	45.9
	Maros									24.4	25.3	24.8	22.4	38.4	40.3	75.2
Japan	Rishiri	5.14	3.40	5.66	2.82	3.46	3.15	3.87	2.44	2.81	6.74	3.69	3.24	2.58	3.58	2.39
	Ochiishi				1.25	2.90	3.65	4.29	2.56	1.21	2.18	3.52	1.73	1.31	2.57	1.64
	Tappi	3.36	3.25	7.30	4.53	5.19	7.62	6.26	6.34	5.02	3.02	9.58	5.57	5.23	9.14	4.98
	Sado-seki	6.60	8.08	4.86	3.44	2.90	4.46	9.20	7.99	5.79	4.36	8.12	6.92	8.03	6.04	4.88
	Happo	8.12	9.80	5.02	4.46	6.91	12.0	17.0	6.63	4.30	10.7	6.09	7.67	7.87	7.14	5.39
	Ijira	17.0	11.1	9.45	7.71	6.39	6.49	7.51	7.21	4.21	7.06	8.49	5.23	5.99	6.61	4.07
	Oki	9.07	7.60	6.14	4.55	7.76	7.24	9.57	8.91	4.37	7.23	10.5	10.3	5.71	8.53	4.88
	Banryu	5.74	7.68	4.76	2.89	4.97	5.02	15.8	7.21	7.42	5.76	8.80	5.04	5.62	4.90	4.35
	Yusuhara	6.80	6.68	2.91	3.23	5.25	4.28	7.44	3.97	3.30	3.53	4.07	6.94	6.09	4.84	5.25
	Hedo	2.35	3.64	5.87	4.84	7.64	7.81	9.59	5.75	2.95	3.46	6.61	2.88	6.93	3.21	3.14
	Ogasawara	4.24	5.77	4.77	3.68	1.22	1.18	2.17	2.34	1.44	1.95	2.51	1.56	1.58	1.97	1.76
	Tokyo								4.58	6.83	5.03	5.97	5.59	5.84	6.21	6.14
Lao PDR	Vientiane				***	***	***	6.09	4.18	9.51	0.960	***	***	***	***	***
Malaysia	Petaling Jaya	23.0	19.2	19.5	23.4	14.8	16.9	14.9	11.7	14.4	14.5	18.6	14.0	13.2	21.6	21.9
	Tanah Rata	6.93	8.02	8.46	9.95	5.51	4.92	3.13	3.02	2.95	3.10	2.93	6.71	6.64	7.95	7.60
	Danum Valley						1.58	3.49	1.36	0.944	3.12	8.51	3.01	2.22	4.30	3.76
	Kuching									7.77	7.76	11.4	13.7	12.6	16.6	21.7
Mongolia	Ulaanbaatar	7.38	7.83	8.88	7.85	3.59	7.46	8.59	5.17	6.64	9.60	5.22	5.53	***	14.4	***
	Terelj	3.13	1.30	6.46	3.29	3.33	3.27	5.26	2.48	3.66	3.95	5.45	2.91	***	6.25	***
Myanmar	Yangon								***	***	27.9	13.9	20.7	18.8	2.13	39.6
Philippines	Metro Manila	56.0	154	25.0	18.5	23.4	24.4	35.8	34.9	31.4	22.6	32.9	45.4	60.2	38.4	36.8
	Los Baños	16.3	117	11.5	12.0	8.95	5.22	14.3	14.9	6.32	13.7	40.7	14.2	18.7	14.2	13.8
	Mt. Sto. Tomas							2.40	78.7	15.1	26.9	81.4	35.7	79.1	37.0	28.8
Republic of Korea	Kanghwa	28.2	14.9	8.27	17.0	11.7	8.39	16.6	10.1	15.5	5.35	10.1	5.40	5.64	7.26	3.47
	Cheju	11.1	4.79	8.28	9.16	7.25	6.61	8.13	10.5	6.43	3.15	4.72	4.00	3.78	4.66	2.13
	Imsil		7.16	8.93	9.18	7.70	5.65	9.93	17.9	5.32	3.02	7.87	8.99	4.76	2.80	3.19
Russia	Mondy	1.75	2.22	1.73	1.53	1.90	1.18	2.23	2.40	1.63	0.610	0.824	0.657	1.27	1.51	0.860
	Listvyanka	5.61	3.54	4.08	7.64	7.74	3.69	2.72	3.66	3.17	3.89	4.09	7.67	4.00	3.26	3.53
	Irkutsk	14.8	16.2	9.47	10.8	12.0	9.46	10.6	12.6	15.4	12.4	11.9	11.3	13.8	9.04	10.2
	Primorskaya			14.7	7.92	14.5	15.2	15.4	13.4	10.4	9.86	11.0	8.34	10.8	12.6	11.4
Thailand	Bangkok	12.9	13.9	20.0	16.2	13.0	36.8	28.9	21.3	28.3	20.3	22.4	22.6	24.0	33.2	14.4
	Samutprakarn	10.6				9.43	15.0	20.6	20.0	23.4	25.8	13.9	12.3	7.83	21.6	14.2
	Pathumthani	12.3	17.3	16.3	10.3	11.0	10.6	20.4	11.6	19.2	11.9	15.9	18.7	31.8	31.9	23.7
	Khanchanaburi	4.02	13.4	10.4	13.4	6.38	4.72	6.44	4.90	8.61	9.44	2.82	7.53	41.2	4.72	3.85
	Chiang Mai		7.44	26.2	4.57	5.42	5.33	6.64	7.47	8.52	5.92	5.09	4.10	8.54	15.0	5.09
	Nakhon Ratchasima							11.2	5.07	5.62	3.12	3.50	2.73	4.13	2.75	3.66
Vietnam	Hanoi	25.7	23.5	23.6	27.8	39.1	45.2	43.0	29.7	26.2	19.0	29.0	26.3	26.9	31.2	40.9
	Hoa Binh	24.2	22.6	20.4	20.1	36.2	32.2	27.4	18.0	28.5	12.7	28.7	22.0	21.0	33.8	17.3
	Cuc Phuong										55.7	62.9	59.2	60.9	45.2	38.8
	Da Nang										12.8	13.5	30.9	26.1	42.5	56.7
	Can Tho															22.9
	Ho Chi Minh															48.7

[***]: No data or not measured

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

Black cell: Monitoring was not carried out

Table 3.88 Annual Mg^{2+} deposition amount from 2000 to 2014

unit: mmol $m^{-2}y^{-1}$

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cambodia	Phnom Penh					0.00	***	0.627	4.49	6.33	2.66	1.33	1.55	1.98	1.50	2.54
China	Guanyinqiao	9.23	8.73	8.67	4.40	12.7	13.7	10.6	10.4							
	Nanshan	8.87														
	Haifu									7.15	5.81	8.75	6.98	6.94	8.44	9.92
	Jinyunshan		4.09	5.41	3.56	5.39	4.63	4.78	4.61	5.62	6.10	5.64	5.20	5.85	4.99	6.52
	Shizhan	13.2	17.6	23.7	42.7	9.18	6.69	13.6	11.3	17.5	7.34	5.04	6.55	1.36	24.0	7.34
	Weishuiyuan	14.2	6.13	21.1	52.0	8.99	4.77	13.3								
	Jiwozi	12.1	8.58	7.09	20.7	16.9	11.2	9.51	4.88	33.8	12.7	8.28	9.37	17.3	14.5	12.3
	Hongwen	6.40	1.86	15.1	7.76	12.2	15.4	11.6	8.32	4.65	3.01	3.06	3.56	4.34	4.71	4.82
	Xiaoping	2.07	6.77	3.50	7.15	2.81	3.35	6.52	2.16	6.78	3.67	2.88	3.39	4.46	7.97	4.98
	Xiang Zhou	14.1	5.83	9.56	12.3	8.51	8.10	18.3	3.43	11.2	9.08	4.77	5.53	10.5	33.9	12.1
	Zhuxiandong	14.1	8.56	11.2	12.9	10.8	9.65	4.43	***	13.2	9.71	5.30	7.74			
Indonesia	Jakarta	346	85.3	20.7	20.6	9.25	7.72	12.7	4.79	2.87	3.06	4.72	3.42	8.06	6.11	11.5
	Serpong	***	5.67	11.3	5.76	5.84	3.09	2.78	5.33	9.76	1.83	4.40	2.59	1.80	8.97	9.31
	Kototabang	***	1.25	4.63	21.1	3.76	2.06	2.82	10.6	2.48	2.92	3.67	2.08	3.69	5.09	2.27
	Bandung	***	10.6	4.16	2.73	2.93	4.29	4.27	3.31	10.3	11.1	11.6	8.85	6.61	14.8	15.3
	Maros									7.77	6.02	5.79	9.07	17.2	11.3	37.7
Japan	Rishiri	28.0	15.2	21.4	14.4	25.0	22.4	16.3	15.0	24.8	21.0	20.0	18.9	37.8	26.3	18.7
	Ochiishi				17.3	27.3	18.2	31.1	18.6	14.5	31.4	31.0	15.1	26.6	51.0	9.28
	Tappi	18.3	16.7	26.1	19.3	34.5	30.0	32.1	27.9	19.1	28.2	20.1	19.9	18.2	32.1	21.6
	Sado-seki	30.9	39.3	44.0	12.7	24.1	37.7	32.7	30.3	24.0	37.6	51.6	26.4	38.1	58.2	45.8
	Happo	3.66	3.73	2.42	3.06	3.90	3.59	2.64	1.57	1.15	2.73	2.12	2.76	4.60	3.63	3.11
	Ijira	7.75	8.93	9.34	6.42	9.43	4.51	4.63	6.23	3.92	4.80	6.22	5.19	7.27	5.70	6.00
	Oki	54.4	45.6	63.8	33.9	48.4	91.8	37.6	36.8	40.8	48.3	69.9	85.2	53.4	78.3	63.9
	Banryu	5.22	16.3	12.1	16.3	23.0	13.9	16.3	12.5	11.3	20.4	17.7	18.3	13.5	17.2	16.4
	Yusuhara	6.09	3.80	8.34	5.21	11.4	7.07	5.25	4.27	2.42	3.33	3.86	8.71	8.65	5.98	6.43
	Hedo	145	35.8	120	68.7	162	84.3	40.7	40.0	27.9	28.6	77.2	40.9	136	41.5	38.2
	Ogasawara	38.2	23.9	43.1	43.5	15.3	21.8	18.1	23.4	17.7	36.6	45.4	30.5	21.3	21.5	23.2
	Tokyo								4.56	5.17	5.13	3.98	6.65	6.18	4.89	4.58
Lao PDR	Vientiane				***	***	***	2.47	0.977	2.18	0.131	***	***	***	***	***
Malaysia	Petaling Jaya	4.74	4.02	3.79	2.15	2.66	2.40	2.85	1.16	1.95	1.39	2.46	2.09	1.69	2.45	4.07
	Tanah Rata	1.30	1.07	1.17	1.36	0.749	1.42	0.452	0.329	0.192	0.0927	0.210	0.869	0.528	0.835	0.964
	Danum Valley						0.406	1.45	1.20	1.58	1.86	3.51	2.05	0.830	1.38	1.57
	Kuching									1.24	1.84	2.12	3.45	1.04	2.42	4.10
Mongolia	Ulaanbaatar	0.814	0.897	0.636	1.10	0.488	0.783	0.825	0.597	0.568	1.21	0.455	1.51	***	0.576	***
	Terelj	0.656	0.224	1.01	0.706	1.07	0.901	1.04	0.384	0.619	0.604	0.718	1.06	***	0.451	***
Myanmar	Yangon								***	***	8.54	4.11	9.52	16.9	33.1	9.79
Philippines	Metro Manila	25.5	34.4	9.72	6.60	9.47	5.86	14.7	14.5	11.1	9.69	24.4	26.1	29.1	16.0	12.2
	Los Baños	9.78	20.1	5.00	4.18	6.25	3.84	7.65	10.7	8.80	10.8	17.0	11.3	8.96	7.77	6.88
	Mt. Sto. Tomas							0.418	7.03	1.76	7.23	12.1	7.41	16.6	7.41	4.92
Republic of Korea	Kanghwa	10.4	6.00	5.22	4.50	4.82	5.03	5.57	5.95	4.26	6.67	5.71	4.70	4.11	2.96	1.39
	Cheju	19.7	11.1	7.60	7.57	8.17	10.5	10.8	9.09	8.16	6.25	6.91	11.3	41.4	16.3	9.38
	Imsil		2.49	3.28	3.00	2.89	2.27	2.83	4.80	1.70	4.14	7.69	3.02	4.27	2.28	1.95
Russia	Mondy	0.333	0.467	0.447	0.316	0.456	0.275	0.405	0.623	0.408	0.138	0.163	0.191	0.427	0.290	0.146
	Listvyanka	1.30	0.881	1.10	1.97	1.76	0.715	0.532	0.755	0.687	0.884	0.970	1.49	0.867	0.810	0.662
	Irkutsk	2.66	2.60	1.71	1.97	2.64	2.24	2.06	3.00	3.40	3.25	2.53	2.40	2.88	1.77	1.43
	Primorskaya			4.73	3.60	4.87	4.18	3.43	4.25	3.46	2.68	2.88	2.66	4.08	3.53	3.99
Thailand	Bangkok	2.30	3.71	4.61	3.22	2.59	7.58	3.72	2.65	4.15	3.09	3.07	2.72	2.43	3.50	2.40
	Samutprakarn	2.33				2.36	5.57	6.57	5.03	6.91	5.57	4.14	2.52	1.46	4.97	3.09
	Pathumthani	2.30	2.93	2.63	1.76	1.55	1.66	2.82	1.77	2.84	1.62	2.43	2.46	4.91	3.06	2.03
	Khanchanaburi	1.47	3.82	3.85	3.63	2.29	2.30	2.47	1.70	3.16	2.87	0.935	2.47	6.59	1.55	1.30
	Chiang Mai		1.19	5.22	1.68	2.10	1.43	3.44	1.16	2.29	2.87	0.526	0.367	0.936	2.15	1.01
	Nakhon Ratchasima							2.36	2.47	2.11	1.60	1.14	0.410	0.477	0.289	0.557
Vietnam	Hanoi	6.27	8.94	4.18	5.77	5.98	15.2	10.5	6.91	8.27	7.70	7.02	7.41	3.87	5.42	5.83
	Hoa Binh	8.84	8.25	2.31	3.62	4.62	9.59	8.17	5.38	3.17	2.51	7.61	4.21	4.15	5.40	3.54
	Cuc Phuong										9.89	7.30	8.86	14.3	23.1	8.30
	Da Nang										30.1	14.4	34.3	15.4	43.4	23.9
	Can Tho															8.19
	Ho Chi Minh															16.7

[***]: No data or not measured

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

Black cell: Monitoring was not carried out

Table 3.89 Annual H^+ deposition amount from 2000 to 2014

unit: mmol $m^{-2}y^{-1}$

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cambodia	Phnom Penh					2.01	0.625	0.181	0.279	2.65	0.861	1.98	1.41	1.12	0.890	0.969
China	Guanyinqiao	50.5	12.1	36.4	31.7	36.0	12.1	11.6	29.3							
	Nanshan	76.2														
	Haifu									64.1	64.3	69.3	53.4	58.1	30.8	17.1
	Jinyunshan		46.5	70.1	62.0	39.3	34.7	24.4	49.4	53.3	51.7	112	77.1	82.0	71.4	61.3
	Shizhan	1.17	0.153	0.201	1.27	0.304	1.96	1.33	1.60	0.155	0.176	0.0965	0.352	0.217	0.0514	0.154
	Weishuiyuan	0.171	0.0335	0.216	1.02	0.489	3.09	0.460								
	Jiwozi	3.14	0.120	0.142	0.543	0.791	0.227	0.318	0.0143	0.0498	0.498	3.36	1.10	0.0295	0.412	0.0591
	Hongwen	29.0	8.75	25.4	44.8	20.6	33.8	31.4	21.8	24.3	22.2	40.7	19.0	28.6	18.5	9.48
	Xiaoping	19.1	33.8	72.9	73.2	48.3	48.1	38.9	26.5	55.8	38.7	40.2	23.4	20.3	19.6	26.7
	Xiang Zhou	14.2	22.7	13.5	13.6	22.1	32.2	20.4	33.7	33.0	26.9	26.2	11.1	11.7	14.1	16.6
	Zhuxiandong	40.8	43.0	20.3	13.8	29.6	25.9	13.3	***	30.2	28.0	21.0	19.1			
Indonesia	Jakarta	10.4	4.68	26.5	11.3	30.0	104	61.4	59.7	38.6	36.6	39.5	27.9	47.4	39.3	62.2
	Serpong	***	38.0	56.6	51.6	30.5	21.1	40.1	52.0	56.7	25.9	25.0	16.4	11.1	20.1	20.8
	Kototabang	73.0	10.3	8.78	15.6	39.0	46.0	36.6	14.7	14.9	59.9	37.9	20.2	25.7	22.5	38.0
	Bandung	***	26.4	88.7	16.1	8.31	16.3	9.18	23.2	15.9	13.4	20.8	6.12	7.25	9.42	12.5
	Maros									7.15	15.0	16.4	16.1	5.90	13.7	16.2
Japan	Rishiri	12.1	10.3	14.4	9.43	13.6	17.7	27.8	23.3	10.2	19.3	20.1	24.8	23.6	24.8	19.2
	Ochiishi				9.53	13.4	12.0	13.8	14.5	9.86	15.2	16.0	10.7	13.3	9.94	6.55
	Tappi	19.9	24.9	27.8	31.0	37.5	30.9	25.5	25.1	21.4	24.4	31.7	28.2	24.1	17.1	26.1
	Sado-seki	28.7	22.5	32.5	24.2	30.4	31.5	24.9	36.5	28.5	18.4	27.0	28.8	24.1	28.7	27.8
	Happo	40.6	34.1	30.7	30.5	43.0	47.6	29.4	37.8	24.2	25.2	21.0	28.2	26.6	26.7	24.0
	Ijira	80.7	82.9	80.5	115	75.8	79.4	87.6	66.3	80.2	66.0	66.6	55.2	58.7	48.8	58.8
	Oki	27.6	21.1	29.2	27.9	22.4	36.0	26.1	26.8	27.7	21.8	31.7	28.8	34.2	34.3	23.4
	Banryu	35.9	39.1	26.5	40.7	34.7	42.2	40.1	41.1	37.2	38.3	29.2	31.3	40.5	46.2	42.3
	Yusuhara	54.7	31.1	40.8	52.3	42.1	52.9	45.4	36.4	47.3	35.5	40.1	39.7	51.3	41.4	46.5
	Hedo	21.5	23.1	22.9	17.4	29.4	26.2	18.9	27.7	19.6	15.4	16.8	22.1	21.3	17.6	23.3
	Ogasawara	11.7	14.6	10.9	12.7	8.75	31.5	16.1	14.7	16.8	11.4	10.5	6.46	7.28	7.15	12.8
	Tokyo								17.6	46.2	30.6	18.6	20.7	23.5	14.2	26.7
Lao PDR	Vientiane				0.0277	0.999	0.320	0.231	3.02	1.65	0.600	***	***	0.463	***	0.366
Malaysia	Petaling Jaya	153	173	157	158	142	123	151	83.2	140	134	191	250	210	136	142
	Tanah Rata	50.4	33.4	30.1	38.3	33.1	41.4	31.3	33.0	31.4	25.6	21.2	32.1	31.0	31.1	40.3
	Danum Valley						13.1	26.8	24.0	18.1	20.4	14.2	23.5	19.5	17.1	13.9
	Kuching									23.8	25.5	24.4	17.3	18.4	21.2	16.8
Mongolia	Ulaanbaatar	0.108	0.107	0.0749	0.564	0.0289	0.153	0.0666	0.0692	0.0807	0.177	0.202	0.595	0.224	0.161	***
	Terelj	0.626	0.0809	0.436	1.24	0.340	1.34	1.48	1.12	0.768	0.0675	0.316	0.786	0.211	1.11	***
Myanmar	Yangon								10.6	2.50	1.04	0.875	1.09	0.831	0.948	0.571
Philippines	Metro Manila	13.2	8.86	24.1	79.8	14.4	26.8	13.5	18.7	6.75	22.2	6.01	8.29	26.9	10.0	1.93
	Los Baños	9.58	5.41	3.07	52.2	9.54	11.9	5.42	9.01	21.2	7.64	2.73	6.43	4.61	3.37	3.34
	Mt. Sto. Tomas							0.204	10.0	16.3	6.96	0.726	20.6	6.41	22.7	2.64
Republic of Korea	Kanghwa	11.2	11.6	18.3	33.5	23.8	46.1	23.0	21.2	43.9	32.7	61.2	33.9	18.3	23.6	5.72
	Cheju	15.0	14.4	24.8	19.3	20.5	19.9	51.8	38.2	18.1	8.09	9.21	7.32	5.93	2.66	1.93
	Imsil		10.5	2.00	15.7	14.2	1.24	4.57	2.49	11.2	8.62	22.1	8.09	10.9	7.33	5.69
Russia	Mondy	1.68	1.00	0.828	1.83	1.64	1.24	1.67	1.06	1.38	0.395	0.253	0.213	0.250	1.60	0.573
	Listvyanka	3.78	5.42	4.74	5.24	6.67	6.62	7.10	8.82	9.06	4.49	5.74	9.00	5.73	4.41	3.53
	Irkutsk	4.15	2.49	2.86	1.94	6.74	3.36	2.52	5.59	9.01	1.67	2.78	3.13	5.15	2.71	3.35
	Primorskaya			5.26	4.27	10.0	6.39	9.32	14.4	9.02	9.11	7.23	14.6	7.88	6.36	2.19
Thailand	Bangkok	12.8	12.6	10.3	40.8	7.86	25.6	11.0	14.1	9.39	16.7	17.2	19.5	3.74	3.35	0.0953
	Samutprakarn	14.5				4.29	5.55	1.93	4.60	8.81	14.7	9.06	2.66	0.647	1.18	0.307
	Pathumthani	5.41	10.0	4.39	22.7	13.3	16.4	20.9	21.5	15.4	9.26	10.3	15.6	5.62	4.60	3.27
	Khanchanaburi	2.41	8.29	5.05	5.65	1.18	5.86	4.48	2.83	4.30	4.35	3.30	6.24	2.30	7.08	1.58
	Chiang Mai		2.10	2.79	2.00	2.93	8.50	2.83	1.05	1.34	1.26	0.789	8.29	0.876	1.30	0.278
	Nakhon Ratchasima							9.06	11.5	16.0	17.1	29.0	15.0	9.66	8.23	6.42
Vietnam	Hanoi	4.48	3.31	3.95	2.45	3.56	1.25	2.28	4.32	3.24	3.46	1.44	9.13	4.29	4.29	3.04
	Hoa Binh	14.7	20.2	10.6	7.02	4.61	4.63	3.98	17.0	6.42	6.96	5.84	6.42	4.50	1.83	4.69
	Cuc Phuong										23.4	9.73	16.8	7.42	7.16	5.10
	Da Nang										49.9	13.0	38.0	6.16	6.07	6.69
	Can Tho															1.01
	Ho Chi Minh															2.72

[***]: No data or not measured

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

Black cell: Monitoring was not carried out

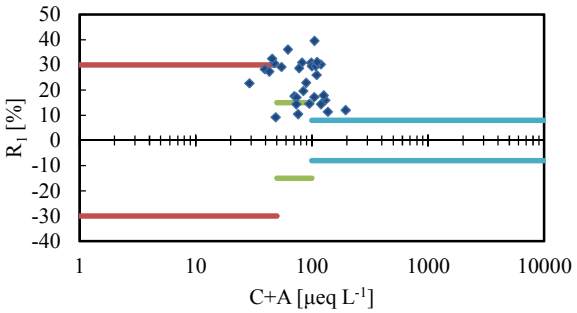


Fig. 3.2 a) Phnom Penh Ion Balance (R_1)

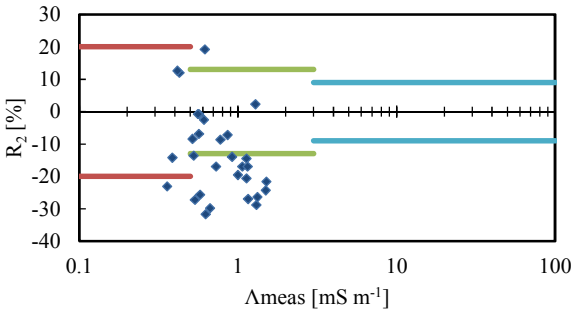


Fig. 3.2 b) Phnom Penh Conductivity Agreement (R_2)

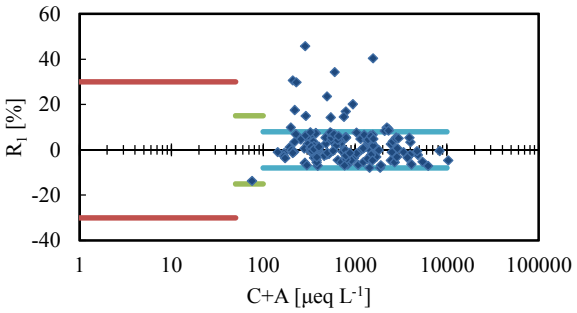


Fig. 3.3 a) Haifu Ion Balance (R_1)

Calculated including F^-

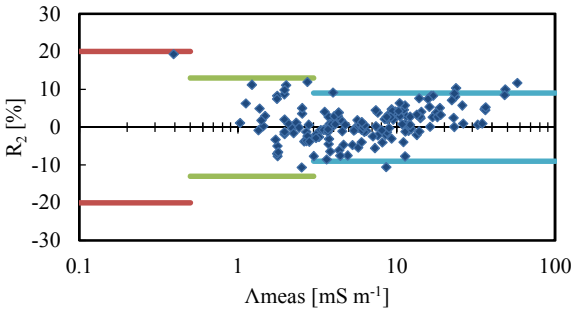


Fig. 3.3 b) Haifu Conductivity Agreement (R_2)

Calculated including F^-

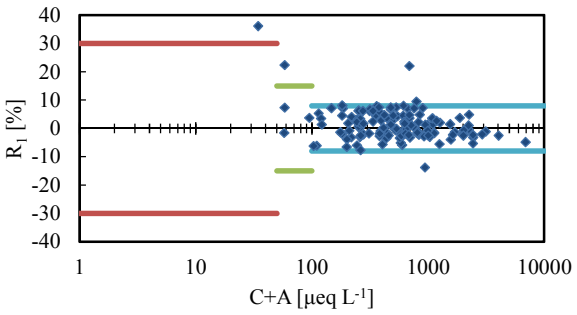


Fig. 3.4 a) Jinyunshan Ion Balance (R_1)

Calculated including F^-

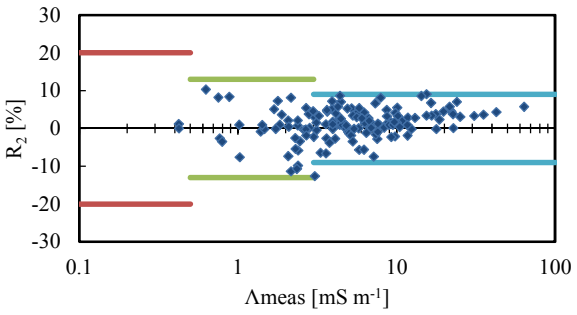


Fig. 3.4 b) Jinyunshan Conductivity Agreement (R_2)

Calculated including F^-

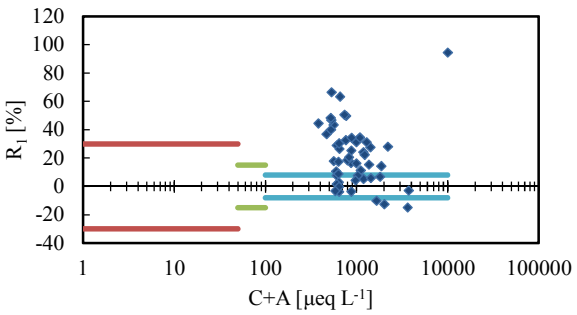


Fig. 3.5 a) Shizhan Ion Balance (R_1)

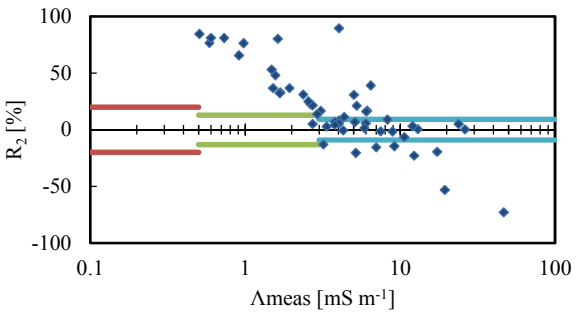


Fig. 3.5 b) Shizhan Conductivity Agreement (R_2)

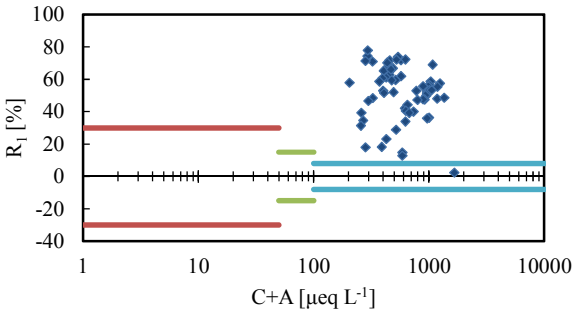


Fig. 3.6 a) Jiwozi Ion Balance (R_1)

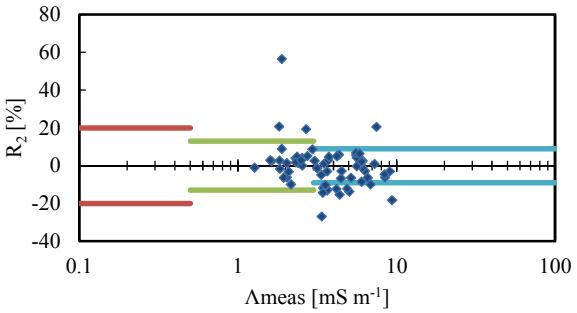


Fig. 3.6 b) Jiwozi Conductivity Agreement (R_2)

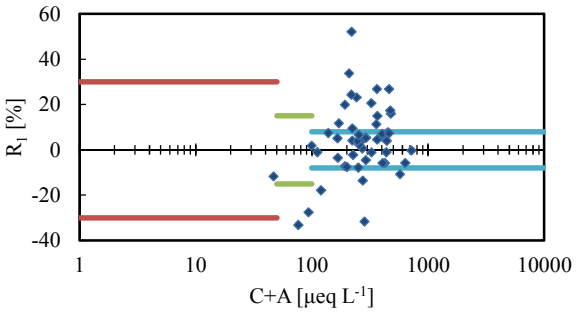


Fig. 3.7 a) Hongwen Ion Balance (R_1)

Calculated including F^-

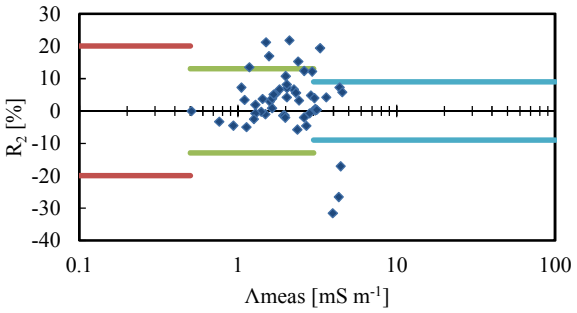


Fig. 3.7 b) Hongwen Conductivity Agreement (R_2)

Calculated including F^-

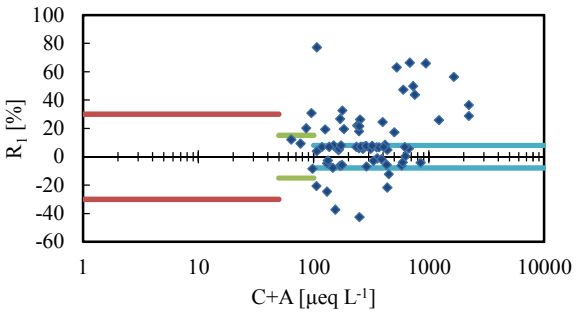


Fig. 3.8 a) Xiaoping Ion Balance (R_1)

Calculated including F^-

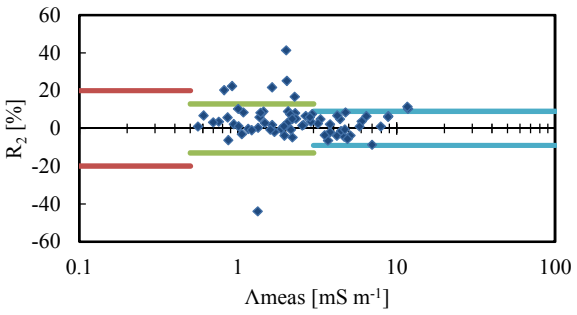


Fig. 3.8 b) Xiaoping Conductivity Agreement (R_2)

Calculated including F^-

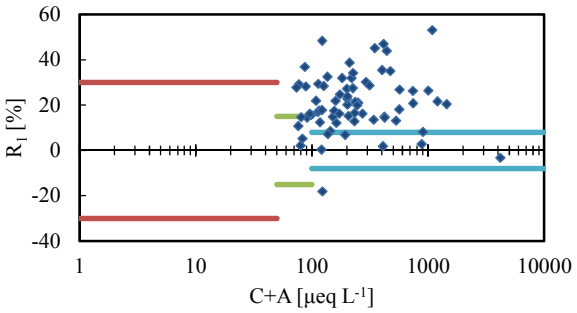


Fig. 3.9 a) Xiang Zhou Ion Balance (R_1)

Calculated including F^-

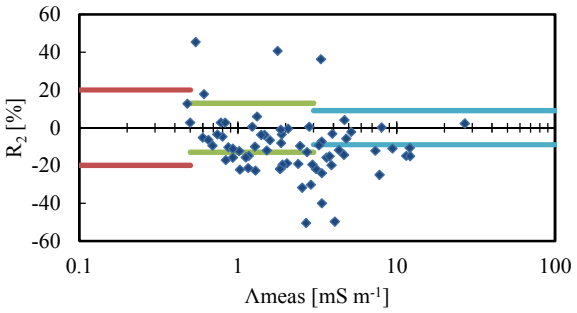


Fig. 3.9 b) Xiang Zhou Conductivity Agreement (R_2)

Calculated including F^-

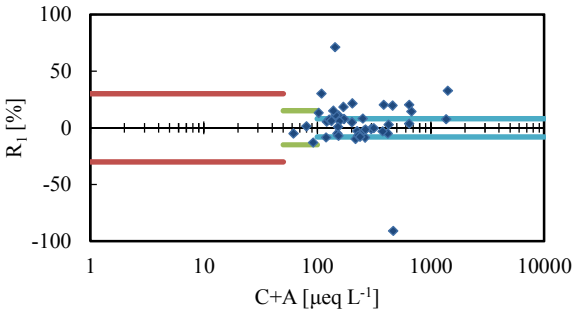


Fig. 3.10 a) Jakarta Ion Balance (R_1)

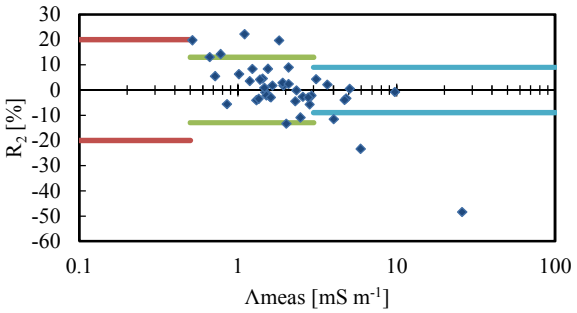


Fig. 3.10 b) Jakarta Conductivity Agreement (R_2)

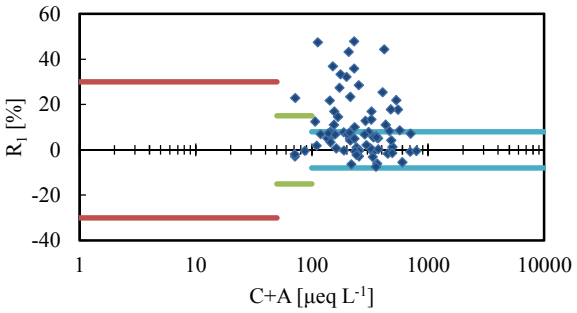


Fig. 3.11 a) Serpong Ion Balance (R_1)

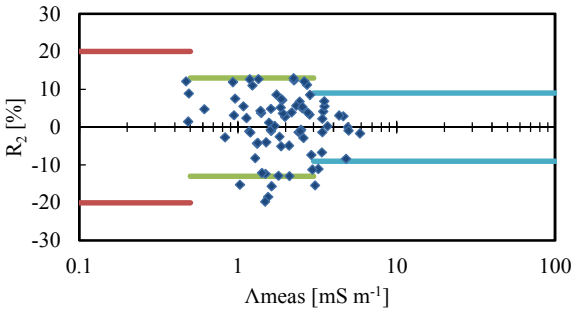


Fig. 3.11 b) Serpong Conductivity Agreement (R_2)

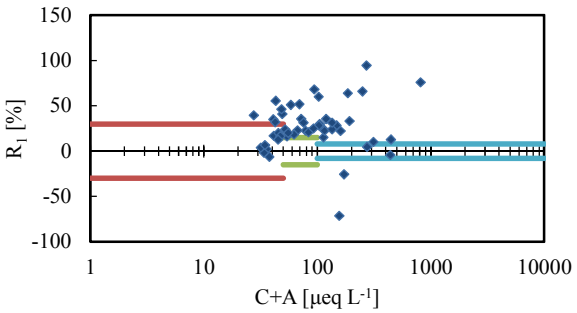


Fig. 3.12 a) Kototabang Ion Balance (R_1)

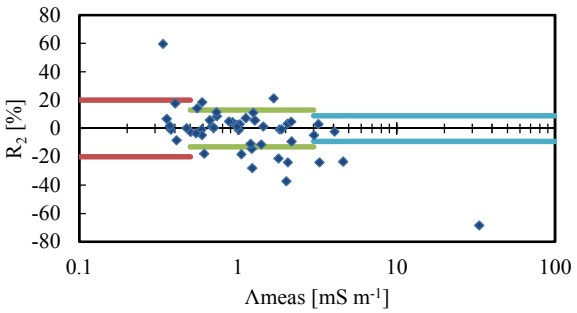


Fig. 3.12 b) Kototabang Conductivity Agreement (R_2)

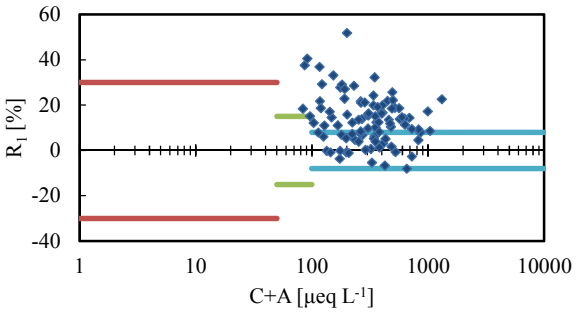


Fig. 3.13 a) Bandung Ion Balance (R_1)

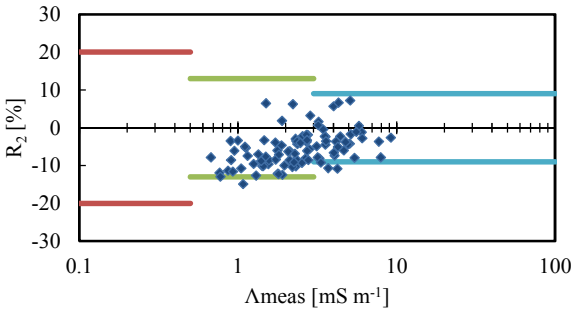


Fig. 3.13 b) Bandung Conductivity Agreement (R_2)

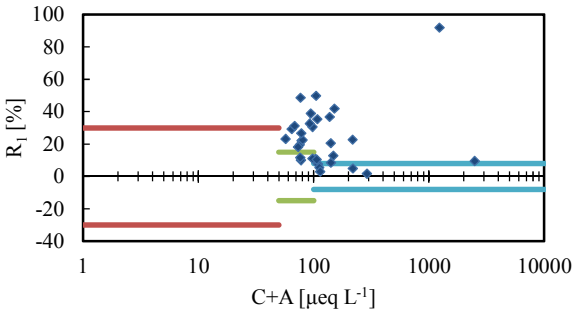


Fig. 3.14 a) Maros Ion Balance (R_1)

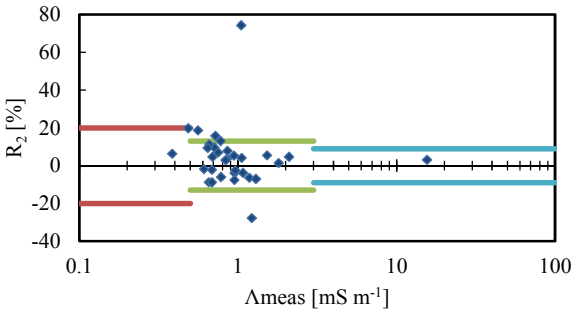


Fig. 3.14 b) Maros Conductivity Agreement (R_2)

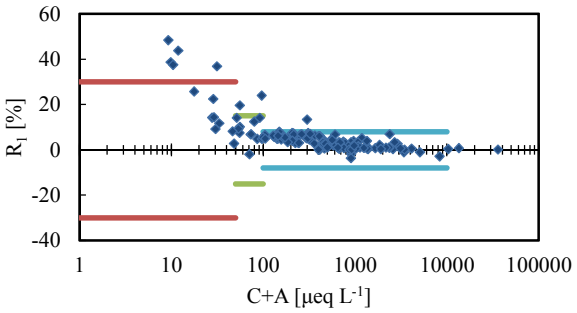


Fig. 3.15 a) Rishiri Ion Balance (R_1)

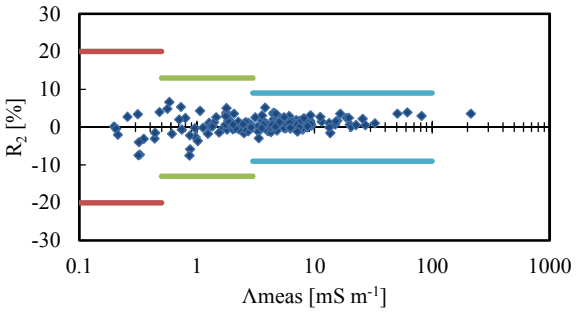


Fig. 3.15 b) Rishiri Conductivity Agreement (R_2)

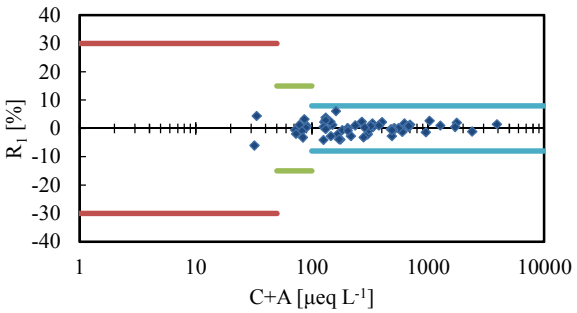


Fig. 3.16 a) Ochiishi Ion Balance (R_1)

Calculated including HCO_3^-, F^-, Br^-, NO_2^-, PO_4^{3-}

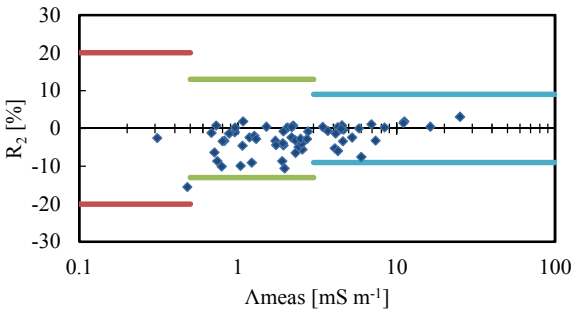


Fig. 3.16 b) Ochiishi Conductivity Agreement (R_2)

Calculated including HCO_3^-, F^-, Br^-, NO_2^-, PO_4^{3-}

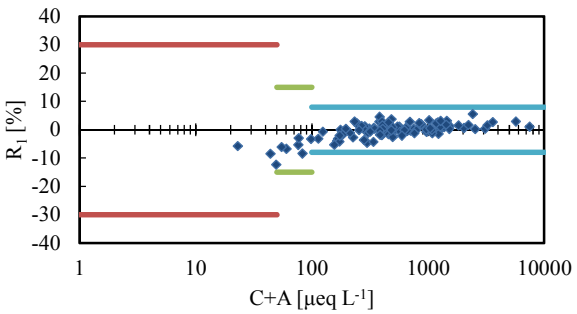


Fig. 3.17 a) Tappi Ion Balance (R_1)

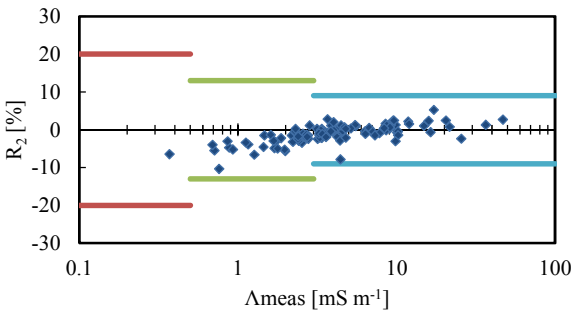


Fig. 3.17 b) Tappi Conductivity Agreement (R_2)

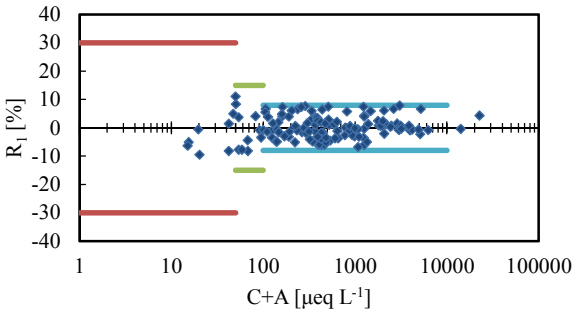


Fig. 3.18 a) Sado-seki Ion Balance (R_1)

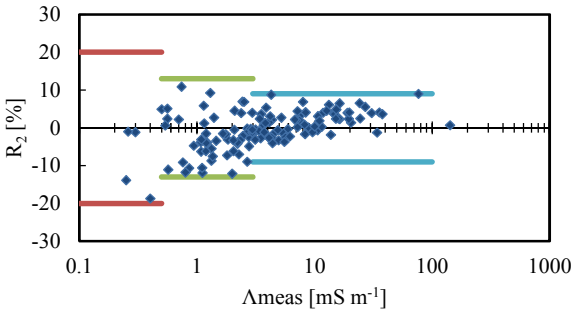


Fig. 3.18 b) Sado-seki Conductivity Agreement (R_2)

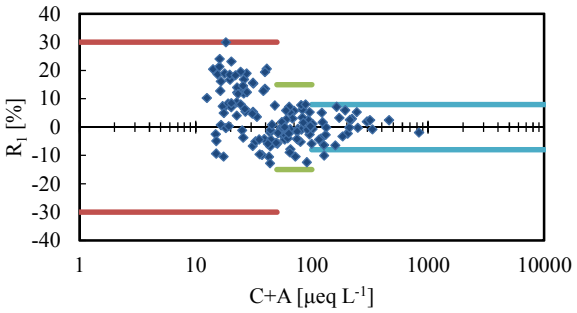


Fig. 3.19 a) Happo Ion Balance (R_1)

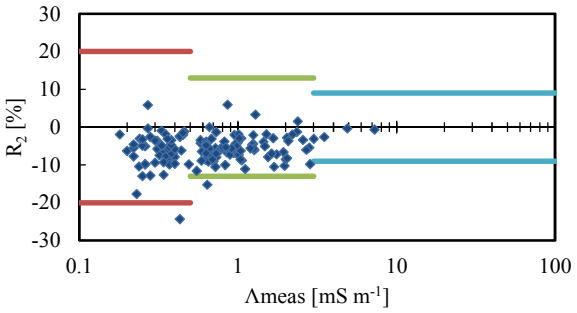


Fig. 3.19 b) Happo Conductivity Agreement (R_2)

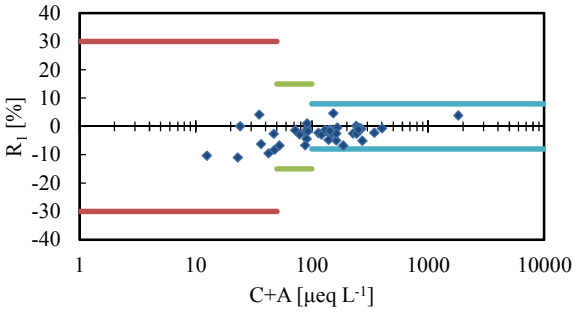


Fig. 3.20 a) Ijira Ion Balance (R_1)

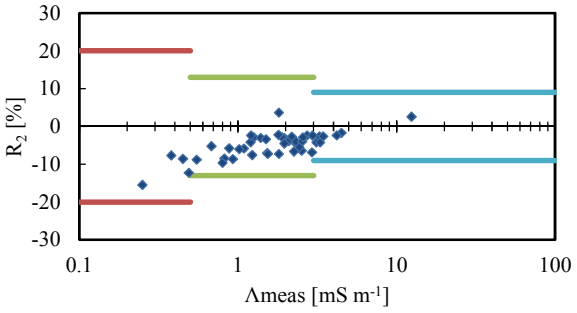


Fig. 3.20 b) Ijira Conductivity Agreement (R_2)

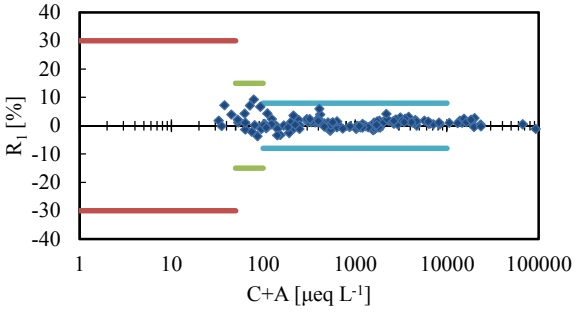


Fig. 3.21 a) Oki Ion Balance (R_1)

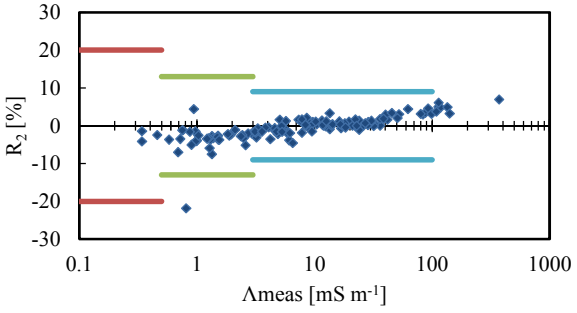


Fig. 3.21 b) Oki Conductivity Agreement (R_2)

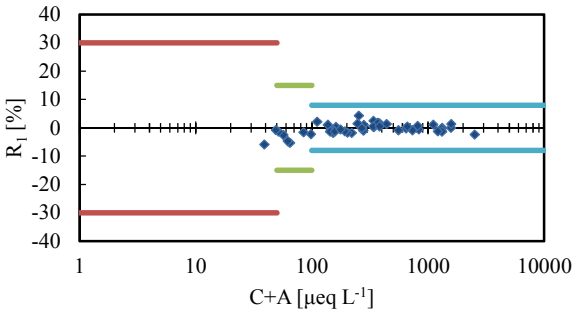


Fig. 3.22 a) Banryu Ion Balance (R_1)

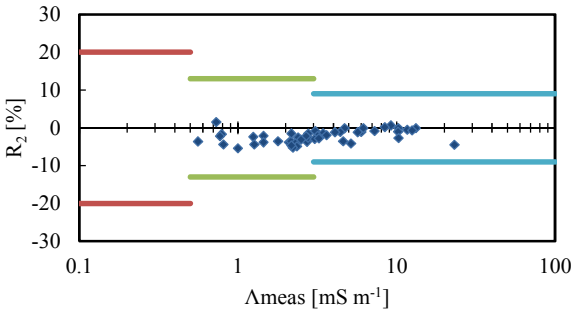


Fig. 3.22 b) Banryu Conductivity Agreement (R_2)

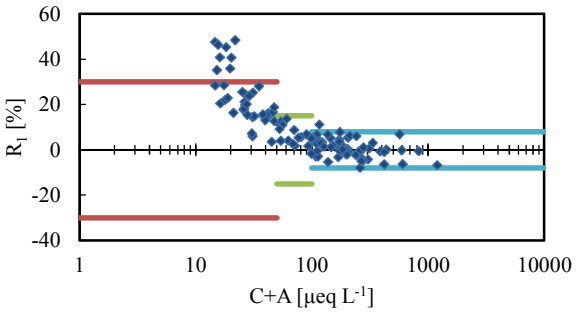


Fig. 3.23 a) Yusuhara Ion Balance (R_1)

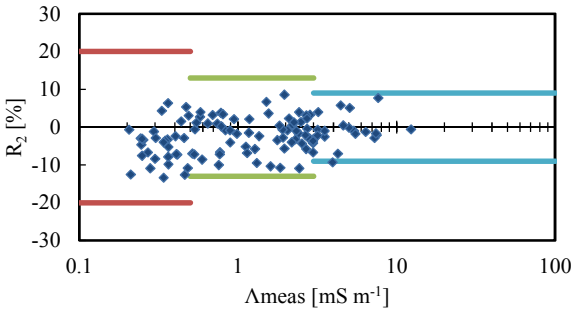


Fig. 3.23 b) Yusuhara Conductivity Agreement (R_2)

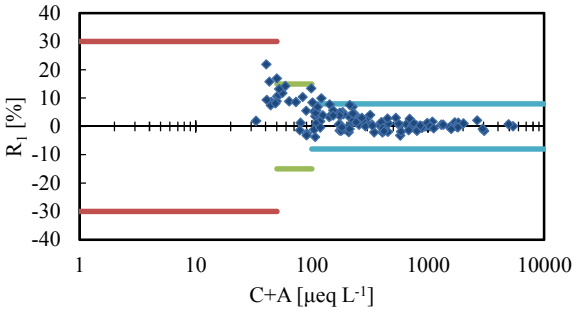


Fig. 3.24 a) Hedo Ion Balance (R_1)

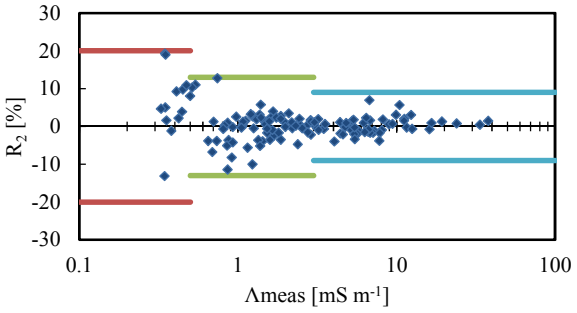


Fig. 3.24 b) Hedo Conductivity Agreement (R_2)

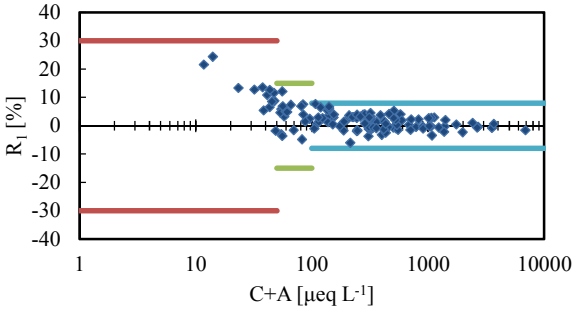


Fig. 3.25 a) Ogasawara Ion Balance (R_1)

Calculated including F^-, NO_2^-

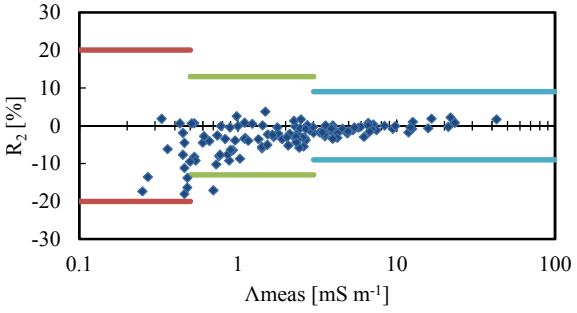


Fig. 3.25 b) Ogasawara Conductivity Agreement (R_2)

Calculated including F^-, NO_2^-

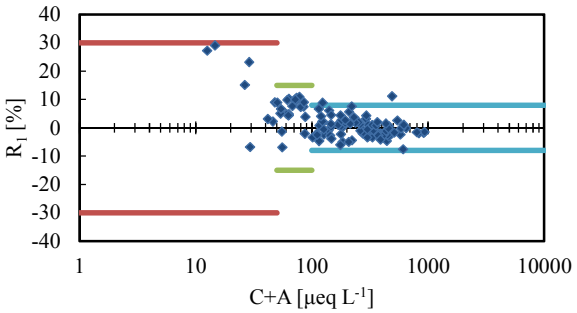


Fig. 3.26 a) Tokyo Ion Balance (R_1)

Calculated including F^-, NO_2^-

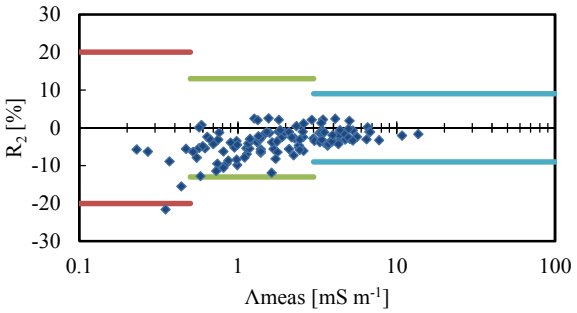


Fig. 3.26 b) Tokyo Conductivity Agreement (R_2)

Calculated including F^-, NO_2^-

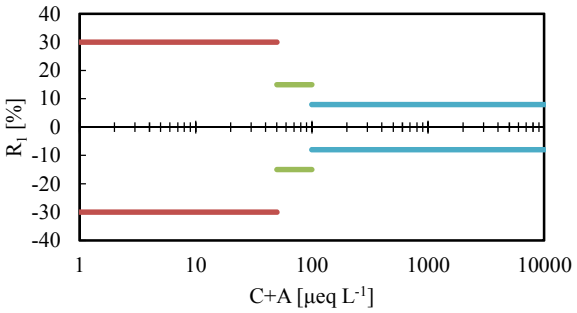


Fig. 3.27 a) Vientiane Ion Balance (R_1)

Not calculated

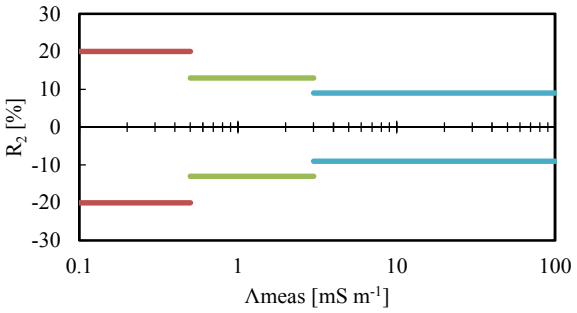


Fig. 3.27 b) Vientiane Conductivity Agreement (R_2)

Not calculated

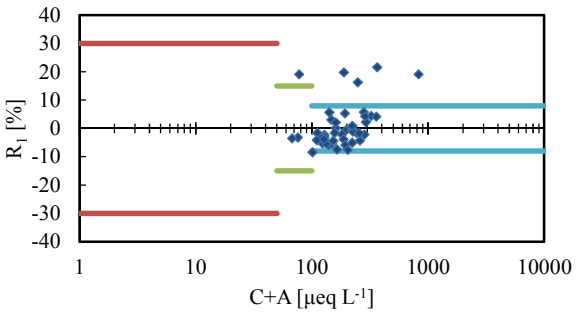


Fig. 3.28 a) Petaling Jaya Ion Balance (R_1)

Calculated including formic acid, acetic acid, oxalic acid

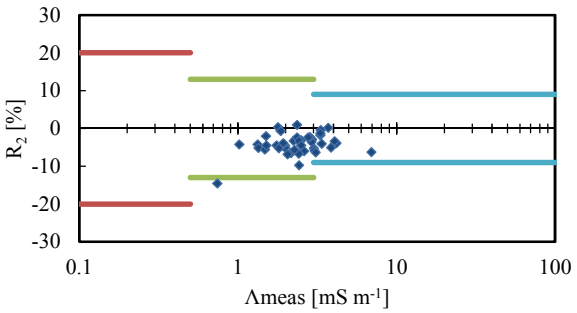


Fig. 3.28 b) Petaling Jaya Conductivity Agreement (R_2)

Calculated including formic acid, acetic acid, oxalic acid

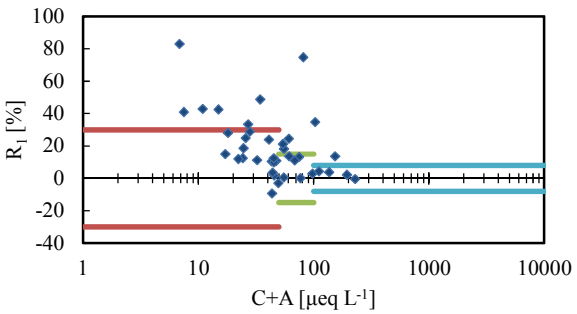


Fig. 3.29 a) Tanah Rata Ion Balance (R_1)

Calculated including formic acid, acetic acid, oxalic acid

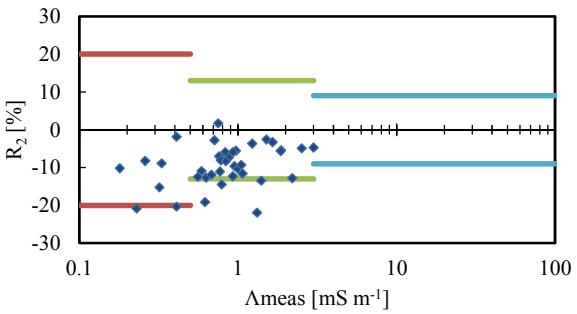


Fig. 3.29 b) Tanah Rata Conductivity Agreement (R_2)

Calculated including formic acid, acetic acid, oxalic acid

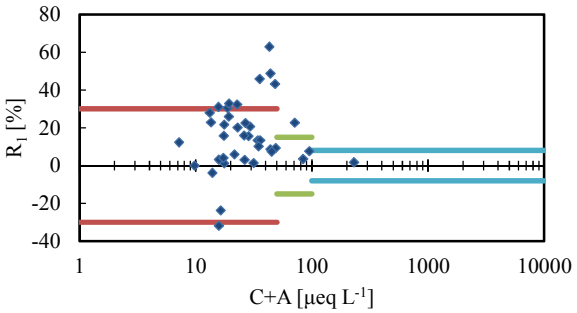


Fig. 3.30 a) Danum Valley Ion Balance (R_1)

Calculated including formic acid, acetic acid, oxalic acid

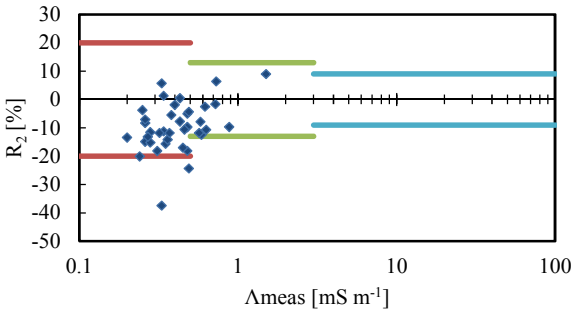


Fig. 3.30 b) Danum Valley Conductivity Agreement (R_2)

Calculated including formic acid, acetic acid, oxalic acid

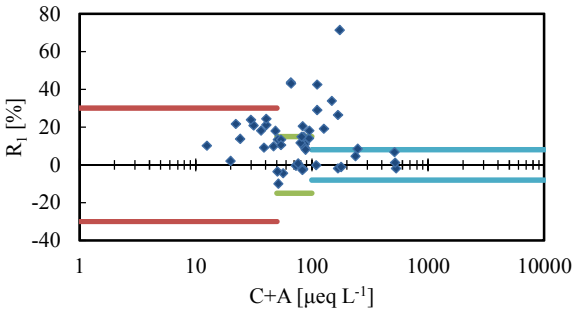


Fig. 3.31 a) Kuching Ion Balance (R_1)

Calculated including formic acid, acetic acid, oxalic acid

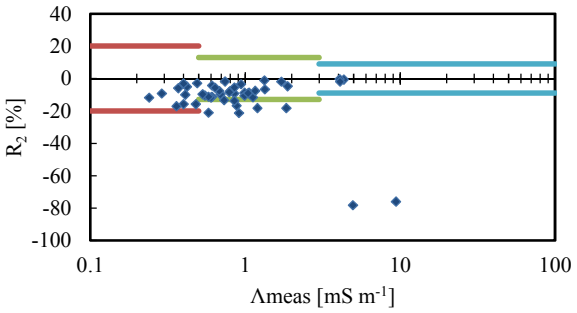


Fig. 3.31 b) Kuching Conductivity Agreement (R_2)

Calculated including formic acid, acetic acid, oxalic acid

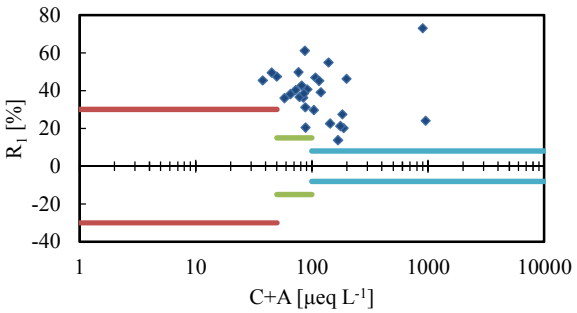


Fig. 3.32 a) Yangon Ion Balance (R_1)

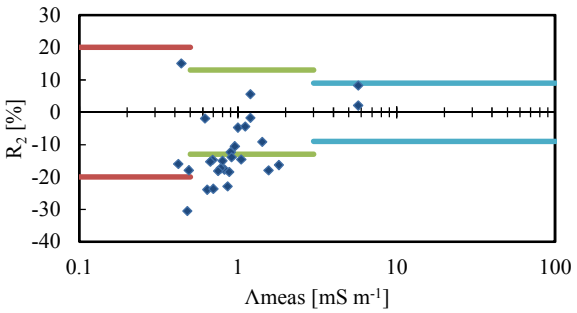


Fig. 3.32 b) Yangon Conductivity Agreement (R_2)

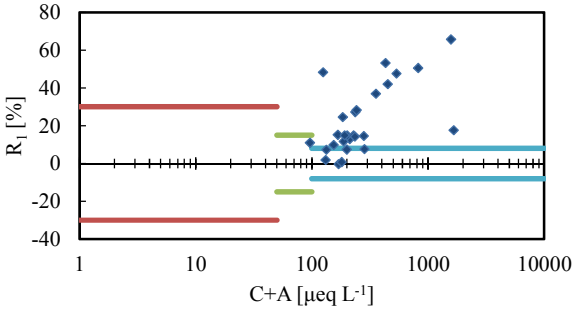


Fig. 3.33 a) Metro Manila Ion Balance (R_1)

Calculated including PO_4^{3-}

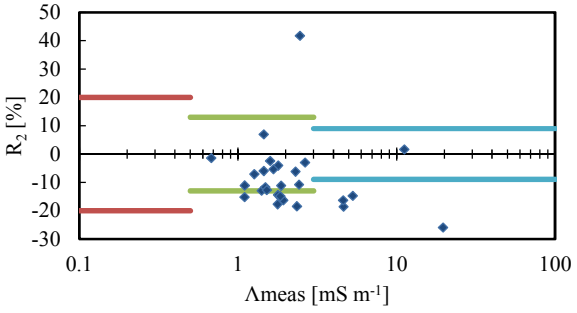


Fig. 3.33 b) Metro Manila Conductivy Agreement (R_2)

Calculated including PO_4^{3-}

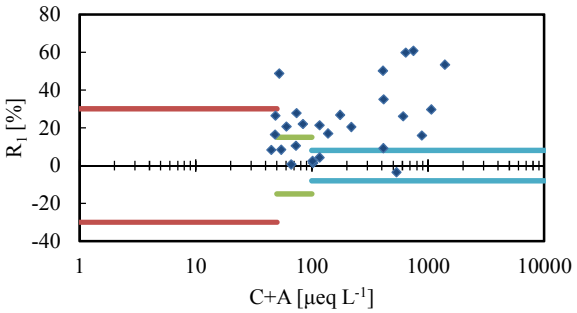


Fig. 3.34 a) Los Baños Ion Balance (R_1)

Calculated including PO_4^{3-}

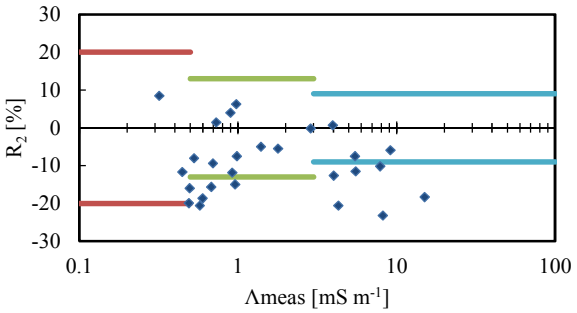


Fig. 3.34 b) Los Baños Conductivity Agreement (R_2)

Calculated including PO_4^{3-}

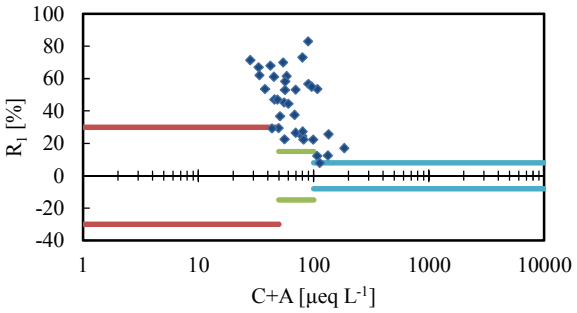


Fig. 3.35 a) Mt. Sto. Tomas Ion Balance (R_1)

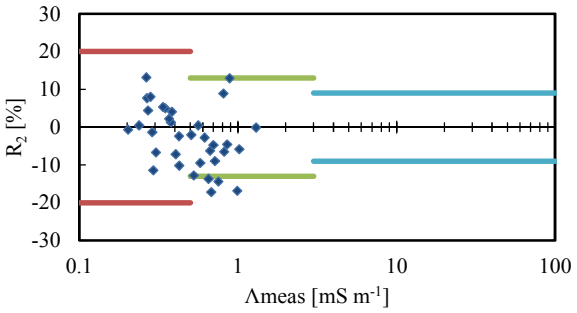


Fig. 3.35 b) Mt. Sto. Tomas Conductivity Agreement (R_2)

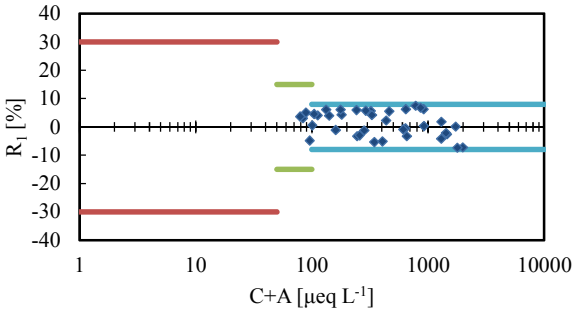


Fig. 3.36 a) Kanghwa Ion Balance (R_1)

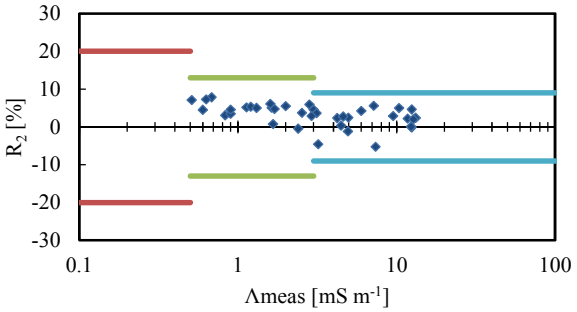


Fig. 3.36 b) Kanghwa Conductivity Agreement (R_2)

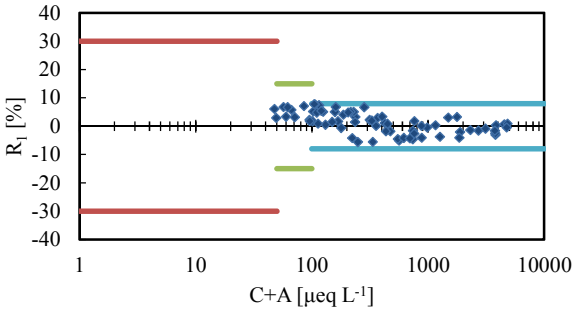


Fig. 3.37 a) Cheju Ion Balance (R_1)

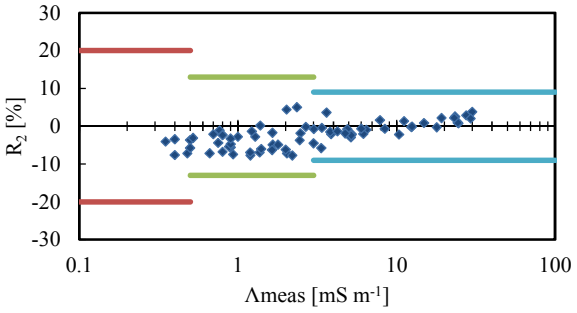


Fig. 3.37 b) Cheju Conductivity Agreement (R_2)

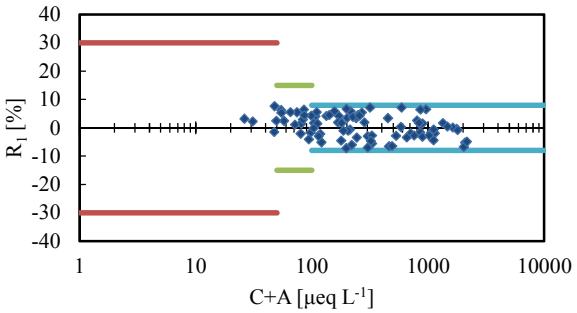


Fig. 3.38 a) Imsil Ion Balance (R_1)

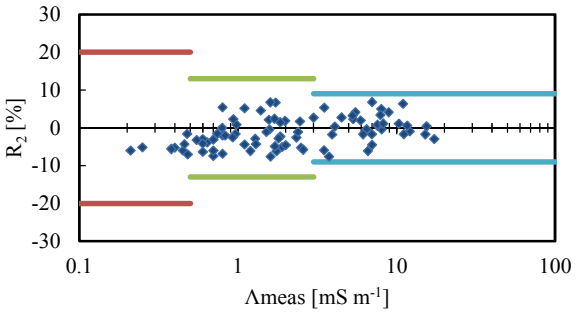


Fig. 3.38 b) Imsil Conductivity Agreement (R_2)

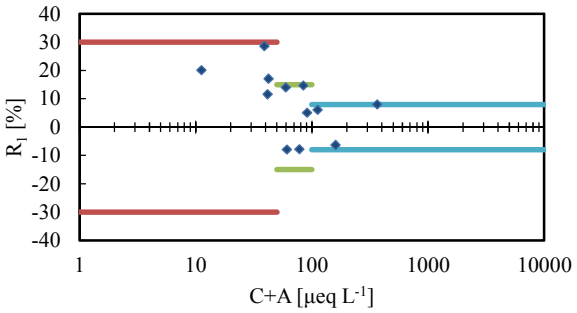


Fig. 3.39 a) Mondy Ion Balance (R_1)

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

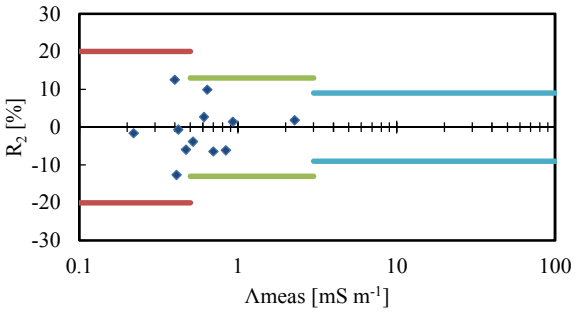


Fig. 3.39 b) Mondy Conductivity Agreement (R_2)

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

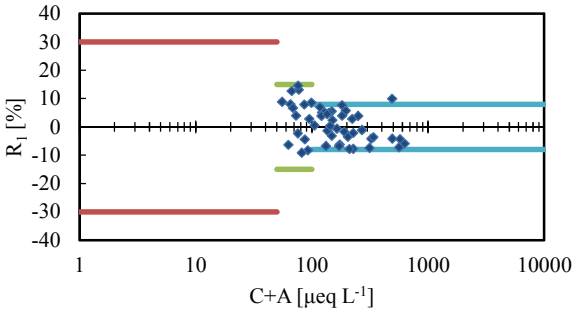


Fig. 3.40 a) Listvyanka Ion Balance (R_1)

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

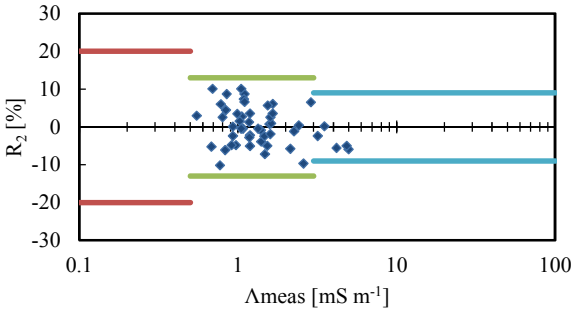


Fig. 3.40 b) Listvyanka Conductivity Agreement (R_2)

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

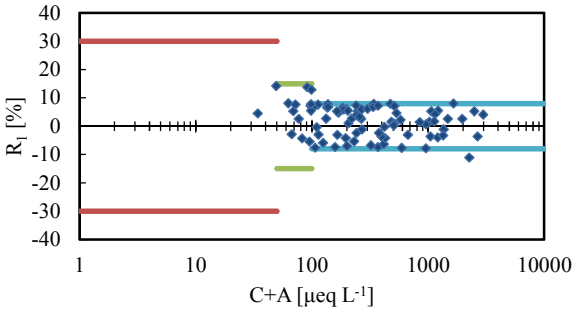


Fig. 3.41 a) Irkutsk Ion Balance (R_1)

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

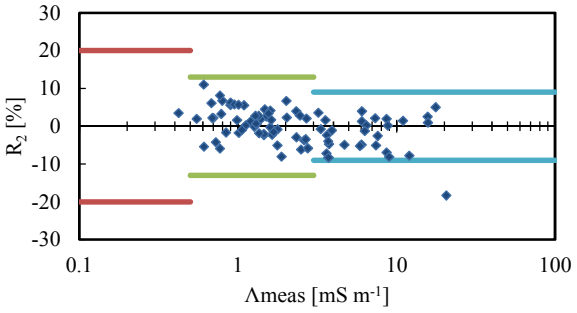


Fig. 3.41 b) Irkutsk Conductivity Agreement (R_2)

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

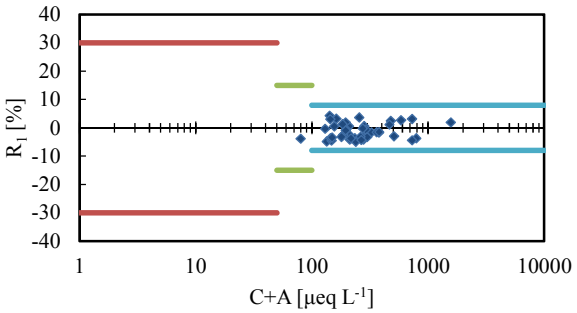


Fig. 3.42 a) Primorskaya Ion Balance (R_1)

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

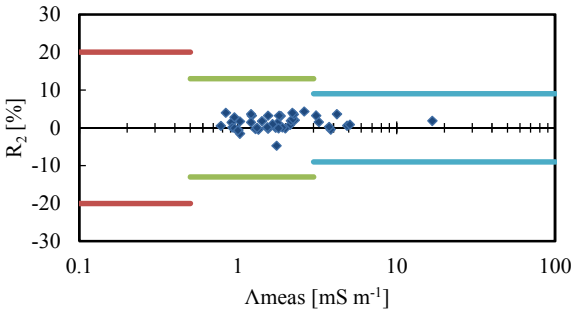


Fig. 3.42 b) Primorskaya Conductivity Agreement (R_2)

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

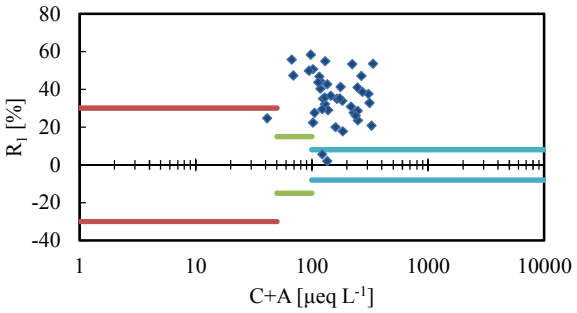


Fig. 3.43 a) Bangkok Ion Balance (R_1)

Calculated including PO_4^{3-}, formic acid, acetic acid

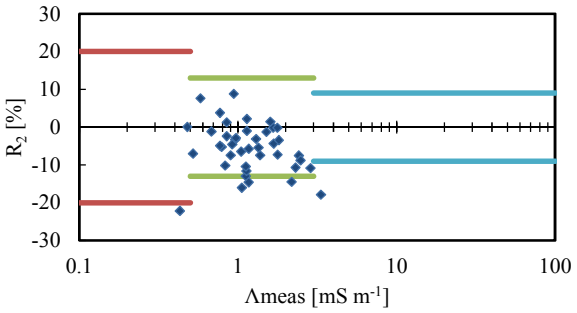


Fig. 3.43 b) Bangkok Conductivity Agreement (R_2)

Calculated including PO_4^{3-}, formic acid, acetic acid

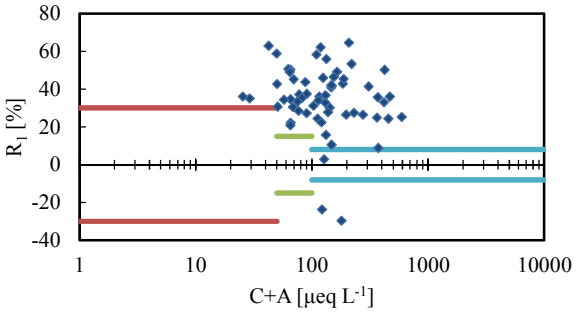


Fig. 3.44 a) Samutprakarn Ion Balance (R_1)

Calculated including PO_4^{3-}, formic acid, acetic acid

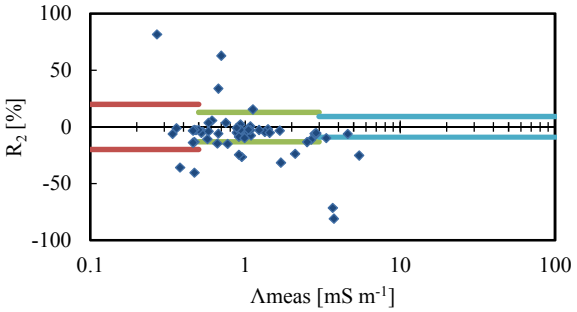


Fig. 3.44 b) Samutprakarn Conductivity Agreement (R_2)

Calculated including PO_4^{3-}, formic acid, acetic acid

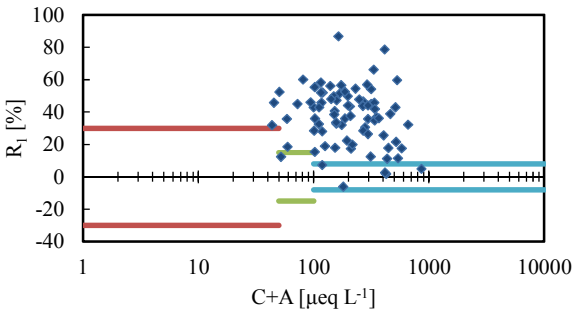


Fig. 3.45 a) Pathumthani Ion Balance (R_1)

Calculated including PO_4^{3-}, formic acid, acetic acid

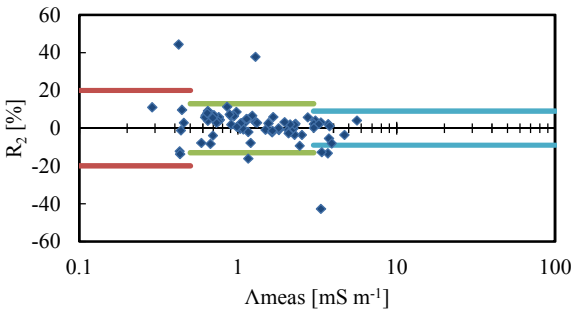


Fig. 3.45 b) Pathumthani Conductivity Agreement (R_2)

Calculated including PO_4^{3-}, formic acid, acetic acid

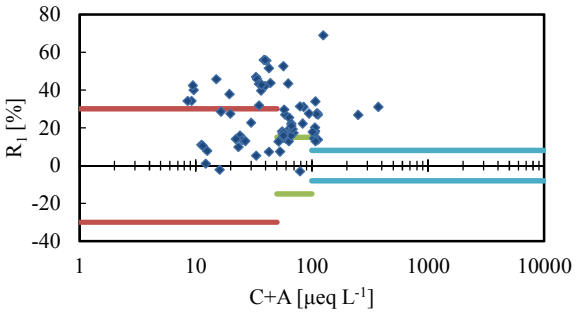


Fig. 3.46 a) Khanchanaburi Ion Balance (R_1)

Calculated including PO_4^{3-}, formic acid, acetic acid

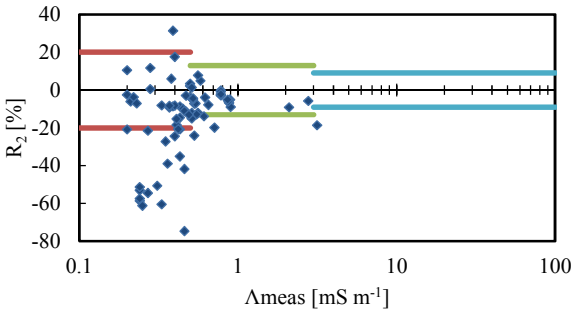


Fig. 3.46 b) Khanchanaburi Conductivity Agreement (R_2)

Calculated including PO_4^{3-}, formic acid, acetic acid

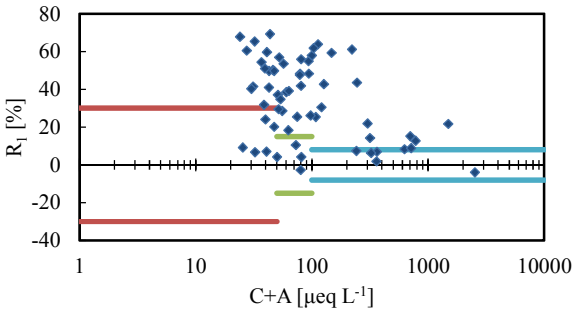


Fig. 3.47 a) Chiang Mai Ion Balance (R_1)

Calculated including PO_4^{3-}, formic acid, acetic acid

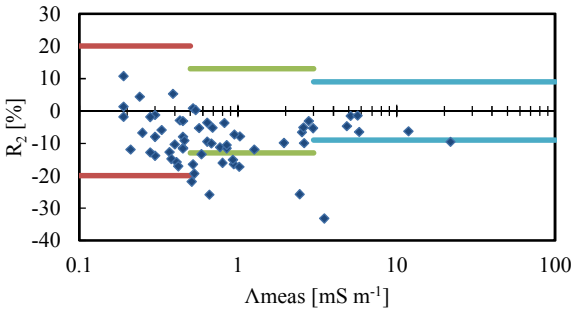


Fig. 3.47 b) Chiang Mai Conductivity Agreement (R_2)

Calculated including PO_4^{3-}, formic acid, acetic acid

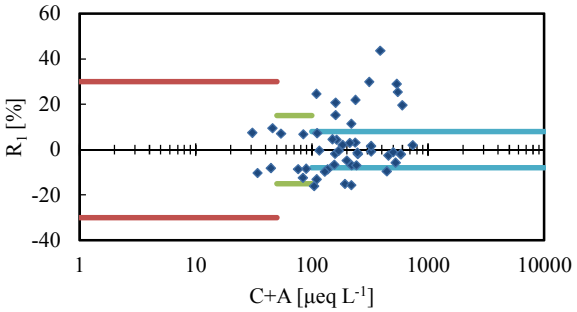


Fig. 3.48 a) Nakhon Ratchasima Ion Balance (R_1)

Calculated including PO_4^{3-}, formic acid, acetic acid

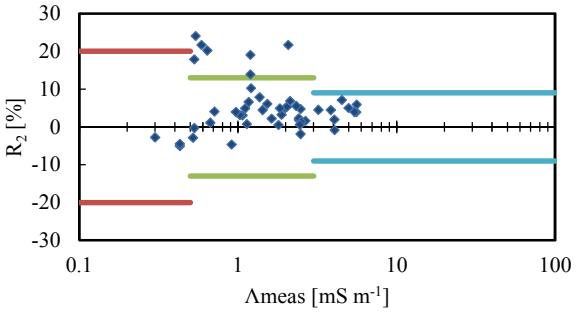


Fig. 3.48 b) Nakhon Ratchasima Conductivity Agreement (R_2)

Calculated including PO_4^{3-}, formic acid, acetic acid

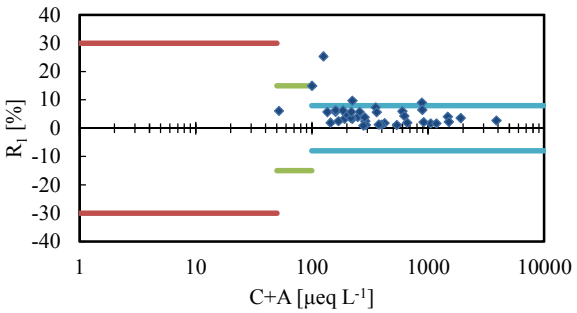


Fig. 3.49 a) Hanoi Ion Balance (R_1)

Calculated including F^-

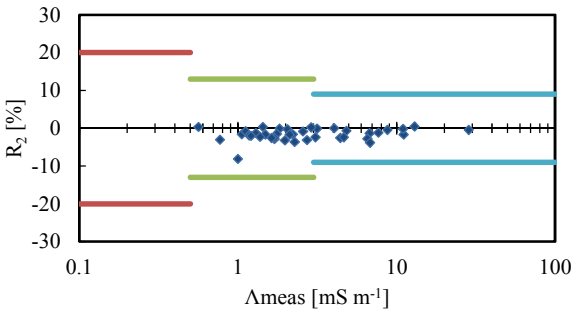


Fig. 3.49 b) Hanoi Conductivity Agreement (R_2)

Calculated including F^-

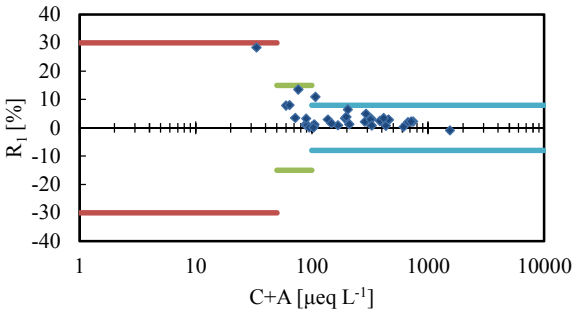


Fig. 3.50 a) Hoa Binh Ion Balance (R_1)

Calculated including F^-

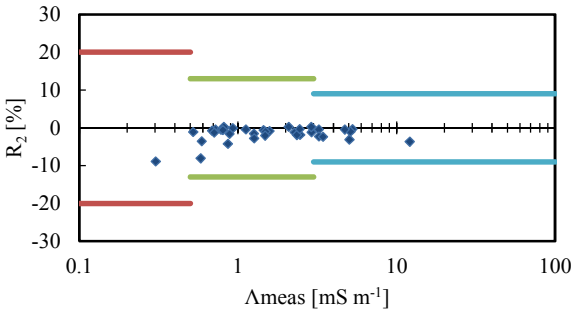


Fig. 3.50 b) Hoa Binh Conductivity Agreement (R_2)

Calculated including F^-

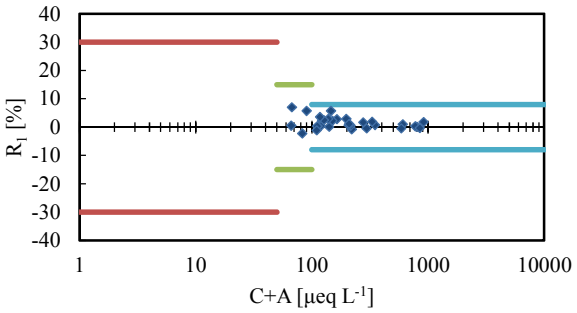


Fig. 3.51 a) Cuc Phuong Ion Balance (R_1)

Calculated including HCO_3^-, F^-

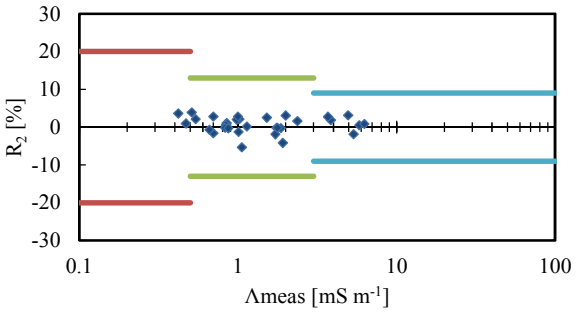


Fig. 3.51 b) Cuc Phuong Conductivity Agreement (R_2)

Calculated including HCO_3^-, F^-

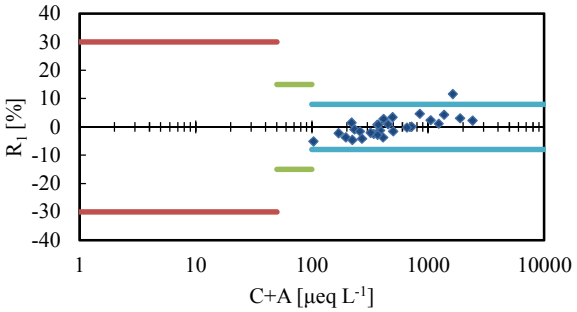


Fig. 3.52 a) Da Nang Ion Balance (R_1)

Calculated including HCO_3^-, F^-

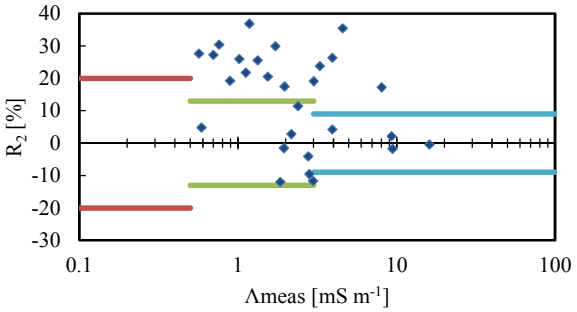


Fig. 3.52 b) Da Nang Conductivity Agreement (R_2)

Calculated including HCO_3^-, F^-

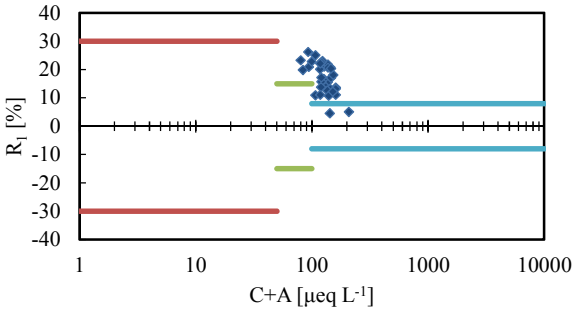


Fig. 3.53 a) Can Tho Ion Balance (R_1)

Calculated including F^-

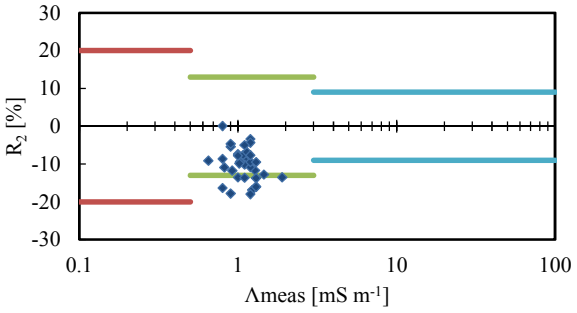


Fig. 3.53 b) Can Tho Conductivity Agreement (R_2)

Calculated including F^-

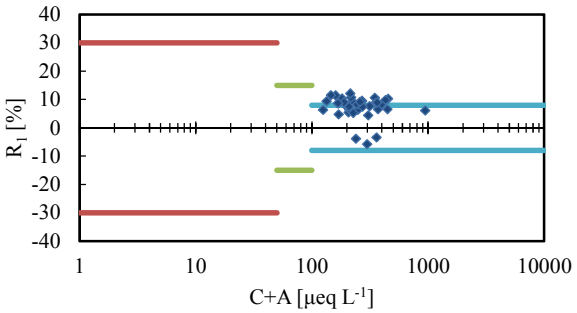


Fig. 3.54 a) Ho Chi Minh Ion Balance (R_1)

Calculated including F^-

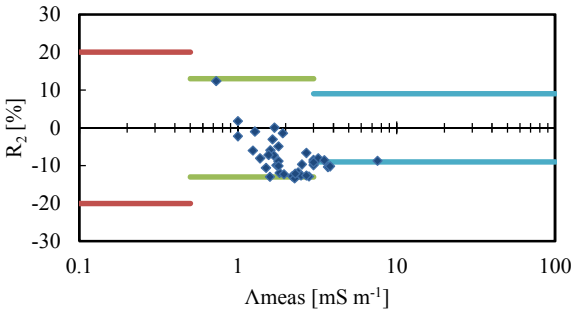


Fig. 3.54 b) Ho Chi Minh Conductivity Agreement (R_2)

Calculated including F^-

Table 3.90 Concentration, deposition and data completeness of HCO_3^-

Precipitation amount-weighted average concentration/ Precipitation amount										**unit : μmol L^{-1}**				
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	**Annual**
Japan	Ochiishi	*	*	*	*	*	*	*	*	27.5	*	*	*	27.5
Russia	Mondy	--	--	--	--	10.0	<1	--	66.7	--	4.54	46.2	7.40	4.31
	Listvyanka	<1	<1	<1	60.8	<1	<1	2.61	<1	<1	34.1	53.7	8.36	4.89
	Irkutsk	27.7	215	21.4	112	21.2	<1	6.29	<1	4.68	47.1	290	261	27.3
	Primorskaya	103	82.0	158	4.85	2.46	11.2	24.4	21.4	22.0	28.7	23.0	41.0	21.1
Vietnam	Cuc Phuong	*	60.1	36.0	46.0	23.7	<1	25.0	12.9	7.66	<1	<1	40.0	17.8
	Da Nang	55.0	--	*	62.8	*	40.0	43.8	118	69.7	57.2	78.9	51.6	58.1
Wet deposition amount										**unit: mmol $m^{-2}month^{-1}$ or mmol $m^{-2}year^{-1}$**				
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	**Annual**
Japan	Ochiishi	*	*	*	*	*	*	*	*	1.86	*	*	*	23.0
Russia	Mondy	0.00	0.00	0.00	0.00	0.239	<0.01	0.00	0.0667	0.00	0.0877	0.111	0.0274	0.531
	Listvyanka	<0.01	<0.01	<0.01	0.542	<0.01	<0.01	0.113	<0.01	<0.01	0.417	0.177	0.113	1.36
	Irkutsk	0.635	0.404	0.234	1.31	0.744	<0.01	0.485	<0.01	0.115	0.454	0.839	5.38	10.6
	Primorskaya	0.402	0.443	0.916	0.0675	0.259	0.523	2.17	0.945	3.00	2.16	2.22	0.856	13.6
Vietnam	Cuc Phuong	*	1.98	2.62	4.25	5.67	<0.01	10.7	3.60	0.835	<0.01	<0.01	1.27	30.2
	Da Nang	4.62	0.00	*	3.90	*	3.30	15.1	4.28	5.97	47.9	24.2	19.1	129
Data completeness										**%TP**				
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	**Annual**
Japan	Ochiishi	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9	0.0	0.0	0.0	1.0
Russia	Mondy	--	--	--	--	100	100	--	100	--	100	100	100	100
	Listvyanka	100	100	100	100	100	100	100	100	100	100	100	100	100
	Irkutsk	100	100	100	100	100	100	100	100	100	100	100	100	100
	Primorskaya	43.6	100	55.2	65.5	91.6	79.8	92.6	92.3	85.8	88.6	99.3	81.8	89.1
Vietnam	Cuc Phuong	0.0	63.5	98.1	90.0	99.3	100	100	100	98.9	91.5	91.6	84.5	97.4
	Da Nang	99.0	--	0.0	100	0.0	99.9	100	100	98.9	100	100	100	99.5

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

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

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

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

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

Table 3.91 Concentration, deposition and data completeness of F^-

Precipitation amount-weighted average concentration/ Precipitation amount											unit : µmol L^{-1}			
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	**Annual**
China	Haifu	58.3	33.5	4.82	8.09	4.66	5.07	3.06	6.31	4.31	5.04	6.82	21.5	6.04
	Jinyunshan	30.6	15.2	4.39	6.76	3.19	3.13	2.79	3.46	2.11	4.45	6.64	8.87	3.94
	Hongwen	--	7.52	24.7	15.3	<1	<1	<1	<1	--	--	2.59	4.49	3.29
	Xiaoping	--	1.99	15.4	50.2	1.11	<1	<1	2.00	12.9	6.16	3.53	4.82	4.01
	Xiang Zhou	--	12.7	9.98	8.77	3.74	3.19	1.84	3.35	8.88	8.71	4.33	5.56	4.88
Japan	Ochiishi	3.01	*	2.54	<1	<1	<1	<1	<1	<1	*	*	*	<1
	Ogasawara	<1	<1	3.49	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Tokyo	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Russia	Mondy	--	--	--	--	<1	<1	--	*	--	<1	<1	<1	<1
	Listvyanka	<1	7.59	20.6	18.2	3.99	8.41	2.95	2.21	11.0	3.71	12.8	4.11	5.25
	Irkutsk	8.08	15.6	19.9	11.8	8.28	5.45	2.78	1.99	<1	<1	<1	1.83	4.46
Vietnam	Hanoi	26.0	23.3	9.16	7.94	4.86	4.17	3.92	3.26	4.20	3.69	7.93	9.58	4.80
	Hoa Binh	*	*	10.1	7.02	3.52	2.67	2.14	1.76	<1	2.11	10.7	15.4	3.09
	Cuc Phuong	*	28.2	26.7	22.7	21.9	22.3	7.57	9.35	21.2	8.30	22.5	6.11	15.5
	Da Nang	<1	--	*	<1	*	<1	<1	1.55	<1	2.50	<1	1.03	1.18
	Can Tho	--	--	--	1.10	1.08	1.02	1.03	1.02	1.00	<1	<1	<1	1.00
	Ho Chi Minh	--	7.50	--	2.99	3.18	1.34	1.03	1.03	1.04	1.13	1.21	1.08	1.52
Wet deposition amount											unit: mmol $m^{-2}month^{-1}$ or mmol $m^{-2}year^{-1}$			
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	**Annual**
China	Haifu	0.530	0.480	0.900	0.904	0.619	1.11	0.347	1.39	1.03	0.407	0.495	0.352	8.55
	Jinyunshan	0.184	0.377	0.568	0.503	0.265	0.737	0.484	0.885	0.622	0.450	0.584	0.218	5.88
	Hongwen	0.00	0.873	1.22	1.03	0.331	0.0127	0.0176	<0.01	0.00	0.00	0.0152	0.216	3.72
	Xiaoping	0.00	0.153	1.05	2.52	0.335	0.0944	0.0673	0.182	0.670	0.0364	0.175	0.189	5.47
	Xiang Zhou	0.00	0.203	0.874	1.07	2.26	0.357	0.317	0.948	1.00	0.780	0.223	0.128	8.16
Japan	Ochiishi	0.0464	*	0.0736	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	*	*	*	0.0264
	Ogasawara	0.0302	0.0186	0.0896	0.0297	0.0489	0.0241	<0.01	<0.01	<0.01	0.0533	0.0282	0.0482	0.325
	Tokyo	<0.01	0.0494	0.0375	0.0520	0.0342	0.0731	0.0712	0.0356	0.0849	0.0219	0.0187	0.0145	0.499
Russia	Mondy	0.00	0.00	0.00	0.00	<0.01	<0.01	0.00	*	0.00	<0.01	<0.01	<0.01	<0.01
	Listvyanka	<0.01	0.0172	0.157	0.163	0.283	0.335	0.128	0.122	0.115	0.0455	0.0422	0.0557	1.46
	Irkutsk	0.185	0.0293	0.218	0.138	0.291	0.397	0.214	0.194	0.0243	<0.01	<0.01	0.0378	1.73
Vietnam	Hanoi	0.106	0.327	0.565	1.05	0.712	0.882	1.58	0.893	1.06	0.429	0.309	0.0689	7.98
	Hoa Binh	*	*	0.269	0.887	0.917	0.849	0.289	0.264	0.0528	0.164	0.156	0.164	4.03
	Cuc Phuong	*	0.929	1.95	2.09	5.24	6.39	3.23	2.61	2.32	0.814	0.724	0.194	26.4
	Da Nang	<0.01	0.00	*	0.0187	*	<0.01	0.0188	0.0562	0.0216	2.10	<0.01	0.380	2.61
	Can Tho	0.00	0.00	0.00	0.0691	0.214	0.204	0.437	0.176	0.0570	0.597	0.0907	<0.01	1.85
	Ho Chi Minh	0.00	0.173	0.00	0.309	0.687	0.248	0.203	0.334	0.260	0.427	0.189	0.0868	2.92
Data completeness											%TP			
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	**Annual**
China	Haifu	97.8	100	100	99.5	100	100	100	100	99.9	100	100	100	99.9
	Jinyunshan	100	100	100	100	100	100	100	100	100	100	100	100	100
	Hongwen	--	100	100	100	100	100	100	100	--	--	100	100	100
	Xiaoping	--	100	100	100	100	100	100	100	100	100	100	100	100
	Xiang Zhou	--	100	100	100	100	100	100	100	100	100	100	100	100
Japan	Ochiishi	16.2	0.0	7.5	97.1	99.9	99.7	99.1	86.4	100	0.0	0.0	0.0	71.4
	Ogasawara	100	97.7	18.3	99.2	99.8	98.0	100	98.5	100	99.6	99.8	100	98.1
	Tokyo	82.6	79.0	98.2	99.5	99.9	100	99.7	100	100	100	99.2	100	97.7
Russia	Mondy	--	--	--	--	100	100	--	0.0	--	100	100	100	99.2
	Listvyanka	100	100	100	100	100	100	100	100	100	100	100	100	100
	Irkutsk	100	100	100	100	100	100	100	100	100	100	100	100	100
Vietnam	Hanoi	100	100	100	100	100	100	100	100	100	100	100	100	100
	Hoa Binh	0.0	0.0	97.0	99.8	100	100	100	100	100	100	100	100	99.4
	Cuc Phuong	0.0	63.5	98.1	90.0	99.3	100	100	100	98.9	91.5	91.6	84.5	97.4
	Da Nang	99.0	--	0.0	100	0.0	99.9	100	100	98.9	100	100	100	99.5
	Can Tho	--	--	--	100	100	100	100	100	100	100	100	100	100
	Ho Chi Minh	--	100	--	99.3	100	100	100	100	100	100	100	98.4	99.9

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

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

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

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

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

Table 3.92 Concentration, deposition and data completeness of Br^-

Precipitation amount-weighted average concentration/ Precipitation amount											**unit : µmol L^{-1}**			
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	**Annual**
Japan	Ochiishi	<1	*	1.02	<1	<1	<1	<1	<1	<1	*	*	*	<1
Russia	Mondy	--	--	--	--	<1	<1	--	<1	--	<1	<1	<1	<1
	Listvyanka	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Irkutsk	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Primorskaya	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Wet deposition amount											**unit: mmol $m^{-2}month^{-1}$ or mmol $m^{-2}year^{-1}$**			
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	**Annual**
Japan	Ochiishi	<0.01	*	0.0294	<0.01	<0.01	<0.01	<0.01	0.0142	<0.01	*	*	*	0.0438
Russia	Mondy	0.00	0.00	0.00	0.00	<0.01	<0.01	0.00	<0.01	0.00	<0.01	<0.01	<0.01	<0.01
	Listvyanka	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Irkutsk	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Primorskaya	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Data completeness											**%TP**			
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	**Annual**
Japan	Ochiishi	25.9	0.0	19.6	97.1	99.9	99.7	99.1	86.4	100	0.0	0.0	0.0	72.0
Russia	Mondy	--	--	--	--	100	100	--	100	--	100	100	100	100
	Listvyanka	100	100	100	100	100	100	100	100	100	100	100	100	100
	Irkutsk	100	100	100	100	100	100	100	100	100	100	100	100	100
	Primorskaya	43.6	100	55.2	65.5	91.6	79.8	92.6	92.3	85.8	88.6	99.3	81.8	89.1

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

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

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

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

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

Table 3.93 Concentration, deposition and data completeness of NO_2^-

Precipitation amount-weighted average concentration/ Precipitation amount														**unit : μmol L^{-1}**
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	**Annual**
Japan	Ochiishi	*	*	*	<1	<1	<1	<1	<1	<1	*	*	*	<1
	Ogasawara	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Tokyo	3.81	<1	1.26	<1	<1	<1	1.07	<1	<1	<1	1.31	2.26	<1
Russia	Mondy	--	--	--	--	<1	<1	--	<1	--	<1	<1	<1	<1
	Listvyanka	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Irkutsk	<1	1.18	<1	<1	<1	<1	<1	<1	<1	1.54	<1	1.37	<1
	Primorskaya	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Wet deposition amount														**unit: mmol $m^{-2}month^{-1}$ or mmol $m^{-2}year^{-1}$**
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	**Annual**
Japan	Ochiishi	*	*	*	0.0234	<0.01	<0.01	<0.01	<0.01	<0.01	*	*	*	0.0529
	Ogasawara	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Tokyo	0.101	0.141	0.142	0.131	0.0799	0.304	0.0981	0.102	0.0907	0.148	0.124	0.117	1.56
Russia	Mondy	0.00	0.00	0.00	0.00	<0.01	<0.01	0.00	<0.01	0.00	<0.01	<0.01	<0.01	0.0151
	Listvyanka	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0329
	Irkutsk	<0.01	<0.01	<0.01	<0.01	0.0105	<0.01	<0.01	<0.01	<0.01	0.0148	<0.01	0.0281	0.0947
	Primorskaya	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Data completeness														**%TP**
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	**Annual**
Japan	Ochiishi	0.0	0.0	0.0	97.1	99.9	99.7	99.1	86.4	100	0.0	0.0	0.0	70.8
	Ogasawara	100	97.7	18.3	99.2	99.8	98.0	100	98.5	100	99.6	99.8	100	98.1
	Tokyo	82.6	79.0	98.2	99.5	99.9	100	99.7	100	100	100	99.2	100	97.7
Russia	Mondy	--	--	--	--	100	100	--	100	--	100	100	100	100
	Listvyanka	100	100	100	100	100	100	100	100	100	100	100	100	100
	Irkutsk	100	100	100	100	100	100	100	100	100	100	100	100	100
	Primorskaya	43.6	100	55.2	65.5	91.6	79.8	92.6	92.3	85.8	88.6	99.3	81.8	89.1

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

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

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

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

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

Table 3.94 Concentration, deposition and data completeness of PO_4^{3-}

Precipitation amount-weighted average concentration/ Precipitation amount												**unit : µmol L^{-1}**		
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	**Annual**
Japan	Ochiishi	*	*	*	<1	<1	<1	<1	<1	<1	*	*	*	<1
Philippines	Metro Manila	--	*	13.3	*	<1	<1	<1	5.12	<1	7.78	25.3	*	2.76
	Los Baños	*	45.6	20.7	*	10.4	1.15	6.32	1.80	<1	<1	18.7	*	4.31
Thailand	Bangkok	--	--	--	--	<1	<1	<1	<1	<1	<1	--	--	<1
	Samutprakarn	--	--	--	--	<1	<1	<1	<1	<1	<1	--	--	<1
	Pathumthani	--	--	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Khanchanaburi	--	--	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	<1
	Chiang Mai	--	--	1.68	<1	<1	<1	<1	<1	--	--	--	--	<1
	Nakhon Ratchasima	--	--	<1	<1	<1	<1	8.64	<1	--	--	--	--	1.69
Wet deposition amount												**unit: mmol $m^{-2}month^{-1}$ or mmol $m^{-2}year^{-1}$**		
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	**Annual**
Japan	Ochiishi	*	*	*	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	*	*	*	<0.01
Philippines	Metro Manila	0.00	*	0.287	*	<0.01	<0.01	0.509	1.17	0.309	2.78	1.63	*	7.25
	Los Baños	*	0.173	0.602	*	1.24	0.133	3.37	0.369	0.127	<0.01	1.98	*	8.94
Thailand	Bangkok	0.00	0.00	0.00	0.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	0.00	<0.01
	Samutprakarn	0.00	0.00	0.00	0.00	0.0436	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	0.00	0.0436
	Pathumthani	0.00	0.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0319	<0.01	<0.01	<0.01	0.0446
	Khanchanaburi	0.00	0.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	0.0124
	Chiang Mai	0.00	0.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	0.00	0.00	0.00	0.0148
	Nakhon Ratchasima	0.00	0.00	<0.01	0.0605	0.0515	<0.01	0.606	<0.01	0.00	0.00	0.00	0.00	0.720
Data completeness												**%TP**		
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	**Annual**
Japan	Ochiishi	0.0	0.0	0.0	97.1	99.9	99.7	99.1	86.4	100	0.0	0.0	0.0	70.8
Philippines	Metro Manila	--	0.0	100	0.0	71.6	88.0	100	100	100	100	96.3	0.0	91.5
	Los Baños	0.0	89.5	99.7	0.0	100	77.9	44.2	100	100	100	51.1	0.0	57.0
Thailand	Bangkok	--	--	--	--	100	100	100	100	100	100	--	--	100
	Samutprakarn	--	--	--	--	100	100	100	100	100	100	--	--	100
	Pathumthani	--	--	100	100	100	100	100	100	100	100	100	100	100
	Khanchanaburi	--	--	100	100	100	100	100	100	100	100	100	--	100
	Chiang Mai	--	--	100	100	100	100	100	100	--	--	--	--	100
	Nakhon Ratchasima	--	--	100	100	100	100	99.4	100	--	--	--	--	99.9

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

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

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

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

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

Table 3.95 Concentration, deposition and data completeness of Formic Acid

Precipitation amount-weighted average concentration/ Precipitation amount														**unit : μmol L $^{-1}$**
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	**Annual**
Malaysia	Petaling Jaya	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Tanah Rata	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Danum Valley	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Kuching	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thailand	Bangkok	--	--	--	--	4.00	4.07	1.20	2.77	1.56	<1	--	--	2.08
	Samutprakarn	--	--	--	--	2.05	<1	<1	<1	<1	<1	--	--	<1
	Pathumthani	--	--	<1	1.11	2.07	3.29	<1	<1	<1	1.48	<1	<1	1.31
	Khanchanaburi	--	--	<1	<1	<1	<1	<1	1.03	<1	<1	<1	--	<1
	Chiang Mai	--	--	34.8	4.21	1.73	<1	<1	<1	--	--	--	--	1.10
	Nakhon Ratchasima	--	--	16.5	24.6	13.8	4.70	2.92	1.22	--	--	--	--	10.5
Wet deposition amount									**unit: mmol m $^{-2}$month^{-1} or mmol m^{-2}year^{-1}**					
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	**Annual**
Malaysia	Petaling Jaya	<0.01	<0.01	0.0251	0.0985	0.0144	<0.01	<0.01	0.0460	<0.01	0.0252	<0.01	<0.01	0.221
	Tanah Rata	<0.01	0.0154	0.0123	0.0698	0.0554	0.0363	0.0216	0.0297	<0.01	0.0587	0.0557	0.0380	0.393
	Danum Valley	<0.01	<0.01	0.0251	0.0238	0.0225	0.0185	0.0375	0.0135	<0.01	<0.01	0.0156	<0.01	0.186
	Kuching	<0.01	0.0228	<0.01	<0.01	0.0254	0.0163	0.116	0.0351	0.0158	0.0174	<0.01	<0.01	0.243
Thailand	Bangkok	0.00	0.00	0.00	0.00	0.0200	0.728	0.127	0.851	0.376	<0.01	0.00	0.00	2.10
	Samutprakarn	0.00	0.00	0.00	0.00	0.301	0.0380	0.0338	0.230	0.0154	<0.01	0.00	0.00	0.620
	Pathumthani	0.00	0.00	<0.01	0.0293	0.126	0.709	0.0710	<0.01	0.0908	0.335	0.0174	<0.01	1.39
	Khanchanaburi	0.00	0.00	0.0721	<0.01	0.0280	0.102	0.0235	0.195	0.0118	0.0457	<0.01	0.00	0.494
	Chiang Mai	0.00	0.00	0.0487	0.159	0.312	0.0529	<0.01	<0.01	0.00	0.00	0.00	0.00	0.579
	Nakhon Ratchasima	0.00	0.00	0.857	1.95	0.866	0.552	0.204	0.0554	0.00	0.00	0.00	0.00	4.49
Data completeness										**%TP**				
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	**Annual**
Malaysia	Petaling Jaya	99.3	100	99.2	100	100	100	100	99.5	100	100	100	100	99.9
	Tanah Rata	87.6	86.4	100	100	100	100	87.2	98.1	100	100	100	97.2	98.7
	Danum Valley	68.4	100	100	100	100	100	100	50.9	86.8	98.9	100	8.9	80.6
	Kuching	100	98.2	93.7	100	100	100	94.8	100	100	100	100	100	99.5
Thailand	Bangkok	--	--	--	--	100	100	100	100	100	100	--	--	100
	Samutprakarn	--	--	--	--	100	100	100	100	100	100	--	--	100
	Pathumthani	--	--	100	100	100	100	100	100	100	100	100	100	100
	Khanchanaburi	--	--	100	100	100	100	100	100	100	100	100	--	100
	Chiang Mai	--	--	100	100	100	100	100	100	--	--	--	--	100
	Nakhon Ratchasima	--	--	100	100	100	100	99.4	100	--	--	--	--	99.9

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

[0.00] for deposition: The deposition was 0 mmol m $^{-2}$ because precipitation was 0 mm.

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

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

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

Table 3.96 Concentration, deposition and data completeness of Acetic Acid

Precipitation amount-weighted average concentration/ Precipitation amount														**unit : µmol L $^{-1}$**
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	**Annual**
Malaysia	Petaling Jaya	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Tanah Rata	<1	<1	<1	<1	<1	1.06	<1	<1	<1	<1	<1	<1	<1
	Danum Valley	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Kuching	<1	<1	<1	<1	<1	<1	1.13	<1	<1	<1	<1	<1	<1
Thailand	Bangkok	--	--	--	--	3.38	5.23	1.62	3.04	2.81	<1	--	--	2.70
	Samutprakarn	--	--	--	--	1.03	<1	<1	<1	<1	<1	--	--	<1
	Pathumthani	--	--	<1	<1	1.81	2.92	1.73	<1	<1	1.26	<1	<1	1.29
	Khanchanaburi	--	--	2.10	<1	<1	<1	<1	<1	<1	<1	<1	--	<1
	Chiang Mai	--	--	<1	<1	<1	<1	<1	<1	--	--	--	--	<1
	Nakhon Ratchasima	--	--	1.90	14.6	12.3	3.95	3.47	1.08	--	--	--	--	6.53
Wet deposition amount									**unit: mmol m $^{-2}$month^{-1} or mmol m^{-2}year^{-1}**					
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	**Annual**
Malaysia	Petaling Jaya	<0.01	0.0103	0.0247	0.115	0.0398	<0.01	<0.01	0.0940	0.0605	0.0954	<0.01	0.0954	0.544
	Tanah Rata	0.0201	0.0103	0.0598	0.158	0.173	0.111	<0.01	0.0430	0.362	0.152	0.0793	0.0992	1.28
	Danum Valley	0.0312	<0.01	0.0252	0.0903	0.0372	0.0326	0.115	0.0370	0.0197	0.0274	0.0772	0.119	0.586
	Kuching	0.0900	0.0277	<0.01	<0.01	0.0891	<0.01	0.144	0.0597	0.0411	0.0520	<0.01	0.139	0.651
Thailand	Bangkok	0.00	0.00	0.00	0.00	0.0169	0.935	0.171	0.934	0.676	<0.01	0.00	0.00	2.73
	Samutprakarn	0.00	0.00	0.00	0.00	0.151	0.0425	0.0651	0.101	0.0215	<0.01	0.00	0.00	0.384
	Pathumthani	0.00	0.00	<0.01	0.0234	0.110	0.629	0.150	<0.01	0.132	0.284	0.0295	<0.01	1.37
	Khanchanaburi	0.00	0.00	0.163	0.0146	0.0345	0.0978	0.0255	0.0846	0.0271	0.0500	0.0179	0.00	0.515
	Chiang Mai	0.00	0.00	<0.01	<0.01	0.0391	0.0228	0.0870	<0.01	0.00	0.00	0.00	0.00	0.150
	Nakhon Ratchasima	0.00	0.00	0.0984	1.16	0.771	0.464	0.244	0.0493	0.00	0.00	0.00	0.00	2.79
Data completeness											**%TP**			
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	**Annual**
Malaysia	Petaling Jaya	99.3	100	99.2	100	100	100	100	99.5	100	100	100	100	99.9
	Tanah Rata	87.6	86.4	100	100	100	100	87.2	98.1	100	100	100	97.2	98.7
	Danum Valley	68.4	100	100	100	100	100	100	50.9	86.8	98.9	100	8.9	80.6
	Kuching	100	98.2	93.7	100	100	100	94.8	100	100	100	100	100	99.5
Thailand	Bangkok	--	--	--	--	100	100	100	100	100	100	--	--	100
	Samutprakarn	--	--	--	--	100	100	100	100	100	100	--	--	100
	Pathumthani	--	--	100	100	100	100	100	100	100	100	100	100	100
	Khanchanaburi	--	--	100	100	100	100	100	100	100	100	100	--	100
	Chiang Mai	--	--	100	100	100	100	100	100	--	--	--	--	100
	Nakhon Ratchasima	--	--	100	100	100	100	99.4	100	--	--	--	--	99.9

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

[0.00] for deposition: The deposition was 0 mmol m $^{-2}$ because precipitation was 0 mm.

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

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

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

Table 3.97 Concentration, deposition and data completeness of Oxalic Acid

Precipitation amount-weighted average concentration/ Precipitation amount														**unit : µmol L $^{-1}$**
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	**Annual**
Malaysia	Petaling Jaya	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Tanah Rata	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Danum Valley	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Kuching	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Wet deposition amount														**unit: mmol m $^{-2}$month^{-1} or mmol m^{-2}year^{-1}**
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	**Annual**
Malaysia	Petaling Jaya	<0.01	<0.01	<0.01	<0.01	0.0224	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0286
	Tanah Rata	<0.01	0.0352	0.0165	0.0350	0.0513	0.0345	0.0183	0.0195	0.0174	0.0706	0.0480	0.0372	0.384
	Danum Valley	0.0196	<0.01	0.0317	0.0592	0.0139	<0.01	0.0116	<0.01	<0.01	<0.01	<0.01	<0.01	0.164
	Kuching	<0.01	<0.01	<0.01	<0.01	0.0149	<0.01	0.0102	0.0153	<0.01	<0.01	<0.01	<0.01	0.0555
Data completeness														**%TP**
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	**Annual**
Malaysia	Petaling Jaya	99.3	100	99.2	100	100	100	100	99.5	100	100	100	100	99.9
	Tanah Rata	87.6	86.4	100	100	100	100	87.2	98.1	100	100	100	97.2	98.7
	Danum Valley	68.4	100	100	100	100	100	100	50.9	86.8	98.9	100	8.9	80.6
	Kuching	100	98.2	93.7	100	100	100	94.8	100	100	100	100	100	99.5

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

[0.00] for deposition: The deposition was 0 mmol m $^{-2}$ because precipitation was 0 mm.

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

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

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

CHAPTER 4

Dry Deposition Monitoring

(Air Concentration)

4. Dry Deposition (Air Concentration) Monitoring

4.1 Method

Automatic monitoring and manual monitoring methods were used to implement the dry deposition (air concentration) monitoring in 2014. The monitoring items were selected, taking into account the priority chemical species defined in the "Strategy Paper for Future Direction of Dry Deposition Monitoring of EANET (Second Edition, 2005; 2011-2015 Edition, 2010)".

4.1.1 Automatic Monitoring Method

In the "Strategy Paper for Future Direction of Dry Deposition Monitoring of EANET (Second Edition and 2011-2015 Edition)", it was mentioned that the first priority chemical species of SO_2, NO, NO_2 (at urban sites), O_3, and PM_{10} and the second priority chemical species of NO_2 (at rural and remote sites) and $PM_{2.5}$ are monitored by automatic monitoring methods. The criteria and quality assurance/quality control (QA/QC) for automatic monitoring methods is described in the Chapter 3 of "Technical Manual for Air Concentration Monitoring in East Asia (2013)".

4.1.2 Manual Monitoring Method

Filter pack and passive sampler are used for manual monitoring in EANET. The filter pack method are used to determine gaseous substances (SO_2, HNO_3, HCl, NH_3) and particulate matter components (SO_4^{2-}, NO_3^-, Cl^-, NH_4^+, Na^+, K^+, Mg^{2+}, Ca^{2+}), which are identified as the first priority chemical species in EANET. The passive sampler method are used to determine gaseous species of SO_2, O_3, NO_2 in EANET The recommended monitoring method by means of the four-stage filter pack was explained in the "Technical Manual". Basic specifications of the four-stage filter pack method are shown in Fig. 4.1. The criteria and quality assurance/quality control (QA/QC) for manual monitoring methods is described in the Chapter 4 of "Technical Manual".

4.1.3 Monitoring Sites

The measurement methods and parameters at each monitoring site for dry deposition (air concentration) monitoring in 2014 are shown in Table 4.1. Automatic monitors were used in China, Japan, Republic of Korea, Russia and Thailand. The individual methods adopted at each site are shown in Table 4.2.

The filter pack methods were used in Cambodia, Indonesia, Japan, Lao PDR, Malaysia, Mongolia, Myanmar, Philippines, Republic of Korea, Russia, Thailand and Vietnam in 2014.

Preparation of filter pack

Stage	Specification of filter	Collected species
1st (F0)	PTFE filter (pore size: 0.8 μm, diameter: 47 mm)	Aerosols
2nd (F1)	Polyamide filter (pore size: 0.45 μm, diameter: 47 mm)	HNO_3, SO_2, HCl, NH_3
3rd (F2)	Impregnated cellulose filter Solution: 6% K_2CO_3 + 2% glycerin	SO_2, HCl
4th (F3)	Impregnated cellulose filter Solution: 5% H_3PO_4 + 2% glycerin	NH_3

↓

Sampling on site

Air flow rate: approximately 1 or 2 liter/minute
Sampling period: one week or two weeks

↓

Pretreatment of filter pack

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

↓

Chemical analysis

By ion chromatography or other suitable analytical methods

Fig. 4.1 Specification of the four-stage filter pack method

Table 4.1 Sampling methods and parameters for dry deposition (air concentration) monitoring in 2014

Country	Site	Classification	Method	Parameter
Cambodia	Phnom Penh	Urban	FP	SO_2, HNO_3, HCl, NH_3, PMC
China	Chongqing			
	- Jinyunshan	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	Jakarta [1)]	Urban	FP	SO_2, HNO_3, HCl, NH_3, PMC
			PS	SO_2, NO_2
	Serpong	Rural	FP	SO_2, HNO_3, HCl, NH_3, PMC
	Kototabang	Remote	PS	SO_2, NO_2
	Bandung [2)]	Urban	FP	SO_2, HNO_3, HCl, NH_3, PMC
			PS	SO_2, NO_2
Japan	Rishiri	Remote	AT	SO_2, NO, NO_x*, O_3, $PM_{10}/_{2.5}$
			FP	HNO_3, HCl, NH_3, PMC
	Ochiichi	Remote	AT	SO_2, NO, NO_x*, O_3, $PM_{10}/_{2.5}$
			FP	HNO_3, HCl, NH_3, PMC
	Tappi	Remote	AT	SO_2, NO, NO_x*, O_3, PM_{10}
			FP	HNO_3, HCl, NH_3, PMC
	Sado-seki	Remote	AT	SO_2, NO, NO_x*, O_3, $PM_{10,2.5}$
			FP	HNO_3, HCl, NH_3, PMC
	Happo	Remote	AT	SO_2, NO, NO_x*, O_3, PM_{10}
			FP	HNO_3, HCl, NH_3, PMC
	Ijira	Rural	AT	SO_2, NO, NO_x*, O_3, PM_{10}
			FP	HNO_3, HCl, NH_3, PMC
	Oki	Remote	AT	SO_2, NO, NO_x*, O_3, $PM_{10}/_{2.5}$
			FP	HNO_3, HCl, NH_3, PMC
	Banryu	Urban	AT	SO_2, NO, NO_2, NO_x, O_3, PM_{10}
			FP	HNO_3, HCl, NH_3, PMC
	Yusuhara	Remote	AT	SO_2, NO, NO_x*, O_3, PM_{10}
			FP	HNO_3, HCl, NH_3, PMC
	Hedo	Remote	AT	SO_2, NO, NO_x*, O_3, PM_{10}
			FP	HNO_3, HCl, NH_3, PMC
	Ogasawara	Remote	AT	SO_2, NO, NO_x*, O_3, PM_{10}
			FP	HNO_3, HCl, NH_3, PMC
	Tokyo	Urban	FP	SO_2, HNO_3, HCl, NH_3, PMC
Lao PDR	Vientiane [3)]	Urban	FP	SO_2, HNO_3, HCl, NH_3, PMC
Malaysia	Petaling Jaya	Urban	FP	SO_2, HNO_3, HCl, NH_3, PMC
	Tanah Rata	Remote	FP	SO_2, HNO_3, HCl, NH_3, PMC
	Danum Valley	Remote	FP	SO_2, HNO_3, HCl, NH_3, PMC

Table 4.1 Sampling methods and parameters for dry deposition (air concentration) monitoring in 2014 (continued)

Country	Site	Classification	Method	Parameter
Mongolia	Ulaanbaatar [4)]	Urban	FP	SO_2, HNO_3, HCl, NH_3, PMC
	Terelj [4)]	Remote	FP	SO_2, HNO_3, HCl, NH_3, PMC
Myanmar	Yangon	Urban	FP	SO_2, HNO_3, HCl, NH_3, PMC
Philippines	Metro Manila [4)]	Urban	FP	SO_2, HNO_3, HCl, NH_3, PMC
	Los Banos [4)]	Rural	FP	SO_2, HNO_3, HCl, NH_3, PMC
	Mt. Sto. Tomas	Remote	FP	SO_2, HNO_3, HCl, NH_3, PMC
Republic of Korea	Kanghwa	Rural	AT	SO_2, NO_2, O_3, PM_{10}
			FP	HNO_3, HCl, NH_3, PMC in $PM_{2.5}$
	Cheju	Remote	AT	SO_2, NO_2, O_3, PM_{10}
	(Kosan)		FP	HNO_3, HCl, NH_3, PMC in $PM_{2.5}$
	Imsil	Rural	AT	SO_2, NO_2, O_3, PM_{10}
			FP	HNO_3, HCl, NH_3, PMC in $PM_{2.5}$
Russia	Mondy	Remote	AT	O_3
			FP	SO_2, HNO_3, HCl, NH_3, PMC
	Listvyanka [5)]	Rural	FP	SO_2, HNO_3, HCl, NH_3, PMC
			PS	O_3
	Irkutsk	Urban	FP	SO_2, HNO_3, HCl, NH_3, PMC
	Primorskaya	Rural	FP	SO_2, HNO_3, HCl, NH_3, PMC
Thailand	Bangkok	Urban	AT	SO_2, NO, NO_2, NO_x, O_3, PM_{10}
			FP	HNO_3, HCl, NH_3, PMC
	Samutprakarn	Urban	AT	SO_2, NO, NO_2, NO_x, O_3, PM_{10}
	Pathumthani [4)]	Rural	FP	SO_2, HNO_3, HCl, NH_3, PMC
	Khanchanaburi [6)]	Remote	AT	SO_2, NO, NO_x*, O_3, PM_{10}
	(Vachiralongkorn Dam)		FP	HNO_3, HCl, NH_3, PMC
	Chiang Mai	Rural	AT	SO_2, NO, NO_x*, O_3, PM_{10}
	(Mae Hia)		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
	Can Tho [7)]	Rural	FP	SO_2, HNO_3, HCl, NH_3, PMC
	Ho Chi Minh [7)]	Urban	FP	SO_2, HNO_3, HCl, NH_3, PMC

AT: Automatic monitor, PS: Passive sampler, FP: Filter pack, PMC: particulate matter components.
NOx*: NOx measured by CLD in remote or rural sites.

Note:

1) FP monitoring at Jakarta started in June 2014.
2) FP monitoring at Bandung started in April 2014.
3) FP monitoring at Vientiane was included in the National Monitoring Plan but has not started yet.
4) FP monitoring data at Ulaanbaatar, Terelj, Metro Manila, Los Banos and Pathumthani were not submitted in 2014.
5) O_3 monitoring at Listvyanka started in January, 2014

6) 2 week Intensive monitoring at Khanchanaburi was implemented 3 times per year due to availability of monitoring in remote area.
7) FP monitoring at Can Tho and Ho Chi Minh started in January, 2014.

Table 4.2 Methods of automatic monitors in 2014

Country	Site	Parameter				
		SO_2	NO_x	O_3	PM_{10}	$PM_{2.5}$
China	Jinyunshan	UVF	CLD	–	β–ray	
	Hongwen	DOAS	DOAS	–	TEOM	
	Xianzhou	DOAS	DOAS	–	TEOM	
Japan	Rishiri	UVF	CLD	UVP	β–ray	β–ray
	Ochiishi	UVF	CLD	UVP	β–ray	β–ray
	Tappi	UVF	CLD	UVP	TEOM	
	Sado-seki [1)]	UVF	CLD	UVP	TEOM/ β–ray	β–ray
	Happo	UVF	CLD	UVP	β–ray	
	Ijira	UVF	CLD	UVP	TEOM	
	Oki	UVF	CLD	UVP	β–ray	β–ray
	Banryu	UVF	CLD	UVP	TEOM	
	Yusuhara	UVF	CLD	UVP	β–ray	
	Hedo	UVF	CLD	UVP	β–ray	
	Ogasawara	UVF	CLD	UVP	β–ray	
Republic of Korea	Kanghwa	UVF	CLD	UVP	β–ray	
	Cheju (Kosan)	UVF	CLD	UVP	β–ray	
	Imsil	UVF	CLD	UVP	β–ray	
Russia	Mondy	–	–	UVP	–	
Thailand	Bangkok	UVF	CLD	UVP	TEOM	
	Samutprakarn	UVF	CLD	UVP	β–ray	
	Khanchanaburi	UVF	CLD	UVP	β–ray	
	Chiang Mai	UVF	CLD	UVP	TEOM	

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.

Note:

1) PM_{10} monitoring method at Sado-seki was changed from TEOM to β–ray in April, 2014.

4.2 Results of Monitoring

Monitoring data were summarized into monthly averaged values accompanied with maximum, minimum and data completeness on monthly basis. Summarized data in 2014 are presented in Table 4.3 through Table 4.20.

The terms and abbreviations are as follows:

Mean	:	monthly or annual arithmetic average values,
Max-d	:	maximum values of daily data,
Min-d	:	minimum values of daily data,
Max-10d	:	maximum values of 10 days term data,
Min-10d	:	minimum values of 10 days term data,
Max-w	:	maximum values of weekly data,
Min-w	:	minimum values of weekly data,
Max-2w	:	maximum values of biweekly data,
Min-2w	:	minimum values of biweekly data,
Max-m	:	maximum values of monthly data,
Min-m	:	minimum values of monthly data,
%	:	monthly or annual percentages of period of available data,

For information on long-term trends of air concentrations, annual averages of gases and particulate matter concentrations from 2000 to 2014 are summarized in Table 4.21 through Table 4.38.

Monthly and annual dry deposition amounts of gaseous and particulate substances in 2014 were summarized in Table 4.39 through Table 4.49. The Inferential Method is adopted to estimate the dry depositions of EANET priority chemical species. Dry deposition amounts of gaseous and particulate substances are estimated by the product of an atmospheric concentration and a deposition velocity expressed as, $F_{dry} = V_d \times C$, where F_{dry}, V_d, and C denote the dry deposition flux, calculated deposition velocity, and the measured atmospheric concentrations, respectively for each specie and type of surface. The V_d was calculated by meteorological parameters at the site and parameterization described in the Technical Manual on Dry Deposition Flux Estimation in East Asia (Network Center for EANET, 2010). Since V_d of gases and particulate matter are different in different types of land surfaces, the V_d at each site was first calculated for forest and grass surfaces, and the weighted-average of V_d was then estimated according to the land-use ratio of forest and grass within 1 km square from the site. The estimation of dry deposition flux was made only for the sites in which hourly meteorological data and land use data are available.

In the Table 4.3 through Table 4.38, ppb unit is used for gases and μg/m^3 unit for particulate matter concentration. In the Table 4.39 through Table 4.49, mmol m^{-2}/month or mmol m^{-2}/year

units are used for dry deposition amounts. For comparing the other networks' data, conversion ratios from ppb to $\mu g/m^3$, which are based on 20 ^oC, 1 atm, are provided in Table 4.50.

Reporting limits for individual species depend on specification of instrument or procedures of sampling and analysis. The NC set up the reporting limits as shown in Table 4.51 taking into account methods adopted by each country. The data that air concentrations were less than the reporting limit are specified in the summarized tables. Regarding the particulate matter components measured by filter pack method, the detection limits for particulate matter components were determined as 0.01 $\mu g/m^3$ 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 SO_2

Unit : ppb			2014												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Cambodia	Phnom Penh	Mean	0.6	1.0	0.8	0.8	0.9	0.9	0.9	0.8	0.7	0.7	0.8	0.6	0.8
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.6	1.5	0.9	1.0	1.1	1.0	1.0	0.9	0.7	0.7	1.0	0.6	1.5
		Min-2w	0.5	0.6	0.7	0.5	0.7	0.9	0.8	0.8	0.7	0.6	0.6	0.5	0.5
China	Jinyunshan	Mean	15.9	10.1	12.5	6.8	5.6	2.4	5.3	6.5	5.0	6.1	5.1	8.4	7.5
		%	100	97	100	100	100	100	94	90	87	100	97	100	97
		Max-d	30.4	21.4	35.3	13.5	15.4	6.4	12.8	11.6	10.1	13.5	12.0	16.5	35.3
		Min-d	7.5	3.4	2.6	1.9	1.5	1.1	1.1	3.8	2.3	1.9	1.9	3.0	1.1
	Hongwen	Mean	7.0	5.8	8.5	8.9	7.4	6.6	6.9	6.6	4.1	4.0	5.4	4.4	6.3
		%	100	97	100	100	100	100	100	100	100	100	100	100	100
		Max-d	19.9	10.1	12.0	12.0	11.3	8.6	12.4	12.4	11.6	10.9	10.1	9.8	19.9
		Min-d	1.9	1.9	5.6	6.0	4.5	3.8	1.9	1.9	1.9	1.9	1.9	1.5	1.5
	Xiang Zhou	Mean	7.3	4.0	4.0	3.3	2.3	3.1	3.0	2.8	3.7	3.7	4.1	5.5	3.9
		%	100	97	100	100	94	100	94	100	100	100	100	100	99
		Max-d	18.0	8.3	8.6	7.1	4.5	7.1	4.5	5.3	7.5	6.8	7.1	9.0	18.0
		Min-d	3.0	1.5	1.5	1.5	0.8	1.9	1.9	1.9	0.8	1.1	1.5	1.1	0.8
Indonesia	Jakarta PS	Mean	4.1	5.6	5.1	3.4	6.1								
		%	100	100	100	100	80								
		Max-w	5.9	7.4	7.5	6.6	12.1								
		Min-w	1.7	4.6	2.0	0.7	0.8								
	Jakarta FP [1)]	Mean						2.4	5.6	8.7	2.5	9.1	7.0	7.2	5.6
		%						100	100	100	100	100	100	73	96
		Max-2w						3.7	8.7	11.1	3.9	16.2	8.6	11.4	
		Min-2w						1.1	2.5	6.3	1.1	2.0	5.5	3.0	
	Serpong	Mean	0.4	0.7	0.6	0.2	0.4	0.7	1.1	0.7	0.9	1.0	0.6	0.8	0.7
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-m	0.4	1.0	0.8	0.3	0.6	0.9	1.3	0.8	1.0	1.2	0.6	1.0	1.3
		Min-m	0.3	0.5	0.4	0.2	0.3	0.4	0.8	0.7	0.9	0.8	0.6	0.5	0.2
	Kototabang	Mean	1.7	2.1	6.1	1.3	0.8	2.0	2.0	3.2	1.2	3.1	5.1	12.5	3.5
		%	75	100	100	75	100	100	100	100	100	100	100	80	94
		Max-w	3.5	2.3	7.5	1.4	1.0	3.7	2.1	6.3	1.3	7.9	12.3	19.5	19.5
		Min-w	0.8	1.9	3.3	1.1	0.6	1.2	1.8	0.6	1.1	<0.1	0.8	1.0	<0.1
	Bandung PS	Mean	3.0	5.2	2.8	5.3									
		%	100	100	100	100									
		Max-m	3.0	5.2	2.8	5.3									
		Min-m	3.0	5.2	2.8	5.3									
	Bandung FP [2)]	Mean					6.5	3.3	4.9	4.6	3.7	3.8	4.9	4.4	4.4
		%					100	100	100	100	100	100	100	100	100
		Max-2m					7.4	5.5	5.3	4.8	3.8	3.9	5.0	4.9	
		Min-2m					5.6	1.1	4.5	4.5	3.5	3.8	4.7	3.9	
Japan	Rishiri	Mean	0.7	0.4	0.2	0.1	<0.1	0.2	<0.1	<0.1	<0.1	0.2	0.3	0.4	0.2
		%	98	99	94	98	98	98	99	98	85	98	98	98	97
		Max-d	2.4	1.6	0.6	0.4	0.7	1.3	0.1	<0.1	0.2	0.4	1.0	2.1	2.4
		Min-d	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Ochiishi	Mean	0.4	0.1	0.2	0.2	<0.1	<0.1	<0.1	<0.1	0.2	0.1	0.2	0.3	0.2
		%	96	96	96	96	91	96	96	96	77	72	71	92	89
		Max-d	1.1	0.3	0.7	0.6	0.5	0.3	0.2	0.4	0.4	0.3	0.4	0.9	1.1
		Min-d	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Tappi	Mean	0.8	0.6	0.4	0.4	0.4	0.5	0.5	0.4	0.3	0.4	0.5	0.6	0.5
		%	99	98	99	99	99	97	99	98	99	99	91	98	98
		Max-d	4.2	1.9	1.6	0.8	1.6	1.0	0.8	1.3	0.7	1.6	1.3	1.8	4.2
		Min-d	0.1	0.1	<0.1	0.1	<0.1	0.2	0.2	0.1	0.2	0.1	<0.1	<0.1	<0.1
	Sado-seki	Mean	0.7	0.8	0.5	0.3	0.5	0.2	0.2	0.1	0.1	0.2	0.3	0.5	0.4
		%	97	97	98	96	95	97	97	86	97	95	97	89	95
		Max-d	3.1	6.7	1.8	1.5	2.3	1.3	0.6	0.3	0.4	1.0	0.8	2.6	6.7
		Min-d	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Happo	Mean	0.8	0.8	0.7	0.7	0.5	0.2	0.1	0.1	0.2	0.3	0.4	0.5	0.4
		%	98	99	98	98	98	99	98	98	98	70	98	99	96
		Max-d	4.5	4.4	3.1	2.6	1.9	1.2	0.7	0.5	0.6	1.2	3.1	2.2	4.5
		Min-d	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Ijira	Mean	0.3	0.4	0.3	0.5	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2
		%	99	99	76	94	99	99	99	99	99	99	86	99	95
		Max-d	1.2	1.7	1.3	1.7	1.1	1.0	0.7	0.5	0.4	0.4	0.5	0.3	1.7
		Min-d	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Oki	Mean	1.0	0.7	0.7	0.5	0.8	0.2	0.3	<0.1	0.1	0.3	0.5	0.9	0.5
		%	93	96	77	98	98	84	98	98	97	98	85	98	93
		Max-d	2.8	5.5	2.4	1.8	2.5	1.0	1.6	0.4	0.4	2.1	1.9	4.3	5.5
		Min-d	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1
	Banryu	Mean	0.9	0.5	0.6	0.4	0.6	0.1	0.2	0.2	0.2	0.4	0.5	0.7	0.4
		%	88	98	97	98	99	98	98	98	98	98	99	86	96
		Max-d	3.5	1.7	2.1	1.0	1.7	0.5	1.4	1.2	0.6	1.4	1.5	2.8	3.5
		Min-d	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Yusuhara	Mean	2.1	0.7	1.5	1.0	1.2	0.2	1.4	0.4	0.3	0.3	1.4	1.1	1.0
		%	98	98	97	98	98	98	98	98	88	98	98	98	97
		Max-d	5.6	3.1	6.8	4.8	5.1	1.2	6.4	2.9	1.1	1.0	7.3	3.7	7.3
		Min-d	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.1	0.2	<0.1

Table 4.3 SO_2 (continued)

Unit : ppb			2014												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Japan	Hedo	Mean	0.6	<0.1	0.3	0.2	0.2	0.1	<0.1	<0.1	0.2	0.2	0.3	0.6	0.2
		%	98	77	90	95	95	74	97	96	95	87	97	97	91
		Max-d	1.8	1.0	1.2	2.6	1.4	0.5	0.3	0.1	1.5	0.8	1.2	3.0	3.0
		Min-d	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Ogasawara	Mean	0.1	<0.1	<0.1	0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1
		%	98	96	98	98	99	98	98	94	84	98	98	98	96
		Max-d	0.6	0.4	0.3	0.7	0.1	2.2	0.8	<0.1	0.2	0.8	1.8	2.6	2.6
		Min-d	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Tokyo	Mean	1.3	1.0	1.4	1.9	2.2	2.1	2.7	1.8	1.0	1.3	0.7	0.9	1.5
		%	100	100	100	100	100	100	100	100	63	100	100	100	96
		Max-2w	1.4	1.2	1.6	1.9	2.8	2.3	2.9	1.8	1.2	1.6	0.8	0.9	2.9
		Min-2w	1.2	0.8	1.2	1.8	1.7	1.9	2.5	1.7	0.9	1.1	0.6	0.8	0.6
Malaysia	Petaling Jaya	Mean	1.1	1.6	1.9	1.1	1.7	2.7	2.4	1.9	1.7	1.3	1.1	1.0	1.6
		%	100	100	100	100	100	100	100	100	100	80	100	100	98
		Max-w	1.6	2.1	3.7	1.3	2.5	4.2	3.1	2.2	2.1	1.6	1.4	1.5	4.2
		Min-w	0.7	1.1	<0.1	1.0	1.2	1.5	1.9	1.2	1.2	1.0	0.7	0.6	<0.1
	Tanah Rata	Mean	0.1	0.1	<0.1	<0.1	<0.1	0.7	0.4	0.3	0.2	<0.1	<0.1	<0.1	0.2
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.4	0.2	0.1	<0.1	0.1	1.2	0.5	0.6	0.5	0.2	<0.1	<0.1	1.2
		Min-w	<0.1	<0.1	<0.1	<0.1	<0.1	0.4	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Danum Valley	Mean	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1
		%	100	100	100	100	100	100	100	100	100	50	50	100	92
		Max-2w	<0.1	<0.1	0.4	<0.1	<0.1	<0.1	0.2	0.4	<0.1	<0.1	<0.1	<0.1	0.4
		Min-2w	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Myanmar	Yangon	Mean	<0.1	1.8	1.8	2.7	1.4	0.6	0.5	0.3	0.7	1.5	1.2	1.7	1.2
		%	0	50	100	100	100	100	100	100	100	100	100	100	88
		Max-2w	<0.1	1.8	2.7	2.8	2.0	0.6	0.6	0.3	0.7	2.1	1.5	2.7	2.8
		Min-2w	<0.1	1.8	0.8	2.6	0.9	0.6	0.3	0.2	0.7	0.9	0.8	0.9	0.2
Philippines	Mt. Sto. Tomas	Mean	0.1	0.2	0.2	<0.1	0.2	<0.1	<0.1	0.1	0.1	<0.1	<0.1	<0.1	0.1
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.1	0.3	0.6	0.1	0.2	0.1	0.1	0.1	0.2	<0.1	0.2	<0.1	0.6
		Min-w	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Republic of Korea	Kanghwa	Mean	4.1	3.5	4.1	3.7	3.9	2.4	1.7	1.2	1.5	1.6	2.4	3.1	2.8
		%	98	95	98	98	98	94	97	97	99	98	98	97	97
		Max-d	9.5	7.7	9.1	6.4	7.2	5.7	3.2	3.9	2.4	3.2	5.7	5.5	9.5
		Min-d	1.0	1.7	2.9	1.7	1.6	0.9	1.0	0.4	0.8	0.8	1.0	1.6	0.4
	Cheju (Kosan)	Mean	1.4	0.7	0.7	0.5	0.6	0.3	0.3	0.2	0.2	0.2	0.5	0.8	0.5
		%	99	74	98	99	94	96	96	96	96	93	95	97	95
		Max-d	3.8	1.4	1.8	2.3	1.3	0.6	1.5	0.5	0.5	0.7	2.2	3.7	3.8
		Min-d	0.5	0.3	0.2	0.1	0.3	0.1	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Imsil	Mean	2.7	4.6	3.8	1.6	1.6	0.9	1.0	1.9	2.3	2.3	2.6	2.6	2.3
		%	93	93	94	87	98	97	97	97	96	97	97	97	95
		Max-d	6.0	13.7	6.7	3.0	3.6	1.7	2.2	2.2	3.1	3.1	4.8	4.1	13.7
		Min-d	0.5	0.7	1.2	<0.1	0.8	0.6	<0.1	1.7	1.9	2.0	1.9	1.7	<0.1
Russia	Mondy [3)]	Mean	0.1	<0.1	0.2	<0.1	<0.1	0.1	0.8	0.8	<0.1	<0.1	<0.1	<0.1	0.1
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-m	0.1	<0.1	0.2	<0.1	<0.1	0.1	0.8	0.8	<0.1	<0.1	<0.1	<0.1	0.8
		Min-m	0.1	<0.1	0.2	<0.1	<0.1	0.1	0.8	0.8	<0.1	<0.1	<0.1	<0.1	<0.1
	Listvyanka	Mean	1.9	1.3	1.7	1.0	0.7	0.7	0.4	0.5	0.6	1.0	1.5	2.0	1.1
		%	100	100	100	100	100	100	100	100	100	100	94	100	99
		Max-w	6.6	1.8	3.9	1.6	1.4	1.0	0.7	0.7	0.9	1.3	3.3	2.6	6.6
		Min-w	0.3	0.3	0.4	0.7	0.2	0.5	0.2	0.3	0.3	0.7	0.8	1.3	0.2
	Irkutsk	Mean	4.2	1.3	3.6	1.1	1.6	1.4	1.0	0.7	0.9	1.3	0.8	1.2	1.6
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	8.6	3.8	7.0	1.5	2.9	1.7	1.3	1.0	1.1	3.2	1.4	1.6	8.6
		Min-w	0.4	0.2	0.3	0.8	0.5	1.2	0.5	0.4	0.5	<0.1	0.3	0.9	<0.1
	Primorskaya	Mean	0.1	1.3	0.8	0.6	0.4	<0.1	<0.1	0.1	<0.1	0.2	0.3	0.5	0.4
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.1	1.5	0.9	0.7	0.4	0.1	0.1	0.1	<0.1	0.2	0.3	0.7	1.5
		Min-2w	0.1	1.1	0.8	0.5	0.4	<0.1	<0.1	0.1	<0.1	0.1	0.2	0.4	<0.1

Table 4.3 SO_2 (continued)

Unit : ppb			2014												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Thailand	Bangkok	Mean	2.7	1.8	0.9	0.8	1.6	1.3	1.6	1.0	0.8	0.9	1.4	<0.1	1.4
		%	100	69	86	94	93	91	93	95	76	78	36	0	76
		Max-d	5.8	3.3	1.9	2.5	2.5	2.6	3.0	3.0	1.6	3.1	2.3	<0.1	5.8
		Min-d	0.6	<0.1	<0.1	<0.1	0.4	<0.1	0.5	<0.1	<0.1	<0.1	0.6	<0.1	<0.1
	Samutprakarn	Mean	4.0	4.1	3.9	2.2	3.7	4.0	5.0	4.3	4.0	3.3	3.4	3.0	3.7
		%	96	96	92	95	95	96	95	91	95	95	83	96	94
		Max-d	7.3	7.1	6.8	4.2	6.4	6.6	8.2	8.4	6.6	4.6	6.7	6.8	8.4
		Min-d	1.6	1.5	<0.1	0.6	1.6	0.7	2.0	1.8	1.4	2.1	<0.1	0.8	<0.1
	Khanchanaburi	Mean	-	-	-	-	0.7	0.8	-	-	-	-	2.6	-	1.8
	(Vachiralongkorn Dam)	%	0	0	0	0	15	37	0	0	0	0	62	0	9
		Max-d	-	-	-	-	1.0	2.6	-	-	-	-	2.8	-	2.8
		Min-d	-	-	-	-	<0.1	<0.1	-	-	-	-	2.1	-	<0.1
	Chiangmai	Mean	0.5	0.6	1.0	0.9	0.8	0.6	0.7	0.9	0.7	0.6	1.1	1.9	0.9
	(Mae Hia)	%	92	95	94	86	94	95	96	94	95	92	96	93	93
		Max-d	2.5	1.7	2.5	2.9	2.2	2.2	2.2	1.9	1.7	2.9	5.3	5.3	5.3
		Min-d	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Nakhon Ratchasima	Mean	0.2	0.2	0.5	0.3	0.6	0.7	0.3	0.2	-	-	-	-	0.4
		%	66	100	100	100	100	100	100	55	0	0	0	0	60
		Max-10d	0.2	0.2	0.7	0.4	0.9	1.0	0.3	0.2	-	-	-	-	1.0
		Min-10d	0.2	0.2	0.3	0.3	0.4	0.2	0.3	0.2	-	-	-	-	0.2
Vietnam	Hanoi	Mean	2.9	1.7	1.5	2.4	3.0	3.0	2.9	3.1	2.8	5.1	4.4	5.4	3.2
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	4.1	2.0	2.2	2.8	3.6	3.5	3.7	3.5	2.8	6.5	5.1	5.7	6.5
		Min-w	1.8	1.2	1.0	1.6	2.5	2.6	2.1	2.8	2.6	3.4	4.0	5.1	1.0
	Hoa Binh	Mean	2.9	2.4	3.0	3.4	2.7	1.8	2.1	2.5	3.0	2.9	2.0	4.8	2.8
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	3.5	2.8	4.7	5.9	3.2	2.3	2.8	2.8	3.5	3.3	2.6	5.8	5.9
		Min-w	1.8	2.2	1.9	1.3	2.5	1.0	1.7	1.9	2.6	2.7	1.7	4.0	1.0
	Can Tho	Mean	1.6	1.0	1.1	1.2	0.9	1.4	1.3	1.1	1.0	1.1	1.0	1.3	1.2
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	2.0	1.5	1.5	1.7	1.9	1.8	2.0	1.6	1.4	1.7	1.7	2.0	2.0
		Min-w	1.2	0.2	0.5	0.5	0.3	1.1	0.4	0.5	0.6	0.4	0.7	0.9	0.2
	Ho Chi Minh	Mean	1.7	1.7	1.8	2.0	1.7	1.7	1.6	1.2	1.2	1.3	1.3	1.9	1.6
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	2.0	1.8	1.9	2.2	2.1	1.8	1.8	1.6	1.5	1.9	1.8	2.1	2.2
		Min-w	1.3	1.5	1.8	1.8	0.8	1.7	1.3	0.9	0.9	0.4	0.6	1.7	0.4

1) The annual average of Jarkata was calculated based on the total monthly average of PS from January to May and FP from June to December.
2) The annual average of Bandung was calculated based on the total monthly average of PS from January to April and FP from May to December.
3) Their monthy averages of July and August at Mondy resulted in the same values due to the 61 day sampling period from July 23 through August 23.

Mean : monthly or annual arithmetic average values
Max-d : maximum values of daily data
Min-d : minimum values of daily data
Max-10d : maximum values of 10-day interval data
Min-10d : minimum values of 10-day interval data
Max-w : maximum values of weekly data
Min-w : minimum values of weekly data
Max-2w : maximum values of biweekly data
Min-2w : minimum values of biweekly data
Max-m : maximum values of monthly data
Min-m : minimum values of monthly data
% : monthly or annual percentages of period of available data

Table 4.4 HNO_3

Unit : ppb			2014												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Cambodia	Phnom Penh	Mean	0.4	0.5	0.3	0.3	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.2	0.4
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.4	0.6	0.3	0.4	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.3	0.6
		Min-2w	0.3	0.3	0.3	0.3	0.4	0.3	0.2	0.3	0.3	0.2	0.3	0.2	0.2
Indonesia	Jakarta	Mean						1.5	3.0	4.2	1.5	5.3	5.3	1.0	3.1
		%						100	100	100	100	100	100	73	57
		Max-2w						2.2	4.8	6.0	1.8	6.5	7.1	1.4	7.1
		Min-2w						0.8	0.7	2.4	1.2	4.0	3.5	0.6	0.6
	Serpong	Mean	0.3	0.4	1.0	0.3	0.9	1.0	1.2	1.3	1.5	1.2	1.3	0.3	0.9
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.3	0.9	1.3	0.4	1.1	1.4	1.5	1.4	1.5	1.5	1.6	0.3	1.6
		Min-2w	0.2	<0.1	0.7	0.2	0.8	0.7	0.9	1.3	1.4	0.8	1.0	0.3	<0.1
	Bandung	Mean				0.7	0.9	0.6	0.4	0.6	1.0	0.8	0.8	0.6	0.7
		%				100	100	100	100	100	100	100	100	100	75
		Max-2w				0.7	0.9	0.8	0.7	1.1	1.3	0.9	0.9	0.7	1.3
		Min-2w				0.6	0.8	0.4	0.1	<0.1	0.8	0.8	0.7	0.4	<0.1
Japan	Rishiri	Mean	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
		%	0	0	0	0	0	0	100	100	100	100	100	100	49
		Max-2w	-	-	-	-	-	-	0.1	0.2	<0.1	<0.1	<0.1	<0.1	0.2
		Min-2w	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Ochiishi	Mean	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
		%	100	50	100	100	100	100	100	100	100	100	100	59	93
		Max-2w	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	0.1
		Min-2w	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Tappi	Mean	<0.1	<0.1	<0.1	0.2	0.2	0.3	0.5	0.3	<0.1	0.1	<0.1	<0.1	0.2
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	<0.1	<0.1	0.1	0.2	0.3	0.3	0.5	0.5	0.1	0.2	<0.1	<0.1	0.5
		Min-2w	<0.1	<0.1	<0.1	<0.1	0.1	0.3	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Sado-seki	Mean	<0.1	<0.1	0.3	0.4	0.5	0.5	0.6	0.3	0.2	<0.1	<0.1	<0.1	0.3
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	<0.1	<0.1	0.5	0.6	0.7	0.5	0.8	0.6	0.2	<0.1	<0.1	<0.1	0.8
		Min-2w	<0.1	<0.1	0.1	0.2	0.3	0.5	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Happo	Mean	0.1	0.2	0.3	0.5	0.5	0.5	0.3	0.3	0.2	0.1	0.2	<0.1	0.3
		%	100	100	100	100	100	100	100	50	100	100	100	100	96
		Max-2w	0.2	0.2	0.3	0.5	0.5	0.6	0.4	0.3	0.3	0.2	0.2	<0.1	0.6
		Min-2w	0.1	0.2	0.3	0.5	0.4	0.3	0.3	0.3	0.2	0.1	0.2	<0.1	<0.1
	Ijira	Mean	0.1	<0.1	0.3	0.4	0.2	0.4	0.3	0.3		<0.1			0.2
		%	100	100	100	100	100	100	50	100	0	48	0	0	66
		Max-2w	0.1	<0.1	0.3	0.5	0.2	0.6	0.3	0.4		<0.1			0.6
		Min-2w	<0.1	<0.1	0.2	0.3	0.2	0.2	0.3	0.2		<0.1			<0.1
	Oki	Mean	<0.1	<0.1	0.1	0.3	0.3	0.4	0.3	0.2	<0.1	<0.1	0.1	<0.1	0.2
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	<0.1	<0.1	0.1	0.4	0.4	0.5	0.3	0.2	0.1	<0.1	0.2	<0.1	0.5
		Min-2w	<0.1	<0.1	0.1	0.2	0.3	0.3	0.2	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Banryu	Mean	0.2	<0.1	0.2	0.5	0.6	0.5	0.6	0.2	0.1	0.1	0.2	0.1	0.3
		%	100	100	100	50	100	100	100	100	100	100	100	100	96
		Max-2w	0.2	0.1	0.3	0.5	0.6	0.7	0.7	0.3	0.2	0.1	0.2	0.1	0.7
		Min-2w	0.2	<0.1	0.2	0.5	0.5	0.3	0.5	0.1	<0.1	<0.1	0.2	<0.1	<0.1
	Yusuhara	Mean	0.4	0.3	0.5	0.7	0.7	0.4	0.4	0.1	0.3	0.2	0.3	0.2	0.4
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.6	0.3	0.6	0.9	0.9	0.4	0.4	0.1	0.4	0.2	0.4	0.2	0.9
		Min-2w	0.2	0.2	0.3	0.4	0.5	0.3	0.4	0.1	0.2	0.1	0.2	0.2	0.1
	Hedo	Mean	0.2	<0.1	0.1	0.1	0.1	0.2	<0.1	<0.1	0.1	<0.1	<0.1	0.1	0.1
		%	100	50	100	100	100	100	100	100	67	100	100	100	92
		Max-2w	0.3	<0.1	0.1	0.2	0.2	0.3	<0.1	<0.1	0.2	<0.1	<0.1	0.1	0.3
		Min-2w	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	0.1	<0.1
	Ogasawara	Mean	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1
		Min-2w	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Tokyo	Mean	0.2	0.2	0.5	1.0	1.6	1.5	1.7	1.2	0.4	0.5	0.3	0.2	0.8
		%	100	100	100	100	100	100	100	100	63	100	100	100	96
		Max-2w	0.2	0.3	0.7	1.0	2.3	1.7	1.9	1.4	0.5	0.6	0.3	0.2	2.3
		Min-2w	0.2	0.2	0.3	0.9	1.0	1.3	1.5	1.0	0.3	0.3	0.3	0.2	0.2
Malaysia	Petaling Jaya	Mean	0.5	1.2	1.6	0.7	0.7	0.7	0.7	0.6	0.9	0.9	0.4	0.4	0.8
		%	100	100	100	100	100	100	100	100	100	80	100	100	98
		Max-w	0.7	1.6	3.0	1.3	1.0	1.3	0.9	0.9	1.0	1.1	0.6	0.8	3.0
		Min-w	0.3	0.8	<0.1	0.5	0.5	0.5	0.5	0.4	0.9	0.7	0.3	0.1	<0.1
	Tanah Rata	Mean	0.1	0.1	0.1	<0.1	<0.1	0.2	0.2	0.1	0.2	0.1	<0.1	<0.1	0.1
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.3	0.2	0.2	0.1	<0.1	0.2	0.3	0.3	0.3	0.2	0.1	<0.1	0.3
		Min-w	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1
	Danum Valley	Mean	<0.1	0.1	0.2	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
		%	100	100	100	100	100	100	100	100	100	50	50	100	92
		Max-2w	<0.1	0.2	0.2	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2
		Min-2w	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Table 4.4 HNO_3 (continued)

Unit : ppb			2014												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Myanmar	Yangon	Mean	-	1.4	0.4	0.2	0.1	0.1	0.1	<0.1	0.1	<0.1	0.3	0.1	0.2
		%	0	50	100	100	100	100	100	100	100	100	100	100	88
		Max-2w	-	1.4	0.4	0.4	0.1	0.2	0.2	<0.1	0.2	0.1	0.3	0.3	1.4
		Min-2w	-	1.4	0.4	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	<0.1	<0.1
Philippines	Mt. Sto. Tomas	Mean	0.2	0.2	0.2	0.2	0.2	0.2	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.2	0.4	0.3	0.2	0.3	0.2	0.2	<0.1	0.2	<0.1	0.1	0.2	0.4
		Min-w	0.1	<0.1	<0.1	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Republic of Korea	Kanghwa	Mean	0.3	0.1	0.1	0.4	0.7	1.2	0.7	0.3	0.9	0.9	0.3	0.1	0.5
		%	16	7	16	19	16	17	16	16	17	19	13	16	16
		Max-d	1.1	0.2	0.2	0.7	1.0	2.2	2.1	1.5	1.6	1.7	0.7	0.1	2.2
		Min-d	0.1	0.1	<0.1	0.1	0.4	0.5	0.3	<0.1	0.4	<0.1	<0.1	<0.1	<0.1
	Cheju (Kosan)	Mean	3.1	0.8	0.5	1.3	0.7	0.8	0.5	0.2	0.3	0.4	0.4	0.7	0.8
		%	13	11	10	10	16	17	16	16	10	16	17	13	14
		Max-d	5.2	1.2	0.6	3.5	1.3	2.0	0.9	0.4	0.6	0.6	1.1	1.8	5.2
		Min-d	1.6	0.4	0.3	0.2	0.3	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.1
	Imsil	Mean	0.3	0.3	0.4	0.8	2.1	1.1	0.4	0.5	0.4	0.4	0.4	0.2	0.6
		%	16	14	16	17	16	17	16	16	17	19	13	16	16
		Max-d	0.4	0.6	0.7	1.6	3.8	1.7	0.7	1.3	0.7	0.7	0.9	0.3	3.8
		Min-d	0.2	0.2	0.2	0.3	0.4	0.4	0.2	0.2	0.2	0.1	<0.1	0.1	<0.1
Russia	Mondy [1)]	Mean	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-m	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
		Min-m	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Listvyanka	Mean	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.1	0.1	<0.1
		%	100	100	100	100	100	100	100	100	100	100	94	100	99
		Max-w	<0.1	<0.1	0.2	0.2	0.1	0.2	<0.1	<0.1	<0.1	0.2	0.2	0.1	0.2
		Min-w	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Irkutsk	Mean	<0.1	0.3	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.2	0.8	0.3	0.1	0.1	0.1	0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.8
		Min-w	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Primorskaya	Mean	0.2	0.2	0.2	0.5	0.8	0.3	0.3	0.2	<0.1	0.1	<0.1	<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	0.6	0.8	0.4	0.3	0.3	<0.1	0.2	<0.1	<0.1	0.8
		Min-2w	0.1	0.1	0.2	0.3	0.7	0.3	0.3	0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Thailand	Bangkok	Mean	0.1	5.8	1.4	0.7	0.3	<0.1	<0.1	<0.1	<0.1	0.4	0.7	0.9	0.9
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-10d	0.4	10.5	2.8	1.1	0.6	<0.1	<0.1	0.1	0.1	0.5	1.0	1.2	10.5
		Min-10d	<0.1	3.1	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	0.5	0.6	<0.1
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	0.5	-	-	<0.1	-	-	-	-	<0.1	-	0.2
		%	0	0	41	0	0	47	0	0	0	0	67	0	14
		Max-2w	-	-	0.5	-	-	<0.1	-	-	-	-	<0.1	-	0.5
		Min-2w	-	-	0.5	-	-	<0.1	-	-	-	-	<0.1	-	<0.1
	Chiangmai (Mae Hia)	Mean	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	<0.1
		%	68	96	97	97	97	97	97	52	0	0	0	0	58
		Max-10d	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	<0.1
		Min-10d	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	<0.1
	Nakhon Ratchasima	Mean	<0.1	0.4	0.6	0.3	0.4	0.2	0.2	0.2	-	-	-	-	0.3
		%	66	100	100	100	100	100	100	55	0	0	0	0	60
		Max-10d	<0.1	0.6	0.7	0.4	0.7	0.2	0.2	0.2	-	-	-	-	0.7
		Min-10d	<0.1	<0.1	0.4	0.3	0.1	0.1	0.1	0.2	-	-	-	-	<0.1
Vietnam	Hanoi	Mean	0.3	0.2	0.2	0.3	1.0	0.6	0.4	0.5	0.4	0.9	0.7	0.8	0.5
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.5	0.3	0.3	0.5	1.7	0.7	0.7	0.7	0.5	1.4	1.0	1.0	1.7
		Min-w	<0.1	0.1	0.1	0.2	0.5	0.6	0.2	0.3	0.3	0.3	0.5	0.5	<0.1
	Hoa Binh	Mean	0.5	0.2	0.5	0.8	0.7	0.3	0.4	0.3	0.3	0.4	0.2	0.5	0.4
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.7	0.3	1.0	1.3	1.3	0.4	0.4	0.4	0.3	0.6	0.2	0.7	1.3
		Min-w	0.2	0.1	0.1	0.2	0.3	0.2	0.3	0.3	0.2	0.4	0.2	0.4	0.1
	Can Tho	Mean	0.5	0.5	0.3	0.5	0.5	0.6	0.4	0.6	0.6	0.4	0.5	0.6	0.5
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.8	0.8	0.6	0.8	0.8	0.7	0.7	0.7	0.8	0.6	0.8	0.8	0.8
		Min-w	0.2	0.2	<0.1	0.2	0.4	0.3	0.2	0.5	0.5	0.2	0.2	0.3	<0.1
	Ho Chi Minh	Mean	0.4	0.6	0.5	0.7	0.6	0.5	0.5	0.5	0.8	0.7	0.7	0.6	0.6
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.5	0.7	0.7	1.0	0.7	0.7	0.7	0.6	1.1	1.0	1.0	1.0	1.1
		Min-w	0.2	0.5	0.4	0.4	0.5	<0.1	0.2	0.4	0.6	0.4	0.4	0.4	<0.1

1) Their monthy averages of July and August at Mondy resulted in the same values due to the 61 day sampling period from July 23 through August 23. June, 2014.

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

Table 4.5 HCl

Unit : ppb			2014												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Cambodia	Phnom Penh	Mean	1.4	1.5	0.8	1.1	1.3	1.4	1.0	1.1	1.1	1.0	0.8	0.9	1.1
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	1.6	2.1	0.8	1.3	1.3	1.5	1.2	1.2	1.2	1.1	1.0	0.9	2.1
		Min-2w	1.3	0.9	0.7	0.9	1.2	1.2	0.9	1.1	1.0	0.8	0.7	0.8	0.7
Indonesia	Jakarta	Mean						1.8	2.8	3.7	2.0	6.2	3.5	2.2	3.2
		%						100	100	100	100	100	100	73	57
		Max-2w						1.9	3.7	4.1	2.0	7.3	4.0	2.8	7.3
		Min-2w						1.7	1.0	3.3	2.0	5.2	3.0	1.6	1.0
	Serpong	Mean	0.2	0.7	0.8	0.4	0.5	1.1	0.9	1.4	1.3	1.0	0.8	0.5	0.8
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.3	1.2	1.0	0.4	0.8	1.8	1.1	1.5	1.4	1.1	0.9	0.6	1.8
		Min-2w	0.2	0.1	0.6	0.3	0.1	0.4	0.6	1.2	1.3	0.9	0.6	0.3	0.1
	Bandung	Mean				0.5	0.7	0.4	0.7	0.9	1.2	1.3	0.8	0.6	0.8
		%				100	100	100	100	100	100	100	100	100	75
		Max-2w				0.5	0.7	0.6	0.8	1.2	1.2	1.4	0.8	0.6	1.4
		Min-2w				0.5	0.6	0.2	0.7	0.7	1.2	1.2	0.7	0.5	0.2
Japan	Rishiri	Mean	-	-	-	-	-	-	0.3	0.6	0.4	0.4	0.4	0.3	0.4
		%	0	0	0	0	0	0	100	100	100	100	100	100	49
		Max-2w	-	-	-	-	-	-	0.5	0.8	0.5	0.5	0.4	0.3	0.8
		Min-2w	-	-	-	-	-	-	<0.1	0.4	0.3	0.3	0.3	0.3	<0.1
	Ochiishi	Mean	0.3	0.3	0.2	1.0	0.3	0.3	0.6	0.5	0.6	0.3	0.2	0.1	0.4
		%	100	50	100	100	100	100	100	100	100	100	100	59	93
		Max-2w	0.3	0.3	0.3	1.6	0.4	0.4	0.7	0.5	0.7	0.3	0.3	0.1	1.6
		Min-2w	0.2	0.3	0.2	0.4	0.3	0.2	0.4	0.5	0.4	0.3	0.2	0.1	0.1
	Tappi	Mean	0.6	0.5	0.7	0.7	1.1	0.5	0.9	0.8	0.5	0.6	0.5	0.5	0.7
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.6	0.6	0.9	0.8	1.3	0.5	1.1	0.9	0.5	0.7	0.6	0.5	1.3
		Min-2w	0.5	0.4	0.6	0.6	1.0	0.5	0.6	0.6	0.4	0.6	0.5	0.5	0.4
	Sado-seki	Mean	0.8	0.6	1.1	1.0	1.3	0.8	0.8	1.0	0.8	0.7	0.7	0.5	0.9
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.8	0.7	1.5	1.0	1.5	0.8	1.0	1.1	1.0	0.8	0.7	0.5	1.5
		Min-2w	0.8	0.6	0.8	0.9	1.1	0.8	0.6	1.0	0.5	0.6	0.7	0.4	0.4
	Happo	Mean	0.1	0.2	0.2	0.2	0.3	0.1	0.1	<0.1	0.1	0.2	0.2	<0.1	0.2
		%	100	100	100	100	100	100	100	50	100	100	100	100	96
		Max-2w	0.2	0.2	0.3	0.3	0.3	0.2	0.1	<0.1	0.2	0.2	0.2	<0.1	0.3
		Min-2w	0.1	0.2	0.2	0.2	0.2	<0.1	<0.1	<0.1	<0.1	0.2	0.2	<0.1	<0.1
	Ijira	Mean	<0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	-	0.1	-	-	0.1
		%	100	100	100	100	100	100	50	100	0	48	0	0	66
		Max-2w	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.2	-	0.1	-	-	0.2
		Min-2w	<0.1	0.1	0.2	0.2	0.1	<0.1	0.1	0.1	-	0.1	-	-	<0.1
	Oki	Mean	0.9	0.9	0.9	1.1	1.4	0.8	1.2	0.9	0.6	0.9	0.7	0.6	0.9
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	1.0	1.1	0.9	1.4	1.6	0.9	1.4	1.0	0.8	0.9	0.8	0.7	1.6
		Min-2w	0.8	0.7	0.8	0.9	1.0	0.8	1.0	0.7	0.4	0.8	0.6	0.6	0.4
	Banryu	Mean	0.9	0.6	0.8	0.9	0.8	0.6	0.7	0.6	0.7	0.8	0.7	0.7	0.7
		%	100	100	100	50	100	100	100	100	100	100	100	100	96
		Max-2w	0.9	0.6	0.9	0.9	0.8	0.7	0.8	0.7	0.8	1.0	0.7	0.8	1.0
		Min-2w	0.8	0.5	0.7	0.9	0.8	0.5	0.7	0.5	0.6	0.6	0.7	0.7	0.5
	Yusuhara	Mean	0.4	0.2	0.4	0.3	0.3	0.2	0.4	0.2	0.2	0.4	0.3	0.4	0.3
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.4	0.2	0.4	0.4	0.3	0.2	0.5	0.3	0.2	0.5	0.3	0.5	0.5
		Min-2w	0.4	0.2	0.3	0.3	0.3	0.1	0.3	0.2	0.1	0.3	0.3	0.4	0.1
	Hedo	Mean	1.8	0.8	1.2	1.2	0.9	1.0	0.4	0.5	1.3	1.3	1.3	1.5	1.1
		%	100	50	100	100	100	100	100	100	67	100	100	100	92
		Max-2w	1.8	0.8	1.4	1.6	1.3	1.6	0.4	0.5	1.9	1.4	1.4	1.6	1.9
		Min-2w	1.7	0.8	1.1	0.9	0.5	0.3	0.3	0.4	0.6	1.2	1.1	1.5	0.3
	Ogasawara	Mean	0.7	0.6	0.8	1.0	0.7	0.7	0.4	0.2	0.3	0.2	0.4	0.6	0.6
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.9	0.8	0.9	1.2	0.7	0.7	0.5	0.3	0.4	0.3	0.6	0.7	1.2
		Min-2w	0.5	0.4	0.7	0.8	0.6	0.7	0.3	0.2	0.2	0.1	0.2	0.5	0.1
	Tokyo	Mean	0.3	0.4	0.7	0.9	1.0	0.7	0.9	1.0	1.1	0.9	0.6	0.3	0.7
		%	100	100	100	100	100	100	100	100	63	100	100	100	96
		Max-2w	0.3	0.4	0.8	0.9	1.2	0.7	0.9	1.0	1.3	1.0	0.8	0.3	1.3
		Min-2w	0.3	0.3	0.5	0.9	0.9	0.7	0.8	1.0	0.8	0.9	0.4	0.3	0.3
Malaysia	Petaling Jaya	Mean	1.7	1.0	<0.1	0.1	1.1	1.8	2.1	1.2	1.3	0.9	0.6	0.9	1.1
		%	100	100	100	100	100	100	100	100	100	80	100	100	98
		Max-w	2.9	1.8	<0.1	0.4	1.9	2.2	3.7	1.3	1.7	1.2	0.7	1.6	3.7
		Min-w	0.9	0.4	<0.1	<0.1	0.6	1.3	1.4	1.0	1.1	0.6	0.3	0.5	<0.1
	Tanah Rata	Mean	0.5	0.4	<0.1	<0.1	0.2	0.7	0.7	0.4	0.3	0.4	0.2	0.2	0.3
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.9	0.7	0.3	<0.1	0.3	0.9	0.9	0.8	0.5	0.5	0.3	0.5	0.9
		Min-w	0.2	0.2	<0.1	<0.1	<0.1	0.4	0.6	0.2	0.2	0.3	<0.1	0.1	<0.1
	Danum Valley	Mean	0.4	0.6	1.4	0.2	0.3	0.2	0.2	<0.1	0.2	0.1	0.5	0.2	0.4
		%	100	100	100	100	100	100	100	100	100	50	50	100	92
		Max-2w	0.4	0.8	1.9	0.2	0.3	0.3	0.2	0.2	0.2	0.1	0.5	0.3	1.9
		Min-2w	0.4	0.5	0.8	0.2	0.2	0.2	<0.1	<0.1	0.1	0.1	0.5	0.1	<0.1

Table 4.5 HCl (continued)

Unit : ppb			2014												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Myanmar	Yangon	Mean	-	1.4	1.1	1.0	1.1	0.6	0.7	<0.1	0.8	0.5	0.6	0.3	0.7
		%	0	50	100	100	100	100	100	100	100	100	100	100	88
		Max-2w	-	1.4	1.2	1.2	1.5	0.8	0.8	0.1	0.8	0.5	0.6	0.5	1.5
		Min-2w	-	1.4	1.0	0.8	0.7	0.5	0.6	<0.1	0.8	0.5	0.6	<0.1	<0.1
Philippines	Mt. Sto. Tomas	Mean	0.2	0.2	0.3	0.2	0.2	0.1	0.2	0.2	0.3	0.4	0.1	<0.1	0.2
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.2	0.4	0.4	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.2	<0.1	0.4
		Min-w	0.2	<0.1	0.1	0.1	0.2	0.1	<0.1	0.1	0.2	0.3	<0.1	<0.1	<0.1
Republic of Korea	Kanghwa	Mean	0.2	0.3	0.3	0.4	0.3	0.3	<0.1	0.1	<0.1	0.2	<0.1	0.1	0.2
		%	16	7	16	19	16	17	16	16	17	19	13	16	16
		Max-d	0.4	0.5	0.7	0.7	0.6	1.1	0.2	0.1	0.1	0.4	0.1	0.2	1.1
		Min-d	<0.1	0.2	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Cheju (Kosan)	Mean	0.2	0.3	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2
		%	13	11	10	10	16	17	16	16	10	16	17	13	14
		Max-d	0.3	0.5	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.4	0.3	0.4	0.5
		Min-d	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1
	Imsil	Mean	0.3	0.3	0.3	0.2	0.2	0.2	0.1	<0.1	0.1	0.1	0.8	0.2	0.2
		%	16	14	16	17	16	17	16	16	17	19	13	16	16
		Max-d	0.3	0.4	0.4	0.3	0.2	0.3	0.1	0.1	0.2	0.2	2.5	0.3	2.5
		Min-d	0.2	0.2	0.2	0.1	<0.1	0.1	0.1	<0.1	<0.1	<0.1	0.1	0.2	<0.1
Russia	Mondy [1)]	Mean	0.2	<0.1	0.5	0.4	1.2	1.9	0.4	0.4	1.5	1.3	0.8	0.3	0.8
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-m	0.2	<0.1	0.5	0.4	1.2	1.9	0.4	0.4	2.0	1.3	0.9	0.3	2.0
		Min-m	0.2	<0.1	0.5	0.4	1.2	1.9	0.4	0.4	1.0	1.3	0.7	0.3	<0.1
	Listvyanka	Mean	0.5	0.3	0.1	7.3	1.6	4.6	6.3	3.0	1.1	3.6	2.0	2.3	2.6
		%	100	100	100	100	100	100	100	100	100	100	94	100	99
		Max-w	0.6	0.8	0.3	13.9	4.4	9.3	8.7	6.3	2.5	6.6	3.1	3.6	13.9
		Min-w	0.5	<0.1	<0.1	0.1	0.5	0.9	2.2	1.0	<0.1	2.2	1.4	1.4	<0.1
	Irkutsk	Mean	0.1	0.2	1.1	2.2	2.6	1.0	1.8	2.9	1.7	1.8	1.1	1.0	1.4
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.3	0.2	4.4	3.7	4.9	1.5	3.0	4.0	2.1	2.7	1.5	1.4	4.9
		Min-w	<0.1	0.1	<0.1	0.8	1.5	0.6	0.6	1.6	1.4	1.4	0.9	0.5	<0.1
	Primorskaya	Mean	0.3	0.7	0.6	0.5	1.0	0.3	0.3	0.4	0.3	0.2	<0.1	0.1	0.4
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.3	0.8	0.6	0.6	1.3	0.4	0.3	0.5	0.3	0.3	0.1	0.1	1.3
		Min-2w	0.3	0.6	0.6	0.4	0.8	0.3	0.3	0.4	0.2	0.1	<0.1	<0.1	<0.1
Thailand	Bangkok	Mean	1.2	4.6	2.0	1.2	1.2	0.5	0.2	0.5	0.2	0.8	0.6	0.7	1.2
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-10d	2.1	8.9	3.5	1.7	2.8	0.6	0.3	0.7	0.2	1.1	0.7	0.9	8.9
		Min-10d	0.5	2.3	0.7	0.4	0.4	0.3	<0.1	0.3	0.1	0.5	0.5	0.4	<0.1
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	0.6	-	-	<0.1	-	-	-	-	0.2	-	0.3
		%	0	0	41	0	0	47	0	0	0	0	67	0	14
		Max-2w	-	-	0.6	-	-	<0.1	-	-	-	-	0.2	-	0.6
		Min-2w	-	-	0.6	-	-	<0.1	-	-	-	-	0.2	-	<0.1
	Chiangmai (Mae Hia)	Mean	0.1	0.2	<0.1	0.1	0.5	0.1	0.3	0.2	-	-	-	-	0.2
		%	68	96	97	97	97	97	97	52	0	0	0	0	58
		Max-10d	0.2	0.3	0.2	0.2	0.6	0.2	0.3	0.3	-	-	-	-	0.6
		Min-10d	<0.1	0.1	<0.1	0.1	0.3	0.1	0.3	0.2	-	-	-	-	<0.1
	Nakhon Ratchasima	Mean	0.7	0.3	0.4	0.3	1.0	0.4	0.4	0.3	-	-	-	-	0.5
		%	66	100	100	100	100	100	100	55	0	0	0	0	60
		Max-10d	1.1	0.4	0.4	0.3	2.6	0.4	0.5	0.3	-	-	-	-	2.6
		Min-10d	0.3	0.1	0.3	0.3	0.2	0.3	0.4	0.3	-	-	-	-	0.1
Vietnam	Hanoi	Mean	2.2	1.9	1.4	2.8	3.1	3.8	3.2	3.9	3.8	4.7	2.5	3.0	3.0
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	3.2	2.2	1.6	3.9	4.4	4.4	3.6	5.0	4.7	5.4	3.7	4.9	5.4
		Min-w	1.8	1.6	1.2	1.9	2.1	3.4	2.8	2.7	3.0	3.7	1.9	1.8	1.2
	Hoa Binh	Mean	2.3	2.6	2.5	2.7	3.5	2.8	2.6	3.8	4.2	4.7	3.2	3.1	3.2
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	3.2	2.8	3.5	3.9	3.9	3.2	3.2	5.1	4.9	5.1	4.3	5.0	5.1
		Min-w	0.9	2.3	1.9	1.7	2.9	2.4	1.8	3.0	3.8	4.5	1.6	2.4	0.9
	Can Tho	Mean	2.1	1.3	1.8	1.7	1.7	1.6	1.9	1.7	1.3	1.6	1.5	1.6	1.7
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	3.5	1.5	2.4	1.9	1.9	1.9	2.2	2.0	1.5	1.9	2.3	1.9	3.5
		Min-w	1.4	1.2	1.2	1.6	1.4	1.1	1.7	1.5	1.0	1.1	0.8	1.4	0.8
	Ho Chi Minh	Mean	1.1	1.3	1.3	1.7	1.7	1.5	1.9	1.6	1.3	1.4	2.0	2.5	1.6
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	1.3	1.8	1.8	2.0	2.0	1.8	2.6	1.8	1.5	1.6	3.1	3.4	3.4
		Min-w	1.0	1.1	0.9	1.2	1.0	1.3	1.4	1.5	0.8	1.0	1.0	1.8	0.8

1) Their monthy averages of July and August at Mondy resulted in the same values due to the 61 day sampling period from July 23 through August 23.

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

Table 4.6 NH_3

Unit : ppb			2014												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Cambodia	Phnom Penh	Mean	8.5	10.5	7.7	6.5	6.4	6.7	6.2	7.2	5.5	5.3	8.3	4.7	6.9
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	8.6	11.5	8.1	7.2	8.1	6.9	7.1	7.5	5.8	6.5	8.4	5.3	11.5
		Min-2w	8.4	9.5	7.4	5.7	4.7	6.5	5.2	6.8	5.3	4.4	8.2	4.0	4.0
Indonesia	Jakarta	Mean						22.5	23.0	64.4	31.6	62.2	40.7	31.5	38.3
		%						100	100	100	100	100	100	73	57
		Max-2w						31.6	29.7	70.3	49.2	70.3	46.0	55.6	70.3
		Min-2w						13.3	13.1	58.4	14.0	54.0	35.3	7.4	7.4
	Serpong	Mean	4.7	9.6	10.2	6.5	17.8	10.9	12.5	11.0	14.8	18.8	14.5	10.5	11.8
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	4.9	10.0	10.8	7.8	28.4	16.7	13.8	12.5	15.1	22.5	15.4	10.9	28.4
		Min-2w	4.5	9.2	9.6	5.2	7.1	5.1	11.2	9.5	14.5	15.1	13.6	10.1	4.5
	Bandung	Mean				6.7	7.3	8.1	7.3	8.4	8.6	11.8	9.9	7.7	8.4
		%				100	100	100	100	100	100	100	100	100	75
		Max-2w				7.1	8.6	8.9	7.4	9.1	8.8	12.0	10.3	8.3	12.0
		Min-2w				6.3	6.1	7.3	7.2	7.8	8.3	11.6	9.5	7.0	6.1
Japan	Rishiri	Mean	-	-	-	-	-	-	0.6	0.8	0.4	0.4	0.2	0.1	0.4
		%	0	0	0	0	0	0	100	100	100	100	100	100	49
		Max-2w	-	-	-	-	-	-	0.8	1.1	0.5	0.5	0.2	0.1	1.1
		Min-2w	-	-	-	-	-	-	0.3	0.6	0.2	0.3	0.2	0.1	0.1
	Ochiishi	Mean	0.1	0.2	0.1	0.3	0.3	0.4	0.5	0.6	0.5	0.8	0.4	0.2	0.4
		%	100	50	100	100	100	100	100	100	100	100	100	59	93
		Max-2w	0.1	0.2	0.2	0.3	0.3	0.5	0.5	0.6	0.6	0.9	0.5	0.2	0.9
		Min-2w	0.1	0.2	0.1	0.3	0.3	0.3	0.5	0.5	0.5	0.6	0.3	0.2	0.1
	Tappi	Mean	0.1	0.2	0.3	0.5	0.8	0.4	0.9	0.8	0.5	0.8	0.2	0.2	0.5
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.2	0.2	0.5	0.5	1.1	0.5	1.2	1.1	0.7	1.2	0.4	0.2	1.2
		Min-2w	0.1	0.1	0.2	0.5	0.5	0.4	0.7	0.6	0.4	0.4	<0.1	0.2	<0.1
	Sado-seki	Mean	0.1	0.1	0.7	1.2	1.8	1.1	1.0	1.0	0.6	0.4	0.4	<0.1	0.7
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.2	0.1	1.2	1.2	2.4	1.3	1.1	1.1	0.9	0.5	0.4	0.1	2.4
		Min-2w	0.1	<0.1	0.4	1.1	1.2	1.0	0.8	0.8	0.5	0.4	0.4	<0.1	<0.1
	Happo	Mean	<0.1	0.1	0.4	1.0	1.1	0.7	0.4	0.3	0.3	0.2	0.2	0.1	0.4
		%	100	100	100	100	100	100	100	50	100	100	100	100	96
		Max-2w	0.1	0.1	0.6	1.1	1.3	0.8	0.5	0.3	0.3	0.2	0.2	0.2	1.3
		Min-2w	<0.1	<0.1	0.1	0.9	0.8	0.7	0.4	0.3	0.2	0.2	0.2	0.1	<0.1
	Ijira	Mean	0.1	0.4	0.4	1.3	1.3	1.3	1.5	1.3	-	0.7	-	-	0.9
		%	100	100	100	100	100	100	50	100	0	48	0	0	66
		Max-2w	0.2	0.4	0.7	1.5	1.7	1.5	1.5	1.4	-	0.7	-	-	1.7
		Min-2w	<0.1	0.4	0.3	1.1	0.9	1.2	1.5	1.3	-	0.7	-	-	<0.1
	Oki	Mean	0.2	0.2	0.4	0.9	1.5	0.5	0.9	0.7	0.3	0.5	0.3	<0.1	0.6
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.3	0.2	0.5	1.0	2.1	0.6	1.0	1.0	0.3	0.5	0.3	<0.1	2.1
		Min-2w	0.1	0.1	0.3	0.8	0.9	0.5	0.8	0.4	0.3	0.5	0.3	<0.1	<0.1
	Banryu	Mean	0.4	0.4	0.7	1.4	1.3	0.8	1.2	0.8	0.6	0.4	0.4	<0.1	0.7
		%	100	100	100	50	100	100	100	100	100	100	100	100	96
		Max-2w	0.5	0.5	0.8	1.4	1.6	1.1	1.7	1.1	0.7	0.5	0.5	<0.1	1.7
		Min-2w	0.3	0.2	0.5	1.4	1.1	0.6	0.7	0.6	0.5	0.3	0.3	<0.1	<0.1
	Yusuhara	Mean	0.3	0.9	0.3	0.9	1.2	0.5	0.8	0.5	0.5	0.5	0.3	0.2	0.6
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.4	1.6	0.4	1.3	1.5	0.5	1.1	0.5	0.7	0.7	0.3	0.3	1.6
		Min-2w	0.2	0.1	0.2	0.6	0.9	0.5	0.6	0.4	0.3	0.3	0.2	0.1	0.1
	Hedo	Mean	0.9	0.3	0.9	1.4	1.6	1.3	1.3	1.0	1.0	1.2	0.8	0.7	1.1
		%	100	50	100	100	100	100	100	100	67	100	100	100	92
		Max-2w	1.1	0.3	1.2	1.6	2.0	1.7	1.4	1.1	1.2	1.4	0.8	0.8	2.0
		Min-2w	0.7	0.3	0.6	1.2	1.2	0.9	1.2	0.9	0.9	1.1	0.7	0.6	0.3
	Ogasawara	Mean	0.2	0.4	0.7	0.9	0.9	0.6	0.8	0.7	0.6	0.4	0.4	0.3	0.6
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.3	0.5	0.9	1.2	0.9	0.7	0.9	0.7	0.6	0.4	0.4	0.3	1.2
		Min-2w	0.2	0.4	0.5	0.6	0.9	0.6	0.6	0.6	0.6	0.3	0.4	0.3	0.2
	Tokyo	Mean	3.8	3.2	3.2	4.3	5.3	5.3	6.6	5.9	4.9	4.9	5.1	3.7	4.6
		%	100	100	100	100	100	100	100	100	63	100	100	100	96
		Max-2w	3.8	4.1	3.9	4.3	6.2	5.5	7.1	6.1	5.0	5.3	5.5	3.8	7.1
		Min-2w	3.7	2.3	2.6	4.3	4.3	5.1	6.0	5.8	4.8	4.5	4.8	3.6	2.3
Malaysia	Petaling Jaya	Mean	6.8	9.9	13.5	8.5	8.6	12.3	13.2	9.5	11.1	8.3	8.6	10.5	10.0
		%	100	100	100	100	100	100	100	100	100	80	100	100	98
		Max-w	8.1	15.9	23.6	8.8	10.8	17.2	15.9	15.5	12.9	9.2	9.2	13.2	23.6
		Min-w	3.3	5.7	6.4	7.8	7.5	7.3	11.2	4.8	9.2	7.0	8.1	8.0	3.3
	Tanah Rata	Mean	1.8	3.2	2.9	1.4	1.5	2.1	4.2	1.8	1.2	2.6	1.2	2.2	2.2
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	3.5	3.5	3.5	1.7	2.1	3.2	5.9	3.4	1.8	4.6	1.7	3.3	5.9
		Min-w	0.9	3.1	2.4	1.1	1.0	0.9	2.0	0.9	0.7	1.2	0.9	1.5	0.7
	Danum Valley	Mean	1.5	1.3	0.8	1.5	1.1	1.1	1.0	1.4	1.1	1.3	1.7	1.1	1.2
		%	100	100	100	100	100	100	100	100	100	50	50	100	92
		Max-2w	1.5	1.4	1.5	1.6	1.2	1.1	1.2	1.8	1.1	1.3	1.7	1.1	1.8
		Min-2w	1.4	1.2	<0.1	1.3	1.0	1.1	0.8	1.1	1.0	1.3	1.7	1.1	<0.1

Table 4.6 NH_3 (continued)

Unit : ppb			2014												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Myanmar	Yangon	Mean	-	2.6	10.2	8.3	<0.1	4.6	6.3	2.2	7.0	6.4	9.9	28.8	8.9
		%	0	50	100	100	100	100	100	100	100	100	100	100	88
		Max-2w	-	2.6	10.5	11.0	0.2	9.1	7.9	4.5	8.1	12.7	18.9	49.2	49.2
		Min-2w	-	2.6	10.0	5.6	<0.1	<0.1	4.6	<0.1	5.9	<0.1	0.8	0.3	<0.1
Philippines	Mt. Sto. Tomas	Mean	1.2	5.5	7.4	2.6	1.6	0.6	0.9	0.5	3.4	1.7	1.1	0.6	2.2
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	1.5	13.0	12.1	3.4	2.1	1.4	1.8	0.9	4.9	2.3	1.4	0.7	13.0
		Min-w	1.0	1.5	3.9	1.7	1.0	<0.1	<0.1	<0.1	2.0	0.9	0.7	0.5	<0.1
Republic of Korea	Kanghwa	Mean	0.4	3.2	1.5	3.1	6.9	7.7	5.8	4.0	2.9	3.1	2.1	3.4	3.7
		%	16	7	16	19	16	17	16	16	17	19	13	16	16
		Max-d	0.7	3.5	3.1	4.2	10.8	9.6	9.0	7.1	3.4	4.5	3.9	4.4	10.8
		Min-d	0.2	2.8	0.3	1.5	3.4	6.5	3.7	2.8	2.4	2.1	0.3	1.7	0.2
	Cheju (Kosan)	Mean	9.7	5.5	8.3	13.4	9.1	7.7	4.3	5.8	9.8	4.1	5.3	3.7	6.9
		%	13	11	10	10	16	17	16	16	10	16	17	13	14
		Max-d	10.9	5.9	9.6	31.5	12.7	9.0	7.1	9.6	12.5	5.3	6.2	4.1	31.5
		Min-d	9.0	5.1	7.5	3.1	6.2	4.8	2.7	2.8	8.4	3.5	4.5	3.3	2.7
	Imsil	Mean	4.7	5.0	7.9	7.4	8.7	9.3	4.6	7.5	6.6	5.6	4.6	3.0	6.3
		%	16	14	16	17	16	17	16	16	17	19	13	16	16
		Max-d	6.4	7.0	13.8	10.0	11.7	13.5	5.2	10.3	8.2	6.5	6.9	3.6	13.8
		Min-d	3.8	3.6	5.4	5.4	6.4	6.8	3.7	5.2	4.8	3.8	3.4	2.1	2.1
Russia	Mondy [1)]	Mean	0.7	0.3	0.4	0.4	0.3	0.2	0.2	0.2	0.1	1.2	0.3	0.2	0.4
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-m	0.7	0.3	0.4	0.4	0.3	0.2	0.2	0.2	0.2	1.2	0.4	0.2	1.2
		Min-m	0.7	0.3	0.4	0.4	0.3	0.2	0.2	0.2	0.1	1.2	0.3	0.2	0.1
	Listvyanka	Mean	0.9	7.2	2.4	1.6	1.0	2.1	0.8	1.0	0.4	6.9	4.0	0.6	2.4
		%	100	100	100	100	100	100	100	100	100	100	94	100	99
		Max-w	2.3	18.4	4.5	2.3	1.6	3.6	1.0	2.4	0.9	8.3	6.3	1.0	18.4
		Min-w	0.3	1.7	0.6	1.1	0.4	0.8	0.7	0.4	<0.1	5.7	0.5	0.2	<0.1
	Irkutsk	Mean	14.7	23.5	1.6	1.3	0.8	1.6	1.6	0.9	1.1	7.1	2.7	1.0	4.8
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	54.5	73.0	3.5	2.2	1.6	2.3	2.0	1.1	1.6	9.6	5.0	1.8	73.0
		Min-w	0.3	0.5	0.2	0.5	<0.1	0.2	1.1	0.7	0.8	0.2	<0.1	0.5	<0.1
	Primorskaya	Mean	0.2	0.5	1.5	3.8	2.7	1.0	0.8	1.5	1.2	1.0	0.7	0.1	1.3
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.3	0.5	2.0	4.0	2.8	1.1	0.9	1.8	1.3	1.4	0.8	0.1	4.0
		Min-2w	<0.1	0.5	0.9	3.7	2.7	1.0	0.8	1.2	1.0	0.6	0.6	<0.1	<0.1
Thailand	Bangkok	Mean	8.8	42.4	12.3	12.9	24.1	6.2	8.8	10.1	4.5	22.5	13.2	12.3	14.6
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-10d	12.6	67.7	18.0	16.8	53.4	8.0	10.6	12.7	8.0	31.0	15.3	15.3	67.7
		Min-10d	4.1	27.9	7.0	9.2	7.1	4.4	6.3	8.4	0.1	14.1	12.0	9.9	0.1
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	10.0	-	-	2.4	-	-	-	-	2.0	-	4.8
		%	0	0	41	0	0	47	0	0	0	0	67	0	14
		Max-2w	-	-	10.0	-	-	2.4	-	-	-	-	2.0	-	10.0
		Min-2w	-	-	10.0	-	-	2.4	-	-	-	-	2.0	-	2.0
	Chiangmai (Mae Hia)	Mean	1.9	2.0	2.5	2.3	1.5	0.7	1.2	0.8	-	-	-	-	1.6
		%	68	96	97	97	97	97	97	52	0	0	0	0	58
		Max-10d	2.2	2.3	2.6	3.0	2.0	0.7	1.2	0.9	-	-	-	-	3.0
		Min-10d	1.7	1.9	2.3	1.6	1.2	0.7	1.1	0.6	-	-	-	-	0.6
	Nakhon Ratchasima	Mean	3.0	4.5	5.2	4.3	3.5	2.8	2.5	2.8	-	-	-	-	3.6
		%	66	100	100	100	100	100	100	55	0	0	0	0	60
		Max-10d	4.3	5.1	5.7	4.9	3.8	2.9	2.6	3.1	-	-	-	-	5.7
		Min-10d	1.7	4.0	4.2	4.0	3.2	2.7	2.4	2.5	-	-	-	-	1.7
Vietnam	Hanoi	Mean	1.7	1.7	1.3	1.8	1.6	1.7	1.3	1.3	1.5	1.9	1.7	2.1	1.6
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	3.0	1.9	1.4	2.2	1.7	1.7	1.4	1.5	1.7	2.1	1.8	2.6	3.0
		Min-w	1.4	1.5	1.2	1.7	1.4	1.5	1.2	1.2	1.3	1.8	1.6	1.7	1.2
	Hoa Binh	Mean	1.5	1.4	1.6	1.4	1.5	1.3	1.3	1.3	1.3	1.2	1.1	1.3	1.4
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	2.0	1.4	1.8	1.7	1.7	1.7	1.4	1.7	1.5	1.5	1.2	1.4	2.0
		Min-w	1.3	1.3	1.2	1.1	1.2	1.2	1.2	1.1	1.1	1.1	0.9	1.2	0.9
	Can Tho	Mean	2.9	2.7	2.1	2.8	2.6	2.1	2.4	2.0	2.8	3.0	3.0	2.6	2.6
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	2.9	3.0	2.2	3.1	2.9	2.1	2.9	2.1	3.1	3.1	3.1	2.9	3.1
		Min-w	2.8	2.2	2.0	2.0	1.7	2.0	1.9	2.0	2.1	2.8	2.8	1.7	1.7
	Ho Chi Minh	Mean	3.5	3.7	4.0	3.9	3.0	3.1	2.7	3.8	2.1	2.5	1.8	2.0	3.0
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	4.1	4.1	4.2	4.2	3.8	4.0	3.9	4.2	2.7	3.9	2.2	2.1	4.2
		Min-w	3.1	2.8	3.8	3.6	1.5	1.7	1.6	3.2	1.6	1.7	1.6	1.8	1.5

1) Their monthy averages of July and August at Mondy resulted in the same values due to the 61 day sampling period from July 23 through August 23.

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

Table 4.7 NO

Unit : ppb			2014												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
China	Jinyunshan	Mean	-	1.4	1.5	1.2	1.0	0.8	1.5	1.8	1.8	2.0	2.4	2.8	1.7
		%	0	14	100	100	100	100	94	90	87	100	97	100	82
		Max-d	-	1.6	3.2	3.2	1.6	1.6	1.6	4.0	3.2	4.0	7.2	7.2	7.2
		Min-d	-	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6	1.6	0.8
Japan	Rishiri	Mean	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1
		%	98	98	94	98	69	78	93	62	84	89	98	98	88
		Max-d	0.2	<0.1	0.1	0.2	<0.1	0.5	0.4	<0.1	0.4	0.5	<0.1	0.1	0.5
		Min-d	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Ochiishi	Mean	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
		%	96	96	96	96	91	96	96	96	96	96	71	92	93
		Max-d	<0.1	0.2	0.1	0.2	0.2	0.4	0.3	0.8	0.3	0.1	0.1	<0.1	0.8
		Min-d	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Tappi	Mean	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
		%	98	98	98	98	98	96	98	98	98	98	90	98	97
		Max-d	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	0.1	0.2	<0.1	0.1	0.2	0.3	0.3
		Min-d	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Sado-seki	Mean	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
		%	96	97	96	94	96	96	95	86	95	98	96	90	95
		Max-d	<0.1	0.2	0.1	<0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.2
		Min-d	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Happo	Mean	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
		%	98	98	98	98	98	98	98	98	98	69	97	98	95
		Max-d	0.3	0.4	0.3	0.2	0.1	0.2	0.1	0.2	<0.1	0.7	<0.1	0.4	0.7
		Min-d	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Ijira	Mean	<0.1	<0.1	0.3	0.4	-	-	-	-	-	-	0.8	0.2	0.2
		%	99	99	75	21	0	0	0	0	0	0	60	98	37
		Max-d	0.2	0.4	0.9	1.0	-	-	-	-	-	-	2.0	0.8	2.0
		Min-d	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	<0.1	<0.1	<0.1
	Oki	Mean	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	0.2	1.5	0.5	0.2	<0.1	0.1	0.2
		%	93	96	85	97	98	98	52	98	97	98	85	97	91
		Max-d	0.2	<0.1	<0.1	0.2	0.2	0.2	0.4	3.1	0.8	0.6	0.3	0.3	3.1
		Min-d	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.6	0.1	<0.1	<0.1	<0.1	<0.1
	Banryu	Mean	0.2	0.2	0.2	0.2	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2
		%	88	98	97	98	99	98	98	98	98	98	99	86	96
		Max-d	0.4	0.5	0.3	0.4	0.3	0.5	1.1	0.8	0.4	0.5	0.4	0.4	1.1
		Min-d	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Yusuhara	Mean	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
		%	98	98	96	98	98	97	98	98	87	98	97	96	97
		Max-d	0.1	0.2	0.3	0.2	0.2	0.1	0.2	0.2	0.6	0.2	<0.1	0.1	0.6
		Min-d	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Hedo	Mean	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
		%	97	77	92	93	81	94	96	97	95	86	96	96	92
		Max-d	0.4	0.2	0.2	<0.1	0.1	0.2	0.3	0.6	0.4	0.1	0.1	<0.1	0.6
		Min-d	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Ogasawara	Mean	0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1
		%	98	95	98	97	99	98	97	92	84	98	98	98	96
		Max-d	0.3	0.2	0.3	0.3	0.2	0.6	1.8	0.4	0.4	0.5	0.2	0.3	1.8
		Min-d	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Thailand	Bangkok	Mean	12.4	2.9	1.4	1.6	3.4	3.9	6.1	9.8	8.9	8.8	15.5	-	6.5
		%	99	98	86	67	88	88	92	95	69	81	36	0	75
		Max-d	55.8	14.6	7.6	3.7	10.1	17.0	27.0	30.5	34.7	27.9	36.3	-	55.8
		Min-d	0.4	0.6	0.5	0.4	0.9	0.6	1.4	1.9	1.7	0.3	1.3	-	0.3
	Samutprakarn	Mean	36.1	13.8	4.9	8.1	6.6	11.5	13.0	12.7	11.8	13.4	11.3	7.7	11.6
		%	43	96	82	82	95	96	96	94	95	95	95	96	89
		Max-d	73.6	40.1	13.7	50.3	13.8	32.3	28.3	30.5	25.6	41.2	43.3	20.7	73.6
		Min-d	22.4	2.5	1.9	0.5	2.2	3.0	3.3	3.6	3.5	3.3	0.3	1.2	0.3
	Khanchanaburi	Mean	-	-	0.3	-	9.1	24.7	-	-	-	-	0.6	-	7.0
	(Vachiralongkorn Dam)	%	0	0	41	0	15	37	-	-	-	-	62	0	13
		Max-d	-	-	2.8	-	9.7	38.8	-	-	-	-	0.7	-	38.8
		Min-d	-	-	<0.1	-	7.0	10.6	-	-	-	-	0.3	-	<0.1
	Chiangmai	Mean	3.8	2.5	1.7	0.6	2.5	1.1	1.4	2.6	3.0	1.7	2.1	3.9	2.3
	(Mae Hia)	%	93	95	95	54	66	95	96	83	94	88	96	88	87
		Max-d	7.9	6.3	4.4	2.0	7.2	3.9	3.6	5.2	6.3	3.9	4.9	8.6	8.6
		Min-d	0.3	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	1.1	0.3	0.5	0.3	<0.1

Mean : monthly or annual arithmetic average values
Max-d : maximum values of daily data
Min-d : minimum values of daily data
% : monthly or annual percentages of period of available data

Table 4.8 NO_2

Unit : ppb			2014												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
China	Hongwen	Mean	26.8	19.3	24.6	20.5	20.4	10.7	11.5	14.2	12.2	16.1	22.1	24.2	18.6
		%	100	97	100	100	100	100	100	100	100	100	100	100	100
		Max-d	59.3	53.0	42.6	41.1	44.2	15.6	24.4	26.0	21.3	31.2	42.1	40.6	59.3
		Min-d	14.0	7.3	12.5	10.4	10.9	6.2	5.7	3.1	6.8	9.9	13.5	13.5	3.1
	Xiang Zhou	Mean	32.1	20.4	15.1	13.5	10.9	15.8	17.4	17.3	16.4	15.5	22.7	27.1	18.7
		%	100	97	100	100	94	100	97	100	100	100	100	100	99
		Max-d	46.8	29.1	23.9	20.3	20.3	27.0	26.0	20.8	24.4	25.5	36.9	48.4	48.4
		Min-d	15.6	13.0	10.9	5.7	7.8	8.3	12.5	13.5	6.8	7.3	9.9	12.0	5.7
Indonesia	Jakarta PS	Mean	31.1	18.8	30.5	22.0	28.9	29.3	27.9	19.4	32.9	22.5	27.7	15.9	25.9
		%	100	100	100	100	100	100	80	81	100	100	80	100	95
		Max-w	39.6	28.6	56.2	40.2	34.4	57.0	33.8	23.8	68.6	31.4	31.1	29.5	68.6
		Min-w	26.3	1.4	11.1	0.3	25.0	16.5	23.1	15.0	21.6	16.6	24.5	7.0	0.3
	Kototabang	Mean	2.6	1.3	0.3	<0.1	1.0	0.8	0.2	0.9	0.3	0.9	<0.1	0.3	0.7
		%	75	100	100	75	100	80	100	100	100	75	80	100	91
		Max-w	3.3	1.9	0.4	<0.1	1.2	1.0	0.4	2.5	0.4	1.3	<0.1	1.5	3.3
		Min-w	2.2	0.9	<0.1	<0.1	0.8	0.5	<0.1	<0.1	<0.1	0.4	<0.1	<0.1	<0.1
	Bandung PS	Mean	39.1	37.1	45.0	37.4	48.9	46.4	37.5	39.4	35.4	42.3	43.7	35.2	40.6
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-m	39.1	37.1	45.0	37.4	48.9	46.4	37.5	39.4	35.4	42.3	43.7	35.2	48.9
		Min-m	39.1	37.1	45.0	37.4	48.9	46.4	37.5	39.4	35.4	42.3	43.7	35.2	35.2
Japan	Banryu	Mean	2.2	2.1	2.0	1.9	1.6	1.2	1.4	1.4	1.3	1.9	1.9	1.9	1.8
		%	88	98	97	98	99	98	98	98	98	98	99	86	96
		Max-d	3.8	6.2	3.4	3.6	2.8	3.5	2.4	2.8	2.1	4.1	3.5	3.3	6.2
		Min-d	1.0	0.5	0.8	0.8	1.0	0.6	0.6	0.5	0.8	0.6	1.0	1.1	0.5
Republic of Korea	Kanghwa	Mean	8.8	4.1	7.0	5.1	6.4	4.7	4.5	3.4	5.1	7.6	6.9	6.9	5.9
		%	98	95	98	98	99	94	98	97	99	98	98	97	97
		Max-d	26.6	9.9	16.1	11.7	10.2	7.6	7.2	9.1	10.5	22.0	22.6	26.9	26.9
		Min-d	2.2	1.6	2.9	2.7	3.5	2.7	2.6	0.9	2.0	3.5	2.5	1.6	0.9
	Cheju (Kosan)	Mean	3.5	3.8	3.4	3.6	3.1	2.7	2.7	2.8	3.8	3.7	3.5	2.9	3.3
		%	99	96	100	99	94	96	96	96	96	85	83	97	95
		Max-d	8.2	7.8	6.2	6.0	5.2	5.4	5.6	4.6	5.4	6.2	5.7	6.1	8.2
		Min-d	0.8	0.8	1.8	1.5	1.4	1.4	1.3	1.1	1.6	2.0	1.7	0.9	0.8
	Imsil	Mean	5.7	5.9	5.3	4.9	2.7	3.2	2.3	2.2	2.9	3.1	5.1	4.7	4.0
		%	97	94	94	87	98	90	92	97	89	92	97	97	94
		Max-d	10.4	12.0	9.9	10.9	4.9	5.5	4.2	3.8	5.9	7.2	11.7	9.2	12.0
		Min-d	2.1	1.8	3.1	1.4	1.1	0.6	<0.1	0.6	1.3	1.2	2.1	2.1	<0.1
Thailand	Bangkok	Mean	41.8	21.7	16.3	15.8	16.3	13.0	14.0	16.3	17.3	25.3	24.4	-	20.3
		%	99	98	86	67	88	89	92	95	69	81	36	0	75
		Max-d	74.6	42.2	26.2	26.4	28.3	17.9	19.4	31.0	31.8	40.6	30.7	-	74.6
		Min-d	21.8	15.6	11.5	8.3	10.5	8.6	9.0	10.8	9.8	13.9	17.6	-	8.3
	Samutprakarn	Mean	29.5	7.0	4.4	9.4	12.4	9.0	10.1	9.0	9.9	17.4	19.5	18.8	12.4
		%	43	96	82	82	95	96	96	94	95	95	95	96	89
		Max-d	72.2	24.1	15.6	20.3	32.0	16.5	14.3	17.7	19.4	26.8	35.7	30.7	72.2
		Min-d	9.5	0.7	0.8	2.7	4.8	3.6	2.3	3.9	5.4	8.4	9.7	7.3	0.7

Mean : monthly or annual arithmetic average values
Max-d : maximum values of daily data
Min-d : minimum values of daily data
Max-w : maximum values of weekly data
Min-w : minimum values of weekly data
Max-2w : maximum values of biweekly data
Min-2w : minimum values of biweekly data
Max-m : maximum values of monthly data
Min-m : minimum values of monthly data
% : monthly or annual percentages of period of available data

Table 4.9 NOx

Unit : ppb			2014												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
China	Jinyunshan	Mean	-	11.8	11.4	7.8	8.3	2.8	7.5	6.6	6.4	10.1	11.1	15.9	8.9
	(NOx*)	%	0	14	100	100	100	100	94	90	87	100	97	100	82
		Max-d	-	14.6	19.8	16.7	12.5	5.5	12.0	10.8	12.8	16.7	19.1	29.0	29.0
		Min-d	-	9.6	5.0	3.4	3.4	1.8	1.8	2.6	2.1	5.8	4.7	7.3	1.8
Japan	Rishiri	Mean	0.7	0.7	0.8	0.8	0.6	0.8	0.8	0.4	0.5	0.8	0.7	0.6	0.7
	(NOx*)	%	98	98	94	98	69	78	93	62	84	89	98	98	88
		Max-d	2.0	3.5	1.6	2.6	1.1	3.9	2.3	1.0	0.9	1.6	1.9	1.3	3.9
		Min-d	0.3	0.2	0.4	0.3	<0.1	<0.1	0.2	<0.1	0.2	0.2	<0.1	0.2	<0.1
	Ochiishi	Mean	0.8	0.7	0.9	1.2	1.1	1.1	1.0	1.0	0.9	1.0	0.9	0.7	0.9
	(NOx*)	%	96	96	96	96	91	96	96	96	96	96	71	92	93
		Max-d	1.9	1.6	2.3	2.5	2.5	2.6	2.3	3.1	1.9	2.9	1.6	1.0	3.1
		Min-d	0.4	0.3	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.5	0.4	0.2	0.2
	Tappi	Mean	1.0	1.1	1.5	2.0	2.1	2.5	1.5	1.2	1.1	1.5	1.3	0.8	1.5
	(NOx*)	%	98	98	98	98	98	96	98	98	98	98	90	98	97
		Max-d	3.9	3.1	6.8	4.5	4.6	5.9	5.1	2.0	2.4	3.0	2.2	1.5	6.8
		Min-d	0.2	0.3	0.6	0.7	0.7	0.4	0.4	0.5	0.6	0.5	0.7	0.4	0.2
	Sado-seki	Mean	0.9	1.0	1.2	1.2	0.9	0.7	0.5	0.5	0.3	0.6	0.7	0.7	0.7
	(NOx*)	%	96	97	96	94	96	96	95	86	95	98	96	90	95
		Max-d	2.0	6.6	2.8	2.2	2.1	1.6	1.0	0.9	0.9	1.0	1.4	1.9	6.6
		Min-d	0.3	0.2	0.4	0.3	<0.1	<0.1	<0.1	0.1	<0.1	0.3	0.2	0.2	<0.1
	Happo	Mean	0.9	1.1	1.4	2.0	1.3	1.3	0.9	0.8	0.8	0.8	0.8	1.2	1.1
	(NOx*)	%	98	98	98	98	98	98	98	98	98	69	97	98	95
		Max-d	2.3	2.2	3.4	4.1	3.0	3.3	1.9	1.4	1.3	1.5	1.2	1.9	4.1
		Min-d	0.2	0.5	0.4	0.6	0.6	0.3	0.4	0.3	0.3	0.3	0.3	0.5	0.2
	Ijira	Mean	1.4	1.1	1.9	3.0	-	-	-	-	-	-	2.6	1.5	1.7
	(NOx*)	%	99	99	75	21	0	0	0	0	0	0	60	98	37
		Max-d	4.4	4.2	6.5	5.3	-	-	-	-	-	-	10.0	4.4	10.0
		Min-d	0.2	0.3	0.2	1.5	-	-	-	-	-	-	0.2	0.3	0.2
	Oki	Mean	1.2	1.0	1.6	1.7	1.5	0.9	1.1	1.8	0.9	1.1	1.3	1.5	1.3
	(NOx*)	%	93	96	85	97	98	98	52	98	97	98	85	97	91
		Max-d	4.0	4.1	4.0	3.4	2.7	2.4	2.0	5.1	1.8	2.9	2.7	3.8	5.1
		Min-d	<0.1	<0.1	0.4	0.4	0.6	0.2	0.4	0.6	0.5	0.4	0.7	0.6	<0.1
	Banryu	Mean	2.4	2.3	2.2	2.1	1.8	1.4	1.7	1.7	1.5	2.1	2.2	2.2	2.0
		%	88	98	97	98	99	98	98	98	98	98	99	86	96
		Max-d	4.1	6.5	3.6	3.8	3.0	3.8	3.4	3.2	2.5	4.7	3.8	3.7	6.5
		Min-d	1.2	0.7	0.9	1.0	1.1	0.7	0.7	0.5	0.8	0.7	1.2	1.2	0.5
	Yusuhara	Mean	2.0	1.4	1.3	1.3	1.2	0.7	0.7	0.4	0.8	1.0	1.4	2.2	1.2
	(NOx*)	%	98	98	96	98	98	97	98	98	87	98	97	96	97
		Max-d	3.8	3.6	3.8	2.9	2.2	1.7	1.9	1.3	1.8	2.1	2.2	3.9	3.9
		Min-d	0.6	0.3	<0.1	0.4	<0.1	<0.1	0.1	<0.1	<0.1	0.4	0.4	1.0	<0.1
	Hedo	Mean	1.1	0.7	0.7	0.6	0.7	1.1	0.4	0.5	0.5	0.6	0.7	1.1	0.7
	(NOx*)	%	97	77	92	93	81	94	96	97	95	86	96	96	92
		Max-d	2.5	1.4	1.4	2.8	1.7	3.7	1.0	3.3	3.1	1.2	1.2	3.1	3.7
		Min-d	0.3	0.1	<0.1	<0.1	0.3	0.2	<0.1	0.1	<0.1	0.2	0.3	0.4	<0.1
	Ogasawara	Mean	0.5	0.1	0.4	0.3	<0.1	0.3	0.3	<0.1	0.3	0.2	0.2	0.7	0.3
	(NOx*)	%	98	95	98	97	99	98	97	92	84	98	98	98	96
		Max-d	2.2	0.5	1.5	2.6	1.6	1.5	2.2	0.4	1.8	2.1	2.1	2.0	2.6
		Min-d	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Thailand	Bangkok	Mean	54.7	24.8	17.9	17.4	19.8	17.2	20.4	26.3	26.2	34.1	39.8	-	27.0
		%	99	98	86	67	88	89	92	95	69	81	36	0	75
		Max-d	126.9	57.5	30.6	29.4	31.3	31.9	44.1	56.6	64.1	54.1	65.5	-	126.9
		Min-d	22.3	16.3	11.9	9.3	11.7	9.3	10.7	14.4	11.4	17.3	19.6	-	9.3
	Samutprakarn	Mean	65.7	20.8	9.2	17.5	18.9	20.5	23.0	21.8	21.7	30.8	30.7	26.4	24.0
		%	43	96	82	82	95	96	96	94	95	95	95	96	89
		Max-d	134.3	52.2	29.3	66.8	40.7	48.8	40.7	41.2	35.5	68.0	79.0	46.1	134.3
		Min-d	31.9	6.5	3.6	7.0	7.0	6.7	5.6	8.5	9.1	13.6	9.8	9.7	3.6
	Khanchanaburi	Mean	-	-	3.6	-	15.1	35.5	-	-	-	-	2.0	-	11.6
	(Vachiralongkorn Dam)	%	0	0	41	0	15	37	0	0	0	0	62	0	13
	(NOx*)	Max-d	-	-	9.0	-	15.5	54.4	-	-	-	-	3.3	-	54.4
		Min-d	-	-	0.3	-	13.0	17.3	-	-	-	-	1.2	-	0.3
	Chiangmai	Mean	19.3	18.5	24.2	15.8	11.3	8.2	8.9	9.3	8.6	9.8	10.9	16.5	13.5
	(Mae Hia)	%	93	95	95	54	66	95	96	83	94	88	96	88	87
	(NOx*)	Max-d	25.4	26.3	41.8	29.0	16.4	13.5	14.6	15.6	13.6	14.0	15.8	23.2	41.8
		Min-d	10.2	10.8	10.8	8.3	8.6	5.0	3.8	5.2	5.0	5.7	6.1	7.0	3.8

Mean : monthly or annual arithmetic average values
Max-d : maximum values of daily data
Min-d : minimum values of daily data
% : monthly or annual percentages of period of available data
NOx : NOx measured by CLD in remote or rural sites*

Table 4.10 O_3

Unit : ppb			2014												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Japan	Rishiri	Mean	37	42	47	50	49	31	33	29	31	38	38	38	39
		%	99	100	95	99	99	99	100	99	86	99	99	99	98
		Max-d	47	61	72	80	74	76	48	48	45	60	47	44	80
		Min-d	32	36	39	42	32	15	20	19	22	27	28	32	15
	Ochiishi	Mean	38	42	50	53	52	34	37	38	37	41	40	38	42
		%	100	100	100	100	95	100	100	100	100	100	93	96	99
		Max-d	43	52	81	77	78	56	66	54	52	55	47	43	81
		Min-d	34	38	41	43	35	23	16	23	26	31	35	32	16
	Tappi	Mean	38	43	50	53	54	27	35	28	35	39	36	33	39
		%	99	99	99	99	99	98	99	96	99	99	91	98	98
		Max-d	49	57	73	73	82	67	54	57	46	51	46	41	82
		Min-d	32	35	39	33	38	11	14	16	20	24	23	24	11
	Sado-seki	Mean	41	46	53	60	63	45	46	38	43	43	41	37	47
		%	96	99	94	98	96	99	98	87	93	96	99	95	96
		Max-d	46	66	71	78	88	77	70	52	55	51	48	45	88
		Min-d	37	38	42	47	45	29	20	19	34	36	34	32	19
	Hapo	Mean	44	48	52	65	65	53	45	31	43	45	45	40	48
		%	99	98	99	99	99	100	99	99	99	70	99	100	97
		Max-d	56	65	68	86	84	74	64	45	53	60	50	48	86
		Min-d	34	39	42	49	54	34	18	16	29	36	39	33	16
	Ijira	Mean	25	35	35	33	-	-	-	-	-	-	19	22	28
		%	98	99	98	21	0	0	0	0	0	0	64	98	39
		Max-d	36	44	48	38	-	-	-	-	-	-	33	37	48
		Min-d	14	13	13	27	-	-	-	-	-	-	7	13	7
	Oki	Mean	39	45	55	63	66	49	43	36	42	43	42	39	47
		%	95	98	87	100	100	100	100	100	99	100	87	100	97
		Max-d	50	61	86	81	92	76	83	58	55	53	53	50	92
		Min-d	33	37	44	48	45	29	19	19	31	36	36	34	19
	Banryu	Mean	31	37	45	45	51	35	26	19	26	29	30	31	33
		%	89	100	99	100	61	67	99	100	100	71	99	87	89
		Max-d	43	48	65	60	60	50	51	37	48	40	41	42	65
		Min-d	20	24	29	23	33	21	9	5	14	17	21	21	5
	Yusuhara	Mean	42	42	51	56	59	42	28	17	34	37	36	35	40
		%	99	99	99	98	99	99	99	99	86	99	99	99	98
		Max-d	54	60	74	82	83	66	59	39	51	50	44	46	83
		Min-d	34	29	39	43	40	20	8	5	12	26	24	29	5
	Hedo	Mean	51	46	48	52	47	29	13	18	31	47	48	47	40
		%	99	79	94	93	95	95	96	98	98	88	98	97	94
		Max-d	67	56	61	83	77	69	24	34	56	65	62	67	83
		Min-d	46	38	33	36	17	8	6	6	10	24	28	43	6
	Ogasawara	Mean	40	43	46	49	38	24	12	14	28	31	37	40	33
		%	99	98	99	98	98	98	99	95	85	99	99	97	97
		Max-d	47	54	55	68	61	73	18	35	48	53	49	46	73
		Min-d	32	33	33	24	12	8	8	5	13	13	23	26	5
Republic of Korea	Kanghwa	Mean	32	46	53	63	68	60	57	51	56	47	41	30	50
		%	98	94	98	98	99	94	98	97	99	98	98	96	97
		Max-d	47	64	71	80	111	80	97	74	76	69	59	42	111
		Min-d	12	32	39	51	51	45	22	34	37	34	18	9	9
	Cheju (Kosan)	Mean	37	42	47	65	66	56	33	34	43	41	40	35	45
		%	99	96	100	96	94	96	96	96	96	93	95	97	96
		Max-d	44	61	68	90	87	90	68	53	58	53	53	52	90
		Min-d	28	28	29	48	38	33	8	11	24	27	27	31	8
	Imsil	Mean	24	31	37	47	51	40	23	23	27	26	25	25	31
		%	98	94	95	88	98	97	95	97	96	97	97	97	96
		Max-d	32	43	52	68	85	54	48	39	41	38	38	34	85
		Min-d	17	16	19	23	34	26	7	10	17	14	11	16	7
Russia	Mondy	Mean	34	-	-	-	-	-	-	32	33	34	37	38	35
		%	52	0	0	0	0	0	0	32	100	100	100	100	41
		Max-d	37	-	-	-	-	-	-	39	44	42	43	44	44
		Min-d	28	-	-	-	-	-	-	18	17	25	28	29	17
	Listvyanka	Mean	40	42	60	55	49	32	26	27	28	34	35	39	39
		%	100	100	100	100	100	100	100	75	100	100	100	100	98
		Max-2w	41	49	67	55	49	36	30	32	28	34	37	41	67
		Min-2w	39	36	52	55	48	28	22	22	28	33	33	37	22
Thailand	Bangkok	Mean	31	28	28	24	21	12	10	8	13	22	17	-	19
		%	96	80	81	85	94	91	93	95	65	78	36	0	75
		Max-d	47	44	50	41	30	22	18	13	27	46	30	-	50
		Min-d	<1	11	10	12	12	2	3	4	<1	8	7	-	<1
	Samutprakarn	Mean	30	31	32	30	21	14	12	11	13	21	23	26	22
		%	96	96	89	92	95	96	96	94	95	80	95	95	93
		Max-d	42	42	50	50	31	24	19	21	22	46	38	43	50
		Min-d	20	17	10	16	12	7	5	5	6	5	14	12	5
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	39	-	11	9	-	-	-	-	21	-	22
		%	0	0	41	0	14	34	0	0	0	0	62	0	13
		Max-d	-	-	54	-	19	17	-	-	-	-	32	-	54
		Min-d	-	-	7	-	7	6	-	-	-	-	15	-	6
	Chiangmai (Mae Hia)	Mean	26	29	39	34	18	14	11	6	9	17	20	22	20
		%	96	95	95	86	95	95	95	95	95	94	96	95	94
		Max-d	34	43	45	46	28	19	21	10	14	25	29	28	46
		Min-d	15	22	25	18	11	8	4	2	4	7	6	13	2

Mean : monthly or annual arithmetic average values
Max-d : maximum values of daily data
Min-d : minimum values of daily data
% : monthly or annual percentages of period of available data

Table 4.11 PM_{10}

Unit : μg/m^3			2014												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
China	Jinyunshan	Mean	119	83	61	44	56	32	37	38	38	56	46	-	57
		%	100	97	100	100	100	100	39	90	87	100	97	0	84
		Max-d	199	167	126	99	106	63	72	65	84	125	106	-	199
		Min-d	57	11	15	12	10	6	7	7	4	13	9	-	4
	Hongwen	Mean	71	40	61	59	53	36	32	40	44	69	67	74	54
		%	94	97	100	100	100	100	100	100	100	100	100	94	99
		Max-d	151	78	95	99	87	91	90	98	84	126	96	114	151
		Min-d	30	8	18	25	18	9	7	6	16	39	44	28	6
	Xiang Zhou	Mean	80	36	41	43	21	30	28	23	38	73	63	76	46
		%	100	97	100	100	100	100	94	100	100	100	100	100	99
		Max-d	148	67	88	68	43	86	71	41	95	136	106	136	148
		Min-d	35	14	18	22	9	12	12	14	14	39	22	16	9
Japan	Rishiri	Mean	28	25	35	32	30	21	22	22	29	25	23	17	26
		%	99	73	75	100	98	99	99	99	99	99	99	93	95
		Max-d	109	106	110	89	71	64	56	70	69	53	55	36	110
		Min-d	7	4	9	9	5	4	6	10	10	7	7	8	4
	Ochiishi	Mean	28	25	35	32	30	21	22	22	29	25	23	17	26
		%	99	73	75	100	98	99	99	99	99	99	99	93	95
		Max-d	109	106	110	89	71	64	56	70	69	53	55	36	110
		Min-d	7	4	9	9	5	4	6	10	10	7	7	8	4
	Tappi	Mean	19	18	26	24	34	14	20	13	14	19	18	15	20
		%	99	100	100	100	100	98	100	100	100	100	100	100	100
		Max-d	69	42	81	44	125	51	43	55	22	31	35	52	125
		Min-d	6	7	5	9	9	4	5	4	9	10	5	7	4
	Sado-seki	Mean	21	24	29	23	35	21	19	15	15	22	20	25	23
		%	100	100	100	100	100	100	100	100	100	99	100	95	99
		Max-d	43	102	57	50	94	83	41	33	25	46	41	52	102
		Min-d	9	7	11	9	10	4	4	2	8	8	4	6	2
	Happo	Mean	11	11	15	22	21	13	11	7	9	8	6	4	12
		%	10	94	94	99	100	100	100	100	100	100	98	86	90
		Max-d	17	41	40	79	57	43	26	18	17	19	11	10	79
		Min-d	<1	2	4	4	4	2	<1	<1	<1	2	<1	<1	<1
	Ijira	Mean	10	14	19	22	23	23	21	17	16	15	12	7	17
		%	100	100	100	94	100	100	100	100	100	99	100	100	99
		Max-d	23	51	54	63	64	62	34	33	25	28	21	22	64
		Min-d	3	3	<1	2	5	7	8	9	5	6	5	3	<1
	Oki	Mean	33	33	38	37	44	30	27	23	19	31	27	33	31
		%	96	99	100	75	96	100	98	100	99	100	93	100	96
		Max-d	66	82	95	81	125	107	65	43	37	50	53	71	125
		Min-d	12	13	13	19	13	7	6	7	9	15	11	13	6
	Banryu	Mean	24	23	29	27	42	27	20	17	20	24	20	22	25
		%	99	100	100	100	99	100	100	100	99	100	100	100	100
		Max-d	78	67	65	57	111	79	42	29	31	37	38	52	111
		Min-d	7	7	10	7	16	10	7	9	11	13	7	8	7
	Yusuhara	Mean	19	13	18	20	29	15	15	8	14	11	12	11	15
		%	88	88	88	87	88	87	88	87	88	85	88	87	87
		Max-d	59	45	47	44	76	54	32	25	33	28	26	43	76
		Min-d	2	<1	<1	5	6	1	<1	<1	4	<1	1	4	<1
	Hedo	Mean	27	23	31	26	32	21	19	19	30	32	28	34	27
		%	98	100	92	99	99	98	93	96	84	69	97	100	94
		Max-d	57	59	60	83	79	57	42	41	48	64	54	61	83
		Min-d	13	10	16	16	8	8	7	6	9	10	14	15	6
	Ogasawara	Mean	11	16	15	15	10	6	6	5	10	12	11	12	11
		%	99	99	100	99	99	100	100	96	86	100	99	100	98
		Max-d	25	29	28	29	21	25	12	8	20	30	19	19	30
		Min-d	5	7	9	4	<1	<1	3	2	5	4	3	4	<1
Republic of Korea	Kanghwa	Mean	52	55	57	52	70	43	42	36	41	44	55	44	49
		%	98	95	98	96	99	94	98	97	99	98	98	96	97
		Max-d	122	135	108	95	192	119	99	77	76	69	101	101	192
		Min-d	14	9	26	18	25	25	18	11	13	22	21	19	9
	Cheju (Kosan)	Mean	57	53	57	55	76	68	31	27	33	35	36	41	47
		%	93	83	92	90	89	34	20	95	97	96	93	89	81
		Max-d	144	125	160	77	290	124	46	101	56	55	76	94	290
		Min-d	23	21	25	21	31	40	21	2	20	23	18	19	2
	Imsil	Mean	55	56	53	54	66	51	37	28	31	29	38	36	44
		%	98	94	96	87	98	97	96	97	96	96	97	97	96
		Max-d	131	145	136	104	171	100	82	74	67	52	73	89	171
		Min-d	16	11	24	11	33	13	13	10	13	14	19	18	10
Thailand	Bangkok	Mean	75	45	40	37	24	28	28	26	22	39	35	-	37
		%	99	69	84	94	92	92	94	95	63	83	37	0	75
		Max-d	124	79	69	77	38	58	43	49	36	84	46	-	124
		Min-d	33	27	19	18	15	13	18	16	16	18	26	-	13
	Samutprakarn	Mean	112	40	39	38	30	36	35	28	26	37	49	56	41
		%	29	44	91	93	86	99	88	58	59	85	97	99	78
		Max-d	153	64	65	79	45	68	54	75	34	76	83	94	153
		Min-d	54	13	12	6	17	17	4	7	8	17	21	25	4
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	202	-	13	11	-	-	-	-	10	-	90
		%	0	0	63	0	13	32	0	0	0	0	47	0	13
		Max-d	-	-	393	-	16	14	-	-	-	-	18	-	393
		Min-d	-	-	47	-	9	7	-	-	-	-	3	-	3
	Chiangmai (Mae Hia)	Mean	57	57	124	80	31	23	21	20	22	35	33	46	45
		%	100	99	97	91	100	100	100	99	100	100	100	92	98
		Max-d	97	103	277	169	60	39	32	30	33	67	47	62	277
		Min-d	34	27	35	37	19	12	11	13	9	15	16	32	9

Mean : monthly or annual arithmetic average values
Max-d : maximum values of daily data
Min-d : minimum values of daily data
% : monthly or annual percentages of period of available data

Table 4.12 $PM_{2.5}$

Unit : μg/m^3			2014												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Japan	Rishiri	Mean	8	8	8	9	10	5	10	4	4	12	12	8	8
		%	100	100	100	100	100	100	100	100	93	100	100	99	99
		Max-d	25	48	37	26	29	26	38	17	9	27	33	18	48
		Min-d	2	2	2	2	2	<1	1	<1	<1	3	3	2	<1
	Ochiishi	Mean	10	7	16	9	7	4	6	4	6	8	8	6	7
		%	99	73	75	100	99	99	99	99	99	99	99	93	95
		Max-d	38	26	63	22	19	11	19	12	12	15	15	12	63
		Min-d	3	<1	2	3	<1	<1	<1	<1	<1	1	3	3	<1
	Sado-seki	Mean				13	16	13	13	8	9	10	8	8	11
		%				100	100	100	100	100	100	99	100	95	75
		Max-d				24	43	40	30	24	18	15	13	26	43
		Min-d				5	3	3	3	2	4	4	<1	3	<1
	Oki	Mean	12	15	16	18	18	16	13	8	8	11	10	12	13
		%	96	99	100	75	96	100	98	100	99	100	93	100	96
		Max-d	24	65	41	45	46	37	32	19	18	20	18	42	65
		Min-d	2	4	6	7	3	3	4	2	4	7	4	6	2

Mean : monthly or annual arithmetic average values
Max-d : maximum values of daily data
Min-d : minimum values of daily data
% : monthly or annual percentages of period of available data

Table 4.13 Particulate matter component: SO_4^{2-}

Unit : μg/m³			2014												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Cambodia	Phnom Penh	Mean	2.61	1.91	2.35	1.98	1.97	2.21	2.60	1.69	2.12	1.61	2.66	1.93	2.11
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	3.30	2.22	2.47	2.69	2.07	2.71	2.76	1.83	2.83	1.87	3.01	2.07	3.30
		Min-2w	1.92	1.59	2.22	1.27	1.82	1.71	2.43	1.56	1.41	1.21	2.31	1.80	1.21
Indonesia	Jakarta	Mean						8.29	12.94	10.78	9.74	8.78	19.68	9.08	11.44
		%						100	100	100	100	100	100	73	57
		Max-2w						11.85	17.15	18.35	10.13	16.10	24.17	11.62	24.17
		Min-2w						4.74	5.41	3.21	9.34	1.46	15.20	6.54	1.46
	Serpong	Mean	1.57	2.35	4.46	1.27	3.39	4.49	3.78	6.28	5.41	4.51	5.52	1.19	3.69
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	1.88	4.66	6.69	1.73	4.55	6.13	5.58	7.45	6.52	6.90	7.57	2.20	7.57
		Min-2w	1.26	0.04	2.22	0.81	2.22	2.85	1.97	5.12	4.30	2.13	3.47	0.17	0.04
	Bandung	Mean				5.70	7.48	9.06	3.52	6.01	8.68	8.59	9.14	4.19	6.93
		%				100	100	100	100	100	100	100	100	100	75
		Max-2w				6.43	8.47	9.47	6.14	11.34	9.62	8.85	10.11	4.24	11.34
		Min-2w				4.98	6.48	8.66	0.90	0.68	7.73	8.34	8.18	4.13	0.68
Japan	Rishiri	Mean	-	-	-	-	-	-	1.84	1.97	1.98	2.89	2.53	1.71	2.21
		%	0	0	0	0	0	0	100	100	100	100	100	100	49
		Max-2w	-	-	-	-	-	-	2.88	2.46	2.63	3.80	2.82	1.76	3.80
		Min-2w	-	-	-	-	-	-	0.79	1.48	1.33	1.84	2.24	1.67	0.79
	Ochiishi	Mean	2.29	1.53	3.01	2.01	2.17	1.11	2.16	1.81	2.65	1.14	2.61	12.06	2.52
		%	100	50	100	100	100	100	100	100	100	100	100	59	93
		Max-2w	2.96	1.53	3.73	2.86	2.81	1.71	2.68	2.03	2.79	1.67	2.81	12.06	12.06
		Min-2w	1.62	1.53	2.30	1.15	1.53	0.50	1.64	1.58	2.51	0.61	2.41	12.06	0.50
	Tappi	Mean	4.04	3.25	4.86	3.57	7.22	2.75	5.88	3.44	2.62	7.35	8.45	12.73	5.38
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	4.14	3.42	6.78	4.26	7.88	2.96	7.00	4.13	3.00	13.85	13.52	20.64	20.64
		Min-2w	3.95	3.09	2.90	2.89	6.56	2.55	4.77	2.74	2.27	0.86	3.38	4.82	0.86
	Sado-seki	Mean	2.92	3.04	4.84	4.38	6.96	3.58	5.13	1.75	2.62	2.17	2.68	2.17	3.54
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	3.47	3.47	6.04	4.76	8.91	5.46	5.96	3.24	3.75	2.70	2.82	3.58	8.91
		Min-2w	2.38	2.62	2.49	4.00	5.01	1.69	4.31	0.26	0.95	1.63	2.54	0.76	0.26
	Happo	Mean	1.42	2.68	3.03	4.60	4.70	2.99	2.74	2.23	1.87	1.14	1.25	0.52	2.49
		%	100	100	100	100	100	100	100	50	100	100	100	100	96
		Max-2w	1.44	2.76	3.41	6.14	7.02	4.78	3.47	2.23	2.40	1.28	1.25	0.54	7.02
		Min-2w	1.39	2.60	2.81	3.06	2.38	1.20	2.01	2.23	1.44	1.00	1.25	0.49	0.49
	Ijira	Mean	2.42	2.19	4.90	5.04	3.89	5.15	6.17	2.72	-	1.57	-	-	3.84
		%	100	100	100	100	100	100	50	100	0	48	0	0	66
		Max-2w	2.42	2.45	5.74	7.00	4.40	5.96	6.17	2.78	-	1.57	-	-	7.00
		Min-2w	2.41	1.94	3.92	3.09	3.38	4.35	6.17	2.66	-	1.57	-	-	1.57
	Oki	Mean	4.87	6.15	6.67	6.58	7.33	6.22	4.41	3.94	3.47	3.67	3.78	5.68	5.25
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	4.96	8.69	7.66	7.87	10.63	8.31	5.10	4.12	4.16	3.93	4.55	6.85	10.63
		Min-2w	4.78	3.60	5.69	5.28	4.90	4.13	3.72	3.76	2.78	3.28	3.02	4.52	2.78
	Banryu	Mean	3.82	4.26	6.45	7.56	8.07	6.89	5.20	3.78	3.70	3.48	4.27	3.60	4.99
		%	100	100	100	50	100	100	100	100	100	100	100	100	96
		Max-2w	4.73	4.28	7.64	7.56	9.18	8.49	6.61	3.98	4.10	4.34	4.28	3.63	9.18
		Min-2w	2.91	4.23	4.77	7.56	6.95	5.29	3.80	3.58	3.45	2.63	4.27	3.56	2.63
	Yusuhara	Mean	5.31	1.59	5.74	6.20	7.75	5.25	6.02	3.45	4.63	2.93	4.17	3.16	4.72
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	5.70	2.97	7.18	7.66	9.34	5.41	7.40	5.18	5.91	3.08	4.25	3.19	9.34
		Min-2w	4.92	0.21	4.63	4.73	6.16	5.09	4.64	1.71	3.64	2.77	4.08	3.14	0.21
	Hedo	Mean	6.89	5.01	6.31	6.63	5.26	4.24	1.76	2.62	5.42	6.99	5.60	7.29	5.39
		%	100	50	100	100	100	100	100	100	67	100	100	100	92
		Max-2w	6.96	5.01	6.58	9.11	6.97	6.33	2.17	3.54	7.83	8.42	6.41	7.41	9.11
		Min-2w	6.81	5.01	6.15	4.14	3.54	2.15	1.34	1.71	3.01	5.56	4.79	7.17	1.34
	Ogasawara	Mean	3.23	3.41	3.85	4.41	2.66	3.05	1.50	0.87	1.60	0.95	2.24	2.76	2.58
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	4.07	4.18	3.89	4.65	2.72	3.75	1.89	1.09	2.04	1.57	2.32	3.02	4.65
		Min-2w	2.40	2.64	3.81	4.06	2.60	2.34	1.11	0.65	0.89	0.33	2.16	2.51	0.33
	Tokyo	Mean	2.18	2.73	4.82	4.67	6.24	6.18	7.17	4.10	3.62	3.03	2.84	1.40	4.11
		%	100	100	100	100	100	100	100	100	63	100	100	100	96
		Max-2w	2.33	2.76	6.08	4.68	8.43	6.22	8.62	4.78	4.05	3.03	3.40	1.49	8.62
		Min-2w	2.04	2.69	4.04	4.67	4.05	6.14	5.72	3.41	3.18	3.02	2.28	1.30	1.30
Malaysia	Petaling Jaya	Mean	4.67	5.85	7.29	3.69	3.89	5.62	5.33	4.02	5.94	6.45	3.13	2.34	4.81
		%	100	100	100	100	100	100	100	100	100	80	100	100	98
		Max-w	10.15	8.50	12.05	4.79	4.38	8.59	5.79	5.51	7.39	7.06	4.82	3.49	12.05
		Min-w	2.28	4.34	0.12	2.51	3.31	3.36	4.73	2.71	4.20	5.60	2.44	1.14	0.12
	Tanah Rata	Mean	2.65	3.41	2.56	2.08	1.31	3.97	3.87	2.20	3.26	4.29	0.93	0.54	2.59
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	5.61	4.21	2.82	2.12	2.28	5.02	5.98	4.37	3.54	5.58	2.65	1.15	5.98
		Min-w	0.79	2.54	2.35	2.01	0.64	2.73	1.52	0.20	3.05	3.49	0.10	0.12	0.10
	Danum Valley	Mean	1.05	1.86	1.23	1.55	0.86	0.92	0.81	0.43	1.43	2.32	1.13	0.66	1.11
		%	100	100	100	100	100	100	100	100	100	50	50	100	92
		Max-2w	1.15	2.66	2.36	1.65	1.20	1.00	1.33	0.76	1.53	2.32	1.13	0.75	2.66
		Min-2w	0.95	1.07	0.09	1.46	0.53	0.84	0.07	0.11	1.34	2.32	1.13	0.55	0.07

Table 4.13 Particulate matter component: SO_4^{2-} (continued)

Unit : μg/m³			2014												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Myanmar	Yangon	Mean	-	0.14	6.88	2.00	0.10	0.39	2.92	0.11	0.15	0.08	1.79	1.36	1.56
		%	0	50	100	100	100	100	100	100	100	100	100	100	88
		Max-2w	-	0.14	12.31	3.87	0.13	0.67	7.51	0.14	0.17	0.17	2.44	3.04	12.31
		Min-2w	-	0.14	1.46	0.12	0.07	0.11	0.31	0.09	0.14	<0.01	1.14	0.15	<0.01
Philippines	Mt. Sto. Tomas	Mean	0.21	0.46	0.57	1.18	0.47	0.30	0.26	0.22	0.16	0.34	0.22	0.11	0.38
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.30	0.90	1.85	1.58	1.00	0.74	0.36	0.42	0.32	1.00	0.33	0.23	1.85
		Min-w	0.09	0.08	0.11	1.01	0.12	<0.01	0.18	0.12	<0.01	<0.01	0.16	<0.01	<0.01
Republic of Korea	Kanghwa	Mean	6.24	6.12	7.63	7.42	17.75	6.74	9.33	4.98	6.95	4.80	3.98	3.35	7.17
		%	16	7	16	19	16	17	16	16	17	19	13	16	16
		Max-d	17.65	10.65	9.93	16.61	28.40	9.27	24.56	13.12	17.09	7.14	8.34	5.06	28.40
		Min-d	1.00	1.58	2.68	2.42	4.29	4.39	3.01	1.29	3.26	0.95	1.24	1.88	0.95
	Cheju (Kosan)	Mean	35.06	6.66	5.27	11.99	5.80	8.09	2.89	2.99	5.09	4.53	4.25	5.13	7.81
		%	13	11	10	10	16	17	16	16	10	16	17	13	14
		Max-d	55.10	13.42	8.10	32.54	10.43	12.42	6.06	12.20	9.11	7.06	8.88	10.21	55.10
		Min-d	19.86	1.88	3.51	0.25	2.80	0.43	0.18	0.16	1.87	2.43	1.64	1.91	0.16
	Imsil	Mean	7.33	6.05	6.61	7.20	13.12	8.73	4.07	3.37	3.85	3.49	3.19	3.34	5.86
		%	16	14	16	17	16	17	16	16	17	19	13	16	16
		Max-d	14.92	10.73	10.50	15.56	25.92	11.12	9.84	12.75	6.32	6.90	4.15	5.17	25.92
		Min-d	3.11	1.81	1.82	0.22	3.06	6.93	0.52	0.64	2.05	0.38	1.68	2.45	0.22
Russia	Mondy [1)]	Mean	0.22	0.18	0.08	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.07	0.01	0.03	0.05
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-m	0.22	0.18	0.08	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.07	0.02	0.03	0.22
		Min-m	0.22	0.18	0.08	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.07	0.01	0.03	<0.01
	Listvyanka	Mean	2.77	1.49	1.04	0.76	1.08	0.46	0.26	0.36	0.50	1.27	1.05	1.01	1.00
		%	100	100	100	100	100	100	100	100	100	100	94	100	99
		Max-w	5.06	3.65	2.20	1.39	1.65	0.95	0.35	0.71	1.11	2.71	2.15	1.43	5.06
		Min-w	1.76	0.24	0.03	0.18	0.26	0.10	0.16	0.14	0.10	0.27	0.33	0.61	0.03
	Irkutsk	Mean	4.22	4.01	2.32	3.42	2.13	1.14	0.64	0.53	1.21	1.67	1.73	2.43	2.14
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	7.43	5.33	3.75	4.70	2.83	1.29	0.79	0.66	1.74	2.60	2.26	3.72	7.43
		Min-w	1.54	2.21	1.15	1.99	1.12	1.01	0.40	0.41	0.70	0.70	1.23	1.39	0.40
	Primorskaya	Mean	2.16	9.77	8.08	2.91	2.63	3.20	3.28	2.46	1.54	2.16	2.19	3.12	3.62
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	2.86	14.87	9.87	3.76	2.92	3.45	3.53	2.70	1.78	2.66	2.36	4.00	14.87
		Min-2w	1.46	4.67	6.30	2.05	2.34	2.95	3.04	2.21	1.29	1.67	2.02	2.24	1.29
Thailand	Bangkok	Mean	0.10	17.87	3.79	7.45	4.71	0.30	0.90	1.66	0.71	4.24	3.00	7.73	4.38
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-10d	0.18	24.91	10.79	11.08	11.53	0.87	1.80	2.07	1.01	5.20	3.53	12.95	24.91
		Min-10d	0.03	13.66	0.16	3.77	0.59	<0.01	0.14	0.92	0.42	3.29	2.63	4.14	<0.01
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	9.23	-	-	0.33	-	-	-	-	<0.01	-	3.19
		%	0	0	41	0	0	47	0	0	0	0	67	0	14
		Max-2w	-	-	9.23	-	-	0.33	-	-	-	-	<0.01	-	9.23
		Min-2w	-	-	9.23	-	-	0.33	-	-	-	-	<0.01	-	<0.01
	Chiangmai (Mae Hia)	Mean	0.37	0.05	0.16	0.11	0.06	0.08	0.06	0.07	-	-	-	-	0.11
		%	68	96	97	97	97	97	97	52	0	0	0	0	58
		Max-10d	0.46	0.06	0.17	0.20	0.10	0.09	0.06	0.08	-	-	-	-	0.46
		Min-10d	0.28	0.04	0.15	0.06	0.04	0.08	0.06	0.07	-	-	-	-	0.04
	Nakhon Ratchasima	Mean	4.68	5.64	5.06	4.47	1.36	2.51	1.62	1.75	-	-	-	-	3.40
		%	66	100	100	100	100	100	100	55	0	0	0	0	60
		Max-10d	7.97	6.37	6.90	6.36	2.07	3.43	2.21	1.82	-	-	-	-	7.97
		Min-10d	1.39	4.98	2.33	3.48	0.11	1.64	1.27	1.68	-	-	-	-	0.11
Vietnam	Hanoi	Mean	14.66	8.37	4.36	7.44	6.92	6.76	2.94	4.45	4.03	14.36	11.66	14.41	8.47
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	21.05	22.33	8.16	11.63	11.73	9.31	5.31	4.95	5.31	28.16	16.71	24.18	28.16
		Min-w	3.26	0.65	0.39	1.03	3.89	5.22	0.60	3.19	1.96	2.41	7.28	10.88	0.39
	Hoa Binh	Mean	3.57	3.78	2.86	4.75	4.70	1.26	2.40	2.85	3.36	11.46	5.61	12.27	4.95
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	5.50	5.13	4.13	6.03	7.91	1.89	4.63	4.32	5.14	21.56	8.01	19.55	21.56
		Min-w	2.07	2.42	1.54	3.78	1.14	0.65	1.21	0.39	2.31	4.29	1.25	7.29	0.39
	Can Tho	Mean	0.85	1.87	1.38	0.76	1.44	1.57	0.66	0.65	1.58	2.15	2.83	1.22	1.40
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	1.20	2.84	1.94	1.00	2.46	1.84	1.01	1.01	4.01	4.65	7.30	2.95	7.30
		Min-w	0.40	0.13	0.50	0.53	0.40	1.28	0.41	0.31	0.37	0.53	0.41	0.50	0.13
	Ho Chi Minh	Mean	3.22	3.39	2.92	2.96	2.19	1.67	0.83	0.93	1.43	1.07	2.13	2.49	2.08
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	4.74	4.37	3.75	4.84	2.79	2.84	1.88	1.30	2.61	1.81	2.39	5.23	5.23
		Min-w	1.82	2.05	2.30	1.30	1.35	1.05	0.13	0.62	0.32	0.21	1.94	0.47	0.13

1) Their monthy averages of July and August at Mondy resulted in the same values due to the 61 day sampling period from July 23 through August 23.

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

Table 4.14 Particulate matter component: NO_3^-

Unit : μg/m³			2014												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Cambodia	Phnom Penh	Mean	1.70	1.24	1.38	1.15	0.97	1.13	1.38	0.97	0.98	1.26	1.49	1.08	1.22
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	2.02	1.43	1.39	1.27	1.05	1.28	1.42	1.07	1.15	1.75	1.65	1.24	2.02
		Min-2w	1.38	1.05	1.36	1.03	0.88	0.99	1.35	0.87	0.80	0.86	1.33	0.92	0.80
Indonesia	Jakarta	Mean						1.61	5.85	6.61	4.56	2.90	4.42	6.16	4.67
		%						100	100	100	100	100	100	73	57
		Max-2w						2.88	9.36	10.73	4.93	4.91	6.41	9.36	10.73
		Min-2w						0.34	1.36	2.48	4.20	0.89	2.42	2.95	0.34
	Serpong	Mean	0.21	0.54	0.77	0.19	0.60	0.85	1.14	1.62	2.21	1.29	0.74	0.21	0.86
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.36	1.07	1.11	0.29	0.81	1.13	1.56	1.87	2.50	1.82	0.94	0.39	2.50
		Min-2w	0.06	<0.01	0.42	0.08	0.39	0.57	0.72	1.36	1.93	0.76	0.55	0.04	<0.01
	Bandung	Mean				1.32	2.01	2.64	0.86	1.63	2.36	3.10	2.23	1.15	1.92
		%				100	100	100	100	100	100	100	100	100	75
		Max-2w				1.58	2.54	3.36	1.48	3.08	2.95	4.05	3.23	1.61	4.05
		Min-2w				1.05	1.48	1.93	0.24	0.19	1.77	2.15	1.23	0.69	0.19
Japan	Rishiri	Mean	-	-	-	-	-	-	0.31	0.38	0.31	0.78	0.85	0.29	0.51
		%	0	0	0	0	0	0	100	100	100	100	100	100	49
		Max-2w	-	-	-	-	-	-	0.48	0.43	0.35	1.18	0.85	0.35	1.18
		Min-2w	-	-	-	-	-	-	0.14	0.33	0.28	0.28	0.84	0.23	0.14
	Ochiishi	Mean	0.72	0.42	1.19	1.15	1.07	0.30	0.62	0.45	0.66	0.42	0.88	0.27	0.71
		%	100	50	100	100	100	100	100	100	100	100	100	59	93
		Max-2w	0.98	0.42	1.78	1.87	1.59	0.48	0.74	0.59	0.72	0.68	1.07	0.27	1.87
		Min-2w	0.45	0.42	0.59	0.42	0.56	0.11	0.50	0.31	0.60	0.16	0.70	0.27	0.11
	Tappi	Mean	1.40	0.81	2.35	2.08	3.90	0.50	0.89	1.09	0.99	0.69	1.41	1.03	1.45
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	1.62	1.01	4.55	2.24	4.00	0.66	1.24	1.75	1.17	0.84	1.62	1.12	4.55
		Min-2w	1.17	0.62	0.98	1.93	3.80	0.33	0.54	0.43	0.88	0.55	1.20	0.94	0.33
	Sado-seki	Mean	0.83	0.79	1.57	2.05	2.70	0.72	0.60	0.66	0.76	0.79	0.90	0.29	1.06
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	1.05	1.04	2.25	2.86	3.64	1.13	0.64	1.29	1.17	0.93	1.23	0.46	3.64
		Min-2w	0.61	0.53	1.01	1.23	1.76	0.31	0.57	0.03	0.29	0.65	0.58	0.13	0.03
	Happo	Mean	0.10	0.19	1.06	2.09	1.82	0.30	0.09	0.10	0.17	0.32	0.13	0.07	0.58
		%	100	100	100	100	100	100	100	50	100	100	100	100	96
		Max-2w	0.11	0.25	1.90	3.35	3.08	0.48	0.09	0.10	0.26	0.42	0.13	0.15	3.35
		Min-2w	0.10	0.13	0.16	0.83	0.56	0.13	0.08	0.10	0.09	0.22	0.13	<0.01	<0.01
	Ijira	Mean	0.26	0.43	0.69	0.76	0.41	0.13	0.05	0.25	-	0.54	-	-	0.42
		%	100	100	100	100	100	100	50	100	0	48	0	0	66
		Max-2w	0.34	0.43	1.04	1.23	0.52	0.15	0.05	0.37	-	0.54	-	-	1.23
		Min-2w	0.17	0.42	0.38	0.28	0.31	0.12	0.05	0.12	-	0.54	-	-	0.05
	Oki	Mean	2.36	1.72	3.43	2.98	2.78	1.18	1.26	0.78	0.86	1.14	1.51	1.35	1.79
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	2.87	2.55	4.78	3.06	4.33	2.05	1.48	0.80	1.00	1.31	1.96	1.50	4.78
		Min-2w	1.85	0.89	2.08	2.91	1.76	0.31	1.04	0.76	0.72	0.86	1.06	1.19	0.31
	Banryu	Mean	2.22	1.12	2.61	2.16	2.26	0.90	0.59	0.65	0.89	1.01	1.25	1.74	1.45
		%	100	100	100	50	100	100	100	100	100	100	100	100	96
		Max-2w	2.97	1.19	3.38	2.16	2.55	1.13	0.71	0.77	1.04	1.19	1.52	1.95	3.38
		Min-2w	1.47	1.05	1.41	2.16	1.98	0.66	0.47	0.53	0.76	0.83	0.98	1.52	0.47
	Yusuhara	Mean	1.90	0.23	1.18	0.55	0.78	0.13	0.06	<0.01	0.09	0.62	0.39	0.57	0.55
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	2.91	0.43	1.94	0.68	0.94	0.20	0.09	0.02	0.14	0.84	0.65	0.74	2.91
		Min-2w	0.88	0.04	0.67	0.42	0.63	0.07	0.03	<0.01	<0.01	0.41	0.14	0.40	<0.01
	Hedo	Mean	2.25	1.18	2.12	2.78	1.85	1.16	0.50	0.69	1.10	1.92	2.04	2.56	1.72
		%	100	50	100	100	100	100	100	100	67	100	100	100	92
		Max-2w	2.73	1.18	2.46	3.90	2.22	1.55	0.59	0.77	1.73	1.94	2.38	2.95	3.90
		Min-2w	1.77	1.18	1.87	1.66	1.48	0.77	0.41	0.60	0.47	1.90	1.70	2.17	0.41
	Ogasawara	Mean	0.56	0.79	0.86	0.93	0.62	0.04	0.14	0.21	0.27	0.20	0.47	0.60	0.48
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.72	0.94	1.03	0.96	0.74	0.05	0.17	0.29	0.36	0.34	0.48	0.68	1.03
		Min-2w	0.40	0.63	0.70	0.91	0.49	0.04	0.11	0.14	0.18	0.06	0.46	0.53	0.04
	Tokyo	Mean	3.38	3.20	3.75	4.25	3.65	2.06	1.65	2.48	2.87	4.18	3.64	2.20	3.13
		%	100	100	100	100	100	100	100	100	63	100	100	100	96
		Max-2w	4.18	4.64	5.07	5.58	3.78	2.44	2.03	2.48	3.16	4.34	3.89	2.22	5.58
		Min-2w	2.58	1.77	2.62	2.92	3.52	1.67	1.26	2.48	2.58	4.03	3.38	2.19	1.26
Malaysia	Petaling Jaya	Mean	2.26	2.46	1.38	0.87	1.17	2.20	2.34	1.40	1.14	0.67	1.15	1.31	1.53
		%	100	100	100	100	100	100	100	100	100	80	100	100	98
		Max-w	3.55	3.64	2.90	1.15	1.45	3.81	3.02	1.82	1.71	0.84	1.40	1.62	3.81
		Min-w	1.08	1.83	<0.01	0.76	0.68	1.59	1.74	0.91	0.84	0.44	0.81	0.98	<0.01
	Tanah Rata	Mean	0.38	1.04	0.59	0.13	0.15	0.67	0.81	0.37	0.17	0.35	0.06	0.13	0.40
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.78	1.59	0.75	0.20	0.27	1.73	1.42	0.63	0.23	0.70	0.11	0.30	1.73
		Min-w	0.10	0.63	0.46	0.05	0.02	0.11	0.11	0.16	0.12	0.07	0.02	0.03	0.02
	Danum Valley	Mean	0.28	0.15	0.39	0.09	0.02	0.05	0.06	0.03	<0.01	<0.01	0.08	0.15	0.11
		%	100	100	100	100	100	100	100	100	100	50	50	100	92
		Max-2w	0.33	0.25	0.77	0.17	0.04	0.06	0.07	0.05	<0.01	<0.01	0.08	0.20	0.77
		Min-2w	0.23	0.05	<0.01	<0.01	<0.01	0.04	0.04	<0.01	<0.01	<0.01	0.08	0.11	<0.01

Table 4.14 Particulate matter component: NO_3^- (contined)

Unit : μg/m^3			2014												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Myanmar	Yangon	Mean	-	0.15	0.47	0.14	0.14	0.23	0.23	0.11	0.07	0.09	0.85	0.83	0.33
		%	0	50	100	100	100	100	100	100	100	100	100	100	88
		Max-2w	-	0.15	0.65	0.22	0.16	0.32	0.40	0.15	0.08	0.16	0.98	1.54	1.54
		Min-2w	-	0.15	0.29	0.07	0.13	0.14	0.12	0.08	0.06	0.02	0.73	0.09	0.02
Philippines	Mt. Sto. Tomas	Mean	0.27	0.40	0.45	0.71	0.27	0.22	0.17	0.09	0.14	0.19	0.14	0.12	0.26
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.43	0.71	1.26	1.01	0.43	0.28	0.32	0.16	0.20	0.32	0.24	0.19	1.26
		Min-w	<0.01	<0.01	0.16	0.51	0.15	0.13	<0.01	<0.01	<0.01	<0.01	0.07	0.01	<0.01
Republic of Korea	Kanghwa	Mean	6.88	2.50	5.38	1.70	5.39	0.48	0.70	0.47	0.90	1.60	1.66	2.82	2.54
		%	16	7	16	19	16	17	16	16	17	19	13	16	16
		Max-d	24.12	4.82	13.30	4.38	11.35	1.30	2.86	2.17	1.80	6.37	4.11	4.59	24.12
		Min-d	0.65	0.17	1.19	0.46	0.18	0.04	0.01	<0.01	0.04	0.07	0.25	1.19	<0.01
	Cheju (Kosan)	Mean	3.55	1.82	1.82	1.33	0.80	1.15	0.39	0.27	0.24	0.41	0.45	1.98	1.10
		%	13	11	10	10	16	17	16	16	10	16	17	13	14
		Max-d	6.82	2.32	4.13	3.00	1.14	1.92	0.72	0.41	0.35	1.00	0.59	5.40	6.82
		Min-d	0.93	1.28	0.49	0.44	0.57	0.31	0.25	0.19	0.15	0.22	0.31	0.50	0.15
	Imsil	Mean	9.62	8.88	5.43	2.03	0.99	0.55	0.26	0.27	0.25	0.28	1.60	5.17	2.82
		%	16	14	16	17	16	17	16	16	17	19	13	16	16
		Max-d	21.97	14.60	12.97	4.34	2.44	1.51	0.32	0.38	0.40	0.43	3.68	10.59	21.97
		Min-d	4.26	1.11	1.06	0.14	0.49	0.19	0.19	0.20	0.16	0.20	0.52	1.38	0.14
Russia	Mondy [1)]	Mean	<0.01	<0.01	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-m	<0.01	<0.01	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05
		Min-m	<0.01	<0.01	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Listvyanka	Mean	0.08	0.10	0.09	0.15	0.11	0.03	0.01	0.02	0.01	0.09	0.39	1.13	0.18
		%	100	100	100	100	100	100	100	100	100	100	94	100	99
		Max-w	0.12	0.16	0.21	0.40	0.28	0.05	0.02	0.04	0.03	0.21	0.96	1.65	1.65
		Min-w	<0.01	0.03	0.02	0.02	0.05	0.01	<0.01	<0.01	<0.01	0.02	0.05	0.68	<0.01
	Irkutsk	Mean	1.84	1.61	0.95	1.78	0.67	0.36	0.13	0.10	0.21	0.53	0.48	0.81	0.80
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	3.07	2.02	1.75	2.56	0.99	0.43	0.25	0.27	0.28	1.01	0.72	1.04	3.07
		Min-w	0.59	1.04	0.47	1.08	0.31	0.31	0.07	<0.01	0.16	0.17	0.31	0.56	<0.01
	Primorskaya	Mean	0.85	3.90	6.68	1.20	0.62	0.30	0.09	0.29	0.15	0.55	0.91	0.87	1.37
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	1.11	5.58	7.88	1.32	0.68	0.41	0.11	0.36	0.16	0.73	0.95	1.06	7.88
		Min-2w	0.60	2.22	5.49	1.08	0.57	0.19	0.07	0.21	0.14	0.37	0.86	0.69	0.07
Thailand	Bangkok	Mean	0.10	16.80	1.90	3.62	1.75	0.26	0.44	1.23	0.47	1.45	1.80	2.95	2.77
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-10d	0.20	22.78	5.13	4.78	4.16	0.75	1.04	1.46	0.84	1.91	2.31	4.65	22.78
		Min-10d	0.05	12.82	0.03	2.13	0.26	0.02	0.11	0.95	0.17	1.00	1.05	1.66	0.02
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	0.39	-	-	0.10	-	-	-	-	0.03	-	0.17
		%	0	0	41	0	0	47	0	0	0	0	67	0	14
		Max-2w	-	-	0.39	-	-	0.10	-	-	-	-	0.03	-	0.39
		Min-2w	-	-	0.39	-	-	0.10	-	-	-	-	0.03	-	0.03
	Chiangmai (Mae Hia)	Mean	0.09	0.06	0.29	0.17	0.09	0.05	0.04	0.06	-	-	-	-	0.11
		%	68	96	97	97	97	97	97	52	0	0	0	0	58
		Max-10d	0.09	0.08	0.49	0.33	0.11	0.05	0.04	0.06	-	-	-	-	0.49
		Min-10d	0.09	0.05	0.05	0.07	0.07	0.04	0.04	0.05	-	-	-	-	0.04
	Nakhon Ratchasima	Mean	1.62	1.32	0.20	0.05	0.23	0.58	0.66	0.55	-	-	-	-	0.61
		%	66	100	100	100	100	100	100	55	0	0	0	0	60
		Max-10d	2.31	2.48	0.23	0.12	0.38	1.23	0.91	0.64	-	-	-	-	2.48
		Min-10d	0.93	0.67	0.19	<0.01	0.11	<0.01	0.48	0.46	-	-	-	-	<0.01
Vietnam	Hanoi	Mean	11.21	5.63	3.33	5.97	5.70	4.52	2.84	3.29	2.87	6.19	7.70	10.38	5.86
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	15.48	14.51	6.30	10.89	6.47	5.28	3.56	3.92	4.55	11.19	10.81	18.59	18.59
		Min-w	1.26	0.36	0.16	1.15	4.72	4.06	2.11	2.07	0.74	1.74	6.30	5.70	0.16
	Hoa Binh	Mean	1.82	2.49	2.26	1.57	0.88	0.61	1.01	0.73	0.61	1.97	1.89	7.19	1.88
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	3.42	4.18	3.92	2.48	1.54	0.74	2.68	0.99	0.90	2.69	3.19	10.64	10.64
		Min-w	0.59	1.31	0.62	0.86	0.29	0.50	0.39	0.44	0.40	0.98	0.93	5.06	0.29
	Can Tho	Mean	0.30	0.40	2.50	0.78	0.79	1.12	0.34	0.26	0.48	0.64	0.26	0.36	0.67
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.44	0.44	3.50	0.96	1.91	1.97	0.61	0.34	0.69	1.12	0.36	0.45	3.50
		Min-w	0.22	0.36	1.97	0.61	0.14	0.76	0.16	0.22	0.36	0.16	0.18	0.22	0.14
	Ho Chi Minh	Mean	2.00	1.57	2.44	1.54	0.78	0.54	0.46	0.54	0.48	0.56	1.38	0.97	1.09
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	4.69	2.75	2.62	3.49	0.92	0.89	0.73	0.99	0.77	1.56	2.55	2.41	4.69
		Min-w	1.06	0.23	2.18	0.31	0.35	0.10	0.21	0.09	0.18	0.13	0.66	0.17	0.09

1) Their monthy averages of July and August at Mondy resulted in the same values due to the 61 day sampling period from July 23 through August 23.

Mean : monthly or annual arithmetic average values

Max-d : maximum values of daily data

Min-d : minimum values of daily data

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

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

Max-w : maximum values of weekly data

Min-w : minimum values of weekly data

Max-2w : maximum values of biweekly data

Min-2w : minimum values of biweekly data

% : monthly or annual percentages of period of available data

Table 4.15 Particulate matter component: Cl⁻

Unit : μg/m³			2014												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Cambodia	Phnom Penh	Mean	0.33	0.30	0.23	0.23	0.28	0.24	0.25	0.28	0.33	0.24	0.22	0.20	0.26
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.34	0.32	0.25	0.25	0.30	0.26	0.29	0.32	0.35	0.29	0.23	0.20	0.35
		Min-2w	0.31	0.27	0.21	0.21	0.26	0.22	0.22	0.24	0.30	0.16	0.22	0.19	0.16
Indonesia	Jakarta	Mean						0.77	0.88	1.57	0.73	0.36	0.65	4.73	1.35
		%						100	100	100	100	100	100	73	57
		Max-2w						1.19	1.69	2.19	1.02	0.42	0.68	8.11	8.11
		Min-2w						0.34	0.32	0.95	0.44	0.29	0.63	1.35	0.29
	Serpong	Mean	0.09	0.06	0.07	0.13	0.11	0.17	0.34	0.27	0.18	0.13	0.27	0.35	0.18
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.15	0.10	0.09	0.22	0.14	0.23	0.45	0.35	0.18	0.18	0.51	0.68	0.68
		Min-2w	0.02	0.01	0.06	0.04	0.07	0.11	0.23	0.19	0.18	0.09	0.04	0.02	0.01
	Bandung	Mean				0.2	0.4	0.4	0.20	0.30	0.32	0.47	0.26	0.23	0.31
		%				100	100	100	100	100	100	100	100	100	75
		Max-2w				0.3	0.5	0.5	0.28	0.48	0.33	0.61	0.39	0.27	0.61
		Min-2w				0.2	0.3	0.4	0.12	0.13	0.32	0.33	0.13	0.18	0.12
Japan	Rishiri	Mean	-	-	-	-	-	-	0.34	1.28	1.38	6.37	4.36	2.24	2.95
		%	0	0	0	0	0	0	100	100	100	100	100	100	49
		Max-2w	-	-	-	-	-	-	0.62	2.16	1.45	10.75	5.99	2.72	10.75
		Min-2w	-	-	-	-	-	-	0.07	0.40	1.31	2.35	2.73	1.75	0.07
	Ochiishi	Mean	3.38	2.68	3.91	2.55	2.41	1.00	1.74	1.12	4.37	3.63	5.43	28.92	4.12
		%	100	50	100	100	100	100	100	100	100	100	100	59	93
		Max-2w	5.07	2.68	4.49	4.01	2.86	1.86	2.46	1.53	6.20	5.69	5.57	28.92	28.92
		Min-2w	1.69	2.68	3.34	1.09	1.96	0.15	1.02	0.71	2.54	1.56	5.30	28.92	0.15
	Tappi	Mean	10.19	5.41	5.58	3.74	2.96	1.08	1.36	2.56	2.15	43.90	45.02	77.29	15.78
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	13.93	7.79	6.95	4.28	4.66	1.98	2.63	4.24	2.78	85.31	87.41	135.05	135.05
		Min-2w	6.46	3.04	3.52	3.19	1.25	0.19	0.08	0.87	1.47	2.50	2.64	19.53	0.08
	Sado-seki	Mean	4.42	4.18	3.32	2.22	2.98	0.77	0.44	1.12	1.23	3.93	5.03	7.08	3.00
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	5.14	4.29	3.65	2.79	5.87	1.42	0.74	1.63	2.56	4.21	7.79	12.22	12.22
		Min-2w	3.71	4.08	2.69	1.66	0.09	0.12	0.13	0.61	0.35	3.65	2.28	1.95	0.09
	Happo	Mean	<0.01	<0.01	0.03	0.07	0.04	<0.01	<0.01	<0.01	0.02	0.09	<0.01	<0.01	0.03
		%	100	100	100	100	100	100	100	50	100	100	100	100	96
		Max-2w	<0.01	<0.01	0.06	0.08	0.06	0.01	0.02	<0.01	0.03	0.12	<0.01	<0.01	0.12
		Min-2w	<0.01	<0.01	<0.01	0.06	0.02	<0.01	<0.01	<0.01	<0.01	0.07	<0.01	<0.01	<0.01
	Ijira	Mean	0.02	0.10	0.05	0.09	0.01	0.01	<0.01	0.12	-	0.11	-	-	0.06
		%	100	100	100	100	100	100	50	100	0	48	0	0	66
		Max-2w	0.03	0.12	0.06	0.15	0.01	0.02	<0.01	0.24	-	0.11	-	-	0.24
		Min-2w	<0.01	0.08	0.04	0.03	<0.01	<0.01	<0.01	<0.01	-	0.11	-	-	<0.01
	Oki	Mean	7.99	4.81	5.79	2.65	1.49	0.33	1.06	1.47	0.92	5.41	5.10	23.99	4.96
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	8.60	5.10	6.10	4.78	2.16	0.65	1.59	1.54	1.44	7.49	8.29	28.21	28.21
		Min-2w	7.38	4.52	5.47	0.51	0.89	<0.01	0.53	1.41	0.39	4.15	1.90	19.77	<0.01
	Banryu	Mean	1.57	2.42	2.27	0.61	0.09	0.10	0.09	0.64	1.77	4.19	1.09	3.40	1.60
		%	100	100	100	50	100	100	100	100	100	100	100	100	96
		Max-2w	2.31	3.05	2.91	0.61	0.15	0.16	0.13	1.08	4.50	6.53	1.17	3.94	6.53
		Min-2w	0.83	1.80	1.47	0.61	0.03	0.05	0.04	0.21	0.37	1.84	1.01	2.87	0.03
	Yusuhara	Mean	0.22	0.05	0.08	0.04	0.02	<0.01	<0.01	<0.01	0.01	0.11	0.06	0.11	0.06
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.41	0.08	0.11	0.05	0.03	<0.01	<0.01	<0.01	0.04	0.15	0.07	0.14	0.41
		Min-2w	0.04	0.01	0.05	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	0.07	0.05	0.07	<0.01
	Hedo	Mean	7.54	11.44	8.03	4.71	2.47	3.19	3.60	7.23	6.41	17.93	7.71	12.78	7.61
		%	100	50	100	100	100	100	100	100	67	100	100	100	92
		Max-2w	8.57	11.44	8.97	5.40	3.37	4.92	4.11	12.15	11.14	28.84	9.37	13.95	28.84
		Min-2w	6.51	11.44	6.19	4.02	1.57	1.46	3.08	2.32	1.68	7.02	6.05	11.62	1.46
	Ogasawara	Mean	4.03	6.19	5.89	3.45	1.67	0.22	1.77	1.79	4.37	2.78	4.46	4.97	3.50
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	5.45	7.50	6.95	4.39	1.84	0.32	2.41	2.04	8.80	4.73	4.60	5.37	8.80
		Min-2w	2.62	4.87	4.83	2.56	1.50	0.11	1.13	1.54	1.99	0.82	4.31	4.58	0.11
	Tokyo	Mean	0.78	0.74	0.45	0.64	0.09	0.08	0.08	0.49	0.74	0.79	0.92	0.57	0.53
		%	100	100	100	100	100	100	100	100	63	100	100	100	96
		Max-2w	0.97	1.18	0.56	0.85	0.13	0.11	0.11	0.82	1.06	1.31	1.08	0.63	1.31
		Min-2w	0.59	0.29	0.29	0.43	0.05	0.04	0.05	0.17	0.43	0.26	0.75	0.52	0.04
Malaysia	Petaling Jaya	Mean	0.48	0.19	0.05	0.03	0.09	0.66	0.82	0.11	0.09	0.01	0.12	0.15	0.23
		%	100	100	100	100	100	100	100	100	100	80	100	100	98
		Max-w	1.29	0.24	0.12	0.05	0.24	1.69	1.12	0.15	0.25	0.05	0.18	0.22	1.69
		Min-w	0.09	0.16	<0.01	<0.01	<0.01	0.18	0.60	0.06	<0.01	<0.01	0.05	0.06	<0.01
	Tanah Rata	Mean	0.17	0.19	0.08	0.01	0.02	0.36	0.22	0.06	0.01	0.01	0.03	0.05	0.10
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.51	0.27	0.12	0.03	0.06	0.64	0.28	0.09	0.02	0.06	0.10	0.10	0.64
		Min-w	0.05	0.12	0.05	<0.01	<0.01	0.11	0.12	0.02	<0.01	<0.01	<0.01	0.02	<0.01
	Danum Valley	Mean	0.62	0.11	0.32	<0.01	0.02	0.06	0.07	0.03	<0.01	<0.01	0.01	0.18	0.13
		%	100	100	100	100	100	100	100	100	100	50	50	100	92
		Max-2w	0.68	0.20	0.64	0.01	0.03	0.09	0.09	0.06	<0.01	<0.01	0.01	0.38	0.68
		Min-2w	0.57	0.02	<0.01	<0.01	<0.01	0.04	0.05	<0.01	<0.01	<0.01	0.01	0.06	<0.01

Table 4.15 Particulate matter component: Cl⁻ (continued)

Unit : μg/m^3			2014												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Myanmar	Yangon	Mean	-	0.02	0.22	0.07	0.10	0.49	0.41	0.13	0.02	0.08	0.33	0.69	0.27
		%	0	50	100	100	100	100	100	100	100	100	100	100	88
		Max-2w	-	0.02	0.22	0.08	0.15	0.92	0.70	0.26	0.03	0.14	0.37	1.04	1.04
		Min-2w	-	0.02	0.21	0.05	0.05	0.06	0.20	<0.01	<0.01	0.02	0.29	0.11	<0.01
Philippines	Mt. Sto. Tomas	Mean	0.16	0.08	0.14	0.17	0.05	0.08	0.11	0.09	0.18	0.08	0.08	0.06	0.10
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.33	0.17	0.32	0.19	0.07	0.12	0.14	0.14	0.48	0.15	0.12	0.09	0.48
		Min-w	0.06	<0.01	0.05	0.13	<0.01	<0.01	0.07	0.04	0.05	0.04	0.04	<0.01	<0.01
Republic of Korea	Kanghwa	Mean	0.27	0.07	0.06	0.38	0.25	0.05	0.04	0.12	0.01	0.03	0.06	0.13	0.13
		%	16	7	16	19	16	17	16	16	17	19	13	16	16
		Max-d	0.53	0.09	0.12	0.40	0.71	0.08	0.07	0.14	0.02	0.07	0.19	0.27	0.71
		Min-d	0.05	0.05	0.02	0.37	0.01	0.03	0.02	0.10	<0.01	<0.01	0.01	0.06	<0.01
	Cheju (Kosan)	Mean	1.51	1.61	0.20	1.92	0.64	1.32	0.22	0.33	0.27	0.27	0.53	0.33	0.72
		%	13	11	10	10	16	17	16	16	10	16	17	13	14
		Max-d	2.23	2.55	0.20	3.86	1.89	2.47	0.26	0.58	0.33	0.33	1.09	0.50	3.86
		Min-d	0.77	0.18	0.18	0.79	0.23	0.20	0.19	0.19	0.24	0.23	0.23	0.22	0.18
	Imsil	Mean	0.32	0.36	0.26	0.17	0.26	0.21	0.20	0.16	0.16	0.24	0.39	0.35	0.25
		%	16	14	16	17	16	17	16	16	17	19	13	16	16
		Max-d	0.38	0.49	0.40	0.20	0.32	0.32	0.23	0.17	0.19	0.25	0.86	0.55	0.86
		Min-d	0.24	0.23	0.19	0.16	0.21	0.17	0.19	0.14	0.15	0.22	0.21	0.21	0.14
Russia	Mondy [1)]	Mean	0.10	0.17	0.07	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.01	0.07	0.04
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-m	0.10	0.17	0.07	0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.02	0.01	0.07	0.17
		Min-m	0.10	0.17	0.07	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.07	<0.01
	Listvyanka	Mean	0.02	0.03	0.04	0.03	0.08	0.01	<0.01	<0.01	0.02	0.07	0.02	0.83	0.09
		%	100	100	100	100	100	100	100	100	100	100	94	100	99
		Max-w	0.04	0.04	0.10	0.04	0.14	0.02	<0.01	<0.01	0.04	0.11	0.03	1.11	1.11
		Min-w	<0.01	0.02	0.01	0.02	0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.01	0.68	<0.01
	Irkutsk	Mean	0.71	0.59	0.45	0.55	0.15	0.07	0.02	0.02	0.03	0.09	0.26	0.12	0.26
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.97	0.89	0.91	0.76	0.17	0.12	0.03	0.03	0.03	0.13	0.56	0.15	0.97
		Min-w	0.39	0.40	0.22	0.32	0.10	0.03	<0.01	0.01	0.03	0.03	0.08	0.08	<0.01
	Primorskaya	Mean	0.28	0.39	0.48	0.05	0.04	0.03	<0.01	0.09	0.05	0.06	0.10	0.06	0.14
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.39	0.43	0.67	0.06	0.04	0.04	<0.01	0.12	0.07	0.07	0.10	0.07	0.67
		Min-2w	0.17	0.35	0.29	0.04	0.04	0.02	<0.01	0.06	0.02	0.06	0.09	0.05	<0.01
Thailand	Bangkok	Mean	0.05	1.53	0.21	0.19	0.28	0.11	0.10	0.64	0.08	0.21	0.12	0.12	0.31
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-10d	0.10	2.69	0.58	0.23	0.63	0.32	0.17	1.21	0.13	0.31	0.16	0.19	2.69
		Min-10d	0.02	0.72	<0.01	0.14	0.08	<0.01	0.02	0.30	0.03	0.11	0.05	0.04	<0.01
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	0.02	-	-	0.10	-	-	-	-	<0.01	-	0.04
		%	0	0	41	0	0	47	0	0	0	0	67	0	14
		Max-2w	-	-	0.02	-	-	0.10	-	-	-	-	<0.01	-	0.10
		Min-2w	-	-	0.02	-	-	0.10	-	-	-	-	<0.01	-	<0.01
	Chiangmai (Mae Hia)	Mean	0.10	0.05	0.06	0.06	0.11	0.03	0.13	0.10	-	-	-	-	0.08
		%	68	96	97	97	97	97	97	52	0	0	0	0	58
		Max-10d	0.13	0.07	0.08	0.09	0.15	0.05	0.15	0.11	-	-	-	-	0.15
		Min-10d	0.07	0.04	0.05	0.03	0.06	0.02	0.11	0.09	-	-	-	-	0.02
	Nakhon Ratchasima	Mean	0.32	0.28	<0.01	<0.01	0.05	0.41	0.18	0.13	-	-	-	-	0.17
		%	66	100	100	100	100	100	100	55	0	0	0	0	60
		Max-10d	0.35	0.85	<0.01	0.02	0.10	0.89	0.25	0.16	-	-	-	-	0.89
		Min-10d	0.29	<0.01	<0.01	<0.01	0.02	<0.01	0.10	0.11	-	-	-	-	<0.01
Vietnam	Hanoi	Mean	2.45	0.71	0.91	1.92	1.31	0.97	0.80	0.82	0.64	1.75	1.52	2.04	1.34
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	3.76	1.24	2.38	3.65	2.16	1.31	0.86	1.01	1.04	2.82	2.13	3.28	3.76
		Min-w	0.21	0.08	0.08	0.39	0.62	0.54	0.74	0.60	0.24	0.88	0.89	1.04	0.08
	Hoa Binh	Mean	0.13	0.22	0.73	3.19	3.44	2.46	0.89	0.42	0.18	0.58	0.77	1.02	1.18
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.19	0.37	2.43	4.09	4.72	2.94	1.34	0.72	0.31	1.76	1.47	2.44	4.72
		Min-w	0.04	0.06	0.12	2.06	2.51	1.64	0.42	0.11	0.09	0.15	0.26	0.41	0.04
	Can Tho	Mean	1.01	0.26	0.44	1.27	0.57	0.43	0.31	0.22	1.52	0.15	0.39	0.21	0.56
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	2.06	0.44	0.78	2.97	0.78	0.78	0.97	0.46	3.97	0.49	0.46	0.31	3.97
		Min-w	0.13	0.10	0.13	0.45	0.13	0.10	0.03	0.04	0.45	0.02	0.28	0.13	0.02
	Ho Chi Minh	Mean	1.39	0.63	0.09	0.11	0.28	0.22	0.36	0.51	1.15	1.38	1.55	1.12	0.74
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	1.95	0.91	0.15	0.20	0.43	0.53	0.67	0.79	2.52	1.66	2.48	1.39	2.52
		Min-w	0.39	0.37	0.02	0.01	0.09	0.01	0.07	0.12	0.27	1.15	1.00	0.52	0.01

1) Their monthy averages of July and August at Mondy resulted in the same values due to the 61 day sampling period from July 23 through August 23.

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

Table 4.16 Particulate matter component: NH_4^+

Unit : μg/m³			2014												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Cambodia	Phnom Penh	Mean	0.41	0.73	0.47	0.64	0.57	0.54	0.44	0.47	0.53	0.41	0.50	0.56	0.52
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.58	0.81	0.60	0.93	0.95	0.71	0.48	0.61	0.60	0.54	0.58	0.58	0.95
		Min-2w	0.25	0.65	0.34	0.35	0.35	0.38	0.40	0.34	0.46	0.32	0.43	0.54	0.25
Indonesia	Jakarta	Mean						0.02	0.74	0.39	0.63	0.75	1.25	0.13	0.57
		%						100	100	100	100	100	100	73	57
		Max-2w						0.04	1.15	0.74	0.77	1.13	2.13	0.14	2.13
		Min-2w						0.01	0.06	0.04	0.49	0.36	0.37	0.11	0.01
	Serpong	Mean	0.19	0.21	0.69	0.15	0.59	0.61	0.52	0.67	0.47	0.57	0.95	<0.01	0.47
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.21	0.41	1.11	0.22	0.85	0.81	0.59	0.80	0.56	0.73	1.06	0.01	1.11
		Min-2w	0.18	0.01	0.27	0.07	0.32	0.40	0.44	0.54	0.38	0.42	0.84	<0.01	<0.01
	Bandung	Mean				0.93	1.42	2.20	0.50	1.20	1.10	0.99	1.93	0.47	1.20
		%				100	100	100	100	100	100	100	100	100	75
		Max-2w				1.16	1.92	2.54	0.78	2.21	1.30	1.27	2.48	0.47	2.54
		Min-2w				0.70	0.93	1.86	0.22	0.20	0.90	0.71	1.38	0.47	0.20
Japan	Rishiri	Mean	-	-	-	-	-	-	0.40	0.21	0.32	0.45	0.46	0.22	0.35
		%	0	0	0	0	0	0	100	100	100	100	100	100	49
		Max-2w	-	-	-	-	-	-	0.59	0.22	0.40	0.56	0.59	0.24	0.59
		Min-2w	-	-	-	-	-	-	0.22	0.20	0.24	0.36	0.34	0.21	0.20
	Ochiishi	Mean	0.52	0.29	0.65	0.48	0.47	0.15	0.30	0.25	0.32	0.17	0.49	0.37	0.38
		%	100	50	100	100	100	100	100	100	100	100	100	59	93
		Max-2w	0.62	0.29	0.95	0.74	0.72	0.22	0.35	0.34	0.32	0.26	0.60	0.37	0.95
		Min-2w	0.42	0.29	0.35	0.22	0.23	0.07	0.25	0.16	0.32	0.09	0.38	0.37	0.07
	Tappi	Mean	0.62	0.44	1.12	0.76	1.44	0.53	1.11	0.51	0.49	0.17	0.53	0.38	0.69
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.77	0.46	1.83	0.90	1.48	0.58	1.15	0.77	0.61	0.24	0.73	0.43	1.83
		Min-2w	0.46	0.41	0.55	0.62	1.40	0.48	1.08	0.26	0.38	0.10	0.33	0.33	0.10
	Sado-seki	Mean	0.44	0.49	1.02	0.83	1.06	0.76	1.08	0.26	0.45	0.26	0.32	0.18	0.61
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.55	0.60	1.47	0.86	1.38	1.16	1.14	0.51	0.61	0.29	0.40	0.30	1.47
		Min-2w	0.34	0.37	0.53	0.80	0.73	0.37	1.02	0.02	0.15	0.23	0.23	0.06	0.02
	Happo	Mean	0.27	0.66	1.03	1.82	1.50	1.37	0.91	0.56	0.49	0.26	0.26	0.09	0.80
		%	100	100	100	100	100	100	100	50	100	100	100	100	96
		Max-2w	0.29	0.68	1.34	2.66	2.28	2.29	1.15	0.56	0.61	0.27	0.26	0.11	2.66
		Min-2w	0.26	0.63	0.81	0.98	0.73	0.46	0.68	0.56	0.40	0.25	0.26	0.07	0.07
	Ijira	Mean	0.75	0.58	1.55	1.58	1.03	1.47	1.74	0.67	-	0.37	-	-	1.11
		%	100	100	100	100	100	100	50	100	0	48	0	0	66
		Max-2w	0.76	0.63	1.87	2.29	1.13	1.61	1.74	0.71	-	0.37	-	-	2.29
		Min-2w	0.74	0.53	1.12	0.87	0.93	1.32	1.74	0.62	-	0.37	-	-	0.37
	Oki	Mean	0.88	1.46	1.85	1.75	1.40	1.73	0.74	0.66	0.72	0.40	0.70	0.49	1.05
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.90	2.38	2.38	2.16	2.03	2.41	0.85	0.72	0.88	0.43	0.78	0.58	2.41
		Min-2w	0.87	0.53	1.31	1.35	1.02	1.05	0.64	0.60	0.56	0.36	0.62	0.40	0.36
	Banryu	Mean	1.11	0.99	1.90	2.11	1.90	1.96	1.21	0.78	0.65	0.53	1.00	0.86	1.22
		%	100	100	100	50	100	100	100	100	100	100	100	100	96
		Max-2w	1.30	1.06	2.67	2.11	2.06	2.53	1.57	0.86	0.94	0.68	1.02	0.86	2.67
		Min-2w	0.92	0.92	0.98	2.11	1.75	1.38	0.84	0.71	0.42	0.38	0.97	0.86	0.38
	Yusuhara	Mean	1.42	0.41	1.70	1.49	1.55	1.56	1.31	0.50	0.77	0.54	0.99	0.78	1.10
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	1.54	0.76	2.31	1.88	1.69	1.67	1.54	0.65	1.58	0.63	1.00	0.82	2.31
		Min-2w	1.30	0.07	1.17	1.11	1.42	1.46	1.09	0.35	<0.01	0.44	0.97	0.73	<0.01
	Hedo	Mean	0.74	0.48	0.75	1.08	0.74	0.54	0.17	0.19	0.49	0.57	0.62	0.79	0.61
		%	100	50	100	100	100	100	100	100	67	100	100	100	92
		Max-2w	0.75	0.48	0.76	1.74	0.88	0.92	0.21	0.21	0.61	0.72	0.72	0.86	1.74
		Min-2w	0.72	0.48	0.72	0.42	0.60	0.16	0.13	0.18	0.37	0.41	0.51	0.72	0.13
	Ogasawara	Mean	0.18	0.32	0.33	0.42	0.20	0.49	0.12	0.07	0.10	0.08	0.21	0.26	0.23
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.31	0.44	0.34	0.47	0.27	0.70	0.14	0.13	0.17	0.12	0.25	0.27	0.70
		Min-2w	0.04	0.20	0.32	0.37	0.13	0.28	0.10	<0.01	0.06	0.05	0.16	0.25	<0.01
	Tokyo	Mean	1.52	1.38	1.94	1.61	1.63	1.71	1.94	0.81	0.68	1.23	1.45	0.93	1.42
		%	100	100	100	100	100	100	100	100	63	100	100	100	96
		Max-2w	1.87	1.76	3.02	1.87	2.08	1.79	2.36	1.07	0.87	1.42	1.52	0.93	3.02
		Min-2w	1.17	1.00	1.24	1.34	1.18	1.63	1.51	0.55	0.49	1.03	1.39	0.93	0.49
Malaysia	Petaling Jaya	Mean	1.43	1.96	2.42	0.92	1.23	1.11	1.05	1.16	1.78	1.83	0.89	0.73	1.37
		%	100	100	100	100	100	100	100	100	100	80	100	100	98
		Max-w	3.35	3.40	4.27	1.41	1.41	1.40	1.21	1.62	2.31	2.21	1.38	1.13	4.27
		Min-w	0.61	1.37	0.02	0.52	1.10	0.68	0.86	0.75	1.34	1.35	0.63	0.35	0.02
	Tanah Rata	Mean	0.58	0.42	0.46	0.58	0.28	0.67	0.63	0.73	1.04	1.55	0.25	0.17	0.63
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	1.61	0.61	0.51	0.73	0.55	0.91	1.13	1.64	1.18	2.14	0.65	0.39	2.14
		Min-w	0.12	0.19	0.39	0.31	0.04	0.42	0.31	0.21	0.93	1.16	0.04	0.05	0.04
	Danum Valley	Mean	0.06	0.09	0.13	0.12	0.08	0.11	0.08	0.06	0.24	0.57	0.07	0.04	0.12
		%	100	100	100	100	100	100	100	100	100	50	50	100	92
		Max-2w	0.08	0.12	0.17	0.13	0.12	0.12	0.12	0.07	0.26	0.57	0.07	0.05	0.57
		Min-2w	0.04	0.06	0.09	0.10	0.04	0.11	<0.01	0.05	0.21	0.57	0.07	0.03	<0.01

Table 4.16 Particulate matter component: NH_4^+ (continued)

Unit : μg/m³			2014												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Myanmar	Yangon	Mean	-	0.08	1.94	0.60	0.07	0.20	0.38	0.16	0.23	0.35	0.62	0.68	0.50
		%	0	50	100	100	100	100	100	100	100	100	100	100	88
		Max-2w	-	0.08	3.16	1.16	0.09	0.24	0.65	0.18	0.25	0.60	0.63	1.15	3.16
		Min-2w	-	0.08	0.72	0.04	0.06	0.15	0.20	0.13	0.20	0.10	0.62	0.24	0.04
Philippines	Mt. Sto. Tomas	Mean	<0.01	0.11	0.13	0.50	0.17	0.07	0.02	<0.01	<0.01	0.11	0.01	0.01	0.10
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.02	0.29	0.50	0.68	0.35	0.26	0.08	0.01	0.02	0.32	0.03	0.02	0.68
		Min-w	<0.01	<0.01	<0.01	0.38	0.03	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01
Republic of Korea	Kanghwa	Mean	4.54	3.72	4.21	3.76	7.09	2.97	4.87	2.28	2.75	2.06	1.63	3.12	3.58
		%	16	7	16	19	16	17	16	16	17	19	13	16	16
		Max-d	12.54	6.37	7.02	6.85	10.40	4.43	10.13	5.42	4.95	3.49	3.40	4.74	12.54
		Min-d	0.43	1.07	0.94	1.29	1.46	2.02	2.42	0.56	1.72	0.44	0.37	1.46	0.37
	Cheju (Kosan)	Mean	10.47	2.54	2.40	4.54	2.10	3.48	0.92	1.48	2.12	1.79	1.70	1.83	2.83
		%	13	11	10	10	16	17	16	16	10	16	17	13	14
		Max-d	15.72	4.90	3.92	11.76	3.48	5.38	1.91	4.70	3.56	2.61	3.39	4.33	15.72
		Min-d	5.86	1.02	1.55	0.43	0.91	0.55	0.08	0.50	1.03	1.05	0.53	0.56	0.08
	Imsil	Mean	5.41	5.05	3.92	2.92	4.73	3.05	1.42	1.13	1.46	1.33	1.95	2.66	2.87
		%	16	14	16	17	16	17	16	16	17	19	13	16	16
		Max-d	11.64	8.93	7.66	6.33	9.59	3.86	3.21	4.47	2.56	2.32	2.54	4.08	11.64
		Min-d	2.69	1.28	0.95	0.12	1.20	2.37	0.18	0.20	0.74	0.28	1.19	1.57	0.12
Russia	Mondy [1)]	Mean	0.11	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	0.02	0.02	0.02
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-m	0.11	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	0.02	0.02	0.11
		Min-m	0.11	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	0.02	0.02	<0.01
	Listvyanka	Mean	1.04	0.38	0.08	0.39	0.31	0.11	0.02	0.02	0.03	0.40	0.53	1.04	0.35
		%	100	100	100	100	100	100	100	100	100	100	94	100	99
		Max-w	2.39	1.36	0.19	0.71	0.49	0.26	0.04	0.05	0.06	1.13	1.22	1.55	2.39
		Min-w	0.22	0.01	0.02	0.11	0.09	0.03	<0.01	<0.01	<0.01	0.09	0.10	0.44	<0.01
	Irkutsk	Mean	1.09	1.25	0.36	0.51	0.41	0.34	0.03	0.02	0.10	0.50	0.75	1.13	0.55
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	1.55	2.19	0.67	0.83	0.50	0.47	0.05	0.03	0.18	0.77	0.95	1.57	2.19
		Min-w	0.39	0.31	0.14	0.33	0.21	<0.01	0.02	<0.01	0.04	0.32	0.53	0.71	<0.01
	Primorskaya	Mean	0.87	1.53	1.52	1.38	1.06	0.49	0.51	0.59	0.50	0.62	0.65	0.78	0.88
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	1.33	2.30	1.79	1.54	1.21	0.53	0.54	0.62	0.57	0.63	0.66	1.01	2.30
		Min-2w	0.40	0.76	1.26	1.22	0.92	0.46	0.47	0.55	0.43	0.61	0.64	0.56	0.40
Thailand	Bangkok	Mean	0.31	3.48	0.81	1.60	1.76	0.02	0.18	0.17	0.30	2.75	2.18	2.19	1.27
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-10d	0.67	6.06	2.17	2.43	4.24	0.05	0.26	0.25	0.37	4.44	4.25	4.01	6.06
		Min-10d	0.03	1.79	0.09	0.90	0.31	<0.01	0.09	0.12	0.19	1.07	1.13	1.12	<0.01
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	1.91	-	-	0.08	-	-	-	-	<0.01	-	0.67
		%	0	0	41	0	0	47	0	0	0	0	67	0	14
		Max-2w	-	-	1.91	-	-	0.08	-	-	-	-	<0.01	-	1.91
		Min-2w	-	-	1.91	-	-	0.08	-	-	-	-	<0.01	-	<0.01
	Chiangmai (Mae Hia)	Mean	0.05	0.04	0.11	0.12	0.10	0.14	0.13	0.11	-	-	-	-	0.10
		%	68	96	97	97	97	97	97	52	0	0	0	0	58
		Max-10d	0.06	0.04	0.12	0.15	0.11	0.14	0.13	0.11	-	-	-	-	0.15
		Min-10d	0.05	0.03	0.09	0.10	0.08	0.13	0.13	0.11	-	-	-	-	0.03
	Nakhon Ratchasima	Mean	0.63	1.65	1.64	1.88	0.51	0.59	0.50	0.56	-	-	-	-	1.03
		%	66	100	100	100	100	100	100	55	0	0	0	0	60
		Max-10d	1.25	2.25	2.31	2.39	0.83	0.76	0.52	0.59	-	-	-	-	2.39
		Min-10d	<0.01	0.80	0.82	1.61	<0.01	0.34	0.46	0.54	-	-	-	-	<0.01
Vietnam	Hanoi	Mean	6.83	4.27	1.72	1.93	0.81	1.10	0.64	0.77	0.79	3.30	2.33	4.56	2.46
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	11.85	13.24	3.81	5.41	1.67	1.87	1.20	0.94	0.96	7.00	3.44	8.37	13.24
		Min-w	2.11	0.21	0.13	0.67	0.27	0.59	0.22	0.58	0.69	0.79	1.39	2.92	0.13
	Hoa Binh	Mean	1.59	2.52	1.93	2.19	1.31	0.31	0.69	1.01	1.12	3.10	1.91	3.50	1.76
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	2.02	3.32	3.27	3.00	1.75	0.52	1.21	2.32	2.14	6.03	3.04	5.46	6.03
		Min-w	0.98	1.52	0.45	1.79	0.55	0.14	0.34	0.04	0.66	1.10	0.43	1.72	0.04
	Can Tho	Mean	0.23	0.14	0.81	1.60	0.94	0.46	0.18	0.25	0.34	0.94	1.44	0.32	0.63
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.58	0.20	1.95	3.53	2.06	0.82	0.58	0.37	0.81	1.71	3.53	0.76	3.53
		Min-w	<0.01	0.07	0.15	0.33	0.10	0.17	<0.01	0.15	0.03	0.48	0.15	0.03	<0.01
	Ho Chi Minh	Mean	1.39	0.96	0.47	0.73	1.08	2.93	1.38	0.57	0.15	0.63	1.21	0.45	1.00
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	3.17	3.11	1.16	0.93	2.71	4.61	1.82	1.68	0.32	1.19	3.43	1.12	4.61
		Min-w	0.25	0.17	0.12	0.46	0.13	1.14	1.03	0.06	0.05	0.22	0.15	0.10	0.05

1) Their monthy averages of July and August at Mondy resulted in the same values due to the 61 day sampling period from July 23 through August 23.

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

Table 4.17 Particulate matter component: Na^+

Unit : μg/m³			2014												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Cambodia	Phnom Penh	Mean	0.69	0.82	0.58	0.61	0.69	0.77	0.60	0.55	0.49	0.41	0.47	0.38	0.59
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.79	1.09	0.61	0.87	1.14	0.91	0.65	0.65	0.69	0.48	0.59	0.39	1.14
		Min-2w	0.60	0.55	0.55	0.34	0.36	0.64	0.55	0.45	0.30	0.33	0.35	0.36	0.30
Indonesia	Jakarta	Mean						0.69	2.17	3.69	1.83	0.33	1.67	2.32	1.84
		%						100	100	100	100	100	100	73	57
		Max-2w						0.8	2.8	6.4	2.6	0.3	2.0	3.3	6.4
		Min-2w						0.59	1.06	1.01	1.07	0.33	1.37	1.39	0.33
	Serpong	Mean	0.12	0.40	0.33	0.19	0.12	0.27	0.36	0.87	0.86	0.72	0.38	0.19	0.40
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.20	0.66	0.41	0.23	0.14	0.39	0.60	1.03	0.87	0.94	0.64	0.38	1.03
		Min-2w	0.04	0.15	0.25	0.14	0.10	0.15	0.13	0.71	0.86	0.51	0.12	<0.01	<0.01
	Bandung	Mean				0.23	0.46	0.50	0.31	0.64	1.05	1.20	0.49	0.24	0.57
		%				100	100	100	100	100	100	100	100	100	75
		Max-2w				0.24	0.47	0.52	0.51	1.19	1.05	1.24	0.64	0.26	1.24
		Min-2w				0.22	0.45	0.48	0.11	0.10	1.05	1.16	0.34	0.21	0.10
Japan	Rishiri	Mean	-	-	-	-	-	-	0.56	1.37	1.27	4.13	2.84	1.60	2.13
		%	0	0	0	0	0	0	100	100	100	100	100	100	49
		Max-2w	-	-	-	-	-	-	0.96	1.72	1.44	6.69	3.68	1.83	6.69
		Min-2w	-	-	-	-	-	-	0.15	1.02	1.09	1.55	1.99	1.36	0.15
	Ochiishi	Mean	2.24	1.73	2.47	1.85	1.75	0.86	1.58	1.20	3.19	2.23	3.48	16.44	2.72
		%	100	50	100	100	100	100	100	100	100	100	100	59	93
		Max-2w	3.34	1.73	2.82	2.36	2.11	1.52	1.79	1.50	3.99	3.49	3.49	16.44	16.44
		Min-2w	1.14	1.73	2.13	1.33	1.39	0.20	1.38	0.90	2.39	0.98	3.47	16.44	0.20
	Tappi	Mean	6.55	3.57	4.01	3.12	3.01	0.98	1.72	2.28	1.76	26.17	27.59	44.82	9.88
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	8.85	4.86	4.85	3.28	3.96	1.43	2.81	3.33	1.99	50.73	53.02	77.80	77.80
		Min-2w	4.25	2.29	2.56	2.95	2.05	0.53	0.64	1.24	1.49	1.61	2.16	11.84	0.53
	Sado-seki	Mean	3.05	2.95	2.68	2.21	2.86	0.94	1.01	1.07	1.25	2.74	3.45	4.26	2.34
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	3.70	3.12	2.85	2.62	4.33	1.53	1.39	1.76	1.91	3.12	4.87	7.34	7.34
		Min-2w	2.41	2.78	2.41	1.80	1.39	0.34	0.63	0.37	0.64	2.37	2.03	1.19	0.34
	Happo	Mean	0.07	0.10	0.12	0.12	0.10	0.03	0.04	0.05	0.10	0.19	0.12	0.02	0.09
		%	100	100	100	100	100	100	100	50	100	100	100	100	96
		Max-2w	0.09	0.12	0.15	0.12	0.16	0.03	0.06	0.05	0.18	0.21	0.12	0.03	0.21
		Min-2w	0.05	0.08	0.06	0.12	0.04	0.02	0.02	0.05	0.02	0.17	0.12	0.01	0.01
	Ijira	Mean	0.15	0.24	0.25	0.27	0.17	0.11	0.19	0.25	-	0.32	-	-	0.21
		%	100	100	100	100	100	100	50	100	0	48	0	0	66
		Max-2w	0.18	0.25	0.29	0.33	0.19	0.13	0.19	0.39	-	0.32	-	-	0.39
		Min-2w	0.12	0.22	0.18	0.22	0.15	0.09	0.19	0.12	-	0.32	-	-	0.09
	Oki	Mean	5.47	3.74	4.45	2.63	2.17	0.88	1.66	1.64	1.06	4.02	3.52	14.34	3.74
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	5.63	3.86	4.62	3.68	2.22	1.39	2.37	1.81	1.18	5.19	5.45	17.30	17.30
		Min-2w	5.30	3.61	4.27	1.58	2.07	0.37	0.95	1.47	0.94	3.42	1.59	11.37	0.37
	Banryu	Mean	1.48	1.94	2.16	1.28	0.92	0.67	0.74	0.98	1.71	3.08	1.23	2.55	1.60
		%	100	100	100	50	100	100	100	100	100	100	100	100	96
		Max-2w	2.06	2.17	2.63	1.28	0.97	0.76	0.79	1.17	3.36	4.13	1.31	2.92	4.13
		Min-2w	0.89	1.72	1.71	1.28	0.87	0.58	0.69	0.79	0.75	2.03	1.15	2.18	0.58
	Yusuhara	Mean	0.46	0.15	0.40	0.43	0.38	0.11	0.33	0.19	0.27	0.65	0.38	0.39	0.34
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.62	0.28	0.47	0.45	0.41	0.15	0.39	0.21	0.41	0.78	0.45	0.42	0.78
		Min-2w	0.30	<0.01	0.34	0.42	0.35	0.07	0.27	0.18	0.19	0.53	0.30	0.35	<0.01
	Hedo	Mean	6.05	7.18	5.97	4.17	2.47	2.89	2.46	4.66	5.00	2.85	5.79	8.63	4.79
		%	100	50	100	100	100	100	100	100	67	100	100	100	92
		Max-2w	6.52	7.18	6.37	4.84	2.62	3.34	2.65	7.56	8.36	5.71	6.91	9.37	9.37
		Min-2w	5.58	7.18	5.20	3.49	2.32	2.44	2.26	1.76	1.64	<0.01	4.66	7.89	<0.01
	Ogasawara	Mean	3.01	4.11	4.15	3.05	1.66	0.61	1.30	1.15	2.71	1.80	3.09	3.49	2.54
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	3.57	4.57	4.60	3.42	1.77	0.66	1.53	1.19	5.10	3.09	3.23	3.71	5.10
		Min-2w	2.45	3.65	3.69	2.74	1.56	0.57	1.07	1.11	1.45	0.51	2.94	3.26	0.51
	Tokyo	Mean	0.26	0.51	0.70	1.02	0.89	0.58	0.68	1.15	1.37	1.13	0.74	0.26	0.77
		%	100	100	100	100	100	100	100	100	63	100	100	100	96
		Max-2w	0.28	0.69	0.86	1.10	0.99	0.59	0.73	1.32	1.92	1.50	0.91	0.27	1.92
		Min-2w	0.24	0.33	0.51	0.94	0.79	0.56	0.64	0.98	0.83	0.75	0.56	0.25	0.24
Malaysia	Petaling Jaya	Mean	0.88	0.95	0.50	0.12	0.17	0.68	0.77	0.46	0.47	0.17	0.16	0.25	0.47
		%	100	100	100	100	100	100	100	100	100	80	100	100	98
		Max-w	1.47	1.19	0.83	0.16	0.28	0.95	0.91	0.77	0.67	0.22	0.18	0.39	1.47
		Min-w	0.22	0.69	0.07	0.09	0.09	0.47	0.54	0.30	0.34	0.08	0.15	0.11	0.07
	Tanah Rata	Mean	0.38	0.49	0.39	0.04	0.01	0.30	0.34	0.15	0.14	0.12	0.08	0.11	0.21
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.60	0.57	0.51	0.09	0.03	0.52	0.52	0.20	0.20	0.21	0.15	0.24	0.60
		Min-w	0.09	0.38	0.22	<0.01	<0.01	0.10	0.08	0.10	0.10	0.06	0.02	0.03	<0.01
	Danum Valley	Mean	0.80	0.77	0.46	0.31	0.06	0.08	0.09	0.12	0.14	0.14	0.28	0.52	0.32
		%	100	100	100	100	100	100	100	100	100	50	50	100	92
		Max-2w	0.96	1.30	0.85	0.46	0.07	0.08	0.13	0.13	0.19	0.14	0.28	0.83	1.30
		Min-2w	0.65	0.24	0.07	0.17	0.06	0.08	<0.01	0.10	0.09	0.14	0.28	0.25	<0.01

Table 4.17 Particulate matter component: Na^+ (continued)

Unit : μg/m³			2014												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Myanmar	Yangon	Mean	-	0.02	0.47	0.20	0.10	0.23	1.42	0.11	0.07	0.03	0.39	0.13	0.34
		%	0	50	100	100	100	100	100	100	100	100	100	100	88
		Max-2w	-	0.02	0.70	0.31	0.14	0.42	3.52	0.21	0.08	0.06	0.40	0.23	3.52
		Min-2w	-	0.02	0.23	0.08	0.06	0.04	0.16	<0.01	0.06	<0.01	0.37	0.05	<0.01
Philippines	Mt. Sto. Tomas	Mean	0.39	0.31	0.38	0.42	0.33	0.46	0.39	0.24	0.11	0.08	0.35	0.36	0.31
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.54	0.41	0.58	0.46	0.36	0.70	0.40	0.39	0.26	0.11	0.44	0.42	0.70
		Min-w	0.32	0.14	0.28	0.38	0.31	0.33	0.34	0.02	0.04	0.01	0.30	0.30	0.01
Republic of Korea	Kanghwa	Mean	0.27	0.19	0.39	0.40	0.51	0.16	0.43	0.29	0.12	0.26	0.24	0.31	0.30
		%	16	7	16	19	16	17	16	16	17	19	13	16	16
		Max-d	0.47	0.25	0.61	0.60	0.97	0.26	0.64	0.44	0.24	0.35	0.27	0.39	0.97
		Min-d	0.10	0.13	0.25	0.27	0.25	0.10	0.27	0.17	0.07	0.17	0.18	0.25	0.07
	Cheju	Mean	2.44	0.94	0.16	0.97	0.39	0.61	0.18	0.18	0.19	0.29	0.42	0.46	0.57
	(Kosan)	%	13	11	10	10	16	17	16	16	10	16	17	13	14
		Max-d	3.59	1.27	0.19	2.28	0.93	1.15	0.31	0.46	0.28	0.68	0.74	0.60	3.59
		Min-d	1.99	0.34	0.15	0.32	0.16	0.10	0.06	0.06	0.11	0.15	0.17	0.27	0.06
	Imsil	Mean	0.24	0.23	0.22	0.21	0.27	0.24	0.15	0.13	0.12	0.14	0.23	0.26	0.20
		%	16	14	16	17	16	17	16	16	17	19	13	16	16
		Max-d	0.35	0.31	0.28	0.42	0.46	0.42	0.19	0.21	0.16	0.22	0.42	0.34	0.46
		Min-d	0.18	0.19	0.15	0.06	0.15	0.15	0.06	0.10	0.10	0.06	0.13	0.20	0.06
Russia	Mondy [1)]	Mean	0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.03	<0.01	0.08	0.01
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-m	0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.03	<0.01	0.08	0.08
		Min-m	0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.03	<0.01	0.08	<0.01
	Listvyanka	Mean	0.05	0.06	0.08	0.05	0.05	0.03	0.01	0.01	0.01	0.07	0.06	0.22	0.06
		%	100	100	100	100	100	100	100	100	100	100	94	100	99
		Max-w	0.06	0.10	0.16	0.11	0.10	0.05	0.02	0.02	0.02	0.14	0.09	0.45	0.45
		Min-w	0.05	0.02	0.03	0.02	0.02	0.01	<0.01	<0.01	<0.01	0.02	0.02	0.11	<0.01
	Irkutsk	Mean	0.26	0.28	0.22	0.27	0.11	0.23	0.05	0.04	0.06	0.04	0.20	0.14	0.16
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.52	0.47	0.37	0.33	0.13	0.67	0.07	0.08	0.11	0.05	0.35	0.21	0.67
		Min-w	0.09	0.14	0.08	0.17	0.05	0.08	0.04	0.02	0.03	0.02	0.08	0.09	0.02
	Primorskaya	Mean	0.87	1.53	1.52	1.38	1.06	0.49	0.51	0.59	0.50	0.58	0.23	0.17	0.79
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	1.33	2.30	1.79	1.54	1.21	0.53	0.54	0.62	0.57	0.63	0.24	0.18	2.30
		Min-2w	0.40	0.76	1.26	1.22	0.92	0.46	0.47	0.55	0.43	0.53	0.22	0.15	0.15
Thailand	Bangkok	Mean	0.48	5.16	0.63	0.96	1.96	0.04	0.28	0.84	0.20	0.62	0.52	0.48	1.03
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-10d	0.90	10.44	1.90	1.23	4.47	0.11	0.51	1.29	0.28	0.76	0.69	0.68	10.44
		Min-10d	0.05	2.45	<0.01	0.49	0.53	<0.01	0.07	0.61	0.13	0.48	0.42	0.29	<0.01
	Khanchanaburi	Mean	-	-	0.65	-	-	0.09	-	-	-	-	0.01	-	0.25
	(Vachiralongkorn Dam)	%	0	0	41	0	0	47	0	0	0	0	67	0	14
		Max-2w	-	-	0.65	-	-	0.09	-	-	-	-	0.01	-	0.65
		Min-2w	-	-	0.65	-	-	0.09	-	-	-	-	0.01	-	0.01
	Chiangmai	Mean	0.07	0.06	0.06	0.03	0.10	0.06	0.11	0.09	-	-	-	-	0.07
	(Mae Hia)	%	68	96	97	97	97	97	97	52	0	0	0	0	58
		Max-10d	0.08	0.07	0.10	0.05	0.16	0.07	0.15	0.13	-	-	-	-	0.16
		Min-10d	0.06	0.03	0.03	0.02	0.06	0.04	0.09	0.04	-	-	-	-	0.02
	Nakhon Ratchasima	Mean	0.14	0.39	0.39	0.18	0.05	0.51	0.35	0.30	-	-	-	-	0.30
		%	66	100	100	100	100	100	100	55	0	0	0	0	60
		Max-10d	0.27	0.52	0.57	0.20	0.13	0.78	0.40	0.32	-	-	-	-	0.78
		Min-10d	<0.01	0.18	0.19	0.16	<0.01	0.18	0.28	0.29	-	-	-	-	<0.01
Vietnam	Hanoi	Mean	0.52	0.47	0.63	0.91	0.45	0.25	0.25	0.41	0.48	0.97	0.85	0.78	0.58
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	1.41	1.11	1.67	1.27	0.70	0.41	0.29	0.48	0.78	1.22	1.82	1.39	1.82
		Min-w	0.19	0.15	0.23	0.45	0.10	0.09	0.23	0.34	0.34	0.40	0.28	0.35	0.09
	Hoa Binh	Mean	0.20	0.15	0.05	0.09	0.07	0.06	0.12	0.43	0.25	0.68	0.57	0.47	0.26
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.56	0.19	0.11	0.12	0.15	0.13	0.17	0.76	0.53	1.43	1.02	1.10	1.43
		Min-w	0.02	0.11	0.02	0.05	<0.01	0.02	0.01	0.24	0.09	0.25	0.25	0.21	<0.01
	Can Tho	Mean	0.11	0.16	0.11	0.05	0.11	0.18	0.12	0.33	0.61	0.46	0.36	0.34	0.24
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.21	0.26	0.20	0.15	0.20	0.38	0.20	0.68	1.03	0.61	0.46	0.46	1.03
		Min-w	0.04	0.02	0.02	0.01	0.03	0.08	0.04	0.08	0.27	0.28	0.23	0.23	0.01
	Ho Chi Minh	Mean	0.06	0.09	0.20	0.15	0.26	0.55	0.17	0.24	0.39	0.22	0.27	0.57	0.26
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.13	0.17	0.35	0.40	0.62	0.80	0.51	0.61	1.04	0.43	0.41	1.14	1.14
		Min-w	0.02	0.03	0.05	0.03	0.02	0.11	0.03	0.03	0.04	0.15	0.14	0.12	0.02

1) Their monthy averages of July and August at Mondy resulted in the same values due to the 61 day sampling period from July 23 through August 23.

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

Table 4.18 Particulate matter component: K^+

Unit : μg/m³			2014												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Cambodia	Phnom Penh	Mean	0.58	0.97	0.91	0.73	0.67	0.59	0.77	0.48	0.69	0.54	0.56	0.57	0.67
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.65	1.30	1.11	0.90	0.95	0.72	1.02	0.48	0.94	0.62	0.60	0.62	1.30
		Min-2w	0.51	0.65	0.72	0.57	0.41	0.45	0.51	0.48	0.43	0.38	0.51	0.51	0.38
Indonesia	Jakarta	Mean						0.59	1.01	0.87	1.14	0.65	1.13	1.30	0.96
		%						100	100	100	100	100	100	73	57
		Max-2w						0.79	1.28	1.51	1.27	1.27	1.40	1.77	1.77
		Min-2w						0.39	0.53	0.23	1.01	0.03	0.85	0.84	0.03
	Serpong	Mean	0.16	0.18	0.35	0.20	0.29	0.42	0.45	0.71	0.89	0.54	0.40	0.19	0.40
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.20	0.36	0.46	0.24	0.41	0.56	0.63	0.79	0.92	0.86	0.55	0.34	0.92
		Min-2w	0.12	<0.01	0.24	0.16	0.17	0.27	0.27	0.62	0.86	0.22	0.25	0.04	<0.01
	Bandung	Mean				0.37	0.57	0.61	0.32	0.51	1.07	0.77	0.54	0.16	0.55
		%				100	100	100	100	100	100	100	100	100	75
		Max-2w				0.41	0.60	0.64	0.57	0.96	1.12	0.82	0.67	0.18	1.12
		Min-2w				0.33	0.55	0.58	0.08	0.07	1.01	0.72	0.41	0.13	0.07
Japan	Rishiri	Mean	-	-	-	-	-	-	0.07	0.09	0.08	0.30	0.22	0.09	0.15
		%	0	0	0	0	0	0	100	100	100	100	100	100	49
		Max-2w	-	-	-	-	-	-	0.11	0.09	0.09	0.44	0.27	0.09	0.44
		Min-2w	-	-	-	-	-	-	0.03	0.09	0.08	0.13	0.17	0.08	0.03
	Ochiishi	Mean	0.13	0.09	0.14	0.10	0.08	0.04	0.07	0.07	0.13	0.11	0.18	0.66	0.13
		%	100	50	100	100	100	100	100	100	100	100	100	59	93
		Max-2w	0.19	0.09	0.17	0.11	0.11	0.06	0.07	0.07	0.16	0.16	0.19	0.66	0.66
		Min-2w	0.07	0.09	0.11	0.10	0.05	<0.01	0.07	0.07	0.10	0.05	0.17	0.66	<0.01
	Tappi	Mean	0.30	0.20	0.25	0.20	0.25	0.07	0.12	0.11	0.09	0.84	0.86	1.45	0.38
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.36	0.26	0.33	0.22	0.26	0.08	0.18	0.15	0.10	1.60	1.55	2.49	2.49
		Min-2w	0.24	0.15	0.15	0.19	0.24	0.05	0.06	0.08	0.07	0.08	0.17	0.42	0.05
	Sado-seki	Mean	0.16	0.17	0.22	0.24	0.26	0.11	0.10	0.07	0.08	0.17	0.20	0.16	0.16
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.19	0.19	0.27	0.31	0.29	0.18	0.11	0.12	0.11	0.20	0.25	0.27	0.31
		Min-2w	0.12	0.16	0.14	0.18	0.24	0.04	0.09	0.02	0.03	0.14	0.14	0.04	0.02
	Happo	Mean	0.02	0.07	0.08	0.12	0.11	0.03	0.04	0.02	0.02	0.02	0.02	<0.01	0.05
		%	100	100	100	100	100	100	100	50	100	100	100	100	96
		Max-2w	0.02	0.08	0.10	0.18	0.17	0.05	0.05	0.02	0.03	0.03	0.02	<0.01	0.18
		Min-2w	0.02	0.06	0.06	0.07	0.04	0.02	0.02	0.02	<0.01	0.02	0.02	<0.01	<0.01
	Ijira	Mean	0.06	0.07	0.13	0.15	0.11	0.15	0.09	0.10	-	0.05	-	-	0.11
		%	100	100	100	100	100	100	50	100	0	48	0	0	66
		Max-2w	0.06	0.07	0.14	0.22	0.12	0.19	0.09	0.10	-	0.05	-	-	0.22
		Min-2w	0.06	0.06	0.12	0.09	0.10	0.10	0.09	0.09	-	0.05	-	-	0.05
	Oki	Mean	0.30	0.25	0.34	0.26	0.23	0.12	0.13	0.15	0.09	0.23	0.22	0.55	0.24
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.32	0.31	0.35	0.28	0.34	0.18	0.14	0.15	0.09	0.28	0.32	0.68	0.68
		Min-2w	0.28	0.20	0.33	0.24	0.18	0.06	0.12	0.14	0.08	0.16	0.12	0.41	0.06
	Banryu	Mean	0.16	0.17	0.22	0.25	0.22	0.12	0.11	0.14	0.12	0.21	0.16	0.16	0.17
		%	100	100	100	50	100	100	100	100	100	100	100	100	96
		Max-2w	0.23	0.21	0.25	0.25	0.25	0.13	0.14	0.14	0.14	0.21	0.19	0.16	0.25
		Min-2w	0.09	0.14	0.17	0.25	0.18	0.11	0.08	0.14	0.11	0.21	0.14	0.15	0.08
	Yusuhara	Mean	0.16	0.04	0.14	0.22	0.27	0.08	0.17	0.13	0.14	0.09	0.08	0.06	0.13
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.19	0.06	0.18	0.35	0.39	0.09	0.24	0.21	0.22	0.09	0.10	0.07	0.39
		Min-2w	0.13	<0.01	0.12	0.10	0.15	0.06	0.10	0.05	0.08	0.08	0.07	0.06	<0.01
	Hedo	Mean	0.34	0.30	0.30	0.25	0.22	0.21	0.12	0.21	0.23	0.48	0.26	0.39	0.28
		%	100	50	100	100	100	100	100	100	67	100	100	100	92
		Max-2w	0.36	0.30	0.32	0.32	0.24	0.22	0.13	0.30	0.34	0.69	0.31	0.43	0.69
		Min-2w	0.33	0.30	0.29	0.17	0.19	0.20	0.12	0.12	0.12	0.27	0.21	0.35	0.12
	Ogasawara	Mean	0.14	0.21	0.19	0.16	0.10	0.07	0.07	0.05	0.11	0.08	0.13	0.13	0.12
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.15	0.24	0.19	0.17	0.10	0.10	0.07	0.06	0.20	0.13	0.14	0.14	0.24
		Min-2w	0.14	0.18	0.18	0.16	0.09	0.05	0.07	0.05	0.06	0.02	0.13	0.12	0.02
	Tokyo	Mean	0.11	0.12	0.16	0.21	0.18	0.15	0.14	0.16	0.14	0.22	0.19	0.10	0.16
		%	100	100	100	100	100	100	100	100	63	100	100	100	96
		Max-2w	0.13	0.16	0.18	0.26	0.21	0.15	0.15	0.18	0.16	0.24	0.22	0.11	0.26
		Min-2w	0.10	0.09	0.15	0.15	0.14	0.14	0.12	0.14	0.12	0.21	0.17	0.09	0.09
Malaysia	Petaling Jaya	Mean	0.45	0.75	0.52	0.22	0.26	0.60	0.76	0.39	0.50	0.41	0.27	0.31	0.45
		%	100	100	100	100	100	100	100	100	100	80	100	100	98
		Max-w	0.77	1.26	0.88	0.31	0.35	0.84	1.11	0.51	0.64	0.49	0.33	0.39	1.26
		Min-w	0.18	0.48	0.04	0.15	0.20	0.38	0.40	0.24	0.36	0.32	0.23	0.23	0.04
	Tanah Rata	Mean	0.18	0.34	0.27	0.15	0.06	0.20	0.29	0.17	0.20	0.21	0.07	0.06	0.18
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.40	0.53	0.38	0.23	0.10	0.26	0.43	0.23	0.26	0.31	0.16	0.10	0.53
		Min-w	0.05	0.26	0.21	0.09	0.02	0.08	0.08	0.11	0.14	0.16	0.02	0.03	0.02
	Danum Valley	Mean	0.20	0.27	0.22	0.22	0.13	0.19	0.15	0.15	0.25	0.23	0.20	0.25	0.20
		%	100	100	100	100	100	100	100	100	100	50	50	100	92
		Max-2w	0.25	0.32	0.38	0.28	0.16	0.23	0.23	0.20	0.28	0.23	0.20	0.31	0.38
		Min-2w	0.15	0.21	0.07	0.17	0.09	0.15	<0.01	0.10	0.22	0.23	0.20	0.21	<0.01

Table 4.18 Particulate matter component: K^+ (continued)

Unit : μg/m³			2014												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Myanmar	Yangon	Mean	-	0.27	0.57	0.29	0.10	0.13	0.13	0.22	0.15	0.14	0.73	2.44	0.55
		%	0	50	100	100	100	100	100	100	100	100	100	100	88
		Max-2w	-	0.27	0.85	0.51	0.18	0.20	0.18	0.42	0.24	0.14	0.85	5.22	5.22
		Min-2w	-	0.27	0.29	0.08	0.03	0.05	0.07	0.03	0.06	0.13	0.61	0.45	0.03
Philippines	Mt. Sto. Tomas	Mean	0.07	0.08	0.21	0.14	0.05	0.04	0.07	0.06	0.03	0.03	0.06	0.05	0.07
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.14	0.15	0.73	0.15	0.07	0.06	0.20	0.15	0.06	0.05	0.09	0.06	0.73
		Min-w	0.03	0.02	0.03	0.11	0.04	0.03	0.03	<0.01	<0.01	0.01	0.03	0.03	<0.01
Republic of Korea	Kanghwa	Mean	0.48	0.20	0.34	0.23	0.73	0.10	0.40	0.06	0.15	0.19	0.30	0.22	0.29
		%	16	7	16	19	16	17	16	16	17	19	13	16	16
		Max-d	0.91	0.35	0.64	0.46	2.26	0.14	1.18	0.12	0.36	0.41	0.52	0.32	2.26
		Min-d	0.10	0.05	0.11	0.05	0.14	0.08	0.06	0.03	0.08	0.04	0.06	0.15	0.03
	Cheju (Kosan)	Mean	1.03	0.13	0.27	0.59	0.38	0.12	0.07	0.07	0.13	0.11	0.12	0.14	0.25
		%	13	11	10	10	16	17	16	16	10	16	17	13	14
		Max-d	1.82	0.23	0.74	1.08	0.54	0.23	0.09	0.12	0.26	0.21	0.21	0.39	1.82
		Min-d	0.46	0.08	0.03	0.07	0.23	0.06	0.05	0.05	0.05	0.08	0.06	0.02	0.02
	Imsil	Mean	0.38	0.24	0.16	0.17	0.27	0.26	0.08	0.07	0.07	0.09	0.07	0.12	0.16
		%	16	14	16	17	16	17	16	16	17	19	13	16	16
		Max-d	0.87	0.64	0.34	0.31	0.47	0.57	0.15	0.11	0.08	0.11	0.10	0.29	0.87
		Min-d	0.10	0.05	0.03	0.06	0.08	0.09	0.05	0.06	0.06	0.07	0.06	0.05	0.03
Russia	Mondy [1)]	Mean	0.05	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	0.01
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-m	0.05	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	0.01	<0.01	<0.01	0.05	0.05
		Min-m	0.05	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	<0.01
	Listvyanka	Mean	0.19	0.13	0.04	0.04	0.03	0.04	0.03	0.02	0.03	0.03	<0.01	0.11	0.05
		%	100	100	100	100	100	100	100	100	100	100	94	100	99
		Max-w	0.45	0.44	0.07	0.07	0.04	0.10	0.04	0.05	0.05	0.08	<0.01	0.26	0.45
		Min-w	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	0.05	<0.01
	Irkutsk	Mean	0.65	0.54	0.09	0.12	0.05	0.07	0.08	0.05	0.08	0.04	0.05	0.11	0.16
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	1.48	1.30	0.24	0.16	0.07	0.16	0.11	0.07	0.12	0.08	0.09	0.13	1.48
		Min-w	0.32	0.06	0.03	0.07	0.03	<0.01	0.06	0.03	0.04	<0.01	0.02	0.06	<0.01
	Primorskaya	Mean	0.43	0.36	0.40	0.27	0.14	0.13	0.10	0.10	0.15	0.13	0.12	0.11	0.20
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.44	0.41	0.42	0.29	0.15	0.16	0.13	0.11	0.19	0.16	0.14	0.13	0.44
		Min-2w	0.42	0.31	0.38	0.26	0.13	0.10	0.06	0.09	0.11	0.11	0.10	0.10	0.06
Thailand	Bangkok	Mean	0.32	4.15	0.34	0.70	1.03	<0.01	0.31	0.38	0.24	0.93	0.79	1.01	0.85
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-10d	0.67	6.84	0.98	1.10	2.35	<0.01	0.47	0.46	0.35	0.99	1.12	1.20	6.84
		Min-10d	0.08	2.77	<0.01	0.37	0.25	<0.01	0.07	0.27	0.13	0.87	0.57	0.68	<0.01
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	1.24	-	-	0.04	-	-	-	-	<0.01	-	0.43
		%	0	0	41	0	0	47	0	0	0	0	67	0	14
		Max-2w	-	-	1.24	-	-	0.04	-	-	-	-	<0.01	-	1.24
		Min-2w	-	-	1.24	-	-	0.04	-	-	-	-	<0.01	-	<0.01
	Chiangmai (Mae Hia)	Mean	0.02	0.05	0.09	0.07	0.01	0.03	0.12	0.02	-	-	-	-	0.05
		%	68	96	97	97	97	97	97	52	0	0	0	0	58
		Max-10d	0.02	0.07	0.10	0.07	0.02	0.03	0.13	0.03	-	-	-	-	0.13
		Min-10d	0.01	0.04	0.07	0.07	<0.01	0.02	0.11	0.02	-	-	-	-	<0.01
	Nakhon Ratchasima	Mean	0.40	0.72	0.67	0.43	0.15	0.14	0.06	0.06	-	-	-	-	0.34
		%	66	100	100	100	100	100	100	55	0	0	0	0	60
		Max-10d	0.80	0.79	0.85	0.54	0.19	0.15	0.10	0.09	-	-	-	-	0.85
		Min-10d	<0.01	0.65	0.38	0.34	0.11	0.12	0.03	0.03	-	-	-	-	<0.01
Vietnam	Hanoi	Mean	1.29	0.62	0.52	0.84	0.74	0.48	0.49	0.66	0.50	0.64	0.17	0.54	0.64
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	1.66	1.08	0.81	0.96	0.88	0.74	0.73	0.99	0.53	1.12	0.22	1.55	1.66
		Min-w	0.56	0.22	0.25	0.72	0.64	0.31	0.22	0.44	0.46	0.33	0.15	0.16	0.15
	Hoa Binh	Mean	0.55	0.85	0.38	0.46	0.55	0.46	0.73	1.59	0.68	1.24	0.99	1.52	0.83
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	1.40	1.59	0.54	0.50	0.83	0.55	1.06	3.40	0.85	1.98	1.78	2.65	3.40
		Min-w	<0.01	0.48	0.28	0.36	0.37	0.36	0.35	0.41	0.44	0.51	0.61	0.85	<0.01
	Can Tho	Mean	0.24	3.16	2.21	0.81	0.59	0.78	0.59	0.23	1.02	0.72	0.22	0.43	0.89
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.46	5.22	4.11	1.13	1.12	1.13	1.12	0.43	1.46	1.88	0.46	1.39	5.22
		Min-w	0.06	0.75	0.49	0.56	0.26	0.43	0.26	0.02	0.49	0.13	0.06	0.02	0.02
	Ho Chi Minh	Mean	0.36	0.20	0.22	0.87	0.52	0.97	0.72	0.46	0.64	0.67	0.47	0.21	0.53
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.87	0.60	0.57	1.59	0.96	1.92	1.26	0.87	1.45	1.24	0.87	0.80	1.92
		Min-w	0.08	0.05	0.08	0.27	0.02	0.24	0.15	0.05	0.04	0.19	0.10	<0.01	<0.01

1) Their monthy averages of July and August at Mondy resulted in the same values due to the 61 day sampling period from July 23 through August 23.

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

Table 4.19 Particulate matter component: Mg^{2+}

Unit : μg/m³			2014												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Cambodia	Phnom Penh	Mean	0.09	0.21	0.21	0.16	0.21	0.08	0.08	0.10	0.06	0.09	0.12	0.08	0.13
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.10	0.23	0.22	0.20	0.29	0.10	0.12	0.14	0.06	0.14	0.14	0.08	0.29
		Min-2w	0.08	0.20	0.19	0.12	0.13	0.07	0.05	0.07	0.06	0.07	0.10	0.08	0.05
Indonesia	Jakarta	Mean						0.23	0.36	0.47	0.33	0.27	0.36	0.34	0.34
		%						100	100	100	100	100	100	73	57
		Max-2w						0.27	0.52	0.78	0.34	0.49	0.39	0.53	0.78
		Min-2w						0.18	0.10	0.16	0.31	0.05	0.33	0.15	0.05
	Serpong	Mean	0.03	0.06	0.07	0.03	0.04	0.08	0.07	0.17	0.17	0.17	0.12	0.03	0.09
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.05	0.12	0.10	0.03	0.05	0.12	0.10	0.20	0.18	0.27	0.17	0.05	0.27
		Min-2w	<0.01	<0.01	0.04	0.03	0.03	0.04	0.04	0.15	0.17	0.07	0.08	0.01	<0.01
	Bandung	Mean				0.10	0.17	0.16	0.09	0.12	0.22	0.22	0.16	0.05	0.14
		%				100	100	100	100	100	100	100	100	100	75
		Max-2w				0.10	0.20	0.16	0.14	0.23	0.24	0.25	0.21	0.06	0.25
		Min-2w				0.09	0.15	0.16	0.04	<0.01	0.19	0.19	0.10	0.03	<0.01
Japan	Rishiri	Mean	-	-	-	-	-	-	0.06	0.15	0.14	0.47	0.35	0.19	0.25
		%	0	0	0	0	0	0	100	100	100	100	100	100	49
		Max-2w	-	-	-	-	-	-	0.11	0.19	0.16	0.81	0.45	0.22	0.81
		Min-2w	-	-	-	-	-	-	0.01	0.12	0.12	0.17	0.24	0.16	0.01
	Ochiishi	Mean	0.26	0.19	0.29	0.21	0.21	0.10	0.18	0.13	0.37	0.26	0.41	2.12	0.33
		%	100	50	100	100	100	100	100	100	100	100	100	59	93
		Max-2w	0.40	0.19	0.33	0.27	0.26	0.18	0.21	0.17	0.46	0.41	0.41	2.12	2.12
		Min-2w	0.12	0.19	0.24	0.16	0.16	0.02	0.16	0.10	0.29	0.11	0.41	2.12	0.02
	Tappi	Mean	0.79	0.44	0.52	0.38	0.46	0.12	0.22	0.29	0.21	2.96	2.73	4.89	1.11
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	1.05	0.58	0.65	0.38	0.52	0.18	0.35	0.42	0.24	5.73	5.20	8.39	8.39
		Min-2w	0.53	0.29	0.31	0.38	0.39	0.06	0.08	0.15	0.18	0.18	0.27	1.39	0.06
	Sado-seki	Mean	0.37	0.35	0.34	0.30	0.45	0.13	0.13	0.12	0.15	0.33	0.43	0.49	0.29
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.45	0.38	0.36	0.35	0.55	0.22	0.16	0.21	0.23	0.37	0.60	0.82	0.82
		Min-2w	0.29	0.32	0.29	0.25	0.35	0.05	0.09	0.04	0.07	0.29	0.25	0.16	0.04
	Happo	Mean	0.01	0.03	0.04	0.06	0.11	0.01	0.01	<0.01	0.01	0.02	0.02	<0.01	0.03
		%	100	100	100	100	100	100	100	50	100	100	100	100	96
		Max-2w	0.01	0.03	0.05	0.06	0.18	0.01	0.02	<0.01	0.02	0.02	0.02	<0.01	0.18
		Min-2w	<0.01	0.03	0.02	0.06	0.04	0.01	<0.01	<0.01	<0.01	0.02	0.02	<0.01	<0.01
	Ijira	Mean	0.02	0.03	0.04	0.06	0.05	0.04	0.03	0.03	-	0.04	-	-	0.04
		%	100	100	100	100	100	100	50	100	0	48	0	0	66
		Max-2w	0.02	0.03	0.05	0.07	0.08	0.05	0.03	0.05	-	0.04	-	-	0.08
		Min-2w	<0.01	0.02	0.03	0.05	0.03	0.03	0.03	0.02	-	0.04	-	-	<0.01
	Oki	Mean	0.66	0.44	0.52	0.34	0.35	0.13	0.19	0.19	0.13	0.46	0.39	1.55	0.44
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.70	0.50	0.56	0.46	0.47	0.19	0.28	0.19	0.15	0.62	0.65	1.95	1.95
		Min-2w	0.63	0.38	0.49	0.21	0.28	0.07	0.10	0.19	0.10	0.36	0.13	1.14	0.07
	Banryu	Mean	0.20	0.24	0.28	0.19	0.22	0.10	0.11	0.14	0.21	0.37	0.21	0.31	0.22
		%	100	100	100	50	100	100	100	100	100	100	100	100	96
		Max-2w	0.29	0.26	0.34	0.19	0.28	0.10	0.13	0.16	0.34	0.47	0.26	0.37	0.47
		Min-2w	0.11	0.21	0.21	0.19	0.16	0.10	0.09	0.12	0.13	0.27	0.16	0.25	0.09
	Yusuhara	Mean	0.09	0.02	0.06	0.08	0.16	0.03	0.05	0.02	0.04	0.07	0.05	0.05	0.06
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.13	0.04	0.07	0.08	0.21	0.04	0.05	0.02	0.06	0.09	0.06	0.05	0.21
		Min-2w	0.05	<0.01	0.04	0.08	0.12	0.02	0.04	0.02	0.03	0.06	0.05	0.05	<0.01
	Hedo	Mean	0.74	0.88	0.74	0.53	0.36	0.35	0.29	0.55	0.60	1.34	0.69	1.04	0.67
		%	100	50	100	100	100	100	100	100	67	100	100	100	92
		Max-2w	0.79	0.88	0.78	0.63	0.38	0.40	0.31	0.89	0.99	2.01	0.83	1.11	2.01
		Min-2w	0.69	0.88	0.67	0.42	0.35	0.31	0.27	0.22	0.20	0.68	0.55	0.96	0.20
	Ogasawara	Mean	0.37	0.51	0.50	0.39	0.22	0.08	0.16	0.14	0.34	0.22	0.37	0.39	0.31
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.43	0.55	0.55	0.43	0.23	0.08	0.19	0.14	0.64	0.37	0.39	0.41	0.64
		Min-2w	0.30	0.46	0.46	0.36	0.21	0.08	0.12	0.14	0.18	0.07	0.35	0.37	0.07
	Tokyo	Mean	0.05	0.08	0.11	0.18	0.18	0.11	0.11	0.17	0.22	0.17	0.13	0.06	0.13
		%	100	100	100	100	100	100	100	100	63	100	100	100	96
		Max-2w	0.05	0.10	0.14	0.20	0.22	0.11	0.12	0.19	0.28	0.21	0.14	0.06	0.28
		Min-2w	0.05	0.07	0.08	0.15	0.13	0.11	0.10	0.15	0.17	0.13	0.11	0.05	0.05
Malaysia	Petaling Jaya	Mean	0.13	0.16	0.08	0.04	0.04	0.15	0.17	0.07	0.03	0.03	0.04	0.05	0.08
		%	100	100	100	100	100	100	100	100	100	80	100	100	98
		Max-w	0.21	0.26	0.13	0.06	0.06	0.26	0.21	0.12	0.05	0.04	0.08	0.06	0.26
		Min-w	0.05	0.12	0.02	0.02	0.02	0.08	0.10	<0.01	<0.01	0.03	0.03	0.02	<0.01
	Tanah Rata	Mean	0.05	0.09	0.06	<0.01	<0.01	0.09	0.09	0.03	<0.01	0.01	0.01	0.02	0.04
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.11	0.11	0.07	0.02	<0.01	0.22	0.14	0.05	0.01	0.02	0.04	0.03	0.22
		Min-w	0.01	0.07	0.05	<0.01	<0.01	0.02	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Danum Valley	Mean	0.08	0.07	0.06	0.04	<0.01	0.05	0.03	<0.01	0.02	0.02	0.04	0.07	0.04
		%	100	100	100	100	100	100	100	100	100	50	50	100	92
		Max-2w	0.10	0.10	0.10	0.06	0.01	0.09	0.05	0.01	0.03	0.02	0.04	0.10	0.10
		Min-2w	0.06	0.03	0.02	0.02	<0.01	0.02	<0.01	<0.01	<0.01	0.02	0.04	0.04	<0.01

Table 4.19 Particulate matter component: Mg^{2+} (continued)

Unit : μg/m³			2014												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Myanmar	Yangon	Mean	-	0.04	0.13	0.06	<0.01	<0.01	0.34	<0.01	<0.01	<0.01	0.17	0.12	0.09
		%	0	50	100	100	100	100	100	100	100	100	100	100	88
		Max-2w	-	0.04	0.22	0.06	<0.01	<0.01	1.02	<0.01	<0.01	0.01	0.17	0.17	1.02
		Min-2w	-	0.04	0.05	0.06	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.17	0.06	<0.01
Philippines	Mt. Sto. Tomas	Mean	0.04	0.03	0.04	0.04	0.02	0.03	0.04	0.04	0.01	0.01	0.03	0.02	0.03
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.05	0.05	0.08	0.05	0.03	0.05	0.05	0.09	0.03	0.02	0.04	0.04	0.09
		Min-w	0.03	0.01	0.03	0.04	0.02	0.01	0.03	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Republic of Korea	Kanghwa	Mean	<0.01	<0.01	0.02	0.01	0.09	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02
		%	6	7	10	4	13	10	6	13	17	19	13	84	11
		Max-d	<0.01	0.01	0.03	0.01	0.21	0.05	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.21
		Min-d	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Cheju (Kosan)	Mean	0.20	0.05	0.02	0.08	<0.01	0.01	0.01	0.02	0.01	<0.01	0.01	0.07	0.04
		%	13	11	10	10	16	17	16	16	10	16	17	13	14
		Max-d	0.38	0.06	0.06	0.24	0.02	0.03	0.02	0.03	0.01	<0.01	0.04	0.10	0.38
		Min-d	0.10	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
	Imsil	Mean	0.04	0.04	0.07	0.03	0.01	<0.01	0.02	0.02	0.01	<0.01	0.03	0.09	0.03
		%	16	14	16	17	16	17	16	16	17	19	13	16	16
		Max-d	0.07	0.05	0.07	0.05	0.02	<0.01	0.02	0.02	0.01	<0.01	0.05	0.10	0.10
		Min-d	0.02	0.03	0.06	<0.01	<0.01	<0.01	0.02	0.02	0.01	<0.01	0.02	0.09	<0.01
Russia	Mondy [1)]	Mean	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-m	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
		Min-m	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Listvyanka	Mean	0.01	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
		%	100	100	100	100	100	100	100	100	100	100	94	100	99
		Max-w	0.02	0.02	0.04	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.02	0.04
		Min-w	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Irkutsk	Mean	0.12	0.10	0.05	0.11	0.05	0.04	0.01	<0.01	0.01	0.02	0.04	0.02	0.05
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.16	0.15	0.08	0.14	0.07	0.07	0.03	0.02	0.02	0.05	0.06	0.03	0.16
		Min-w	0.05	0.05	0.02	0.08	0.02	<0.01	<0.01	<0.01	0.01	<0.01	0.01	0.01	<0.01
	Primorskaya	Mean	0.43	0.36	0.40	0.27	0.14	0.13	0.10	0.10	0.15	0.13	0.12	0.11	0.20
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.44	0.41	0.42	0.29	0.15	0.16	0.13	0.11	0.19	0.16	0.14	0.13	0.44
		Min-2w	0.42	0.31	0.38	0.26	0.13	0.10	0.06	0.09	0.11	0.11	0.10	0.10	0.06
Thailand	Bangkok	Mean	0.08	0.84	0.08	0.14	0.46	0.15	0.06	0.10	0.04	0.13	0.13	0.14	0.20
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-10d	0.15	1.57	0.21	0.18	1.02	0.20	0.09	0.15	0.05	0.15	0.17	0.20	1.57
		Min-10d	0.02	0.42	<0.01	0.08	0.10	0.11	0.02	0.08	0.02	0.11	0.11	0.10	<0.01
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	0.18	-	-	<0.01	-	-	-	-	<0.01	-	0.06
		%	0	0	41	0	0	47	0	0	0	0	67	0	14
		Max-2w	-	-	0.18	-	-	<0.01	-	-	-	-	<0.01	-	0.18
		Min-2w	-	-	0.18	-	-	<0.01	-	-	-	-	<0.01	-	<0.01
	Chiangmai (Mae Hia)	Mean	0.02	0.01	0.02	<0.01	0.03	<0.01	0.01	<0.01	-	-	-	-	0.02
		%	68	96	97	97	97	97	97	52	0	0	0	0	58
		Max-10d	0.02	0.02	0.02	0.01	0.05	0.02	0.03	0.01	-	-	-	-	0.05
		Min-10d	0.02	<0.01	0.01	<0.01	0.02	<0.01	<0.01	<0.01	-	-	-	-	<0.01
	Nakhon Ratchasima	Mean	<0.01	<0.01	0.05	<0.01	<0.01	0.07	0.04	<0.01	-	-	-	-	0.02
		%	66	100	100	100	100	100	100	55	0	0	0	0	60
		Max-10d	0.02	0.01	0.07	<0.01	<0.01	0.13	0.08	<0.01	-	-	-	-	0.13
		Min-10d	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	0.02	<0.01	-	-	-	-	<0.01
Vietnam	Hanoi	Mean	0.67	0.27	0.28	0.67	0.43	0.23	0.20	0.36	0.26	0.45	0.48	0.55	0.41
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	1.17	0.45	0.82	1.07	0.76	0.40	0.44	0.50	0.37	0.64	0.63	0.78	1.17
		Min-w	0.08	0.07	0.02	0.13	0.26	0.04	<0.01	0.18	0.08	0.17	0.25	0.39	<0.01
	Hoa Binh	Mean	0.17	0.11	0.06	0.06	0.09	0.05	0.41	0.37	0.12	0.23	0.15	0.39	0.19
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.38	0.18	0.10	0.09	0.18	0.06	0.93	0.73	0.15	0.34	0.25	0.55	0.93
		Min-w	0.02	0.07	<0.01	0.03	<0.01	0.04	<0.01	0.15	0.08	0.16	0.09	0.31	<0.01
	Can Tho	Mean	0.10	0.13	0.16	0.23	0.23	0.10	0.06	0.21	0.38	0.08	0.08	0.07	0.15
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.17	0.30	0.41	0.37	0.37	0.11	0.10	0.34	0.71	0.13	0.09	0.11	0.71
		Min-w	0.04	0.04	0.04	0.14	0.05	0.07	0.03	0.05	0.14	0.04	0.07	0.02	0.02
	Ho Chi Minh	Mean	0.11	0.26	0.35	0.12	0.08	0.41	0.07	0.04	0.39	0.25	0.28	0.56	0.23
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.21	0.91	0.85	0.28	0.13	0.94	0.09	0.07	0.69	0.46	0.57	0.83	0.94
		Min-w	0.02	0.03	0.07	0.05	0.04	0.07	0.05	0.02	0.14	0.03	0.06	0.32	0.02

1) Their monthy averages of July and August at Mondy resulted in the same values due to the 61 day sampling period from July 23 through August 23.

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

Table 4.20 Particulate matter component: Ca^{2+}

Unit : μg/m³			2014												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Cambodia	Phnom Penh	Mean	0.36	0.93	0.42	0.69	0.78	0.78	0.71	0.68	0.77	0.72	0.86	0.81	0.71
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.45	1.08	0.43	0.85	0.94	0.88	0.81	0.73	0.87	0.92	0.98	0.89	1.08
		Min-2w	0.27	0.79	0.41	0.53	0.65	0.69	0.61	0.63	0.66	0.59	0.75	0.74	0.27
Indonesia	Jakarta	Mean						2.09	3.26	2.44	2.32	2.08	5.56	4.46	3.18
		%						100	100	100	100	100	100	73	57
		Max-2w						3.11	4.72	4.06	2.36	3.72	5.57	6.80	6.80
		Min-2w						1.07	0.89	0.81	2.28	0.44	5.55	2.12	0.44
	Serpong	Mean	0.17	0.30	0.50	0.25	0.41	0.60	0.43	0.81	1.37	0.87	0.56	0.19	0.54
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.19	0.59	0.67	0.25	0.45	0.84	0.59	1.12	1.45	1.42	0.84	0.34	1.45
		Min-2w	0.15	<0.01	0.33	0.24	0.38	0.36	0.27	0.50	1.28	0.32	0.28	0.03	<0.01
	Bandung	Mean				1.17	1.52	1.49	0.68	0.96	2.01	1.96	1.19	0.93	1.32
		%				100	100	100	100	100	100	100	100	100	75
		Max-2w				1.19	1.61	1.63	1.23	1.64	2.09	2.07	1.36	1.18	2.09
		Min-2w				1.16	1.42	1.35	0.13	0.28	1.93	1.86	1.01	0.69	0.13
Japan	Rishiri	Mean	-	-	-	-	-	-	0.04	0.07	0.06	0.23	0.20	0.10	0.13
		%	0	0	0	0	0	0	100	100	100	100	100	100	49
		Max-2w	-	-	-	-	-	-	0.07	0.08	0.07	0.38	0.23	0.11	0.38
		Min-2w	-	-	-	-	-	-	0.01	0.06	0.06	0.08	0.18	0.08	0.01
	Ochiishi	Mean	0.11	0.07	0.15	0.12	0.12	0.04	0.07	0.07	0.13	0.10	0.18	3.08	0.24
		%	100	50	100	100	100	100	100	100	100	100	100	59	93
		Max-2w	0.14	0.07	0.18	0.13	0.17	0.05	0.08	0.07	0.16	0.15	0.19	3.08	3.08
		Min-2w	0.08	0.07	0.11	0.11	0.07	0.03	0.06	0.06	0.11	0.05	0.16	3.08	0.03
	Tappi	Mean	0.36	0.24	0.33	0.32	0.67	0.09	0.12	0.13	0.12	1.01	1.00	1.21	0.45
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.46	0.34	0.54	0.36	0.95	0.12	0.16	0.18	0.16	1.91	1.80	1.96	1.96
		Min-2w	0.26	0.14	0.15	0.27	0.39	0.07	0.07	0.07	0.07	0.10	0.20	0.46	0.07
	Sado-seki	Mean	0.24	0.21	0.27	0.40	0.96	0.16	0.11	0.06	0.10	0.16	0.22	0.22	0.25
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.27	0.23	0.35	0.45	1.51	0.28	0.11	0.10	0.16	0.17	0.28	0.38	1.51
		Min-2w	0.20	0.20	0.20	0.35	0.40	0.04	0.11	0.01	0.04	0.16	0.17	0.06	0.01
	Happo	Mean	0.04	0.20	0.29	0.41	0.83	0.04	0.06	0.04	0.04	0.04	0.06	0.01	0.18
		%	100	100	100	100	100	100	100	50	100	100	100	100	96
		Max-2w	0.04	0.25	0.46	0.53	1.42	0.04	0.07	0.04	0.06	0.06	0.06	0.02	1.42
		Min-2w	0.03	0.15	0.08	0.28	0.23	0.04	0.04	0.04	0.01	0.03	0.06	<0.01	<0.01
	Ijira	Mean	0.05	0.08	0.13	0.25	0.27	0.15	0.04	0.08	-	0.06	-	-	0.13
		%	100	100	100	100	100	100	50	100	0	48	0	0	66
		Max-2w	0.05	0.08	0.17	0.39	0.37	0.20	0.04	0.09	-	0.06	-	-	0.39
		Min-2w	0.04	0.08	0.09	0.12	0.18	0.09	0.04	0.06	-	0.06	-	-	0.04
	Oki	Mean	0.40	0.26	0.42	0.36	0.69	0.16	0.09	0.09	0.08	0.20	0.23	0.53	0.30
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.50	0.35	0.52	0.42	1.44	0.26	0.11	0.11	0.09	0.26	0.38	0.70	1.44
		Min-2w	0.30	0.17	0.32	0.31	0.28	0.06	0.07	0.07	0.06	0.13	0.08	0.37	0.06
	Banryu	Mean	0.27	0.20	0.31	0.28	0.72	0.13	0.07	0.05	0.11	0.18	0.13	0.15	0.21
		%	100	100	100	50	100	100	100	100	100	100	100	100	96
		Max-2w	0.42	0.22	0.45	0.28	1.07	0.16	0.09	0.06	0.16	0.19	0.15	0.16	1.07
		Min-2w	0.12	0.18	0.23	0.28	0.37	0.10	0.05	0.04	0.07	0.16	0.12	0.15	0.04
	Yusuhara	Mean	0.40	0.07	0.20	0.31	0.82	0.08	0.08	0.02	0.09	0.08	0.10	0.07	0.19
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.66	0.14	0.30	0.40	0.99	0.10	0.09	0.03	0.12	0.09	0.11	0.08	0.99
		Min-2w	0.14	<0.01	0.14	0.23	0.65	0.06	0.06	0.01	0.02	0.07	0.09	0.06	<0.01
	Hedo	Mean	0.48	0.42	0.46	0.50	0.53	0.19	0.15	0.20	0.27	0.72	0.36	0.63	0.41
		%	100	50	100	100	100	100	100	100	67	100	100	100	92
		Max-2w	0.55	0.42	0.51	0.73	0.75	0.20	0.15	0.31	0.45	1.09	0.47	0.63	1.09
		Min-2w	0.41	0.42	0.38	0.27	0.30	0.19	0.15	0.10	0.09	0.35	0.26	0.63	0.09
	Ogasawara	Mean	0.18	0.25	0.24	0.24	0.12	0.02	0.05	0.05	0.10	0.09	0.16	0.18	0.14
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.19	0.25	0.29	0.26	0.15	0.03	0.07	0.07	0.19	0.15	0.17	0.20	0.29
		Min-2w	0.16	0.24	0.19	0.22	0.09	0.02	0.04	0.03	0.05	0.03	0.14	0.15	0.02
	Tokyo	Mean	0.42	0.45	0.46	0.69	0.75	0.48	0.44	0.44	0.46	0.54	0.44	0.32	0.49
		%	100	100	100	100	100	100	100	100	63	100	100	100	96
		Max-2w	0.52	0.48	0.52	0.82	0.93	0.50	0.47	0.48	0.62	0.64	0.47	0.36	0.93
		Min-2w	0.33	0.42	0.41	0.56	0.56	0.45	0.41	0.39	0.30	0.44	0.42	0.27	0.27
Malaysia	Petaling Jaya	Mean	0.86	1.16	0.55	0.33	0.57	1.82	1.86	0.72	0.56	0.19	0.46	0.69	0.81
		%	100	100	100	100	100	100	100	100	100	80	100	100	98
		Max-w	1.78	1.30	0.85	0.49	0.84	2.89	2.36	1.19	0.77	0.45	0.66	0.82	2.89
		Min-w	0.21	0.88	0.05	0.17	0.22	0.74	1.20	0.45	0.14	<0.01	0.31	0.59	<0.01
	Tanah Rata	Mean	0.72	1.21	0.43	0.06	0.15	0.78	1.09	0.37	0.06	0.03	0.14	0.11	0.42
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	1.54	2.16	1.08	0.16	0.30	1.89	2.02	0.60	0.12	0.09	0.24	0.18	2.16
		Min-w	0.03	0.30	0.17	<0.01	<0.01	0.17	0.21	0.15	<0.01	<0.01	0.04	0.05	<0.01
	Danum Valley	Mean	0.12	0.07	0.05	0.04	0.15	0.13	0.13	0.03	<0.01	0.03	0.06	0.04	0.07
		%	100	100	100	100	100	100	100	100	100	50	50	100	92
		Max-2w	0.14	0.09	0.09	0.08	0.29	0.14	0.24	0.04	<0.01	0.03	0.06	0.04	0.29
		Min-2w	0.11	0.05	0.02	<0.01	<0.01	0.12	<0.01	0.02	<0.01	0.03	0.06	0.03	<0.01

Table 4.20 Particulate matter component: Ca^{2+} (continued)

Unit : μg/m³			2014												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Myanmar	Yangon	Mean	-	0.18	0.84	0.22	<0.01	<0.01	<0.01	0.01	<0.01	0.13	1.34	2.17	0.51
		%	0	50	100	100	100	100	100	100	100	100	100	100	88
		Max-2w	-	0.18	1.36	0.25	<0.01	0.01	<0.01	0.02	<0.01	0.25	1.66	6.52	6.52
		Min-2w	-	0.18	0.32	0.20	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1.01	<0.01	<0.01
Philippines	Mt. Sto. Tomas	Mean	0.56	0.34	0.42	0.53	0.29	0.43	0.43	0.45	0.55	0.31	0.27	0.17	0.39
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.74	0.43	0.59	0.65	0.37	0.50	0.50	0.76	1.11	0.38	0.46	0.33	1.11
		Min-w	0.44	0.16	0.31	0.40	0.24	0.30	0.35	0.30	0.33	0.25	0.15	0.03	0.03
Republic of Korea	Kanghwa	Mean	0.10	0.10	0.26	0.06	0.31	0.11	0.13	0.03	0.12	0.03	0.06	0.02	0.11
		%	16	7	16	19	16	17	16	16	17	19	13	16	16
		Max-d	0.21	0.16	0.57	0.10	1.12	0.14	0.29	0.05	0.16	0.05	0.07	0.03	1.12
		Min-d	0.04	0.04	0.12	0.04	0.05	0.05	0.06	<0.01	0.08	<0.01	0.05	<0.01	<0.01
	Cheju (Kosan)	Mean	0.29	0.06	0.09	0.11	0.13	0.07	0.02	0.14	0.04	0.03	0.09	0.15	0.10
		%	13	11	10	10	16	17	16	16	10	16	17	13	14
		Max-d	0.45	0.08	0.10	0.29	0.26	0.18	0.03	0.29	0.06	0.04	0.22	0.17	0.45
		Min-d	0.20	0.03	0.07	0.02	0.06	0.03	0.01	0.04	0.01	0.02	0.03	0.13	0.01
	Imsil	Mean	0.09	0.05	0.10	0.06	0.11	0.05	0.02	0.07	0.05	0.03	0.10	0.14	0.07
		%	16	14	16	17	16	17	16	16	17	19	13	16	16
		Max-d	0.15	0.08	0.15	0.14	0.18	0.12	0.02	0.28	0.15	0.11	0.16	0.20	0.28
		Min-d	<0.01	0.02	0.07	0.02	0.05	0.02	0.02	0.02	0.02	0.01	0.06	0.13	<0.01
Russia	Mondy [1)]	Mean	0.01	0.02	0.03	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-m	0.01	0.02	0.03	<0.01	<0.01	0.02	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.03
		Min-m	0.01	0.02	0.03	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Listvyanka	Mean	0.08	0.07	0.12	0.09	0.07	0.05	0.02	0.02	0.03	0.09	0.11	0.24	0.08
		%	100	100	100	100	100	100	100	100	100	100	94	100	99
		Max-w	0.16	0.18	0.31	0.17	0.14	0.11	0.03	0.04	0.04	0.12	0.16	0.32	0.32
		Min-w	0.03	0.02	0.02	0.02	0.04	0.02	<0.01	<0.01	<0.01	0.05	0.03	0.18	<0.01
	Irkutsk	Mean	0.62	0.51	0.30	1.06	0.52	0.54	0.22	0.19	0.26	0.29	0.31	0.20	0.42
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	1.10	0.66	0.49	1.38	0.75	0.70	0.39	0.31	0.32	0.57	0.50	0.28	1.38
		Min-w	0.22	0.35	0.14	0.74	0.25	0.31	0.13	0.13	0.23	0.11	0.13	0.14	0.11
	Primorskaya	Mean	0.20	0.49	0.57	0.64	0.33	0.15	0.12	0.15	0.13	0.36	0.53	0.52	0.35
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.25	0.49	0.62	0.77	0.37	0.20	0.14	0.16	0.15	0.57	0.54	0.55	0.77
		Min-2w	0.14	0.49	0.51	0.50	0.30	0.10	0.10	0.15	0.10	0.15	0.52	0.50	0.10
Thailand	Bangkok	Mean	0.68	8.12	0.67	1.23	3.13	1.06	0.79	1.05	0.77	2.31	2.64	2.74	2.09
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-10d	1.39	13.72	1.77	1.62	6.92	1.37	1.25	1.19	0.96	2.33	2.91	4.24	13.72
		Min-10d	0.08	4.68	0.01	0.80	0.66	0.75	0.18	0.94	0.42	2.30	2.33	1.66	0.01
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	0.60	-	-	0.07	-	-	-	-	0.02	-	0.23
		%	0	0	41	0	0	47	0	0	0	0	67	0	14
		Max-2w	-	-	0.60	-	-	0.07	-	-	-	-	0.02	-	0.60
		Min-2w	-	-	0.60	-	-	0.07	-	-	-	-	0.02	-	0.02
	Chiangmai (Mae Hia)	Mean	0.11	0.11	0.17	0.17	0.18	0.12	0.04	0.04	-	-	-	-	0.12
		%	68	96	97	97	97	97	97	52	0	0	0	0	58
		Max-10d	0.14	0.13	0.18	0.25	0.24	0.16	0.06	0.04	-	-	-	-	0.25
		Min-10d	0.08	0.09	0.15	0.09	0.14	0.10	0.01	0.04	-	-	-	-	0.01
	Nakhon Ratchasima	Mean	0.19	0.05	<0.01	0.05	0.03	0.50	0.25	0.39	-	-	-	-	0.17
		%	66	100	100	100	100	100	100	55	0	0	0	0	60
		Max-10d	0.36	0.15	<0.01	0.16	0.09	1.05	0.54	0.59	-	-	-	-	1.05
		Min-10d	0.03	<0.01	<0.01	<0.01	<0.01	0.01	0.07	0.18	-	-	-	-	<0.01
Vietnam	Hanoi	Mean	5.26	1.88	1.98	5.25	3.89	2.29	1.88	3.51	3.61	5.21	6.68	7.96	4.11
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	7.91	3.40	5.27	8.74	6.09	4.08	4.02	4.30	5.73	7.49	9.19	9.48	9.48
		Min-w	0.86	0.23	0.17	0.86	2.72	0.62	0.09	2.73	1.23	2.11	3.59	6.21	0.09
	Hoa Binh	Mean	2.36	0.73	0.52	0.56	0.79	0.43	2.74	2.74	1.02	2.19	1.35	3.64	1.62
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	8.77	1.31	0.63	0.81	1.56	0.48	5.67	6.64	1.37	3.19	1.81	4.83	8.77
		Min-w	0.06	0.41	0.45	0.29	0.05	0.37	0.09	1.24	0.71	1.35	0.87	3.19	0.05
	Can Tho	Mean	0.56	0.66	1.63	2.27	2.40	1.08	0.59	3.12	3.16	1.40	0.86	0.78	1.52
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.86	1.23	3.81	4.04	4.04	1.28	0.99	5.22	5.23	2.16	0.99	1.11	5.23
		Min-w	0.30	0.39	0.46	1.42	0.70	0.83	0.34	0.44	1.42	0.40	0.72	0.56	0.30
	Ho Chi Minh	Mean	0.36	0.54	1.74	1.18	0.64	0.98	0.57	0.60	2.63	1.62	1.99	1.70	1.18
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.55	0.79	2.93	1.37	1.01	1.72	0.99	0.65	3.68	3.15	3.01	2.23	3.68
		Min-w	0.13	0.28	1.03	1.06	0.02	0.28	0.19	0.48	1.38	0.01	0.05	1.16	0.01

1) Their monthy averages of July and August at Mondy resulted in the same values due to the 61 day sampling period from July 23 through August 23.

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

Table 4.21 Annual SO_2 concentration

unit: ppb

Country	Site	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cambodia	Phnom Penh											1.8	1.5	1.3	1.1	0.8
China	Jinyunshan		10.0	11.0	16.3	15.8	17.8	17.2	12.2	13.3	12.5	12.9	9.3	9.8	8.6	7.5
	Weishuiyuan	6.2	5.1	4.6	3.8	8.9	11.7	15.4								
	Hongwen	5.9	8.5	10.2	10.0	7.2	8.2	9.4	10.9	9.1	5.2	4.9	5.8	7.2	5.6	6.3
	Xiang Zhou	7.9	10.0	9.4	10.1	8.2	6.3	8.2	6.3	6.6	5.9	5.9	5.6	3.2	3.9	3.9
Indonesia	Jakarta								11.0	7.4	8.3	6.3	5.0	5.7	5.3	5.6
	Serpong	2.2	0.9	1.0	1.7	1.0	1.4	0.5	1.5	1.6	1.1	0.8	1.4	0.9	0.8	0.7
	Kototabang								3.3	6.3	7.9	11.7	2.2	***	1.8	3.5
	Bandung									2.7	4.7	4.2	4.0	4.0	4.0	4.4
Japan	Rishiri	<0.1	0.2	0.1	0.2	0.2	0.1	0.2	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.2
	Ochiishi									0.2	0.2	0.2	0.1	0.1	0.1	0.2
	Tappi [3)]	0.3	0.5	0.3	0.5	0.5	0.5	0.5	0.5	0.6	***	***	0.4	0.4	0.5	0.5
	Sado-seki	0.2	0.6	0.5	0.4	0.7	0.6	0.5	0.6	0.4	0.4	0.3	0.4	0.3	0.4	0.4
	Happo [3)]	0.2	0.9	0.5	0.4	0.7	0.7	0.6	(0.8)	0.6	0.4	0.8	0.4	0.4	0.4	0.4
	Ijira	0.1	0.9	0.5	0.4	0.6	0.4	0.2	0.4	0.2	0.2	0.1	0.2	0.2	0.2	0.2
	Oki	0.3	0.6	0.4	0.4	0.7	0.7	0.7	0.9	0.8	0.6	0.6	0.6	0.5	0.6	0.5
	Banryu	0.5	1.0	0.9	1.0	0.9	1.0	0.6	1.1	1.0	0.6	0.6	0.5	0.6	0.5	0.4
	Yusuhara [3)]	0.6	1.1	0.8	0.9	1.0	1.1	0.9	1.2	1.0	0.9	1.6	0.9	0.9	0.9	1.0
	Hedo	0.2	0.3	0.3	0.3	0.2	0.4	0.3	0.4	0.3	0.2	0.3	0.3	0.2	0.3	0.2
	Ogasawara	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Tokyo								2.2	2.2	2.0	1.8	1.6	1.4	1.6	1.5
Malaysia	Petaling Jaya		5.3	5.0	4.0	1.3	3.8	6.3	2.0	1.9	1.8	1.4	2.0	1.8	1.3	1.6
	Tanah Rata	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	3.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2
	Danum Valley							0.1	0.1	<0.1	0.1	<0.1	<0.1	0.1	0.2	<0.1
Mongolia	Ulaanbaatar	1.5	1.7	1.0	1.7	2.9	4.3	4.8	4.3	1.8	4.3	9.1	6.1	***	***	***
	Terelj	0.4	0.5	0.3	0.4	0.5	0.5	0.5	1.4	0.5	0.7	0.6	0.7	***	***	***
Myanmar	Yangon												1.6	2.9	1.3	1.2
Philippines	Metro Manila	4.8	4.2	4.3	4.4	3.4	3.1	2.1	2.7	1.2	***	2.2	***	***	***	***
	Los Banos	0.8	0.7	0.9	0.9	0.4	0.2	0.3	0.4	0.3	***	***	***	***	***	***
	Mt. Sto. Tomas							<0.1	<0.1	0.4	<0.1	1.1	***	0.2	0.1	0.1
Republic	Kanghwa			3.6	1.9	3.6	2.8	3.4	2.8	2.9	3.2	2.9	4.1	4.4	3.4	2.8
of Korea	Cheju (Kosan)			1.3	3.9	1.8	2.2	3.4	2.3	2.2	2.7	2.5	2.5	0.9	0.6	0.5
	Imsil			2.3	1.5	1.2	2.5	1.8	2.1	2.3	1.4	2.7	4.8	1.3	1.8	2.3
Russia	Mondy	<0.1	0.2	<0.1	0.2	0.2	1.2	0.7	0.4	0.3	0.1	0.6	0.1	0.6	0.1	0.1
	Listvyanka	1.0	2.1	1.1	1.0	0.7	6.0	3.5	1.1	1.2	4.0	4.5	2.8	5.2	2.6	1.1
	Irkutsk	3.4	3.0	0.7	1.0	1.4	5.1	4.0	2.4	2.2	4.6	7.3	5.6	7.2	4.2	1.6
	Primorskaya			0.5	0.4	0.5	1.6	1.2	0.7	0.9	1.0	1.7	1.2	1.2	0.7	0.4
Thailand	Bangkok	4.2	2.8	2.5	2.4	3.3	7.3	4.1	0.8	2.1	1.9	1.6	1.6	1.5	1.9	1.4
	Samutprakarn	4.1	4.7	4.4	5.5	5.9	6.6	6.5	5.8	4.8	4.9	4.6	2.6	2.5	3.0	3.7
	Pathumthani				2.4	1.3	1.6	2.7	1.8	0.5	1.1	1.2	0.6	***	***	***
	Khanchanaburi	1.0	0.5	1.4	***	1.7	1.2	1.3	1.3	1.6	1.2	1.6	1.3	0.6	1.0	1.8
	Chiang Mai (Mae Hia)		0.5	0.5	1.4	1.5	1.0	0.8	0.9	0.8	0.6	0.8	0.6	0.9	1.3	0.9
	Nakhon Ratchasima							0.3	0.4	0.2	0.2	0.2	0.2	0.3	0.2	0.4
Vietnam	Hanoi	0.8	3.5	2.7	2.2	4.8	2.4	3.9	1.7	1.3	1.3	1.4	1.9	2.2	2.1	3.2
	Hoa Binh	0.9	2.6	2.4	1.3	2.1	2.7	2.0	1.2	1.0	0.9	0.7	1.2	1.2	1.1	2.8
	Can Tho															1.2
	Ho Chi Minh															1.6

( ) : Reference data

[***]: No data or not measured

Data in hatched cell: Annual data completeness was not satisfied with EANET criteria. (<70%)

Black cell: Monitoring was not carried out.

1) A part of 2008-2010 data at Tappi and 2010 data at Happo, Yusuhara were revised from reference data to invalid data because of sample inlet failure.

Table 4.22 Annual HNO_3 concentration

unit: ppb

Country	Site	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cambodia	Phnom Penh											0.3	0.3	0.3	0.5	0.4
China	Hongwen								0.9	1.7	1.1	1.0	2.1	***	***	***
Indonesia	Jakarta															3.1
	Serpong		0.4	1.3	0.7	0.6	0.5	0.2	0.4	0.2	0.3	0.3	0.8	0.9	0.6	0.9
	Bandung															0.7
Japan	Rishiri			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Ochiishi									<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Tappi				0.2	0.2	0.1	0.1	0.2	0.2	<0.1	0.2	0.2	0.2	0.1	0.2
	Sado-seki				0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
	Happo				0.4	0.3	0.2	0.3	0.4	0.4	<0.1	<0.1	<0.1	0.3	0.3	0.3
	Ijira				0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2
	Oki			0.1	<0.1	<0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2
	Banryu				0.2	0.3	0.4	0.3	0.4	0.3	0.3	0.2	0.2	0.3	0.3	0.3
	Yusuhara				0.3	0.4	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.4	0.4
	Hedo				<0.1	0.1	<0.1	<0.1	0.1	0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.1
	Ogasawara				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Tokyo								1.1	1.0	0.8	0.8	0.6	0.6	0.8	0.8
Malaysia	Petaling Jaya		1.4	1.8	2.3	0.5	0.7	1.8	0.7	0.8	1.0	0.7	0.7	0.5	0.7	0.8
	Tanah Rata	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	0.2	0.1	0.1	<0.1	<0.1	<0.1	0.1	0.1
	Danum Valley							<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	0.3	<0.1
Mongolia	Ulaanbaatar	0.2	0.1	<0.1	0.2	<0.1	<0.1	0.1	0.2	0.2	0.2	0.3	0.2	***	***	***
	Terelj	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.1	<0.1	<0.1	0.1	***	***	***
Myanmar	Yangon												0.4	0.4	0.3	0.2
Philippines	Metro Manila	0.7	0.3	0.2	0.4	0.5	0.4	0.3	0.4	0.4	***	0.2	***	***	***	***
	Los Banos	0.3	0.2	0.1	0.2	0.2	<0.1	<0.1	0.2	<0.1	***	***	***	***	***	***
	Mt. Sto. Tomas							<0.1	<0.1	0.3	<0.1	0.4	***	0.2	<0.1	0.1
Republic	Kanghwa				0.2	0.3	***	0.4	0.7	0.5	0.5	0.4	***	***	0.4	0.5
of Korea	Cheju (Kosan)				0.2	0.9	***	0.5	***	0.7	0.6	0.5	***	***	0.4	0.8
	Imsil		0.5	***	1.7	0.4	***	0.6	0.4	0.4	0.5	0.3	***	***	0.6	0.6
Russia	Mondy	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.9	<0.1	<0.1	<0.1	<0.1
	Listvyanka	0.2	0.2	0.4	0.1	0.1	<0.1	0.2	<0.1	<0.1	<0.1	0.4	0.1	<0.1	<0.1	<0.1
	Irkutsk	<0.1	0.4	0.1	0.2	<0.1	0.4	<0.1	0.2	0.2	0.2	1.9	0.1	<0.1	<0.1	<0.1
	Primorskaya		0.2	0.1	<0.1	<0.1	<0.1	0.5	<0.1	0.1	0.1	0.7	<0.1	0.1	0.3	0.2
Thailand	Bangkok				0.7	0.9	0.5	1.0	0.5	0.5	0.5	0.6	0.5	0.6	0.4	0.9
	Pathumthani				0.6	1.3	0.3	0.6	0.8	0.3	0.7	0.9	0.3	***	***	***
	Khanchanaburi			0.2	***	0.6	<0.1	0.2	<0.1	0.2	0.5	<0.1	<0.1	0.3	0.1	0.2
	Chiang Mai (Mae Hia)		0.2	0.2	0.1	0.4	0.4	0.2	0.5	0.4	0.7	1.9	0.1	0.2	0.2	<0.1
	Nakhon Ratchasima							0.3	0.3	0.2	0.2	0.2	<0.1	0.2	<0.1	0.3
Vietnam	Hanoi	0.6	0.5	1.9	0.7	1.5	1.0	0.9	1.0	0.5	0.9	0.8	0.9	1.0	0.7	0.5
	Hoa Binh	0.5	0.2	1.8	0.4	0.5	0.8	0.3	0.4	0.4	0.3	0.3	0.3	0.4	0.3	0.4
	Can Tho															0.5
	Ho Chi Minh															0.6

[***]: No data or not measured

Data in hatched cell: Annual data completeness was not satisfied with EANET criteria. (<70%)

Black cell: Monitoring was not carried out.

Table 4.23 Annual HCl concentration

unit: ppb

Country	Site	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cambodia	Phnom Penh											0.5	0.4	0.7	1.3	1.1
China	Hongwen								1.5	1.2	1.5	14.5	13.3	***	***	***
Indonesia	Jakarta															3.2
	Serpong		0.4	2.6	1.8	1.5	1.1	0.5	1.7	0.5	0.4	0.8	0.7	0.8	0.7	0.8
	Bandung															0.8
Japan	Rishiri			0.3	0.4	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.5	0.4
	Ochiishi									0.4	0.4	0.4	0.6	0.6	0.5	0.4
	Tappi				0.7	0.6	0.5	0.5	0.6	0.6	0.5	1.5	0.7	0.6	0.6	0.7
	Sado-seki				0.9	1.0	1.1	0.9	0.9	0.8	0.9	0.7	0.8	0.9	0.8	0.9
	Happo				0.2	0.2	0.2	0.2	0.2	0.2	<0.1	<0.1	<0.1	0.2	0.2	0.2
	Ijira				0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1
	Oki			0.2	0.3	0.5	0.9	0.9	1.1	0.9	0.8	0.8	1.0	0.9	1.0	0.9
	Banryu				0.2	0.6	0.9	0.8	0.9	0.7	0.8	0.7	0.8	0.7	0.8	0.7
	Yusuhara				0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.3	0.4	0.3
	Hedo				0.9	1.0	0.9	0.9	1.0	0.9	0.9	0.5	0.4	0.6	1.0	1.1
	Ogasawara				0.3	0.5	0.5	0.4	0.7	0.6	0.5	0.4	0.4	0.4	0.6	0.6
	Tokyo								1.0	0.8	0.8	0.7	0.8	0.7	0.8	0.7
Malaysia	Petaling Jaya		1.4	***	***	0.7	0.9	1.6	0.7	1.1	0.7	0.5	0.8	1.2	1.3	1.1
	Tanah Rata	0.1	<0.1	***	***	0.3	0.1	<0.1	0.1	0.4	0.1	<0.1	0.2	0.4	0.3	0.3
	Danum Valley							0.2	0.2	0.3	0.5	0.3	0.2	0.5	1.0	0.4
Mongolia	Ulaanbaatar	0.3	0.1	0.4	1.0	0.9	0.7	1.0	0.9	0.7	0.7	1.7	1.1	***	***	***
	Terelj	0.1	<0.1	0.3	0.7	0.6	0.4	0.4	0.5	0.4	0.3	0.5	0.5	***	***	***
Myanmar	Yangon												1.5	1.5	0.6	0.7
Philippines	Metro Manila	5.4	0.3	0.9	1.2	1.0	0.9	0.5	0.7	0.7	***	0.8	***	***	***	***
	Los Banos	1.5	0.2	0.6	1.2	0.5	0.3	0.3	0.8	0.4	***	***	***	***	***	***
	Mt. Sto. Tomas							0.2	<0.1	0.6	0.2	1.2	***	0.2	0.2	0.2
Republic	Kanghwa				0.3	0.1	***	0.2	0.2	<0.1	0.1	0.2	***	***	0.3	0.2
of Korea	Cheju (Kosan)				0.1	0.9	***	0.2	***	0.2	0.2	0.2	***	***	0.2	0.2
	Imsil		0.5	***	0.2	2.0	***	0.3	0.2	0.1	0.2	0.1	***	***	0.2	0.2
Russia	Mondy	<0.1	<0.1	<0.1	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	0.4	0.7	0.7	0.8
	Listvyanka	0.3	0.2	0.4	0.3	0.2	<0.1	0.2	<0.1	0.1	0.2	0.6	1.8	9.8	2.1	2.6
	Irkutsk	0.3	0.4	0.3	0.4	0.1	0.2	0.1	0.2	0.2	0.2	0.5	1.4	2.6	1.7	1.4
	Primorskaya		0.2	0.5	0.5	0.3	0.1	0.2	0.2	0.2	0.2	0.7	1.1	1.0	0.5	0.4
Thailand	Bangkok				0.7	0.9	1.5	1.5	0.7	0.8	0.9	0.7	0.7	0.7	0.6	1.2
	Pathumthani				0.5	0.8	0.6	1.1	1.2	0.4	0.9	0.7	0.5	***	***	***
	Khanchanaburi			0.7	***	0.5	0.1	0.3	0.2	0.3	0.2	<0.1	0.2	0.2	0.2	0.3
	Chiang Mai (Mae Hia)		0.2	0.3	0.2	0.4	0.4	0.5	0.2	0.2	0.3	0.4	0.3	0.3	0.2	0.2
	Nakhon Ratchasima							0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.5
Vietnam	Hanoi	0.8	0.5	4.1	2.2	2.2	2.9	2.5	2.5	1.8	1.5	2.0	2.0	2.1	1.6	3.0
	Hoa Binh	0.1	0.2	4.4	3.3	1.5	2.3	1.5	2.1	1.8	1.2	1.5	1.6	1.7	1.6	3.2
	Can Tho															1.7
	Ho Chi Minh															1.6

[***]: No data or not measured

Data in hatched cell: Annual data completeness was not satisfied with EANET criteria. (<70%)

Black cell: Monitoring was not carried out.

Table 4.24 Annual NH_3 concentration

unit: ppb

Country	Site	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cambodia	Phnom Penh											14.3	11.5	9.9	9.4	6.9
China	Hongwen								7.9	8.1	11.2	12.2	9.5	***	***	***
Indonesia	Jakarta															38.3
	Serpong		4.6	5.1	12.9	10.2	11.2	6.2	8.5	6.3	5.9	5.4	11.0	16.1	11.7	11.8
	Bandung															8.4
Japan	Rishiri			0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4
	Ochiishi									0.6	1.0	0.4	0.4	0.4	0.3	0.4
	Tappi				0.6	0.5	0.3	0.3	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.5
	Sado-seki				0.6	0.7	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.7
	Happo				0.5	0.3	0.6	0.4	0.3	0.4	0.2	0.3	0.2	0.4	0.4	0.4
	Ijira				1.2	1.2	1.1	1.3	1.2	1.1	1.0	1.1	1.0	1.0	1.3	0.9
	Oki			1.1	0.6	0.8	0.8	0.7	0.8	1.0	1.0	0.8	0.7	0.5	0.6	0.6
	Banryu				1.1	1.3	1.2	1.1	1.0	1.0	1.0	1.0	0.9	0.8	0.7	0.7
	Yusuhara				0.7	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6
	Hedo				0.8	0.9	0.8	0.9	1.0	1.2	1.2	1.2	0.9	1.3	1.1	1.1
	Ogasawara				0.2	0.5	0.9	0.5	0.5	0.5	0.5	0.5	0.7	0.5	0.6	0.6
	Tokyo								6.1	5.2	5.0	4.9	4.4	3.9	4.6	4.6
Malaysia	Petaling Jaya		10.1	***	***	3.5	10.4	16.9	7.5	6.1	7.3	6.7	6.7	6.5	8.6	10.0
	Tanah Rata	0.5	0.2	***	0.3	0.7	1.3	1.2	0.9	1.0	0.8	0.9	1.2	0.9	1.2	2.2
	Danum Valley							1.2	0.9	0.9	1.9	1.5	0.9	0.7	3.8	1.2
Mongolia	Ulaanbaatar	8.4	7.3	9.8	11.3	9.2	9.2	10.3	10.4	10.7	7.4	14.8	8.7	***	***	***
	Terelj	1.0	0.7	1.5	1.7	1.3	1.4	1.6	1.3	1.2	1.9	1.4	1.5	***	***	***
Myanmar	Yangon												15.5	10.2	6.2	8.9
Philippines	Metro Manila	<0.1	7.1	10.0	9.3	9.1	12.5	3.8	6.6	9.2	***	7.5	***	***	***	***
	Los Banos	<0.1	4.2	6.2	5.0	4.1	4.5	2.0	2.7	3.1	***	***	***	***	***	***
	Mt. Sto. Tomas							0.2	0.9	6.4	0.4	2.5	***	1.0	1.1	2.2
Republic	Kanghwa				14.1	13.7	***	4.8	9.7	3.4	3.2	4.6	***	***	7.4	3.7
of Korea	Cheju (Kosan)				1.4	1.1	***	***	***	3.7	4.9	7.0	***	***	3.2	6.9
	Imsil		4.9	***	4.6	6.0	***	5.9	5.0	5.0	6.0	6.5	***	***	3.0	6.3
Russia	Mondy	0.6	0.2	0.7	0.7	0.5	0.8	1.9	0.8	0.7	0.4	0.4	0.4	0.7	0.6	0.4
	Listvyanka	1.1	0.2	0.8	1.7	1.6	0.8	4.4	2.5	2.7	2.4	2.8	0.8	0.6	1.3	2.4
	Irkutsk	1.8	0.5	1.3	2.2	4.4	1.8	3.7	3.8	3.3	2.9	2.2	1.7	1.4	1.5	4.8
	Primorskaya			12.0	10.8	7.8	1.2	2.7	3.6	2.9	1.8	2.2	4.2	1.3	1.1	1.3
Thailand	Bangkok				5.8	11.1	7.8	10.1	10.2	8.2	8.7	7.9	8.8	8.3	8.7	14.6
	Pathumthani				6.5	8.5	6.3	7.0	9.2	3.1	8.1	7.8	5.2	***	***	***
	Khanchanaburi			6.5	***	6.2	1.9	2.1	3.2	2.3	2.6	1.6	1.5	2.4	3.4	4.8
	Chiang Mai (Mae Hia)		6.5	3.9	6.9	5.5	3.0	3.2	4.7	3.8	5.8	9.0	5.3	4.4	3.5	1.6
	Nakhon Ratchasima							2.8	2.4	2.6	2.3	2.0	1.8	3.3	2.9	3.6
Vietnam	Hanoi	9.6	5.8	4.1	5.4	13.9	4.0	2.8	4.1	5.0	4.8	5.7	6.4	4.8	1.4	1.6
	Hoa Binh	6.8	2.7	2.8	7.5	8.9	3.8	2.7	2.3	4.0	3.9	2.1	2.4	2.6	1.7	1.4
	Can Tho															2.6
	Ho Chi Minh															3.0

[***]: No data or not measured

Data in hatched cell: Annual data completeness was not satisfied with EANET criteria. (<70%)

Black cell: Monitoring was not carried out.

Table 4.25 Annual NO concentration

unit: ppb

Country	Site	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
China	Jinyunshan						1.0	2.6	1.5	6.7	3.3	2.0	1.6	2.1	1.6	1.7
	Weishuiyuan						5.1	9.8								
Japan	Rishiri	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Ochiishi									<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Tappi [1)]	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	***	***	0.2	0.1	0.1	<0.1
	Sado-seki	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1
	Happo [1)]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	(<0.1)	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1
	Ijira	0.1	0.3	0.5	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.3	0.2	0.1	0.2	0.2
	Oki	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	0.2
	Banryu	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	<0.1	0.2	0.2	0.2
	Yusuhara [1)]	0.2	0.1	<0.1	0.1	0.2	0.3	0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Hedo	<0.1	0.1	0.2	<0.1	<0.1	0.2	<0.1	<0.1	0.1	<0.1	<0.1	0.2	<0.1	0.1	<0.1
	Ogasawara	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Malaysia	Tanah Rata								10.1	***	***	***	***	***	***	***
Thailand	Bangkok		25.0	21.6	***	15.3	11.2	11.1	11.5	13.6	11.6	8.8	10.3	9.5	8.5	6.5
	Samutprakarn	23.0	18.9	18.0	14.5	15.5	14.4	16.4	16.7	15.3	15.2	13.3	15.1	17.1	12.6	11.6
	Khanchanaburi	<0.1	1.2	0.3	***	1.0	1.0	0.6	1.8	0.7	0.2	0.3	1.1	0.5	3.3	7.0
	Chiang Mai (Mae Hia)				7.1	3.0	2.9	2.5	3.1	2.0	2.1	3.0	2.0	4.3	1.9	2.3
	Nakhon Ratchasima									5.9	***	***	***	***	***	***

( ) : Reference data

[***]: No data or not measured

Data in hatched cell: Annual data completeness was not satisfied with EANET criteria. (<70%)

Black cell: Monitoring was not carried out.

1) A part of 2008-2010 data at Tappi and 2010 data at Happo, Yusuhara were revised from reference data to invalid data because of sample inlet failure.

Table 4.26 Annual NO_2 concentration

unit: ppb

Country	Site	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
China	Hongwen		11.3	12.6	13.6	13.8	16.4	23.8	22.9	19.9	18.8	21.1	20.2	20.0	19.5	18.6
	Xiang Zhou		18.6	24.2	22.1	21.0	18.8	20.7	19.5	21.1	15.4	17.0	18.6	13.8	17.6	18.7
Indonesia	Jakarta								4.2	32.8	48.5	31.2	***	16.3	26.5	25.9
	Serpong	6.3														
	Kototabang								0.7	1.9	3.5	0.5	***	***	2.5	0.7
	Bandung									11.3	13.3	31.5	39.0	42.8	41.0	40.6
Japan	Banryu	3.8	3.9	3.7	3.8	3.5	3.4	2.5	3.3	3.4	2.8	2.6	2.5	1.9	1.7	1.8
Malaysia	Petaling Jaya		26.6	29.4	30.9											
Republic	Kanghwa								5.3	6.9	7.1	6.4	5.4	5.0	5.7	5.9
of Korea	Cheju (Kosan)								4.3	2.9	3.1	4.1	4.4	3.0	3.4	3.3
	Imsil								4.2	4.1	4.5	5.1	5.0	4.6	5.1	4.0
Thailand	Bangkok	***	25.3	28.5	***	23.8	21.5	23.6	16.4	20.5	23.6	21.2	24.5	24.7	25.3	20.3
	Samutprakarn	18.4	21.0	15.2	17.6	13.8	16.9	19.3	19.5	16.4	19.0	15.5	21.5	17.1	15.1	12.4

[***]: No data or not measured

Data in hatched cell: Annual data completeness was not satisfied with EANET criteria. (<70%)

Black cell: Monitoring was not carried out.

Table 4.27 Annual NOx concentration

unit: ppb

Country	Site	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
China	Jinyunshan (NOx*)						7.2	8.7	8.1	11.8	8.2	11.4	10.0	8.4	9.1	8.9
	Weishuiyuan (NOx*)						14.7	26.8								
Japan	Rishiri (NOx*)	0.7	0.7	0.8	1.0	0.9	0.9	1.0	1.0	1.0	0.9	0.8	0.6	0.7	0.6	0.7
	Ochiishi (NOx*)									1.0	1.1	1.0	1.1	1.0	0.8	0.9
	Tappi (NOx*) [1)]	0.9	1.2	1.3	1.4	1.5	1.4	1.2	1.3	1.6	***	***	1.1	1.2	1.4	1.5
	Sado-seki (NOx*)	0.9	1.2	1.6	1.9	1.7	1.3	1.3	1.2	1.1	0.9	0.8	0.7	0.7	0.8	0.7
	Happo (NOx*) [1)]	1.9	1.7	2.3	2.2	2.1	2.2	1.9	(2.3)	2.1	1.3	1.2	1.1	1.1	0.9	1.1
	Ijira (NOx*)	2.1	3.4	3.2	2.9	3.6	3.5	3.1	3.2	2.2	2.5	2.3	2.0	2.2	1.7	1.7
	Oki (NOx*)	1.2	1.3	1.6	1.3	1.5	1.6	1.5	1.5	1.5	1.3	1.3	1.3	1.0	1.1	1.3
	Banryu	3.9	4.3	4.0	4.3	3.7	4.0	2.8	3.5	3.6	3.0	2.8	2.5	2.0	1.9	2.0
	Yusuhara (NOx*) [1)]	1.9	1.8	1.7	1.7	1.4	1.8	1.5	1.3	1.3	1.1	1.8	1.3	1.4	1.4	1.2
	Hedo (NOx*)	0.6	0.9	0.9	0.8	0.9	0.7	0.8	0.5	0.7	0.7	0.7	0.7	0.5	0.9	0.7
	Ogasawara (NOx*)	0.3	0.7	0.5	0.5	0.4	0.6	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.4	0.3
Malaysia	Tanah Rata (NOx*)								12.2	***	***	***	***	***	***	***
Thailand	Bangkok		50.7	50.3	43.7	37.9	32.7	34.6	28.1	34.4	35.2	30.2	35.0	34.5	34.0	27.0
	Samutprakarn	40.4	38.9	32.7	***	29.0	30.7	35.6	36.2	31.5	34.1	28.7	36.7	34.1	27.7	24.0
	Khanchanaburi (NOx*)	2.5	2.2	4.2	***	3.4	5.5	2.8	3.0	1.2	1.4	3.1	4.1	2.0	4.7	11.6
	Chiang Mai (Mae Hia) (NOx*)					14.0	8.8	10.4	12.6	10.4	10.8	12.5	11.6	15.5	14.2	13.5
	Nakhon Ratchasima (NOx*)									16.9	***	***	***	***	***	***

( ) : Reference data

[***]: No data or not measured

Data in hatched cell: Annual data completeness was not satisfied with EANET criteria. (<70%)

Black cell: Monitoring was not carried out.

1) A part of 2008-2010 data at Tappi and 2010 data at Happo, Yusuhara were revised from reference data to invalid data because of sample inlet failure.

Table 4.28 Annual O_3 concentration

unit: μg/m^3

Country	Site	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Japan	Rishiri	39	39	41	43	43	42	43	46	42	42	40	37	34	37	39
	Ochiishi									38	37	38	35	39	39	42
	Tappi [1)]	47	46	46	45	47	51	51	54	60	***	***	38	41	40	39
	Sado-seki	44	41	43	49	49	48	48	48	47	49	53	49	46	46	47
	Happo [1)]	53	54	55	56	56	58	59	(63)	50	52	48	53	49	49	48
	Ijira	30	30	24	30	27	23	17	35	20	21	19	20	24	26	28
	Oki	45	44	40	39	45	45	44	45	45	46	45	46	46	48	47
	Banryu	36	36	37	36	37	37	34	34	35	36	35	33	33	33	33
	Yusuhara [1)]	39	29	29	33	39	43	42	40	40	41	36	33	34	39	40
	Hedo	41	41	42	39	32	35	40	38	39	39	38	33	35	38	40
	Ogasawara	22	27	29	30	30	33	31	32	28	30	38	29	32	37	33
Malaysia	Tanah Rata								15	***	***	***	***	***	***	***
Republic	Kanghwa			42	43	40	41	27	43	41	43	43	39	44	46	50
of Korea	Cheju (Kosan)			41	28	38	40	35	38	42	44	42	35	39	41	45
	Imsil			31	22	24	30	30	30	20	33	30	30	33	31	31
Russia	Mondy			44	42	45	42	45	39	35	45	44	40	38	38	35
	Listvyanka															39
Thailand	Bangkok									10	17	17	19	17	21	19
	Samutprakarn		4	12	17	13	14	14	14	18	18	15	17	19	20	22
	Khanchanaburi	20	10	14	***	15	17	10	7	16	14	23	12	16	13	22
	Chiang Mai (Mae Hia)				13	22	20	19	23	22	26	24	25	21	21	20
	Nakhon Ratchasima									22	***	***	***	***	***	***

( ) : Reference data

[***]: No data or not measured

Data in hatched cell: Annual data completeness was not satisfied with EANET criteria. (<70%)

Black cell: Monitoring was not carried out.

1) A part of 2008-2010 data at Tappi and 2010 data at Happo, Yusuhara were revised from reference data to invalid data because of sample inlet failure.

Table 4.29 Annual PM_{10} concentration

unit: μg/m^3

Country	Site	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
China	Jinyunshan		96	73	70	64	60	78	65	50	40	51	45	43	64	57
	Weishuiyuan		123	138	112	128	118	121								
	Hongwen		61	62	68	64	66	97	71	59	60	63	61	59	58	54
	Xiang Zhou		51	48	56	48	40	47	50	51	48	48	49	44	54	46
Japan	Rishiri	16	18	18	16	17	14	15	14	16	16	18	15	13	12	26
	Ochiishi									30	24	22	23	20	16	26
	Tappi	64	19	26	16	20	19	18	17	22	16	28	18	17	18	20
	Sado-seki	24	25	27	22	28	24	24	22	23	22	21	21	19	20	23
	Happo	13	14	12	10	15	15	13	12	14	12	12	12	11	11	12
	Ijira	24	22	24	20	21	21	22	22	20	18	18	19	16	18	17
	Oki	26	29	31	23	27	28	30	29	26	26	29	25	23	27	31
	Banryu	29	31	35	25	29	29	31	31	27	26	28	24	22	25	25
	Yusuhara	15	22	22	18	20	20	20	19	18	18	18	16	15	17	15
	Hedo		46	48	26	34	35	37	29	27	28	31	28	27	26	27
	Ogasawara	11	12	13	11	13	12	13	13	10	12	12	10	11	12	11
Malaysia	Petaling Jaya	37	***	39	41											
Republic of Korea	Kanghwa			53	56	54	58	46	52	48	51	51	44	45	48	49
	Cheju (Kosan)			43	41	36	39	51	54	50	43	47	42	37	45	47
	Imsil			57	42	44	54	57	43	59	34	40	38	36	39	44
Thailand	Bangkok	56	49	***	***	51	42	44	45	43	39	38	38	37	41	37
	Samutprakarn									45	43	38	54	39	44	41
	Khanchanaburi	38	21	79	***	41	60	37	31	37	28	46	23	10	28	90
	Chiang Mai (Mae Hia)				48	59	52	41	52	38	42	45	33	42	41	45
	Nakhon Ratchasima									47	***	***	***	***	***	***

[***]: No data or not measured

Data in hatched cell: Annual data completeness was not satisfied with EANET criteria. (<70%)

Black cell: Monitoring was not carried out.

Table 4.30 Annual $PM_{2.5}$ concentration

unit: μg/m^3

Country	Site	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Japan	Rishiri		9	8	10	8	8	8	8	9	8	9	8	8	7	8
	Ochiishi									16	12	12	10	9	7	7
	Sadoseki															11
	Oki		12	14	12	13	15	15	15	14	12	12	14	13	15	13

[***]: No data or not measured

Data in hatched cell: Annual data completeness was not satisfied with EANET criteria. (<70%)

Black cell: Monitoring was not carried out.

Table 4.31 Annual SO_4^{2-} in PM concentration

unit: μg/m^3

Country	Site	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cambodia	Phnom Penh											2.85	2.95	2.63	2.91	2.11
China	Hongwen								10.58	13.38	12.72	14.10	17.60	***	***	***
Indonesia	Jakarta															11.44
	Serpong		1.8	1.5	0.53	0.82	1.50	0.56	0.50	0.71	0.79	0.50	0.65	4.03	3.54	3.69
	Bandung															6.93
Japan	Rishiri			1.8	2.55	2.40	2.61	2.39	2.44	2.94	2.50	2.74	2.71	2.32	2.72	2.21
	Ochiishi									2.73	2.61	2.31	2.13	1.95	2.19	2.52
	Tappi				3.32	3.89	3.92	4.10	4.02	4.67	4.29	4.12	3.99	3.76	3.83	5.38
	Sado-seki				3.11	3.55	4.08	3.07	3.64	4.17	3.58	3.20	3.50	3.53	3.71	3.54
	Happo				2.11	2.30	2.59	2.79	2.58	2.52	0.59	0.86	1.02	2.36	2.50	2.49
	Ijira				3.72	4.10	5.07	4.89	4.76	4.78	3.88	3.25	3.55	2.52	2.88	3.84
	Oki			4.4	3.91	3.94	6.29	5.73	5.21	4.54	4.29	4.43	4.76	4.90	5.56	5.25
	Banryu				3.82	4.43	6.33	6.55	6.41	5.11	5.44	4.37	4.55	5.05	5.56	4.99
	Yusuhara				4.09	5.16	6.15	5.81	6.44	4.54	5.16	4.46	4.03	4.44	5.28	4.72
	Hedo				4.01	3.40	5.32	6.51	5.95	5.69	5.62	3.53	2.48	4.28	5.43	5.39
	Ogasawara				1.26	1.36	0.87	1.65	3.91	2.72	2.64	2.17	2.46	2.41	3.10	2.58
	Tokyo								5.36	5.15	4.62	4.28	4.06	3.14	4.38	4.11
Malaysia	Petaling Jaya		3.6	3.9	3.36	1.42	2.26	2.60	3.00	3.32	3.01	2.94	4.22	3.24	3.17	4.81
	Tanah Rata	1.20	0.7	0.5	0.50	0.81	1.07	1.38	1.37	1.59	1.39	0.95	1.18	1.52	1.48	2.59
	Danum Valley							0.69	0.76	1.12	3.64	1.73	0.86	0.38	0.78	1.11
Mongolia	Ulaanbaatar	2.1	2.5	1.8	3.59	3.63	5.10	5.68	4.20	1.33	2.24	4.70	4.11	***	***	***
	Terelj	1.1	1.5	0.7	0.78	1.24	0.85	1.40	1.41	1.42	1.07	0.61	1.06	***	***	***
Myanmar	Yangon												3.77	3.59	1.40	1.56
Philippines	Metro Manila	2.0	1.9	2.3	3.74	3.19	3.31	2.63	3.15	2.37	***	1.43	***	***	***	***
	Los Banos	0.5	0.9	1.5	2.59	1.64	1.71	1.52	2.29	1.86	***	***	***	***	***	***
	Mt. Sto. Tomas							0.14	0.22	0.91	0.16	1.40	***	0.15	0.17	0.38
Republic	Kanghwa		4.9	6.9	5.65	4.26	6.56	3.43	2.35	3.11	6.04	6.19	***	***	7.43	7.17
of Korea	Cheju (Kosan)		2.7	6.7	6.99	8.90	7.11	8.05	6.75	5.51	4.68	3.82	***	***	4.37	7.81
	Imsil		2.1	5.1	8.23	10.12	9.29	10.31	5.90	4.18	4.66	5.03	***	***	5.61	5.86
Russia	Mondy	0.5	0.8	0.5	0.99	0.66	0.34	0.49	0.22	0.38	0.39	0.14	0.19	0.22	0.22	0.05
	Listvyanka	1.4	2.5	1.7	2.75	1.79	0.79	1.16	1.57	1.02	1.58	0.89	1.00	1.09	0.67	1.00
	Irkutsk	2.4	3.8	3.9	2.51	1.70	2.67	2.13	2.91	2.55	2.36	2.29	2.28	3.07	1.71	2.14
	Primorskaya		3.9	2.1	2.59	3.32	3.77	4.11	4.89	3.59	3.71	4.04	3.60	3.27	3.66	3.62
Thailand	Bangkok				3.63	4.02	2.13	4.71	2.97	2.65	2.71	3.63	3.31	2.26	2.80	4.38
	Pathumthani				2.34	3.46	1.39	3.14	4.69	1.41	3.12	3.78	1.64	***	***	***
	Khanchanaburi			<0.1	***	5.59	0.15	2.74	3.24	2.54	1.32	0.29	2.08	2.34	1.40	3.19
	Chiang Mai (Mae Hia)		0.9	2.0	2.11	3.93	1.11	2.22	2.60	1.75	1.97	1.29	1.34	1.12	0.39	0.11
	Nakhon Ratchasima							3.64	4.80	3.78	3.44	2.12	2.74	2.44	2.89	3.40
Vietnam	Hanoi	1.1	1.4	8.6	16.19	19.30	20.33	16.46	20.35	9.53	8.77	15.63	14.40	7.82	11.54	8.47
	Hoa Binh	2.3	2.6	4.2	2.34	2.13	12.41	7.80	8.38	4.51	2.49	2.26	3.81	1.59	2.58	4.95
	Can Tho															1.40
	Ho Chi Minh															2.08

[***]: No data or not measured

Data in hatched cell: Annual data completeness was not satisfied with EANET criteria. (<70%)

Black cell: Monitoring was not carried out.

The reporting limits for the components in the particulate matters for the descriptive purposes defined by the Network Center were changed from 0.1 μg/m^3 to 0.01 μg/m^3 in 2003.

Table 4.32 Annual NO_3^- in PM concentration

unit: μg/m^3

Country	Site	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cambodia	Phnom Penh											1.32	1.27	1.20	1.18	1.22
China	Hongwen								5.81	8.10	7.98	11.66	11.66	***	***	***
Indonesia	Jakarta															4.67
	Serpong		0.7	1.4	0.61	0.81	1.55	0.37	0.17	0.18	0.13	0.21	0.57	1.09	0.53	0.86
	Bandung															1.92
Japan	Rishiri			0.3	0.59	0.66	0.53	0.58	0.60	0.76	0.64	0.77	0.66	0.63	0.60	0.51
	Ochiishi									0.71	0.67	0.55	0.67	0.43	0.42	0.71
	Tappi				1.24	1.13	0.92	1.17	1.18	1.23	1.29	1.24	1.27	0.98	1.04	1.45
	Sado-seki				0.77	0.89	0.68	0.80	0.96	1.07	1.05	0.82	1.13	0.90	0.92	1.06
	Happo				0.27	0.36	0.27	0.25	0.20	0.22	0.10	0.11	0.14	0.31	0.36	0.58
	Ijira				0.41	0.49	0.48	0.54	0.49	0.39	0.40	0.40	0.47	0.25	0.30	0.42
	Oki			0.9	0.71	1.03	1.26	1.28	1.34	1.22	1.31	1.50	1.85	1.51	1.82	1.79
	Banryu				0.69	1.09	1.43	1.54	1.57	1.35	1.43	1.53	1.68	1.51	1.65	1.45
	Yusuhara				0.30	0.59	0.59	0.59	0.55	0.29	0.52	0.66	0.61	0.41	0.66	0.55
	Hedo				1.50	1.16	1.11	1.65	1.48	1.52	1.63	1.09	0.80	1.27	1.62	1.72
	Ogasawara				0.32	0.29	0.12	0.36	0.74	0.57	0.60	0.53	0.53	0.53	0.60	0.48
	Tokyo								3.86	4.03	3.85	3.80	3.76	2.73	3.13	3.13
Malaysia	Petaling Jaya		0.6	0.2	0.10	0.56	0.97	0.81	1.18	1.17	1.22	1.25	1.14	1.23	1.65	1.53
	Tanah Rata	0.20	<0.1	0.1	0.11	0.18	0.18	0.18	0.13	0.16	0.15	0.12	0.13	0.18	0.34	0.40
	Danum Valley							0.05	0.04	0.06	0.21	0.36	0.04	0.08	0.09	0.11
Mongolia	Ulaanbaatar	0.9	1.4	1.0	1.71	1.53	1.61	1.74	1.66	0.90	0.93	1.25	1.81	***	***	***
	Terelj	0.2	0.2	0.2	0.16	0.15	0.18	0.19	0.71	0.65	0.24	0.11	0.29	***	***	***
Myanmar	Yangon												0.31	0.92	0.54	0.33
Philippines	Metro Manila	0.7	1.1	0.9	2.26	1.77	1.11	1.03	1.27	0.99	***	0.85	***	***	***	***
	Los Banos	0.2	0.8	0.5	1.18	0.64	0.42	0.29	0.39	0.27	***	***	***	***	***	***
	Mt. Sto. Tomas							0.02	0.07	1.15	0.12	0.78	***	0.19	0.14	0.26
Republic	Kanghwa		0.5	2.3	4.19	1.12	1.85	2.03	1.03	1.92	2.38	3.50	***	***	3.51	2.54
of Korea	Cheju (Kosan)		<0.1	0.3	0.53	1.44	0.27	0.39	0.57	0.34	0.49	0.67	***	***	0.74	1.10
	Imsil		0.3	0.6	0.51	1.23	1.56	3.99	3.05	2.86	2.67	3.82	***	***	2.95	2.82
Russia	Mondy	<0.1	0.1	0.1	0.11	0.02	0.02	0.06	0.01	0.13	0.02	0.19	0.02	0.03	0.02	<0.01
	Listvyanka	0.5	0.4	0.2	0.68	0.19	0.17	0.19	0.19	0.20	0.25	0.17	0.25	0.12	0.09	0.18
	Irkutsk	0.8	1.2	1.5	0.96	0.53	0.68	0.69	0.61	0.89	0.83	0.91	0.88	0.92	0.49	0.80
	Primorskaya		1.8	0.3	0.39	0.57	1.24	1.18	1.04	1.03	1.10	0.79	0.27	0.68	1.17	1.37
Thailand	Bangkok				1.51	2.07	2.83	1.60	1.51	1.44	1.62	1.86	2.00	1.91	1.41	2.77
	Pathumthani				0.63	1.11	1.13	0.81	2.02	0.77	1.73	1.93	0.92	***	***	***
	Khanchanaburi			<0.1	***	0.58	0.06	0.09	0.10	0.15	3.55	0.06	0.04	0.10	0.11	0.17
	Chiang Mai (Mae Hia)		0.6	0.2	0.28	0.64	0.33	0.67	0.62	0.36	0.66	10.25	0.24	0.31	0.30	0.11
	Nakhon Ratchasima							0.52	0.48	0.41	0.34	0.18	0.31	0.28	0.41	0.61
Vietnam	Hanoi	0.3	0.3	1.9	5.33	8.74	10.52	5.34	6.21	2.89	3.52	7.81	6.82	5.57	6.73	5.86
	Hoa Binh	0.5	0.4	0.9	0.54	0.69	1.71	1.09	1.46	1.24	0.49	0.61	1.14	0.92	1.11	1.88
	Can Tho															0.67
	Ho Chi Minh															1.09

[***]: No data or not measured

Data in hatched cell: Annual data completeness was not satisfied with EANET criteria. (<70%)

Black cell: Monitoring was not carried out.

The reporting limits for the components in the particulate matters for the descriptive purposes defined by the Network Center were changed from 0.1 μg/m^3 to 0.01 μg/m^3 in 2003.

Table 4.33 Annual Cl^- in PM concentration

unit: μg/m^3

Country	Site	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cambodia	Phnom Penh											0.20	0.24	0.24	0.40	0.26
China	Hongwen								2.07	1.85	1.73	2.28	1.51	***	***	***
Indonesia	Jakarta															1.35
	Serpong		0.1	1.5	1.24	0.79	1.07	0.21	0.46	0.10	0.09	0.25	0.10	0.16	0.20	0.18
	Bandung															0.31
Japan	Rishiri			2.4	2.04	2.73	2.35	2.03	2.25	2.20	2.42	2.79	2.31	1.94	2.00	2.95
	Ochiishi									4.44	6.88	4.34	3.28	3.06	4.58	4.12
	Tappi				3.38	7.64	6.02	8.08	6.51	8.26	8.97	6.01	5.93	8.15	5.91	15.78
	Sado-seki				3.08	3.88	3.08	3.56	3.30	4.61	3.38	3.78	3.06	3.02	3.43	3.00
	Happo				0.02	0.03	0.02	0.03	0.02	0.01	0.02	0.03	0.02	0.02	0.02	0.03
	Ijira				0.05	0.05	0.04	0.05	0.05	0.04	0.06	0.05	0.04	0.02	0.03	0.06
	Oki			1.4	1.30	2.12	2.55	2.42	2.36	2.71	3.69	4.54	4.29	4.20	4.98	4.96
	Banryu				0.41	1.31	1.43	1.47	0.97	1.13	1.59	1.38	1.53	0.99	1.52	1.60
	Yusuhara				0.03	0.07	0.07	0.08	0.04	0.03	0.21	0.10	0.08	0.17	0.06	0.06
	Hedo				6.12	4.60	7.29	6.35	5.79	4.40	6.02	4.62	3.09	6.02	7.27	7.61
	Ogasawara				2.86	1.66	0.94	2.69	3.82	3.04	3.93	3.44	3.79	3.55	3.51	3.50
	Tokyo								0.62	0.63	0.68	0.66	0.70	0.49	0.59	0.53
Malaysia	Petaling Jaya		<0.1	<0.1	0.02	0.10	0.18	0.10	0.13	0.09	0.11	0.19	0.11	0.13	0.16	0.23
	Tanah Rata	<0.1	<0.1	<0.1	0.08	0.03	0.03	0.04	0.03	0.02	0.03	0.05	0.03	0.03	0.07	0.10
	Danum Valley							0.04	0.02	0.04	0.15	0.33	0.04	0.02	0.11	0.13
Mongolia	Ulaanbaatar	0.5	0.7	0.4	0.82	1.02	1.06	1.25	0.87	0.47	1.84	1.06	1.18	***	***	***
	Terelj	<0.1	0.2	<0.1	0.20	0.18	0.30	0.19	0.36	0.24	0.22	0.18	0.23	***	***	***
Myanmar	Yangon												0.59	0.56	0.21	0.27
Philippines	Metro Manila	2.6	0.5	0.5	0.86	0.77	0.39	0.62	0.62	0.59	***	0.66	***	***	***	***
	Los Banos	1.1	0.9	0.9	1.09	0.65	0.58	0.67	1.15	0.82	***	***	***	***	***	***
	Mt. Sto. Tomas							0.03	0.07	0.35	0.05	0.32	***	0.05	0.04	0.10
Republic of Korea	Kanghwa		0.3	0.3	0.24	0.16	0.18	0.15	0.19	0.19	0.64	0.44	***	***	0.47	0.13
	Cheju (Kosan)		0.3	0.3	0.41	0.53	0.14	0.13	0.30	0.32	0.29	0.46	***	***	1.12	0.72
	Imsil		0.3	0.3	0.31	0.14	0.12	0.29	0.38	0.50	0.45	0.61	***	***	0.48	0.25
Russia	Mondy	<0.1	<0.1	<0.1	0.12	0.02	<0.01	0.03	0.01	<0.01	<0.01	0.33	0.04	0.24	0.14	0.04
	Listvyanka	0.4	0.8	0.3	0.13	0.26	0.03	0.08	0.12	0.11	0.11	0.11	0.04	0.26	0.06	0.09
	Irkutsk	0.1	0.4	0.4	0.24	0.15	0.12	0.19	0.30	0.32	0.40	0.31	0.43	0.46	0.24	0.26
	Primorskaya		0.5	0.2	0.25	0.18	0.21	0.12	0.19	0.17	0.14	0.20	0.09	0.29	0.28	0.14
Thailand	Bangkok				0.22	1.06	0.59	0.19	0.29	0.18	0.26	0.28	0.32	0.26	0.16	0.31
	Pathumthani				0.07	0.11	0.31	0.09	0.39	0.07	0.20	0.14	0.15	***	***	***
	Khanchanaburi			<0.1	***	0.06	0.02	0.08	0.02	0.06	0.04	0.10	0.05	<0.01	0.05	0.04
	Chiang Mai (Mae Hia)		<0.1	0.1	0.03	0.30	0.08	0.29	0.11	0.05	0.09	0.16	0.12	0.13	0.12	0.08
	Nakhon Ratchasima							0.09	0.06	0.06	0.07	0.02	0.06	0.10	0.12	0.17
Vietnam	Hanoi	0.4	1.5	1.8	1.22	1.67	3.10	2.90	2.81	0.79	0.58	1.66	1.33	1.11	1.75	1.34
	Hoa Binh	0.3	0.1	1.7	1.17	0.94	1.41	0.65	0.58	0.64	0.11	0.35	0.27	0.43	0.59	1.18
	Can Tho															0.56
	Ho Chi Minh															0.74

[***]: No data or not measured

Data in hatched cell: Annual data completeness was not satisfied with EANET criteria. (<70%)

Black cell: Monitoring was not carried out.

The reporting limits for the components in the particulate matters for the descriptive purposes defined by the Network Center were changed from 0.1 μg/m^3 to 0.01 μg/m^3 in 2003.

Table 4.34 Annual NH_4^+ in PM concentration

unit: μg/m^3

Country	Site	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cambodia	Phnom Penh											0.61	0.50	0.34	0.57	0.52
China	Hongwen								3.66	5.55	5.48	6.72	5.85	***	***	***
Indonesia	Jakarta															0.57
	Serpong		0.4	0.6	0.09	0.18	0.25	0.08	0.24	0.08	0.11	0.14	0.32	0.78	0.38	0.47
	Bandung															1.20
Japan	Rishiri			0.3	0.48	0.35	0.44	0.41	0.39	0.53	0.45	0.47	0.47	0.41	0.45	0.35
	Ochiishi									0.40	0.40	0.29	0.37	0.32	0.28	0.38
	Tappi				0.60	0.67	0.57	0.63	0.64	0.77	0.66	0.68	0.64	0.53	0.58	0.69
	Sado-seki				0.45	0.49	0.83	0.48	0.54	0.68	0.53	0.50	0.56	0.54	0.62	0.61
	Happo				0.58	0.57	0.69	0.64	0.65	0.66	0.15	0.22	0.26	0.64	0.63	0.80
	Ijira				1.24	1.17	1.45	1.39	1.32	1.36	1.06	0.87	0.95	0.69	0.81	1.11
	Oki			0.8	0.60	0.68	1.27	1.19	1.07	0.97	0.86	0.92	0.93	0.94	1.10	1.05
	Banryu				0.62	0.97	1.43	1.51	1.60	1.32	1.30	1.02	1.06	1.24	1.40	1.22
	Yusuhara				0.88	1.15	1.40	1.41	1.53	1.12	1.25	1.00	0.96	1.06	1.25	1.10
	Hedo				0.56	0.46	0.67	0.80	0.88	0.98	0.86	0.42	0.43	0.71	0.69	0.61
	Ogasawara				0.10	0.15	0.08	0.17	0.46	0.24	0.21	0.17	0.22	0.22	0.31	0.23
	Tokyo								1.82	1.96	1.83	1.71	1.57	1.10	1.44	1.42
Malaysia	Petaling Jaya		0.9	1.3	1.01	0.30	0.59	0.76	0.76	0.82	0.73	0.80	1.12	0.75	0.94	1.37
	Tanah Rata	0.3	0.3	0.3	0.13	0.23	0.23	0.40	0.32	0.35	0.29	0.25	0.49	0.46	0.39	0.63
	Danum Valley							0.10	0.08	0.12	0.39	0.12	0.13	0.08	0.13	0.12
Mongolia	Ulaanbaatar	0.4	0.4	0.5	0.67	0.92	1.60	1.95	1.96	0.23	0.95	1.69	1.80	***	***	***
	Terelj	0.3	0.4	0.3	0.29	0.33	0.28	0.43	0.40	0.37	0.28	0.12	0.43	***	***	***
Myanmar	Yangon												0.34	0.38	0.30	0.50
Philippines	Metro Manila	<0.1	0.3	0.9	1.09	0.48	0.73	0.25	0.43	0.42	***	0.14	***	***	***	***
	Los Banos	<0.1	0.4	0.3	0.70	0.21	0.67	0.23	0.28	0.34	***	***	***	***	***	***
	Mt. Sto. Tomas							0.03	0.09	0.33	0.03	0.10	***	<0.01	0.01	0.10
Republic of Korea	Kanghwa		2.0	2.6	2.69	1.59	2.23	1.38	0.85	1.34	2.51	2.93	***	***	3.54	3.58
	Cheju (Kosan)		0.7	2.0	2.44	2.98	2.05	2.39	2.15	1.61	1.54	1.32	***	***	1.80	2.83
	Imsil		0.5	1.4	2.59	2.85	2.66	3.67	2.37	1.82	2.34	2.54	***	***	2.82	2.87
Russia	Mondy	0.1	0.2	0.2	0.36	0.17	0.12	0.09	0.02	0.09	0.07	0.01	0.02	0.04	<0.01	0.02
	Listvyanka	0.8	1.2	0.8	0.92	0.63	0.37	0.27	0.33	0.21	0.24	0.15	0.22	0.22	0.10	0.35
	Irkutsk	1.0	1.6	1.5	0.76	0.59	0.69	0.46	0.93	0.80	0.66	0.49	0.62	0.80	0.40	0.55
	Primorskaya		1.2	1.1	0.78	0.74	1.10	1.32	1.43	0.94	0.99	0.75	0.77	0.70	1.06	0.88
Thailand	Bangkok				1.08	0.71	0.42	1.30	1.29	1.15	0.70	0.69	0.60	0.53	0.79	1.27
	Pathumthani				0.46	0.73	0.38	0.86	1.37	0.71	1.50	0.84	0.26	***	***	***
	Khanchanaburi			<0.1	***	1.41	0.04	0.65	0.91	1.10	0.83	0.18	0.46	0.07	0.30	0.67
	Chiang Mai (Mae Hia)		0.6	0.3	1.23	0.72	0.59	0.67	0.74	0.49	0.58	3.70	0.31	0.23	0.09	0.10
	Nakhon Ratchasima							1.13	1.37	1.13	0.87	0.73	0.96	0.84	0.90	1.03
Vietnam	Hanoi	1.0	1.5	2.1	3.86	4.97	7.30	3.18	3.99	2.20	1.68	3.28	4.50	2.83	3.32	2.46
	Hoa Binh	0.8	0.8	2.1	6.25	1.46	4.27	2.29	2.24	0.84	0.90	0.64	1.55	0.66	0.90	1.76
	Can Tho															0.63
	Ho Chi Minh															1.00

[***]: No data or not measured

Data in hatched cell: Annual data completeness was not satisfied with EANET criteria. (<70%)

Black cell: Monitoring was not carried out.

The reporting limits for the components in the particulate matters for the descriptive purposes defined by the Network Center were changed from 0.1 μg/m^3 to 0.01 μg/m^3 in 2003.

Table 4.35 Annual Na^+ in PM concentration

unit: μg/m^3

Country	Site	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cambodia	Phnom Penh											0.53	0.63	0.57	0.67	0.59
China	Hongwen								1.39	1.40	1.55	1.76	1.62	***	***	***
Indonesia	Jakarta															1.84
	Serpong		0.4	1.0	0.47	0.63	0.22	0.32	0.11	0.06	0.10	0.09	0.16	0.45	0.37	0.40
	Bandung															0.57
Japan	Rishiri			1.7	1.65	2.02	1.76	1.62	1.78	1.82	1.91	2.14	1.84	1.58	1.64	2.13
	Ochiishi									3.09	4.37	2.87	2.45	2.15	3.00	2.72
	Tappi				2.99	4.99	4.18	5.23	4.30	5.31	6.01	4.24	3.97	5.12	4.05	9.88
	Sado-seki				2.39	2.92	2.22	2.52	2.53	3.32	2.56	2.67	2.43	2.38	2.56	2.34
	Happo				0.09	0.14	0.08	0.08	0.08	0.10	0.03	0.03	0.05	0.09	0.09	0.09
	Ijira				0.26	0.27	0.27	0.26	0.29	0.25	0.25	0.22	0.25	0.16	0.16	0.21
	Oki			2.3	2.00	1.59	2.38	2.26	2.21	2.26	2.75	3.35	3.28	3.25	3.80	3.74
	Banryu				1.18	1.42	1.61	1.68	1.33	1.32	1.64	1.41	1.59	1.29	1.62	1.60
	Yusuhara				0.34	0.44	0.43	0.45	0.43	0.26	0.54	0.41	0.42	0.39	0.45	0.34
	Hedo				4.85	3.18	5.22	4.85	4.54	3.77	4.63	3.38	2.28	4.34	5.27	4.79
	Ogasawara				1.86	1.24	0.68	1.78	2.95	2.38	2.80	2.38	2.61	2.45	2.65	2.54
	Tokyo								0.99	0.80	0.94	0.91	0.89	0.71	0.87	0.77
Malaysia	Petaling Jaya		0.3	0.2	0.17	0.24	0.18	0.21	0.32	0.34	0.24	0.26	0.32	0.27	0.42	0.47
	Tanah Rata	0.1	0.1	0.1	0.09	0.08	0.09	0.13	0.14	0.13	0.10	0.10	0.12	0.12	0.16	0.21
	Danum Valley							0.13	0.13	0.16	0.59	0.72	0.17	0.05	0.16	0.32
Mongolia	Ulaanbaatar	0.3	0.3	0.2	0.60	0.49	0.47	0.38	0.32	0.09	0.08	0.21	0.20	***	***	***
	Terelj	<0.1	0.1	<0.1	0.09	0.17	0.14	0.11	0.12	0.08	0.11	0.02	0.09	***	***	***
Myanmar	Yangon												0.59	0.74	0.21	0.34
Philippines	Metro Manila	1.3	1.1	0.3	0.92	0.89	0.62	0.61	0.79	0.97	***	0.54	***	***	***	***
	Los Banos	0.6	1.4	0.8	0.72	0.64	0.65	0.70	0.98	0.67	***	***	***	***	***	***
	Mt. Sto. Tomas							0.05	0.05	0.38	0.16	0.52	***	0.07	0.10	0.31
Republic	Kanghwa		0.3	0.6	0.33	0.19	0.33	0.25	0.26	0.34	0.52	0.40	***	***	0.51	0.30
of Korea	Cheju (Kosan)		<0.1	0.4	0.52	0.72	0.35	0.40	0.39	0.41	0.51	0.45	***	***	0.64	0.57
	Imsil		0.3	0.4	0.52	0.52	0.44	0.39	0.42	0.46	0.54	0.40	***	***	0.24	0.20
Russia	Mondy	<0.1	<0.1	<0.1	0.04	0.04	0.02	0.04	<0.01	0.02	0.03	0.36	<0.01	0.08	0.06	0.01
	Listvyanka	<0.1	0.2	<0.1	0.18	0.20	0.05	0.06	0.07	0.12	0.16	0.08	0.04	0.24	0.05	0.06
	Irkutsk	0.1	<0.1	0.1	0.19	0.13	0.21	0.17	0.12	0.23	0.50	0.26	0.28	0.28	0.14	0.16
	Primorskaya		0.3	0.2	0.21	0.26	0.22	0.22	0.25	0.26	0.25	0.26	0.11	0.22	0.27	0.79
Thailand	Bangkok				0.46	1.53	0.48	0.68	0.38	0.33	0.57	0.54	0.54	0.43	0.47	1.03
	Pathumthani				0.23	0.54	0.27	0.34	0.40	0.27	0.38	0.30	0.22	***	***	***
	Khanchanaburi			<0.1	***	0.38	0.01	0.17	0.12	0.17	0.09	0.06	0.09	0.07	0.13	0.25
	Chiang Mai (Mae Hia)		0.1	0.1	0.12	0.33	0.08	0.21	0.23	0.15	0.48	0.17	0.10	0.16	0.11	0.07
	Nakhon Ratchasima							0.17	0.28	0.24	0.21	0.16	0.17	0.18	0.13	0.30
Vietnam	Hanoi	0.6	0.5	0.5	0.57	1.21	1.95	1.99	1.64	0.56	0.58	1.03	0.67	0.70	0.75	0.58
	Hoa Binh	0.3	0.2	0.5	0.12	0.61	0.92	0.52	0.25	0.24	0.13	0.28	0.23	0.31	0.44	0.26
	Can Tho															0.24
	Ho Chi Minh															0.26

[***]: No data or not measured

Data in hatched cell: Annual data completeness was not satisfied with EANET criteria. (<70%)

Black cell: Monitoring was not carried out.

The reporting limits for the components in the particulate matters for the descriptive purposes defined by the Network Center were changed from 0.1 μg/m^3 to 0.01 μg/m^3 in 2003.

Table 4.36 Annual K^+ in PM concentration

unit: μg/m^3

Country	Site	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cambodia	Phnom Penh											0.63	0.59	0.46	0.73	0.67
China	Hongwen								0.57	0.62	0.68	3.46	0.72	***	***	***
Indonesia	Jakarta															0.96
	Serpong		0.4	0.5	0.28	0.15	0.25	0.11	0.05	0.07	0.08	0.14	0.37	0.45	0.37	0.40
	Bandung															0.55
Japan	Rishiri			<0.1	0.13	0.14	0.13	0.15	0.13	0.16	0.14	0.15	0.14	0.10	0.10	0.15
	Ochiishi									0.16	0.18	0.13	0.12	0.10	0.12	0.13
	Tappi				0.19	0.27	0.21	0.28	0.25	0.26	0.31	0.28	0.23	0.24	0.19	0.38
	Sado-seki				0.11	0.17	0.14	0.15	0.16	0.19	0.18	0.17	0.17	0.14	0.15	0.16
	Happo				0.05	0.06	0.06	0.06	0.05	0.05	0.02	0.01	0.02	0.04	0.04	0.05
	Ijira				0.16	0.14	0.18	0.17	0.15	0.14	0.13	0.09	0.11	0.06	0.07	0.11
	Oki			0.2	0.19	0.22	0.26	0.23	0.21	0.18	0.20	0.22	0.24	0.22	0.24	0.24
	Banryu				0.18	0.19	0.21	0.25	0.21	0.19	0.21	0.16	0.19	0.16	0.18	0.17
	Yusuhara				0.11	0.18	0.21	0.21	0.18	0.11	0.16	0.12	0.15	0.09	0.12	0.13
	Hedo				0.23	0.19	0.29	0.32	0.31	0.27	0.29	0.21	0.12	0.25	0.26	0.28
	Ogasawara				0.10	0.07	0.03	0.08	0.16	0.16	0.16	0.13	0.13	0.12	0.13	0.12
	Tokyo								0.20	0.19	0.21	0.18	0.17	0.12	0.16	0.16
Malaysia	Petaling Jaya		0.3	0.4	0.25	0.24	0.23	0.19	0.25	0.23	0.23	0.27	0.34	0.27	0.37	0.45
	Tanah Rata	0.1	0.1	0.3	0.07	0.09	0.21	0.10	0.08	0.09	0.08	0.08	0.12	0.11	0.13	0.18
	Danum Valley							0.09	0.09	0.12	0.43	0.29	0.16	0.06	0.14	0.20
Mongolia	Ulaanbaatar	0.2	0.3	0.2	0.53	0.42	0.61	0.60	0.25	0.12	0.16	0.22	0.29	***	***	***
	Terelj	<0.1	0.2	0.2	0.24	0.24	0.20	0.13	0.14	0.09	0.16	0.04	0.08	***	***	***
Myanmar	Yangon												1.24	0.76	0.24	0.55
Philippines	Metro Manila	14.3	1.0	0.3	0.74	0.33	0.26	0.46	0.41	0.43	***	0.22	***	***	***	***
	Los Banos	0.4	1.0	0.2	0.26	0.17	0.22	0.22	0.28	0.17	***	***	***	***	***	***
	Mt. Sto. Tomas							0.03	0.06	0.39	0.14	0.15	***	0.01	0.01	0.07
Republic	Kanghwa		0.5	0.5	0.61	0.27	0.48	0.33	0.30	0.25	0.49	0.20	***	***	0.29	0.29
of Korea	Cheju (Kosan)		0.2	0.4	1.29	0.72	0.45	0.46	0.40	0.33	0.21	0.12	***	***	0.15	0.25
	Imsil		0.3	0.5	1.17	0.84	0.55	0.50	0.32	0.37	0.35	0.25	***	***	0.16	0.16
Russia	Mondy	0.1	<0.1	<0.1	0.08	0.05	0.02	0.04	0.01	0.02	0.02	0.04	0.02	0.08	0.08	0.01
	Listvyanka	0.3	0.2	<0.1	0.23	0.15	0.09	0.05	0.06	0.09	0.11	0.07	0.06	0.28	0.06	0.05
	Irkutsk	0.5	0.2	0.1	0.21	0.09	0.18	0.10	0.11	0.21	0.16	0.13	0.25	0.32	0.15	0.16
	Primorskaya		0.5	0.2	0.38	0.35	0.28	0.37	0.44	0.37	0.37	0.44	0.27	0.30	0.40	0.20
Thailand	Bangkok				0.59	0.98	0.28	0.65	0.43	0.36	0.43	0.39	0.41	0.37	0.47	0.85
	Pathumthani				0.49	0.61	0.47	0.48	1.82	0.26	0.54	0.47	0.24	***	***	***
	Khanchanaburi			<0.1	***	0.88	0.99	0.34	0.16	0.19	0.27	0.06	0.13	0.06	0.19	0.43
	Chiang Mai (Mae Hia)		0.5	0.5	0.4	0.54	0.29	0.86	0.58	0.37	0.47	0.42	0.27	0.21	0.17	0.05
	Nakhon Ratchasima							0.25	0.37	0.34	0.31	0.18	0.64	0.51	0.16	0.34
Vietnam	Hanoi	0.1	0.2	0.8	0.8	1.90	2.61	1.70	2.04	1.00	0.79	1.15	0.85	1.36	2.34	0.64
	Hoa Binh	0.3	0.4	1.2	0.4	0.61	2.37	1.19	1.41	0.94	0.70	0.65	0.32	0.56	1.30	0.83
	Can Tho															0.89
	Ho Chi Minh															0.53

[***]: No data or not measured

Data in hatched cell: Annual data completeness was not satisfied with EANET criteria. (<70%)

Black cell: Monitoring was not carried out.

The reporting limits for the components in the particulate matters for the descriptive purposes defined by the Network Center were changed from 0.1 μg/m^3 to 0.01 μg/m^3 in 2003.

Table 4.37 Annual Mg^{2+} in PM concentration

unit: μg/m^3

Country	Site	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cambodia	Phnom Penh											0.12	0.14	0.11	0.14	0.13
China	Hongwen								0.28	0.31	0.33	0.48	0.31	***	***	***
Indonesia	Jakarta															0.34
	Serpong		0.2	<0.1	0.04	0.12	0.08	0.04	0.05	0.03	0.02	0.02	0.05	0.09	0.08	0.09
	Bandung															0.14
Japan	Rishiri			0.2	0.20	0.24	0.21	0.20	0.22	0.24	0.24	0.26	0.22	0.19	0.19	0.25
	Ochiishi									0.44	0.56	0.34	0.30	0.25	0.35	0.33
	Tappi				0.39	0.61	0.49	0.63	0.52	0.56	0.68	0.48	0.46	0.60	0.49	1.11
	Sado-seki				0.30	0.36	0.31	0.28	0.31	0.39	0.31	0.32	0.30	0.29	0.31	0.29
	Happo				0.02	0.03	0.02	0.02	0.03	0.03	<0.01	<0.01	0.01	0.02	0.03	0.03
	Ijira				0.05	0.04	0.04	0.04	0.05	0.04	0.04	0.04	0.04	0.02	0.02	0.04
	Oki			0.2	0.23	0.27	0.31	0.30	0.29	0.28	0.34	0.44	0.36	0.39	0.46	0.44
	Banryu				0.15	0.19	0.23	0.26	0.22	0.17	0.20	0.20	0.21	0.17	0.22	0.22
	Yusuhara				0.07	0.08	0.08	0.09	0.09	0.05	0.08	0.08	0.07	0.06	0.08	0.06
	Hedo				0.61	0.38	0.67	0.60	0.58	0.47	0.58	0.44	0.29	0.53	0.63	0.67
	Ogasawara				0.25	0.14	0.08	0.22	0.37	0.33	0.36	0.30	0.32	0.31	0.33	0.31
	Tokyo								0.15	0.12	0.13	0.12	0.13	0.11	0.14	0.13
Malaysia	Petaling Jaya		<0.1	<0.1	0.02	0.03	0.03	0.03	0.09	0.05	0.03	0.05	0.04	0.03	0.07	0.08
	Tanah Rata	<0.1	<0.1	<0.1	0.01	0.01	0.01	0.02	0.04	0.02	0.01	0.02	0.02	0.02	0.03	0.04
	Danum Valley							0.01	0.04	0.05	0.07	0.10	0.02	<0.01	0.01	0.04
Mongolia	Ulaanbaatar	0.1	0.3	0.1	0.40	0.33	0.35	0.26	0.19	0.11	0.04	0.18	0.38	***	***	***
	Terelj	<0.1	<0.1	<0.1	0.04	0.06	0.06	0.06	0.02	0.02	0.04	0.04	0.05	***	***	***
Myanmar	Yangon												0.18	0.13	0.04	0.09
Philippines	Metro Manila	2.7	<0.1	<0.1	0.15	0.10	0.11	0.24	0.14	0.17	***	0.10	***	***	***	***
	Los Banos	0.1	<0.1	0.1	0.10	0.07	0.06	0.09	0.14	0.11	***	***	***	***	***	***
	Mt. Sto. Tomas							0.01	<0.01	0.07	<0.01	0.06	***	0.03	0.04	0.03
Republic	Kanghwa		<0.1	<0.1	0.07	0.01	0.01	0.01	<0.01	0.01	0.03	0.04	***	***	0.08	0.02
of Korea	Cheju (Kosan)		<0.1	<0.1	0.05	0.04	0.01	0.02	0.09	0.02	<0.01	0.04	***	***	0.04	0.04
	Imsil		<0.1	<0.1	0.06	0.05	0.03	0.04	0.03	0.01	0.02	0.05	***	***	0.03	0.03
Russia	Mondy	<0.1	<0.1	<0.1	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01
	Listvyanka	<0.1	<0.1	<0.1	0.04	0.04	0.02	0.02	0.03	0.02	0.03	0.02	0.02	0.01	<0.01	<0.01
	Irkutsk	0.1	<0.1	<0.1	0.08	0.06	0.07	0.08	0.09	0.13	0.08	0.08	0.09	0.06	0.04	0.05
	Primorskaya		<0.1	<0.1	0.03	0.19	0.08	0.07	0.07	0.08	0.07	0.08	0.07	0.06	0.08	0.20
Thailand	Bangkok				0.12	0.43	0.10	0.13	0.09	0.08	0.09	0.14	0.09	0.07	0.11	0.20
	Pathumthani				0.05	0.80	0.05	0.05	0.08	0.06	0.07	0.05	0.04	***	***	***
	Khanchanaburi			<0.1	***	0.14	<0.01	0.04	0.04	0.10	0.03	<0.01	0.03	0.03	0.03	0.06
	Chiang Mai (Mae Hia)		<0.1	<0.1	0.32	0.03	0.02	0.22	0.07	0.04	0.04	0.04	0.02	0.03	0.03	0.02
	Nakhon Ratchasima							0.05	0.06	0.05	0.04	0.02	0.01	0.01	<0.01	0.02
Vietnam	Hanoi	0.1	0.2	0.4	0.16	0.51	0.67	0.52	0.44	0.18	0.32	0.48	0.35	0.41	0.46	0.41
	Hoa Binh	0.1	<0.1	0.2	0.04	0.66	0.49	0.13	0.15	0.09	0.11	0.11	0.08	0.14	0.28	0.19
	Can Tho															0.15
	Ho Chi Minh															0.23

[***]: No data or not measured

Data in hatched cell: Annual data completeness was not satisfied with EANET criteria. (<70%)

Black cell: Monitoring was not carried out.

The reporting limits for the components in the particulate matters for the descriptive purposes defined by the Network Center were changed from 0.1 μg/m^3 to 0.01 μg/m^3 in 2003.

Table 4.38 Annual Ca^{2+} in PM concentration

unit: μg/m^3

Country	Site	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cambodia	Phnom Penh											0.87	0.82	0.76	0.87	0.71
China	Hongwen								2.84	2.79	2.73	9.44	1.59	***	***	***
Indonesia	Jakarta															3.18
	Serpong		0.4	0.3	0.22	0.61	0.28	0.36	0.26	0.13	0.07	0.09	0.18	0.59	0.51	0.54
	Bandung															1.32
Japan	Rishiri			<0.1	0.13	0.16	0.14	0.13	0.14	0.17	0.16	0.18	0.13	0.13	0.14	0.13
	Ochiishi									0.15	0.24	0.14	0.14	0.10	0.17	0.24
	Tappi				0.22	0.38	0.27	0.35	0.30	0.30	0.39	0.36	0.29	0.27	0.26	0.45
	Sado-seki				0.16	0.31	0.22	0.23	0.25	0.29	0.25	0.24	0.25	0.19	0.25	0.25
	Happo				0.06	0.16	0.15	0.17	0.14	0.12	0.07	0.05	0.04	0.11	0.19	0.18
	Ijira				0.12	0.16	0.16	0.18	0.17	0.13	0.14	0.15	0.17	0.08	0.09	0.13
	Oki			0.2	0.19	0.28	0.33	0.29	0.28	0.22	0.30	0.47	0.38	0.25	0.30	0.30
	Banryu				0.17	0.22	0.27	0.31	0.30	0.22	0.29	0.44	0.26	0.20	0.25	0.21
	Yusuhara				0.16	0.27	0.25	0.27	0.28	0.14	0.36	0.33	0.21	0.15	0.26	0.19
	Hedo				0.32	0.36	0.37	0.48	0.43	0.34	0.43	0.48	0.18	0.32	0.42	0.41
	Ogasawara				0.11	0.10	0.04	0.13	0.22	0.16	0.20	0.23	0.17	0.15	0.16	0.14
	Tokyo								0.56	0.52	0.51	0.59	0.49	0.36	0.52	0.49
Malaysia	Petaling Jaya		0.5	0.2	0.07	0.76	0.20	0.39	0.68	0.47	0.34	0.46	0.37	0.38	0.47	0.81
	Tanah Rata	<0.1	0.2	<0.1	0.02	0.18	0.06	0.07	0.10	0.08	0.07	0.07	0.07	0.09	0.28	0.42
	Danum Valley							0.02	0.03	0.02	0.04	0.07	0.02	0.02	0.04	0.07
Mongolia	Ulaanbaatar	3.6	4.4	3.6	6.76	4.76	4.86	4.64	3.69	3.38	1.43	1.45	3.35	***	***	***
	Terelj	0.3	0.4	0.3	0.26	0.30	0.27	0.30	0.43	0.42	0.32	0.16	0.32	***	***	***
Myanmar	Yangon												1.82	1.03	0.29	0.51
Philippines	Metro Manila	0.4	0.8	0.6	1.37	1.00	0.75	1.09	1.18	0.87	***	0.66	***	***	***	***
	Los Banos	1.0	0.6	1.8	0.69	0.38	0.14	0.13	0.23	0.27	***	***	***	***	***	***
	Mt. Sto. Tomas							0.02	0.07	0.77	0.22	0.50	***	0.35	0.29	0.39
Republic	Kanghwa		0.2	0.2	0.34	0.09	0.10	0.04	0.05	0.07	0.17	0.07	***	***	0.14	0.11
of Korea	Cheju (Kosan)		<0.1	0.2	0.25	0.20	0.08	0.05	0.09	0.11	0.08	0.07	***	***	0.09	0.10
	Imsil		<0.1	0.3	0.42	0.13	0.11	0.12	0.28	0.11	0.08	0.09	***	***	0.08	0.07
Russia	Mondy	0.1	<0.1	<0.1	0.08	0.08	0.03	0.07	0.03	0.05	0.05	0.04	0.04	0.05	<0.01	<0.01
	Listvyanka	0.5	0.3	0.1	0.26	0.19	0.07	0.13	0.22	0.15	0.19	0.12	0.10	0.14	0.06	0.08
	Irkutsk	0.6	0.5	0.5	0.45	0.29	0.46	0.47	0.62	0.82	0.49	0.59	0.35	0.49	0.36	0.42
	Primorskaya		0.6	0.2	0.23	0.25	0.36	0.38	0.40	0.45	0.37	0.41	0.28	0.41	0.35	0.35
Thailand	Bangkok				1.17	1.03	1.20	1.39	1.07	0.80	0.88	0.94	1.03	0.74	1.29	2.09
	Pathumthani				0.77	0.80	0.47	0.65	0.93	0.36	0.90	0.98	0.50	***	***	***
	Khanchanaburi			0.1	***	0.65	0.06	0.18	0.12	0.22	0.12	0.04	0.12	0.28	0.12	0.23
	Chiang Mai (Mae Hia)		0.5	0.4	1.17	0.42	0.29	0.61	0.57	0.44	0.72	0.53	0.22	0.47	0.46	0.12
	Nakhon Ratchasima							0.17	0.23	0.28	0.22	0.09	0.16	0.14	0.11	0.17
Vietnam	Hanoi	2.0	2.3	3.2	4.43	7.58	8.47	8.97	7.59	2.83	2.87	7.75	8.67	4.07	6.23	4.11
	Hoa Binh	1.2	0.8	1.5	0.95	3.25	4.51	2.39	2.19	1.27	1.27	1.24	1.62	1.50	3.12	1.62
	Can Tho															1.52
	Ho Chi Minh															1.18

[***]: No data or not measured

Data in hatched cell: Annual data completeness was not satisfied with EANET criteria. (<70%)

Black cell: Monitoring was not carried out.

The reporting limits for the components in the particulate matters for the descriptive purposes defined by the Network Center were changed from 0.1 μg/m^3 to 0.01 μg/m^3 in 2003.

Table 4.39 Monthly and annual dry deposition amounts of gaseous and particulate substances

Site: Rishiri **Country: Japan**

	Gases				Particulate matter components							
	SO_2	HNO_3	NH_3	NO_2	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Mg^{2+}	Ca^{2+}
2014	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	0.61	--	--	0.01	--	--	--	--	--	--	--	--
Feb	0.27	--	--	0.01	--	--	--	--	--	--	--	--
Mar	0.13	--	--	0.07	--	--	--	--	--	--	--	--
Apr	0.06	--	--	0.12	--	--	--	--	--	--	--	--
May	0.05	--	--	0.10	--	--	--	--	--	--	--	--
June	0.09	--	--	0.19	--	--	--	--	--	--	--	--
July	0.03	0.10	0.48	0.15	0.06	0.02	0.16	0.08	0.40	0.03	0.04	0.02
Aug	0.01	0.10	0.60	0.08	0.07	0.03	0.87	0.06	1.39	0.05	0.15	0.04
Sept	0.03	0.04	0.26	0.07	0.09	0.03	1.19	0.09	1.61	0.06	0.17	0.05
Oct	0.12	0.07	0.21	0.05	0.10	0.09	4.85	0.14	4.89	0.21	0.52	0.15
Nov	0.22	0.07	0.11	0.05	0.10	0.09	5.14	0.13	5.02	0.21	0.58	0.18
Dec	0.33	0.05	0.06	0.04	0.09	0.04	3.35	0.09	3.66	0.12	0.41	0.13
Annual	1.95	0.43	1.72	0.93	0.51	0.30	15.56	0.59	16.97	0.68	1.87	0.57

Table 4.40 Monthly and annual dry deposition amounts of gaseous and particulate substances

Site: Ochiishi **Country: Japan**

	Gases				Particulate matter components							
	SO_2	HNO_3	NH_3	NO_2	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Mg^{2+}	Ca^{2+}
2014	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	0.41	0.16	0.08	0.01	0.09	0.06	1.56	0.15	1.55	0.05	0.17	0.04
Feb	0.14	0.09	0.04	0.01	0.03	0.02	0.55	0.05	0.55	0.02	0.06	0.01
Mar	0.17	0.23	0.11	0.08	0.16	0.14	2.16	0.24	2.08	0.07	0.23	0.07
Apr	0.21	0.30	0.33	0.15	0.12	0.14	1.22	0.20	1.29	0.04	0.14	0.05
May	0.13	0.26	0.86	0.15	0.09	0.09	1.18	0.13	1.33	0.03	0.15	0.05
June	0.06	0.17	0.98	0.19	0.04	0.03	0.43	0.04	0.56	0.01	0.06	0.01
July	0.06	0.20	0.99	0.17	0.07	0.04	0.42	0.07	0.63	0.02	0.07	0.02
Aug	0.16	0.20	1.03	0.20	0.07	0.04	0.46	0.06	0.72	0.02	0.08	0.02
Sept	0.25	0.25	0.76	0.20	0.11	0.06	1.71	0.10	2.01	0.05	0.22	0.05
Oct	0.21	0.21	0.86	0.06	0.04	0.05	1.68	0.06	1.60	0.05	0.17	0.04
Nov	0.19	0.14	0.40	0.04	0.09	0.08	2.19	0.13	2.13	0.07	0.24	0.06
Dec	0.24	0.04	0.12	0.04	0.29	0.02	10.23	0.08	9.00	0.21	1.09	0.95
Annual	2.23	2.25	6.56	1.29	1.20	0.78	23.80	1.31	23.44	0.63	2.69	1.37

Table 4.41 Monthly and annual dry deposition amounts of gaseous and particulate substances

Site: Tappi **Country: Japan**

	Gases				Particulate matter components							
	SO_2	HNO_3	NH_3	NO_2	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Mg^{2+}	Ca^{2+}
2014	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	1.68	0.51	0.09	0.02	1.51	1.63	93.50	1.97	92.46	2.63	10.62	3.13
Feb	0.31	0.17	0.08	0.02	0.44	0.37	21.45	0.46	21.13	0.68	2.43	0.83
Mar	0.29	0.20	0.17	0.14	0.28	0.33	8.56	0.44	9.45	0.34	1.15	0.43
Apr	0.14	0.32	0.18	0.29	0.22	0.36	5.09	0.38	6.24	0.25	0.74	0.36
May	0.22	0.47	0.36	0.28	0.35	0.43	3.67	0.45	5.56	0.25	0.76	0.61
June	0.38	0.45	0.30	0.40	0.12	0.07	1.28	0.14	1.71	0.07	0.21	0.12
July	0.54	1.18	0.63	0.30	0.36	0.13	2.03	0.39	3.87	0.15	0.46	0.14
Aug	2.25	1.36	1.24	0.22	1.00	0.94	23.11	1.10	31.99	0.94	3.78	1.01
Sept	0.65	0.52	0.42	0.21	0.54	0.50	11.95	0.66	14.60	0.43	1.68	0.55
Oct	1.02	1.01	0.49	0.09	0.33	0.53	275.00	0.46	254.03	4.87	27.17	5.76
Nov	1.07	0.59	0.18	0.06	0.43	1.21	576.43	1.12	539.91	9.84	52.23	11.25
Dec	1.74	0.60	0.22	0.04	0.92	1.55	857.00	1.58	768.40	14.77	79.39	12.09
Annual	10.29	7.37	4.36	2.06	6.49	8.04	1879.09	9.17	1749.36	35.23	180.62	36.28

Table 4.42 Monthly and annual dry deposition amounts of gaseous and particulate substances

Site: Sado-seki **Country: Japan**

	Gases				Particulate matter components							
	SO_2	HNO_3	NH_3	NO_2	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Mg^{2+}	Ca^{2+}
2014	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	2.06	0.62	0.11	0.01	0.93	0.62	40.60	0.91	43.12	1.33	4.88	1.95
Feb	0.80	0.62	0.13	0.01	0.79	0.48	26.31	0.86	28.92	1.05	3.26	1.21
Mar	1.02	2.31	0.69	0.12	1.28	0.91	26.56	1.57	30.85	1.33	3.61	1.69
Apr	0.24	1.66	0.63	0.17	0.70	0.73	7.14	0.77	11.06	0.67	1.37	0.96
May	0.34	2.89	1.36	0.15	1.37	1.02	15.72	1.20	22.09	1.10	3.10	3.34
June	0.13	2.18	1.01	0.12	0.79	0.33	4.15	0.88	7.41	0.53	1.02	0.83
July	0.21	2.24	0.78	0.09	0.72	0.16	1.57	0.78	5.33	0.31	0.62	0.32
Aug	0.11	1.24	0.69	0.07	0.28	0.22	4.09	0.25	6.18	0.23	0.68	0.19
Sept	0.10	0.50	0.30	0.05	0.25	0.14	2.40	0.25	3.42	0.12	0.38	0.15
Oct	0.17	0.40	0.20	0.04	0.32	0.30	19.42	0.27	20.81	0.74	2.35	0.74
Nov	0.54	0.36	0.19	0.03	0.40	0.36	34.56	0.33	35.72	1.17	4.16	1.25
Dec	3.16	0.27	0.14	0.03	0.98	0.61	179.17	0.85	169.72	4.00	18.32	5.36
Annual	8.87	15.29	6.23	0.90	8.81	5.87	361.70	8.94	384.63	12.59	43.75	17.99

Table 4.43 Monthly and annual dry deposition amounts of gaseous and particulate substances

Site: Happo **Country: Japan**

	Gases				Particulate matter components							
	SO_2	HNO_3	NH_3	NO_2	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Mg^{2+}	Ca^{2+}
2014	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	0.45	0.92	0.03	0.01	0.41	0.07	0.01	0.45	0.66	0.17	0.12	0.44
Feb	0.41	1.08	0.03	0.01	0.52	0.07	0.03	0.69	0.65	0.28	0.19	0.66
Mar	0.39	1.96	0.26	0.10	1.09	0.86	0.37	1.97	1.95	0.79	0.62	2.91
Apr	0.42	1.61	0.57	0.23	0.66	0.59	0.21	1.36	0.65	0.34	0.25	1.08
May	0.42	1.81	0.91	0.19	0.50	0.26	0.12	0.79	0.39	0.20	0.31	1.23
June	0.28	1.02	1.02	0.21	0.26	0.07	0.03	0.62	0.11	0.07	0.06	0.15
July	0.28	0.76	0.54	0.18	0.25	0.02	0.02	0.46	0.16	0.08	0.04	0.12
Aug	0.31	0.33	0.28	0.13	0.09	0.01	0.01	0.14	0.06	0.02	0.01	0.03
Sept	0.38	0.50	0.39	0.12	0.13	0.03	0.03	0.22	0.21	0.02	0.03	0.04
Oct	0.27	0.45	0.29	0.04	0.16	0.07	0.24	0.20	0.78	0.06	0.08	0.12
Nov	0.50	0.41	0.15	0.04	0.14	0.03	0.04	0.16	0.63	0.06	0.07	0.16
Dec	0.21	0.33	0.05	0.06	0.21	0.05	0.03	0.19	0.46	0.07	0.05	0.12
Annual	4.32	11.19	4.51	1.30	4.41	2.11	1.15	7.27	6.71	2.18	1.83	7.07

Table 4.44 Monthly and annual dry deposition amounts of gaseous and particulate substances

Site: Ijira **Country: Japan**

	Gases				Particulate matter components							
	SO_2	HNO_3	NH_3	NO_2	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Mg^{2+}	Ca^{2+}
2014	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	0.13	0.09	0.06	0.03	0.05	0.01	0.01	0.09	0.11	0.03	0.01	0.02
Feb	0.13	0.12	0.10	0.02	0.08	0.02	0.05	0.13	0.19	0.04	0.02	0.04
Mar	0.11	0.33	0.19	0.10	0.18	0.05	0.03	0.31	0.28	0.09	0.04	0.09
Apr	0.17	0.42	0.37	0.06	0.14	0.04	0.05	0.25	0.25	0.08	0.04	0.12
May	0.13	0.25	0.44	--	0.11	0.02	0.01	0.16	0.16	0.06	0.04	0.12
June	0.11	0.26	0.43	--	0.09	0.01	0.00	0.13	0.05	0.04	0.02	0.05
July	0.10	0.15	0.32	--	0.06	0.00	0.02	0.09	0.08	0.02	0.01	0.01
Aug	0.06	0.07	0.27	--	0.02	0.00	0.04	0.03	0.11	0.02	0.01	0.02
Sept	0.07	--	--	--	--	--	--	--	--	--	--	--
Oct	0.05	0.02	0.09	--	0.01	0.01	0.02	0.02	0.08	0.01	0.01	0.01
Nov	0.06	--	--	0.04	--	--	--	--	--	--	--	--
Dec	0.10	0.01	0.03	0.04	0.01	0.00	0.00	0.01	0.01	0.00	--	0.00
Annual	1.20	1.71	2.32	0.30	0.76	0.18	0.24	1.22	1.33	0.38	0.21	0.48

Table 4.45 Monthly and annual dry deposition amounts of gaseous and particulate substances

Site: Oki **Country: Japan**

	Gases				Particulate matter components							
	SO_2	HNO_3	NH_3	NO_2	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Mg^{2+}	Ca^{2+}
2014	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	3.51	0.78	0.42	0.02	1.83	2.34	110.62	2.39	117.64	3.78	13.36	4.71
Feb	1.51	0.76	0.32	0.03	2.06	1.41	41.99	3.10	49.10	1.88	5.29	1.82
Mar	2.40	1.24	1.05	0.18	2.99	4.02	76.16	5.47	90.70	4.04	10.45	5.44
Apr	1.21	1.89	1.03	0.24	1.48	1.50	15.44	2.42	22.65	1.20	2.73	1.70
May	1.87	2.65	1.90	0.23	2.41	2.02	11.23	2.74	26.67	1.65	4.09	4.62
June	0.34	2.18	0.92	0.20	1.38	0.75	1.85	2.53	6.81	0.54	0.97	0.88
July	1.25	2.01	1.65	0.08	1.10	0.80	5.02	1.36	12.52	0.68	1.29	0.42
Aug	0.44	1.30	1.22	0.05	1.37	0.67	14.53	1.50	25.57	1.33	2.74	0.84
Sept	0.40	0.52	0.48	0.10	0.70	0.47	8.96	0.91	11.91	0.43	1.24	0.36
Oct	0.97	0.52	0.58	0.05	1.25	1.09	77.20	1.00	87.12	2.95	9.52	2.50
Nov	0.81	0.70	0.27	0.06	0.86	0.89	31.20	1.08	34.27	1.32	3.48	1.24
Dec	2.87	0.61	0.18	0.07	1.23	1.63	294.25	1.61	274.63	6.32	28.44	6.12
Annual	17.60	15.15	10.02	1.31	18.65	17.57	688.46	26.12	759.60	26.13	83.61	30.64

Table 4.46 Monthly and annual dry deposition amounts of gaseous and particulate substances

Site: Banryu **Country: Japan**

	Gases				Particulate matter components							
	SO_2	HNO_3	NH_3	NO_2	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Mg^{2+}	Ca^{2+}
2014	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	1.08	0.81	0.51	0.04	0.54	0.59	5.60	0.84	8.27	0.53	1.02	0.79
Feb	0.62	0.45	0.51	0.04	0.64	0.38	7.96	0.91	9.97	0.54	1.16	0.59
Mar	0.64	1.01	0.91	0.24	1.29	1.12	12.58	2.11	17.94	1.03	2.19	1.61
Apr	0.46	0.97	1.01	0.26	0.59	0.33	2.09	0.82	4.61	0.37	0.58	0.44
May	0.55	1.55	0.98	0.26	0.87	0.46	0.17	1.07	2.91	0.42	0.69	1.42
June	0.26	1.26	1.09	0.23	0.66	0.19	0.22	0.99	2.06	0.22	0.30	0.30
July	0.25	1.35	1.21	0.33	0.45	0.11	0.32	0.56	2.01	0.17	0.28	0.10
Aug	0.32	0.50	0.92	0.22	0.39	0.14	1.86	0.42	4.32	0.34	0.58	0.14
Sept	0.37	0.43	0.78	0.23	0.42	0.21	4.01	0.46	5.81	0.24	0.66	0.22
Oct	0.76	0.37	0.47	0.11	0.49	0.37	25.07	0.48	26.83	0.88	2.86	0.78
Nov	0.50	0.50	0.39	0.11	0.40	0.23	2.05	0.50	3.55	0.26	0.54	0.21
Dec	1.14	0.46	0.12	0.09	0.59	0.63	13.15	0.88	15.55	0.62	1.80	0.60
Annual	6.94	9.67	8.90	2.16	7.34	4.76	75.07	10.03	103.83	5.61	12.66	7.20

Table 4.47 Monthly and annual dry deposition amounts of gaseous and particulate substances

Site: Yusuhara **Country: Japan**

	Gases				Particulate matter components							
	SO_2	HNO_3	NH_3	NO_2	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Mg^{2+}	Ca^{2+}
2014	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	1.41	1.55	0.27	0.05	0.56	0.32	0.33	0.83	1.32	0.29	0.24	0.56
Feb	0.35	0.77	0.45	0.03	0.20	0.06	0.11	0.31	0.48	0.08	0.07	0.12
Mar	1.02	1.91	0.28	0.16	0.86	0.37	0.25	1.40	1.97	0.44	0.29	0.60
Apr	0.52	1.52	0.52	0.17	0.47	0.10	0.11	0.64	1.27	0.34	0.20	0.42
May	0.57	1.77	0.61	0.18	0.59	0.12	0.04	0.69	1.01	0.35	0.35	1.02
June	0.18	0.75	0.48	0.12	0.32	0.02	0.00	0.54	0.25	0.11	0.07	0.13
July	1.31	0.85	0.66	0.13	0.39	0.01	0.01	0.49	0.79	0.29	0.11	0.11
Aug	0.46	0.21	0.40	0.05	0.30	0.00	0.01	0.23	0.65	0.36	0.08	0.05
Sept	0.18	0.57	0.31	0.11	0.24	0.01	0.01	0.21	0.49	0.14	0.07	0.10
Oct	0.29	0.57	0.38	0.06	0.34	0.11	0.24	0.41	2.33	0.20	0.27	0.21
Nov	0.83	0.66	0.17	0.08	0.28	0.06	0.09	0.39	0.89	0.11	0.11	0.13
Dec	2.44	0.95	0.19	0.11	0.73	0.28	0.86	0.90	4.82	0.48	0.57	0.54
Annual	9.57	12.08	4.71	1.24	5.28	1.46	2.05	7.03	16.26	3.17	2.43	3.99

Table 4.48 Monthly and annual dry deposition amounts of gaseous and particulate substances

Site: Hedo **Country: Japan**

	Gases				Particulate matter components							
	SO_2	HNO_3	NH_3	NO_2	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Mg^{2+}	Ca^{2+}
2014	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	0.91	1.02	0.22	0.02	0.78	0.57	22.67	0.56	27.26	0.86	3.13	1.11
Feb	0.16	0.16	0.15	0.01	0.46	0.33	42.08	0.36	40.98	1.01	4.72	1.39
Mar	0.28	0.56	0.52	0.09	0.71	0.61	22.46	0.61	25.21	0.73	2.94	1.06
Apr	0.23	0.68	1.02	0.07	0.95	0.92	17.98	0.96	24.24	0.87	2.95	1.70
May	0.43	0.53	1.83	0.08	0.79	0.71	13.40	0.80	18.53	0.84	2.42	1.77
June	0.12	0.56	1.73	0.21	0.54	0.37	11.52	0.44	16.54	0.73	1.97	0.90
July	0.10	0.12	1.63	0.07	0.21	0.21	32.22	0.18	31.61	0.78	3.52	0.85
Aug	0.14	0.12	1.14	0.09	0.20	0.18	22.15	0.16	21.72	0.54	2.43	0.53
Sept	0.40	0.24	0.55	0.10	0.30	0.17	9.00	0.20	10.94	0.30	1.24	0.34
Oct	0.29	0.37	0.56	0.03	1.13	0.62	65.93	0.57	11.80	1.52	7.01	2.26
Nov	0.26	0.35	0.39	0.04	0.59	0.57	19.23	0.47	22.36	0.59	2.52	0.80
Dec	0.52	0.79	0.34	0.07	1.05	1.00	46.04	0.87	48.94	1.35	5.56	2.08
Annual	3.85	5.52	10.08	0.89	7.73	6.26	324.68	6.18	300.13	10.13	40.42	14.79

Table 4.49 Monthly and annual dry deposition amounts of gaseous and particulate substances

Site: Ogasawara **Country: Japan**

	Gases				Particulate matter components							
	SO_2	HNO_3	NH_3	NO_2	nss-SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Mg^{2+}	Ca^{2+}
2014	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}	mmol m^{-2}
Jan	0.12	0.08	0.14	0.01	0.17	0.07	6.31	0.06	7.02	0.19	0.81	0.23
Feb	0.08	0.04	0.31	0.01	0.16	0.10	8.06	0.11	8.26	0.24	0.96	0.29
Mar	0.11	0.11	0.52	0.06	0.24	0.13	6.04	0.15	6.90	0.19	0.80	0.25
Apr	0.15	0.19	0.86	0.04	0.30	0.14	4.58	0.18	6.30	0.20	0.76	0.28
May	0.06	0.12	0.96	0.02	0.18	0.10	2.55	0.09	3.75	0.13	0.47	0.16
June	0.30	0.11	0.78	0.03	0.19	0.01	0.41	0.16	1.34	0.09	0.17	0.03
July	0.06	0.02	0.68	0.04	0.05	0.01	1.22	0.03	1.43	0.05	0.16	0.03
Aug	0.01	0.00	0.57	0.01	0.03	0.02	1.50	0.02	1.48	0.04	0.17	0.04
Sept	0.04	0.03	0.58	0.03	0.08	0.04	8.71	0.05	8.14	0.20	0.96	0.17
Oct	0.05	0.06	0.42	0.01	0.04	0.03	5.83	0.03	5.38	0.13	0.65	0.13
Nov	0.15	0.03	0.36	0.02	0.10	0.06	7.11	0.08	7.52	0.20	0.85	0.23
Dec	0.28	0.03	0.21	0.03	0.11	0.07	5.35	0.08	5.80	0.13	0.62	0.17
Annual	1.41	0.82	6.38	0.30	1.64	0.79	57.67	1.05	63.33	1.79	7.36	2.00

Table 4.50 Conversion ratios from ppb to μg/m^3 (20°C, 1 atm)

Species	SO_2	HNO_3	HCl	NH_3	NO	NO_2	O_3
Ratio	x 2.66	x 2.62	x 1.52	x 0.71	x 1.25	x 1.91	x 2.00

Table 4.51 Reporting limits for summarizing air concentration data

Species	Reporting limit
SO_2	0.1 ppb
HNO_3	0.1 ppb
HCl	0.1 ppb
NH_3	0.1 ppb
NO, NO_2, NO_x	0.1 ppb
O_3	1 ppb
PM	1 μg/m^3
Particulate matter components	0.01 μg/m^3

CHAPTER 5

Soil and Vegetation Monitoring

5. Soil and Vegetation Monitoring

5.1 Method

The basic survey was principally carried out for the initial objectives (namely, establishment of baseline data and early detection of possible impact) in the participating countries in accordance with the Technical Manual on Soil and Vegetation Monitoring in East Asia. General items are described in the Table 5.1 but actual implementation of item sets was dependent on respective site.

Table 5.1 Basic survey for soil and forest

Item	Parameters
Soil	- pH(H_2O), pH(KCl), Exchangeable base cations (Na, K, Ca, and Mg), Exchangeable acidity, Effective cation exchange capacity (ECEC), Carbonate content (if pH > 7) - Exchangeable Al and H, Total C content, Total N content (optional) - Available P, Sulfate (voluntary) - Physical properties (Fine earth bulk density, and Penetration resistance)(optional)
Forest	- General description of the forest (Description of trees, and Understory vegetation) - Observation of tree decline - Photographic record of tree decline, Estimation of decline causes (optional)

5.1.1 Field Operation

Basically, two forest areas, whose soils have different sensitivities to acid deposition, are recommended to be selected in an area. Several plots (at least two) of areas from 5m x 5m to 10m x 10m should be chosen randomly at each forest area (each soil type). Five subplots with 1m x 1m square of each are set up for soil sampling at the center and along the diagonal lines of the plot (Figure 5.1).

Three coaxial round plots are established for general description of trees with areas of 1000, 400 and 200 square meters respectively (Figure 5.2). Observation of tree decline is carried out basically for selected twenty dominant trees in four directions. The Sub-Manual on Forest Vegetation Monitoring, which was endorsed in 2006, recommended that the observation should be done at least once a year to detect possible effects of meteorological events. Decline symptoms of the observation trees were recorded according to the decline scale shown in Table 5.2.

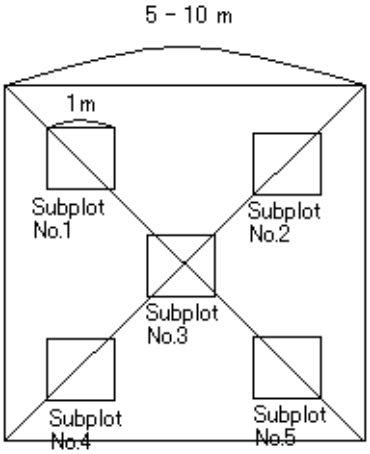


Figure 5.1 Plot for soil sampling

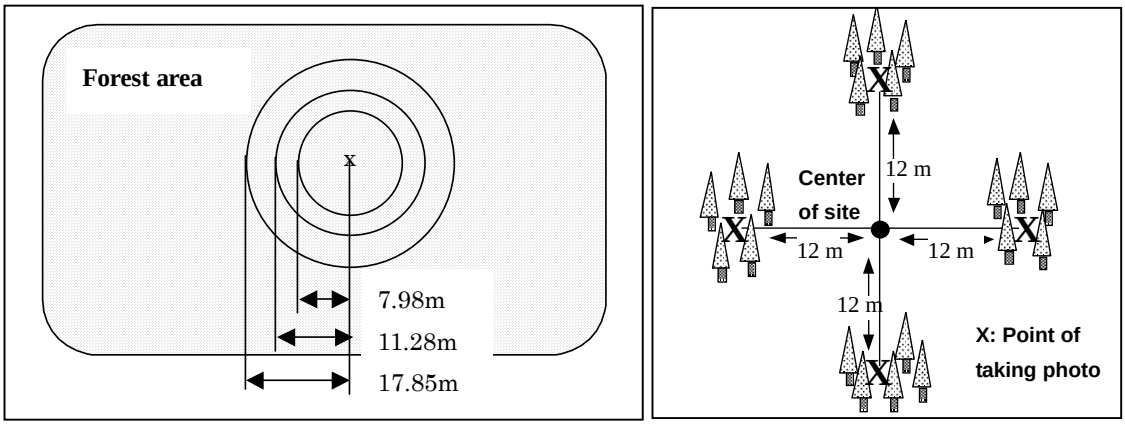


Figure 5.2 Plots for description of trees (Left) and selection of observation trees (Right)

Table 5.2 Observation items and decline scale

Items	Decline scale and observations
Vitality of tree	0. No damage, 1. Slightly damaged, 2. Evidently damaged, 3. Severely damaged, 4. Dead
Form of tree	0. Normal, 1. Some branches lacking, 2. Evidently wanting, 3. Severely wanting, 4. Dead or almost dead
Branch growth	0. Normal growth, 1. Somewhat reduced, 2. Short and slender, 3. Extremely short
Dieback of stem	0. Not found, 1. Slightly dieback, 2. Evidently dieback, 3. Severe dieback if found, 4. Completely dead
Defoliation of crown[*1]	0.Not defoliated (0–10%), 1.Slightly defoliated (>10–25%), 2. Moderately defoliated (>25–60%), 3.Severely defoliated (>60%), 4.Dead
Deformation of leaves	0. Normal, 1. Slightly deformed, 2. Evidently deformed, 3. Completely deformed
Size of leaves	0. Normal, 1. Somewhat small, 2. Evidently small, 3. Very small
Discoloration of leaves[*1]	0. None (0–10%), 1. Slight (>10–25%), 2. Moderate (>25–60%), 3. Severe (>60%)
Injury of leaves	0. No symptoms, 1. Slightly injured, 2. Evidently injured, 3. Severely injured

Note: [*1.] Definition of the scale was updated in the Sub-Manual on Forest Vegetation Monitoring (2006).

5.1.2 Laboratory Operation

Analytical methods recommended in the Manual are presented in Table 5.3.

Table 5.3 Analytical equipment and methods for soil monitoring

Parameters	Equipment/methods
Chemical Properties of Soil	
a) Moisture Content	Drying oven, Balance
b) pH (H_2O) and pH (KCl)	Glass electrode
c) Exchangeable Base Cations (Ca, Mg, K and Na)	AAS, ICP-AES or ICP-MS (CH_3COONH_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)	
g) Carbonate Content (for calcareous soil)	Volumetric calcimeter
h) Total Carbon Content	Titration (Walkley-Black method) or CN-analyzer
i)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 b) Penetration Resistance (in the fieldwork)	Metal sampling cylinder, Drying oven, Balance Pocket penetrometer

5.1.3 Monitoring Sites

Soil and vegetation monitoring data of 10 areas of 5 countries were submitted this year. The list of monitoring site and reported items in 2014 were shown in Table 5.4.1 Observation of the tree decline was conducted in 10 plots. The survey on soil monitoring were carried out in Indonesia, Malaysia and Mongolia. The number of soil and vegetation plots in each monitoring site were shown in Table 5.4.2 with the number of survey until 2014.

Table 5.4.1 Outline of the Monitoring Sites in 2014

Country	Nearest deposition monitoring site	Site: Name of forests	Soil type	Items[*1]
China	**Chongqing**	**Jinyunshan-1**	**Acidi-Udic Argosols**	**F_1**
		Jinyunshan-2	**Acidi-Udic Argosols**	**F_1**
	Xiamen	**Xiaoping**	**Red soil**	**F_1**
	Xi'an	**Jiwozi**	**Brown soil**	**F_1**
	Zhunhai	**Zhuxiandong**	**Ferrosols**	**F_1**
Indonesia	**Serpong**	**Research Forest Station of Center and Development of Forestry Research in Bogor**	**Typic Dystrudepts**	**S, F_2**
Japan	**Banryu**	**Banryu-2**	**Cambisols**	**F_2**
		Iwami Rinku Factory Park	**Acrisols**	**F_2**
	Ijira	**Lake Ijira**	**Dystric Cambisol**	**F_2**
		Yamato	**Andosols**	**F_2**
Malaysia	**Petaling jaya**	**Pasoh reserve forest 1**	**Orthoxic Tropudults**	**S**
		Pasoh reserve forest 2	**Plinthic Kandiaquults**	**S**
Mongolia	**Ulaanbaatar**	**Bogd monuntain**	**Brown soil**	**S**
	Terelj	**Terelj mountain**	**Brown soil**	**S**

*1. S, Soil chemical analysis; F_1, Observation of tree decline, description of trees and understory vegetation survey; F_2, Observation of tree decline

Table 5.4.2 Site information about the number of plots and surveys conducted until 2014

Country	Area (Name of nearest deposition monitoring site)	Name of individual monitoring site	The number of plots			Repeat of soil analysis	Start year	Latest year	The number of surveys until 2014		
			Forest Plot	Soil Main-plot	Soil Sub-plot				Tree decline	Tree survey (DBH, hight, Understory)	Soil survey (pH, Cations, Acidity)
China	Jinyunshan (Chongqing)	Jinyunshan	2	2	5	1	2000	**2014**	**9**	4	5
	Jiwozi (Xi'an)	Dabagou	1	2	5	1	2001	**2014**	**9**	4	5
	Xiaoping (Xiamen)	Xiaoping	1	1	5	1	2000	**2014**	**10**	5	5
	Zhuxiandong (Zhuhai)	Zhuxiandong	3	3	5	1	2001	**2014**	**8**	**5**	4
Indonesia	EMC	Bogor Research Forest (Dramaga Experimental	1	1	5	1	2001	**2014**	**6**	1	**4**
Japan	Ijira	Ijira	1	2	5	2	2000	**2014**	**11**	3	3
		Yamato	1	2	5	2	2003	**2014**	**11**	2	2
	Banryu	Banryu-2	1	2	5	2	2000	**2014**	**12**	3	3
		Iwami "rinku" Factory Park	1	2	5	2	2001	**2014**	**11**	3	3
Malaysia	-	Pasoh Reserve Forest	0	2	5	1	2000	**2014**	1	0	**2**
	Petaling Jaya	Sungi Lalang Forest researves***	**	**	**	**	**	**	0	0	0
Mongolia	Ulaanbaatar	Bogdkhan Mountain	1	0	0	0	2005	**2014**	0	1	**1**
Phili-ppines	Los Banos	Mt. Makiling	1	2	5	2	2000	2008	3	3	3
		UP Quezon, Land Grant	1	2	5	2	2000	2008	3	3	4
	Metro Manila	La Mesa Watershed	1	2	5	2	2007	2010	2	2	2
	Mt. Sto Tomas	Boneco Long Term Ecological Research Site	1	2	5	2	2008	**	1	1	1
Republic of Korea	Imsil	Mt. Naejang	1	2	5	1	2001	2004	1	1	2
Russia	Irkutsk	Irkutsk	1	1	2	1	2001	2013	2	2	2
	Listvyanka	Bolshie Koty	1	2	1	2	2000	2013	1	1	2
		Pereemnaya river catchment	1	2	5	1	2005	**	1	1	1
	Mondy	Ilchir Lake	0	2	5	1	1999	**	0	0	1
		Okinskoe Lake	0	1	5	1	1999	**	0	0	1
		Solar Observatory	1	1	5	1	1999	2004	1	1	1
	Primorskaya	Primorskaya	1	1	2	3	2006	2013	1	1	2
Thailand	Vachiralongkorn Dam (old name: Kao Lam Dam)	Vachiralongkorn Dam	1	2	5	2	2000	2012	5	5	6
		Vachiralongkorn Puye	1	1	5	2	2002	2012	5	5	4
Viet Nam	Hoa Binh	Cave of Heaven	0	2	5	2	1999	**	0	0	1
		Thang Ranh	0	2	5	2	1999	**	0	0	1

* Soil and vegetation monitoring have been conducted only one time.

** Soil and vegetation monitoring have not been conducted.

*** Sungai Lalang Forest Researves would be officially replaced by Bintulu site.

5.2 Results of Monitoring

Results of basic survey for soil and forest were reported in the following tables:

Table 5.5: Soil chemical analysis

Table 5.6: Observation of tree decline

Table 5.7: Description of trees
Table 5.8: Understory vegetation survey
Figure 5.3: Photographic record of tree decline

Table 5.5.1) Soil chemical analysis: Bogor (Indonesia)
Soil sampling date : June 9, 2014
Name of analysis laboratory: Soil Chemistry Laboratory of Centre for Soil and Agroclimate Research and Development at Bogor

1st analysis

Location	Soil type	Plot No.	Subplot No.	Layer analyzed (cm)	Repeat analysis	pH		Exchangeable base cations (B) Ca	Mg	K	Na	Ex-acidity (A)	Ex-acid cations Al	H	ECEC (A) + (B)	Total C	Total N
						H_2O	KCl	($cmol_c$ kg^{-1})								%	
The Research Forest Station of Forestry Research at Bogor	Typic Dystrudepts	1	1	0-10	1	4.0	3.6	0.7	0.4	0.19	0.19	5.68	4.91	0.77	7.1	1.7	0.19
			2		1	4.0	3.6	1.4	0.5	0.20	0.12	4.60	4.12	0.48	6.8	2.1	0.32
			3		1	3.9	3.7	1.0	0.4	0.13	0.11	4.10	3.38	0.72	5.8	2.1	0.22
			4		1	4.0	3.6	1.1	0.4	0.16	0.09	4.46	3.96	0.50	6.2	1.78	0.15
			5		1	4.1	3.6	1.5	0.5	0.16	0.10	4.65	3.95	0.70	6.9	0.65	0.14
			1	10-20	1	4.0	3.6	0.5	0.2	0.07	0.04	4.74	4.26	0.48	5.6	1.24	0.13
			2		1	4.0	3.6	0.8	0.3	0.12	0.06	4.50	3.81	0.69	5.8	1.25	0.13
			3		1	4.0	3.6	0.6	0.3	0.14	0.23	4.72	4.03	0.69	5.9	1.24	0.12
			4		1	3.9	3.7	1.0	0.6	0.17	0.17	4.12	3.41	0.71	6.1	1.14	0.13
			5		1	3.8	3.6	1.0	0.3	0.12	0.05	4.48	3.86	0.62	6.0	1.42	0.05

Table 5.5.2) Soil chemical analysis: Pasoh reserve forest (Malaysia)
Soil sampling date : 2014
Name of analysis laboratory: Soil Laboratory, Forest Research Institute Malaysia, Kepong, Selangor

1st analysis

Location	Soil type	Plot No.	Subplot No.*1	Layer analyzed (cm)	Repeat analysis	pH		Exchangeable base cations (B) Ca	Mg	K	Na	Ex-acidity (A)	Ex-acid cations Al	H	ECEC (A) + (B)	Total C	Total N	Ava-P
						H_2O	KCl	($cmol_c$ kg^{-1})								%		mg kg^{-1}
Pasoh Forest Reserve	Orthoxic Tropudults	1	1	0-10	1	4.5	3.4	0.5	0.6	0.31	0.13		2.37		5.2	2.3	0.016	3.9
			2		1	4.4	3.5	0.1	0.2	0.08	0.09		3.21		7.7	0.8	0.07	1.4
			3		1	4.5	4.5	0.5	0.6	0.32	0.10		2.40		5.2	2.27	0.15	3.5
			4		1	4.5	3.6	0.5	0.6	0.33	0.12		2.33		5.1	2.00	0.1	3.8
			1	10-20	1	4.7	4.0	0.1	0.1	0.14	0.18		3.58		5.4	0.42	0.06	0.9
			2		1	4.7	4.1	0.1	0.1	0.10	0.12		3.59		5.9	0.42	0.04	0.5
			3		1	4.6	4.1	0.0	0.1	0.10	0.09		3.28		6.5	0.31	0.04	0.3
			4		1	4.6	4.0	0.1	0.1	0.09	0.10		3.62		11.6	0.23	0.03	0.4
Pasoh Forest Reserve	Plinthic Kandiaquults	2	1	0-10	1	3.9	3.5	0.1	0.1	0.10	0.10	-	2.99	-	6.4	1.8	0.16	2.5
			2		1	4.1	3.6	0.0	0.0	0.03	0.03		3.42		8.0	1.0	0.08	1.6
			3		1	4.2	3.5	0.0	0.0	0.03	0.10		3.40		7.9	2.27	0.15	3.5
			4		1	4.0	4.0	0.1	0.1	0.10	0.12		2.13		6.2	2.00	0.1	3.8
			1	10-20	1	4.5	4.1	0.0	0.0	0.02	0.03		3.31		5.2	0.35	0.04	0.9
			2		1	4.5	3.5	0.1	0.0	0.03	0.02		3.46		5.1	0.24	0.03	0.3
			3		1	4.7	4.1	0.2	0.0	0.03	0.04		3.70		6.0	0.24	0.03	0.4
			4		1	4.6	4.1	0.0	0.0	0.02	0.04		4.38		10.4	0.16	0.03	0.3

*1: The number of subplot decreased from 5 to 4 by budget cuts.

Table 5.5.3) Soil chemical analysis: Bogd monuntain (Mongolia)

Soil sampling date : 1st July 2013

Name of analysis laboratory: Central Laboratory of Environment and Metrology

1st analysis

Location	Soil type	Plot No.	Subplot No.*1	Layer analyzed (cm)	Repeat analysis	pH		Exchangeable base cations (B)				Ex-acidity	Ex-acid cations		ECEC
								Ca	Mg	K	Na	(A)	Al	H	(A) + (B)
						H_2O	KCl	($cmol_c$ kg^{-1})							
Bogd monuntain	Brown soil	1	1	0-10	1	6.4	5.7	- *1	-	-	-	-	-	-	-
			2		1	6.5	5.6								
			3		1	6.5	5.6								
			4		1	5.8	5.0								
			5		1	6.6	5.6								
			1	10-20	1	6.5	5.4								
			2		1	6.6	5.5								
			3		1	6.4	5.3								
			4		1	5.9	5.0								
			5		1	6.6	5.6								
Bogd monuntain	Brown soil	2	1	0-10	1	6.7	6.0	-	-	-	-	-	-	-	-
			2		1	6.8	6.2								
			3		1	6.6	6.3								
			4		1	6.9	6.3								
			5		1	7.1	6.6								
			1	10-20	1	7.0	6.3								
			2		1	6.5	6.3								
			3		1	7.0	6.3								
			4		1	7.2	5.8								
			5		1	7.2	6.4								

*1: Exchangeable base cations and exchangeable acid cations were not submitted. Although Cd, Pb, Cr, Zn, Cu, Co, Sr and Hg concentrations were submitted to network center, the concentrations of heavy metals were not included in data report according to EANET technical manual.

Table 5.5.4) Soil chemical analysis: Terelj mountain (Mongolia)

Soil sampling date : 1st July 2013

Name of analysis laboratory: Central Laboratory of Environment and Metrology

1st analysis

Location	Soil type	Plot No.	Subplot No.*1	Layer analyzed (cm)	Repeat analysis	pH		Exchangeable base cations (B)				Ex-acidity	Ex-acid cations		ECEC
								Ca	Mg	K	Na	(A)	Al	H	(A) + (B)
						H_2O	KCl	($cmol_c$ kg^{-1})							
Terelj mountain	Brown soil	1	1	0-10	1	5.7	4.9	- *1	-	-	-	-	-	-	-
			2		1	5.7	4.9								
			3		1	5.5	4.7								
			4		1	5.8	4.9								
			5		1	5.7	5.3								
			1	10-20	1	5.4	4.4								
			2		1	5.6	4.8								
			3		1	5.3	4.3								
			4		1	6.0	4.9								
			5		1	6.0	5.0								
Terelj mountain	Brown soil	2	1	0-10	1	5.8	4.9	-	-	-	-	-	-	-	-
			2		1	5.6	4.7								
			3		1	5.6	4.5								
			4		1	5.8	4.7								
			5		1	5.5	4.7								
			1	10-20	1	5.8	4.8								
			2		1	5.6	4.9								
			3		1	5.5	4.5								
			4		1	5.6	4.8								
			5		1	5.6	4.7								

*1: Exchangeable base cations and exchangeable acid cations were not submitted. Although Cd, Pb, Cr, Zn, Cu, Co, Sr and Hg concentrations were submitted to network center, the concentrations of heavy metals were not included in data report according to EANET technical manual.

Network center (NC) is checking the date of survey.

Table 5.6.1) Observation of tree decline: Jinyunshan 1 (China)

Plot name: Jinyunshan 1

Date: 27 September 2014

Surveyor: Lixianyuan

Individual No.	1(3)	2(2)	3(58)	4(101)	5(105)	6(70)	7(102)	8(72)	9(103)	10(104)
Direction (E, W, S, or N)	E	E	E	S	S	W	S	W	N	N
Plant Name	*Cunninghamia lanceolata*	*Symplocos setchuenensis*	*Symplocos setchuenensis*	*Symplocos setchuenensis*	*Symplocos setchuenensis*	*Symplocos setchuenensis*	*Symplocos setchuenensis*	*Symplocos setchuenensis*	*Symplocos setchuenensis*	*Symplocos setchuenensis*
Relative height										
Tree height (m)	18.3	9.8	6.9	13.2	12.9	8.3	8.7	10.2	12.2	12.0
DBH (cm)	19.0	13.7	11.6	13.5	14.1	9.1	10.4	12.2	12.4	10.4
Vitality of tree										
Form of tree	1									
Branch growth										
Dieback of stem										
Defoliation of crown										
Deformation of leaves										
Size of leaves										
Discoloration of leaves										
Injury of leaves										
Damage class										

Estimated cause of decline: None

Table 5.6.2) Observation of tree decline: Jinyunshan 2 (China)

Plot name: Jinyunshan 2

Date: 25 September 2013

Surveyor: Lixianyuan

Individual No.	1(67)	2(68)	3(74)	4(76)	6(41)	8(71)	9(70)	10(69)
Direction (E, W, S, or N)	E	E	S	S	W	N	N	N
Plant Name	*Symplocos setchuenensis*	*Symplocos setchuenensis*	*Adinandra bockiana*	*Symplocos setchuenensis*	*Adinandra bockiana*	*Symplocos lancifolia*	*Elaeocarpus japonecus*	*Michilus pingii (died)*
Relative height								
Tree height (m)	10.8	9.8	15.8	16.7	19.8	14.4	17.9	
DBH (cm)	11.0	14.5	15.6	25.3	21.1	16.2	39.4	
Vitality of tree								
Form of tree								
Branch growth								
Dieback of stem								
Defoliation of crown								
Deformation of leaves								
Size of leaves								
Discoloration of leaves								
Injury of leaves								
Damage class								

Estimated cause of decline: None

Network center (NC) is checking the date of survey.

Table 5.6.3) Observation of tree decline: Xiamen (China)

Plot name: XPZ-01

Date: 11 October 2014

Surveyor: Zhang Yashuang (xiamen environmental monitoring central station)

Individual No.	120	210	211	116	203	225	227	301	220	221	337	334	333	313	314	310	309	308
Direction (E, W, S, or N)	E	E	E	E	S	S	S	S	W	W	W	W	W	N	N	N	N	N
Plant Name	*Michelia.Macclurei Dandy*	*Michelia.Macclurei Dandy*	*Michelia.Macclurei Dandy*	*Michelia.Macclurei Dandy*	*Michelia.Macclurei Dandy*	*Michelia.Macclurei Dandy*	*Michelia.Macclurei Dandy*	*Michelia.Macclurei Dandy*	*Michelia.Macclurei Dandy*	*Michelia.Macclurei Dandy*	*Michelia.Macclurei Dandy*	*Michelia.Macclurei Dandy*	*Michelia.Macclurei Dandy*	*Michelia.Macclurei Dandy*	*Michelia.Macclurei Dandy*	*Michelia.Macclurei Dandy*	*Michelia.Macclurei Dandy*	*Michelia.Macclurei Dandy*
Relative height																		
Tree height (m)	16.8	17.5	18.3	17.1	16.3	17.4	18.1	18.0	17.9	18.3	18.1	17.9	19.2	16.7	16.9	17.2	17.1	19.4
DBH (cm)	17.5	21.1	19.7	20.1	21.8	24.8	21.3	20.4	18.3	22.9	20.4	20.6	19.0	21.6	20.6	20.6	21.6	30.3
Vitality of tree																		
Form of tree																		
Branch growth																		
Dieback of stem																		
Defoliation of crown																		
Deformation of leaves																		
Size of leaves																		
Discoloration of leaves																		
Injury of leaves																		
Damage class																		

Estimated cause of decline: None

Table 5.6.4) Observation of tree decline: Xi'an (China)

Plot name: DaBaGou

Date: 31 October 2014

Surveyor: Zhu Jian, Fu GeJuan

Individual No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Direction (E, W, S, or N)	E	E	E	E	E	S	S	S	S	S	W	W	W	W	W	N	N	N	N	N
Plant Name	*Pinus armandi Fanch*	*Pinus armandi Fanch*	*Pinus armandi Fanch*	*Pinus armandi Fanch*	*Pinus armandi Fanch*	*Pinus armandi Fanch*	*Pinus armandi Fanch*	*Pinus armandi Fanch*	*Pinus armandi Fanch*	*Pinus armandi Fanch*	*Pinus armandi Fanch*	*Pinus armandi Fanch*	*Pinus armandi Fanch*	*Pinus armandi Fanch*	*Pinus armandi Fanch*	*Pinus armandi Fanch*	*Pinus armandi Fanch*	*Pinus armandi Fanch*	*Pinus armandi Fanch*	*Pinus armandi Fanch*
Relative height																				
Tree height (m)	17.0	14.3	11.9	14.8	12.0	11.9	9.8	8.8	10.8	14.7	14.6	12.4	10.8	15.3	11.1	13.2	11.9	13.7	11.2	8.7
DBH (cm)	25.4	25.7	16.2	21.6	24.8	16.7	12.6	18.6	15.6	19.2	28.6	23.5	14.9	23.7	16.2	24.1	16.3	24.3	15.7	9.2
Vitality of tree	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Form of tree	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Branch growth	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Dieback of stem	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Defoliation of crown	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Deformation of leaves																				
Size of leaves																				
Discoloration of leaves																				
Injury of leaves																				
Damage class*1																				

Estimated cause of decline: Trees are too much

Table 5.6.5) Observation of tree decline: Zhunhai (China)

Plot name: Zhunhai 1 (Mixed forest of Pinus elliottii and*Acacia confusa* in Zhuxian Park)

Date: 30 September 2014

Surveyor: Zhuang Xueying (College of Forestry, SCAU)

Individual No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Direction (E, W, S, or N)	W	W	W	W	W	S	S	S	S	S	E	E	E	E	E	N	N	N	N	N
Plant Name	*Pinus elliottii*	*Pinus elliottii*	*Cratoxylum cochinchinense*	*Microcos paniculata*	*Cratoxylum cochinchinense*	*Pinus elliottii*	*Pinus elliottii*	*Pinus elliottii*	*Pinus elliottii*	*Pinus elliottii*	*Pinus elliottii*	*Pinus elliottii*	*Pinus elliottii*	*Pinus elliottii*	*Pinus elliottii*	*Pinus elliottii*	*Litsea glutinosa*	*Microcos paniculata*	*Microcos paniculata*	*Cratoxylum cochinchinense*
Relative height																				
Tree height (m)	12.5	11.5	7.0	7.5	6.7	10.5	10.5	10.5	10.5	8.5	10.3	10.8	10.5	7.0	8.5	11.5	4.5	7.5	4.0	9.5
DBH (cm)	20.2	30.2	5.5	11.9	7.2	20.4	17.8	18.7	25.9	12.0	21.8	11.9	17.7	15.3	11.5	24.6	3.6	10.5	7.7	9.3
Vitality of tree							1	1					1	1	1		2			
Form of tree	1		1		1	1	1	1	1		1	1	1	1	1		2			
Branch growth						1	1	1												
Dieback of stem							1	1					1	1	1		2			
Defoliation of crown	1						1	1					2	1	1					
Deformation of leaves																				
Size of leaves																				
Discoloration of leaves																				
Injury of leaves																				
Damage class																				

Estimated cause of decline: None

Table 5.6.6) Observation of tree decline: Zhunhai (China)

Plot name: Zhunhai 2 (*Acacia confusa* forest in Zhuxian Park)

Date: 30 September 2014

Surveyor: Zhuang Xueying (College of Forestry, SCAU)

Individual No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Direction (E, W, S, or N)	W	W	W	W	W	S	S	S	S	S	E	E	E	E	E	N	N	N	N	N
Plant Name	*Acacia confusa*	*Acacia confusa*	*Cleistanthus monoicusa*	*Machilus velutina*	*Ilex asprella*	*Acacia confusa*	*Microcos paniculata*	*Acacia confusa*	*Acacia confusa*	*Syzygium levinei*	*Acacia confusa*	*Acacia confusa*	*Acacia confusa*	*Acacia confusa*	*Machilus velutina*	*Acacia confusa*	*Acacia confusa*	*Acacia confusa*	*Acacia confusa*	*Acacia confusa*
Relative height																				
Tree height (m)	1.3	7.2	8.5	6.5	5.9	8.8	5.7	7.5	9.1	9.8	7.7	1.8	6.8	7.7	6.5	8.5	1.0	9.5	1.3	7.6
DBH (cm)	18.5	7.6	7.1	1.5	6.1	17.5	8.3	16.0	2.8	13.7	12.1	21.8	11.9	8.0	7.7	1.1	11.8	17.0	2.0	15.7
Vitality of tree						1			1			4								
Form of tree						1			1			4								
Branch growth												3								
Dieback of stem												4								
Defoliation of crown						1						4								
Deformation of leaves																				
Size of leaves																				
Discoloration of leaves																				
Injury of leaves																				
Damage class*1																				

Estimated cause of decline: None

Table 5.6.7) Observation of tree decline: Zhunhai (China)

Plot name: Zhunhai 3 (*Acacia confusa* forest in Zhuxian Park)

Date: 30 September 2014

Surveyor: Zhuang Xueying (College of Forestry, SCAU)

Individual No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Direction (E, W, S, or N)	W	W	W	W	W	S	S	S	S	S	E	E	E	E	E	N	N	N	N	N
Plant Name	*Archidendron lucidum*	*Eurya nitida*	*Machilus velutina*	*Eurya nitida*	*Ilex asprella*	*Acacia confusa*	*Eurya nitida*	*Acacia confusa*	*Eurya nitida*	*Litsea rotundifolia var. oblongifolia*	*Triadica cochinchinensis*	*Litsea rotundifolia var. oblongifolia*	*Aporosa dioica*	*Triadica cochinchinensis*	*Machilus velutina*	*Triadica cochinchinensis*	*Eurya nitida*	*Eurya nitida*	*Eurya nitida*	*Microcos paniculata*
Relative height																				
Tree height (m)	6.0	3.0	5.0	2.5	3.2	5.2	3.0	7.0	3.2	3.4	5.0	4.2	4.3	6.2	6.8	5.0	2.0	2.5	2.0	3.2
DBH (cm)	8.1	4.5	6.9	2.2	2.6	6.1	3.7	10.6	4.8	3.5	5.0	5.0	5.9	12.3	15.3	15.0	2.9	4.1	2.6	3.4
Vitality of tree		1	1			1							1	1			1	1		
Form of tree						1		1			1		1	1			1	1		1
Branch growth						1								1			1	1		
Dieback of stem														1						1
Defoliation of crown								1					1	1						
Deformation of leaves													1	1						
Size of leaves																				
Discoloration of leaves																				
Injury of leaves																				
Damage class*1																				

Estimated cause of decline: None

Table 5.6.8) Observation of tree decline: Bogor (Indonesia)

Plot name: Dramaga Experimental Forest, Bogor

Date: 12 May 2014

Surveyor: I.Wayan, S. Dharmawan, Iskandar, U. Sopian

Individual No.	1 (71)	4 (27)	5 (279)	6 (280)	8 (282)	12 (269)	16 (113)	21 (83)	23 (146)	27 (175)	28 (232)	31 (264)	33 (266)	34 (267)	39 (275)	42 (278)	44 (287)	46 (289)	49 (292)	51 (294)
Direction	N	N	N	N	N	E	E	E	E	E	S	S	S	S	S	W	W	W	W	W
Plant Name	*Hopea mengarawan*	*Hopea mengarawan*	*Hopea mengarawan*	*Hopea mengarawan*	*Hopea mengarawan*	*Hopea mengarawan*	*Hopea mengarawan*	*Hopea mengarawan*	*Hopea mengarawan*	*Hopea mengarawan*	*Hopea mengarawan*	*Hopea mengarawan*	*Melia excelsa*	*Maesopsis emenii*	*Hopea mengarawan*	*Hopea odorata*	*Khaya grandifolia*	*Hopea mengarawan*	*Hopea mengarawan*	*Hopea mengarawan*
Relative height																				
Tree height (m)	28.0	33.0	40.0	43.0	45.0	30.0	24.0	47.0	31.0	7.5	42.0	10.0	6.5	5.8	43.0	30.0	45.0	42.0	35.0	40.0
DBH (cm)																				
Vitality of tree				1								1	2	1						
Form of tree		1		2	2			3		1	1		3	1	1	1	2	1	1	1
Branch growth		1		1	1			3	2	1	2		2	2	1	1		1	2	2
Dieback of stem		1			1				1					1	1	1		1	1	
Defoliation of crown	Dead	1		1	1	Dead	Dead	1	1	1			1	1	1	1		1	1	1
Deformation of leaves				1																
Size of leaves									1											
Discoloration of leaves				1					1	1		1	1	1	1	1		1		1
Injury of leaves				1					1	1		1	1	1	1	1		1		1
Damage class				1					1	1			1	1	1	1		1		1

Estimated cause of decline: pest and very dense, tree no. 1 (71), 12 (269) and 16 (113) was fallen due to hard rain and strong wind

Table 5.6.9) Observation of tree decline: Lake Banryu-1 (Japan)

Plot name: Banryu-2, Banryu

Date: 26 September 2014

Surveyor: Ryoji Yanai

Individual No.	72	82	76	63	64	65	83	34	35	8	9	80
Direction (E, W, S, or N)	N	N	N	E	E	E	S	W	W	W	W	W
Plant Name	*Castanopsis cuspidata*	*Machilus Thunbergii*	*Symplocos lucida*	*Machilus Thunbergii*	*Styrax japonicus*	*Machilus Thunbergii*	*Quercus serrata*	*Machilus Thunbergii*	*Machilus Thunbergii*	*Symplocos lucida*	*Symplocos lucida*	*Ilex integra*
Relative height	+	+	+	+	+	+	+	+	+	+	+	+
Tree height (m)	13.9	14.7	13.8	12.8	11.0	14.7	13.5	16.3	14.6	14.7	16.6	14.3
DBH (cm)	28.2	28.2	12.5	28.8	16.1	23.5	22.5	25.6	21.6	16.7	21.5	34.2
Vitality of tree												
Form of tree												
Branch growth												
Dieback of stem												
Defoliation of crown												
Deformation of leaves												
Size of leaves												
Discoloration of leaves												
Injury of leaves												
Damage class												

Table 5.6.10) Observation of tree decline: Lake Banryu-2 (Japan)

Plot name: Iwamirinku-FP, Banryu

Date: 26 September 2014

Surveyor: Ryoji Yanai

Individual No.	92	93	122	100	104	108	127	128	63	138	112	113	114	142	141
Direction	N	N	N	E	E	E	E	E	S	S	W	W	W	W	W
Plant Name	*Machilus Thunbergii*	*Machilus Thunbergii*	*Ilex micrococca*	*Quercus serrata*	*Castanopsis cuspidata*	*Castanopsis cuspidata*	*Castanopsis cuspidata*	*Castanopsis cuspidata*	*Castanopsis cuspidata*	*Machilus Thunbergii*	*Machilus Thunbergii*	*Machilus Thunbergii*	*Machilus Thunbergii*	*Castanea crenata*	*Machilus Thunbergii*
Relative height			+		+					–					–
Tree height (m)	15.8	16.3	18.5	18.4	17.6	17.3	18.3	18.4	18.3	12.9	18.8	19.9	15.6	12.7	14.8
DBH (cm)	25.4	29.8	29.7	31.4	29.2	26.8	31.6	37.4	33.7	25.7	22.6	22.4	29.4	35.6	27.4
Vitality of tree														3	
Form of tree					1	1			1					3	
Branch growth					1	1			1					3	
Dieback of stem					1	1			1					3	
Defoliation of crown														2	
Deformation of leaves															
Size of leaves															
Discoloration of leaves														2	
Injury of leaves														2	
Damage class														3	

Estimated cause of decline: 142, by specific disease for Fagaceae tree species (infection of *Raffaelea quercivora* through the beetle, *Platypus quercivorus*)

Table 5.6.11) Observation of tree decline: Lake Ijira (Japan)

Plot name: Ijira, Ijira

Date: 28 November 2014

Surveyor: Shinji Tanaka

Individual No.	1	2	3-2	4	5-2	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	*Chamaecyparis obtusa*	*Chamaecyparis obtusa*	*Chamaecyparis obtusa*	*Chamaecyparis obtusa*	*Chamaecyparis obtusa*	*Chamaecyparis obtusa*	*Cryptomeria japonica*	*Chamaecyparis obtusa*	*Chamaecyparis obtusa*	*Chamaecyparis obtusa*	*Chamaecyparis obtusa*	*Chamaecyparis obtusa*	*Chamaecyparis obtusa*	*Chamaecyparis obtusa*	*Chamaecyparis obtusa*	*Chamaecyparis obtusa*	*Chamaecyparis obtusa*	*Chamaecyparis obtusa*	*Chamaecyparis obtusa*	*Chamaecyparis obtusa*
Relative height				−			+					−	−	+				−	−	−
Tree height (m)	14.3	13.5	14.9	12.4	15.5	16.3	17.0	16.3	16.0	15.0	15.8	14.3	14.5	16.6	15.9	12.9	14.5	12.2	12.8	12.8
DBH (cm)	20.6	16.0	18.0	15.0	17.5	24.0	26.9	22.2	17.7	19.2	15.0	16.3	16.1	20.7	19.0	22.0	17.3	11.4	12.1	18.1
Vitality of tree																		1	1	1
Form of tree		1		1	1			1		1	1	1	1	1	1		1	1	1	1
Branch growth																				
Dieback of stem	1			1						1		1								
Defoliation of crown																				
Deformation of leaves																				
Size of leaves																				
Discoloration of leaves																				
Injury of leaves																				
Damage class																				

Estimated cause of decline: No.2, 4, 5-2, 8, 10, 11, 12, 13, 14, 15 and 17, bent stem; No. 18, 19 and 20, suppression by other surrounding trees.

Table 5.6.12) Observation of tree decline: Lake Ijira-2 (Japan)

Plot name: Yamato, Ijira

Date: 27 November 2014

Surveyor: Shinji Tanaka

Individual No.	1	2	3	4	5	6	7	8	9	10	11-2	12-2	13-2	14-2	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	*Chamaecyparis obtusa*	*Chamaecyparis obtusa*	*Chamaecyparis obtusa*	*Chamaecyparis obtusa*	*Chamaecyparis obtusa*	*Chamaecyparis obtusa*	*Chamaecyparis obtusa*	*Chamaecyparis obtusa*	*Chamaecyparis obtusa*	*Chamaecyparis obtusa*	*Chamaecyparis obtusa*	*Chamaecyparis obtusa*	*Chamaecyparis obtusa*	*Chamaecyparis obtusa*	*Chamaecyparis obtusa*	*Chamaecyparis obtusa*	*Chamaecyparis obtusa*	*Chamaecyparis obtusa*	*Chamaecyparis obtusa*	*Chamaecyparis obtusa*
Relative height											−						−			−
Tree height (m)	30.0	28.4	30.7	28.7	28.1	31.8	28.3	30.2	30.0	28.5	25.5	29.8	29.5	28.6	28.7	29.3	27.6	29.6	30.4	24.5
DBH (cm)	39.0	39.0	43.2	43.7	42.2	44.9	38.5	36.8	41.7	39.3	34.4	44.2	45.3	35.2	42.2	32.4	34.5	44.3	40.1	34.4
Vitality of tree																				1
Form of tree																1	1			1
Branch growth																				
Dieback of stem			1	1			1	1			1									
Defoliation of crown																				
Deformation of leaves																				
Size of leaves																				
Discoloration of leaves																				
Injury of leaves																				
Damage class																				

Estimated cause of decline: No. 16, 17 and 20, bent stem.

Table 5.7.1) Description of trees: Zhunhai (China)

Plot name: Zhunhai 1 (Mixed forest of Pinus elliottii and *Acacia confusa* in Zhuxian Park)

Date: 30 September 2014

Surveyor: Zhuang Xueying, Zhuang Xueying, Huang Jiuxiang, Xu Ruijing, Zeng Sijin, Wang Pan, Liu Qiang,Liu Xin, Ma Dingwen, Hong Wenjun (College of Forestry, SCAU)

Survey area 1: radius 7.98 m

(Height > 1.3 m)

Tree No.	Scientific name (Local name)	DBH (cm)	Tree Height (m)	Remarks
1	Mallotus apelta	1.8	1.8	
2	Mallotus paniculatus	3.1	3.5	
3	Mallotus paniculatus	2.5	1.3	
4	Mallotus paniculatus	5.2	6.0	
5	Ficus variolosa	1.8	2.0	
6	Ficus variolosa	1.9	2.0	
7	Ficus variolosa	2	1.5	
8	Ficus variolosa	3.1	2.5	
9	Ficus variolosa	7.8	2.1	
10	Litsea rotundifolia var. oblongifolia	1.2	2.1	
11	Litsea rotundifolia var. oblongifolia	1.3	2.3	
12	Litsea rotundifolia var. oblongifolia	1.4	2	
13	Litsea rotundifolia var. oblongifolia	1.5	1.6	
14	Litsea rotundifolia var. oblongifolia	2	2	
15	Litsea rotundifolia var. oblongifolia	2.3	1.6	
16	Litsea rotundifolia var. oblongifolia	3.5	3	
17	Litsea rotundifolia var. oblongifolia	4.5	3	
18	Litsea rotundifolia var. oblongifolia	0.6	2.5	
19	Litsea rotundifolia var. oblongifolia	0.7	1.5	
20	Litsea rotundifolia var. oblongifolia	2.22	2.2	
21	Litsea rotundifolia var. oblongifolia	4.3	1.2	
22	Litsea rotundifolia var. oblongifolia	4.2	2.3	
23	Litsea rotundifolia var. oblongifolia	7.7	2	
24	Litsea rotundifolia var. oblongifolia	7.3	3.5	
25	Litsea rotundifolia var. oblongifolia	7.3	2	
26	Litsea rotundifolia var. oblongifolia	12.4	3	
27	Litsea rotundifolia var. oblongifolia	11.5	1.7	
28	Litsea rotundifolia var. oblongifolia	15.8	3	
29	Litsea rotundifolia var. oblongifolia	19	1.6	
30	Litsea glutinosa	2	2.5	
31	Rhaphiolepis indica	1.1	1.5	
32	Rhaphiolepis indica	6.1		
33	Glochidion eriocarpum	4.1	2.5	
34	Benkara depauperata	0.1	1.5	
35	Benkara depauperata	1.9	1.5	
36	Benkara depauperata	4.6	1.6	
37	Benkara depauperata	12.7	3	
38	Cratoxylum cochinchinense	2	1.6	
39	Cratoxylum cochinchinense	5.4	5	
40	Cratoxylum cochinchinense	6.4	6	
41	Psychotria asiatica	1.5	1.3	
42	Psychotria asiatica	3.3	1.4	

43	Psychotria asiatica	3.3	1.7	
44	Psychotria asiatica	3.5	2.5	
45	Psychotria asiatica	4.4	2	
46	Psychotria asiatica	3.3	1.4	
47	Zanthoxylum avicennae	3.1	3.5	
48	Archidendron lucidum	2	2.6	
49	Ilex asprella	0.3	1.3	
50	Ilex asprella	2.5	3	
51	Ilex asprella	3.1	1.2	
52	Ilex asprella	3.4	2.2	
53	Ilex asprella	2.6	1.7	
54	Ilex asprella	4.9	2.5	
55	Ilex asprella	7.2	1.8	
56	Ilex asprella	8.1	2.5	
57	Ilex asprella	10.1	3.2	
58	Ilex asprella	10.8	2.6	
59	Triadica cochinchinensis	3	3	
60	Pinus elliottii	15.4	11	
61	Ficus hirta	0.1	1.3	
62	Schefflera minutistellata	3.8	1.4	
63	Schefflera minutistellata	11.7	2.5	
64	Strophanthus divaricatus	1.1	1.3	
65	Strophanthus divaricatus	3.1	1.8	
66	Toxicodendron succedaneum	1.2	2.2	
67	Toxicodendron succedaneum	2.2	2.5	
68	Phyllanthus emblica	0.4	1.6	
69	Melastoma malabathricum	2.9	1.6	
70	Gardenia jasminoides	1.8	1.6	
71	Gardenia jasminoides	1.8	1.6	
72	Gardenia jasminoides	2.6	1.7	

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

Tree No.	Scientific name (Local name)	DBH (cm)	Tree Height (m)	Remarks
1	Mallotus paniculatus	4.5	4.8	
2	Mallotus paniculatus	5.2	6	
3	Litsea rotundifolia var. oblongifolia	4.5	4.8	
4	Litsea rotundifolia var. oblongifolia	5.3	5.3	
5	Litsea rotundifolia var. oblongifolia	16.8	6.5	
6	Litsea rotundifolia var. oblongifolia	24	5.8	
7	Litsea rotundifolia var. oblongifolia	24.7	4.5	
8	Litsea glutinosa	5.8	6.0	
9	Litsea glutinosa	7.6	6.9	
10	Glochidion eriocarpum	4.1	2.5	
11	Cratoxylum cochinchinense	4	5.2	
12	Cratoxylum cochinchinense	5.4	5.0	
13	Cratoxylum cochinchinense	5.4	5.0	
14	Cratoxylum cochinchinense	6	7.0	
15	Cratoxylum cochinchinense	6.4	6.0	

16	Cratoxylum cochinchinense	6.5	6.0	
17	Cratoxylum cochinchinense	6.9	7.8	
18	Cratoxylum cochinchinense	9.3	7.8	
19	Microcos paniculata	9.4	7.2	
20	Triadica cochinchinensis	15.9	6.2	
21	Pinus elliottii	10.1	11.0	
22	Pinus elliottii	13.8	6.8	
23	Pinus elliottii	14	11.0	
24	Pinus elliottii	14.7	10.0	
25	Pinus elliottii	15.2	8.5	
26	Pinus elliottii	15.4	11.0	
27	Pinus elliottii	16.1	7.9	
28	Pinus elliottii	16.5	8.7	
29	Pinus elliottii	17.4	7.2	
30	Pinus elliottii	17.6	10.8	
31	Wendlandia uvariifolia	7.5	7.0	
32	Pinus elliottii	15.5	8.2	
33	Eurya nitida	11.7	6.8	
34	Schefflera minutistellata	5.1	3.2	
35	Schefflera minutistellata	6.5	4.8	
36	Schefflera minutistellata	9.1	3.8	
37	Schefflera minutistellata	11.7	2.5	
38	Aporosa dioica	5	5.5	

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

Tree No.	Scientific name (Local name)	DBH (cm)	Tree Height (m)	Remarks
1	Acacia confusa	42.8	13	
2	Pinus elliottii	39.5	9.6	
3	Pinus elliottii	31.1	12.8	
4	Pinus elliottii	29.9	9.3	
5	Pinus elliottii	26.5	9.5	
6	Pinus elliottii	24.6	10.3	
7	Acacia confusa	24.2	12.3	
8	Pinus elliottii	23.4	9.2	
9	Acacia confusa	22.9	12	
10	Acacia confusa	22.4	8.4	
11	Pinus elliottii	22.0	11.8	
12	Pinus elliottii	21.9	9.8	
13	Pinus elliottii	21.8	9.2	
14	Pinus elliottii	21.6	10.7	
15	Pinus elliottii	21.3	8.7	
16	Pinus elliottii	21.2	7.8	
17	Pinus elliottii	20.9	9.5	
18	Pinus elliottii	20.8	9.1	
19	Pinus elliottii	20.8	9.2	
20	Pinus elliottii	20.4	10	
21	Pinus elliottii	20.2	10.3	
22	Pinus elliottii	19.7	9.8	
23	Pinus elliottii	19.6	10.3	
24	Pinus elliottii	19.6	8.5	
25	Pinus elliottii	19.5	10.1	
26	Pinus elliottii	19.5	9.3	
27	Pinus elliottii	19.0	9.2	
28	Acacia confusa	18.6	11.2	
29	Pinus elliottii	18.5	10.3	
30	Pinus elliottii	18.4	10.5	
31	Pinus elliottii	18.4	10.5	
32	Acacia confusa	Dead	Dead	

Table 5.7.2) Description of trees: Zhunhai (China)

Plot name: Zhunhai 2 (*Acacia confusa* forest in Zhuxian Park)

Date: 30 September 2014

Surveyor: Zhuang Xueying, Zhuang Xueying, Huang Jiuxiang, Xu Ruijing, Zeng Sijin, Wang Pan, Liu Qiang,Liu Xin, Ma Dingwen, Hong Wenjun (College of Forestry, SCAU)

Survey area 1: radius 7.98 m

(Height > 1.3 m)

Tree No.	Scientific name (Local name)	DBH (cm)	Tree Height (m)	Remarks
1	Syzygium levinei	1.6	1.7	
2	Microcos paniculata	2.2	2.4	
3	Litsea rotundifolia var. oblongifolia	1.2	1.5	
4	Litsea rotundifolia var. oblongifolia	1.6	3.0	
5	Litsea rotundifolia var. oblongifolia	2	2.5	
6	Litsea rotundifolia var. oblongifolia	2.1	1.3	
7	Litsea rotundifolia var. oblongifolia	2.5	2	
8	Litsea rotundifolia var. oblongifolia	2.5	3	
9	Litsea rotundifolia var. oblongifolia	2.5	2	
10	Litsea rotundifolia var. oblongifolia	2.5	3.5	
11	Litsea rotundifolia var. oblongifolia	2.6	1.4	
12	Litsea rotundifolia var. oblongifolia	3	3	
13	Litsea rotundifolia var. oblongifolia	3.4	4	
14	Litsea rotundifolia var. oblongifolia	3.5	4	
15	Litsea rotundifolia var. oblongifolia	2.1	1.4	
16	Litsea rotundifolia var. oblongifolia	1.8	1.5	
17	Litsea rotundifolia var. oblongifolia	2.6	1.6	
18	Litsea rotundifolia var. oblongifolia	6.4	1.4	
19	Litsea rotundifolia var. oblongifolia	3.5	1.2	
20	Litsea rotundifolia var. oblongifolia	5.8	3.5	
21	Litsea rotundifolia var. oblongifolia	5.9	2.3	
22	Litsea rotundifolia var. oblongifolia	4.1	3	
23	Litsea rotundifolia var. oblongifolia	4	1.5	
24	Litsea rotundifolia var. oblongifolia	4.3	2.5	
25	Litsea rotundifolia var. oblongifolia	3.2	3	
26	Litsea rotundifolia var. oblongifolia	3.3	2.5	
27	Litsea rotundifolia var. oblongifolia	5.4	3	
28	Litsea rotundifolia var. oblongifolia	19.4	3	
29	Litsea rotundifolia var. oblongifolia	8.6	4	
30	Litsea rotundifolia var. oblongifolia	12.8	3	
31	Litsea rotundifolia var. oblongifolia	9.5	3	
32	Litsea rotundifolia var. oblongifolia	19.4	3	
33	Litsea rotundifolia var. oblongifolia	12.2	4	
34	Litsea rotundifolia var. oblongifolia	32.4	2	
35	Litsea rotundifolia var. oblongifolia	0.3	1.7	
36	Litsea rotundifolia var. oblongifolia	0.8	2	
37	Elaeagnus pungens	2.4	3	
38	Cratoxylum cochinchinense	1.6	0.4	
39	Psychotria asiatica	2	1.8	
40	Psychotria asiatica	2.2	2	
41	Psychotria asiatica	5.3	2	
42	Atalantia buxifolia	0.2	2.3	

43	Archidendron lucidum	3.8	4	
44	Archidendron lucidum	1.1	1.3	
45	Ilex asprella	0.7	1.5	
46	Ilex asprella	1.8	1.6	
47	Ilex asprella	1.9	6	
48	Jasminum elongatum	0.8	0.6	
49	Machilus velutina	0.9	1.5	
50	Machilus velutina	0.8	1.6	
51	Machilus velutina	2.3	2.2	
52	Machilus velutina	7	5	
53	Ficus hirta	0.5	1.4	
54	Ficus hirta	0.8	1.5	
55	Ficus hirta	1.9	1.5	
56	Aporosa dioica	0.2	2.2	
57	Benkara depauperata	0.3	2	
58	Benkara depauperata	1.6	2.2	
59	Benkara depauperata	2	1.6	
60	Benkara depauperata	4.1	3	

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

Tree No.	Scientific name (Local name)	DBH (cm)	Tree Height (m)	Remarks
1	Syzygium levinei	8.2	7	
2	Syzygium levinei	13.7	10	
3	Mallotus paniculatus	4.6	4.2	
4	Microcos paniculata	11	9.0	
5	Microcos paniculata	27.1	9.0	
6	Litsea rotundifolia var. oblongifolia	4	3.8	
7	Microcos paniculata	4	5.2	
8	Microcos paniculata	4.2	4.3	
9	Microcos paniculata	4.4	4.2	
10	Litsea rotundifolia var. oblongifolia	8.3	3.0	
11	Litsea rotundifolia var. oblongifolia	13.8	4.2	
12	Litsea rotundifolia var. oblongifolia	15.1	5.6	
13	Litsea rotundifolia var. oblongifolia	15.9	4.0	
14	Litsea rotundifolia var. oblongifolia	15.3	5.0	
15	Litsea rotundifolia var. oblongifolia	19	5.7	
16	Litsea rotundifolia var. oblongifolia	21.7	5.7	
17	Litsea rotundifolia var. oblongifolia	24.1	4.0	
18	Litsea glutinosa oblongifolia	4	3.8	
19	Scolopia saeva	5.7	6.0	
20	Archidendron lucidum	7	8.0	
21	Archidendron lucidum	7.4	7.8	
22	Archidendron lucidum	10	6.7	
23	Archidendron lucidum	11.1	8.5	
24	Microcos paniculata	4.5	6.0	
25	Microcos paniculata	4.3	4.5	
26	Microcos paniculata	4.7	5.0	
27	Microcos paniculata	4.7	6.0	

28	Machilus velutina	4.7	6.2	
29	Machilus velutina	7	7.2	
30	Machilus velutina	6	7.0	
31	Machilus velutina	8.9	6.0	
32	Machilus velutina	8.9	8.0	
33	Machilus velutina	9.5	4.0	
34	Machilus velutina	11.5	7.2	
35	Machilus velutina	18.8	6.9	
36	Acacia confusa	4.4	5.8	
37	Acacia confusa	7	6.0	
38	Acacia confusa	7.6	9.0	
39	Acacia confusa	7.6	6.8	
40	Acacia confusa	8.1	6.0	
41	Acacia confusa	8.7	6.5	
42	Acacia confusa	8.8	9.0	
43	Acacia confusa	8.9	6.0	
44	Acacia confusa	9.5	6.8	
45	Acacia confusa	10.4	8.2	
46	Acacia confusa	11.1	10.0	
47	Acacia confusa	12	9.0	
48	Acacia confusa	12.7	8.9	
49	Acacia confusa	13.2	9.0	
50	Acacia confusa	13.6	7.2	
51	Acacia confusa	14.3	10.0	
52	Acacia confusa	15.1	9.0	
53	Acacia confusa	15.9	9.2	
54	Acacia confusa	16.1	10.0	
55	Acacia confusa	16.8	10.5	
56	Acacia confusa	17.2	10.5	
57	Acacia confusa	25.7	7.2	
58	Bridelia tomentosa	8	8.2	
59	Acacia confusa	Dead	Dead	
60	Acacia confusa	Dead	Dead	
61	Acacia confusa	Dead	Dead	
62	Acacia confusa	Dead	Dead	
63	Acacia confusa	Dead	Dead	
64	Acacia confusa	Dead	Dead	
65	Acacia confusa	Dead	Dead	
66	Acacia confusa	Dead	Dead	

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

Tree No.	Scientific name (Local name)	DBH (cm)	Tree Height (m)	Remarks
1	Acacia confusa	29.2	12.5	
2	Acacia confusa	25.8	10.5	
3	Acacia confusa	24.5	12.5	
4	Acacia confusa	22.9	9.5	
5	Acacia confusa	22.0	11.5	
6	Acacia confusa	21.8	10.8	
7	Acacia confusa	21.6	12.3	
8	Acacia confusa	21.0	14	
9	Acacia confusa	20.0	10.3	
10	Acacia confusa	19.1	11.8	
11	Acacia confusa	18.6	10	

Table 5.7.3) Description of trees: Zhunhai (China)

Plot name: Zhunhai 3 (*Acacia confusa* forest in Zhuxian Park)

Date: 30 September 2014

Surveyor: Zhuang Xueying, Zhuang Xueying, Huang Jiuxiang, Xu Ruijing, Zeng Sijin, Wang Pan, Liu Qiang,Liu Xin, Ma Dingwen, Hong Wenjun (College of Forestry, SCAU)

Survey area 1: radius 7.98 m

(Height > 1.3 m)

Tree No.	Scientific name (Local name)	DBH (cm)	Tree Height (m)	Remarks
1	Microcos paniculata	2.3	2.3	
2	Microcos paniculata	2.5	1.7	
3	Ficus variolosa	2.5	2	
4	Litsea rotundifolia var. oblongifolia	0.2	1.5	
5	Litsea rotundifolia var. oblongifolia	0.3	1.5	
6	Litsea rotundifolia var. oblongifolia	1	2.3	
7	Litsea rotundifolia var. oblongifolia	1.1	1.5	
8	Litsea rotundifolia var. oblongifolia	2.3	1.8	
9	Litsea rotundifolia var. oblongifolia	2.9	1.7	
10	Litsea rotundifolia var. oblongifolia	4.6	2.4	
12	Litsea rotundifolia var. oblongifolia	19.8	3	
13	Litsea rotundifolia var. oblongifolia	14	2.3	
14	Litsea rotundifolia var. oblongifolia	29.8	3	
15	Litsea glutinosa oblongifolia	13.3	4	
16	Rhaphiolepis indica	0.1	1.4	
17	Rhaphiolepis indica	0.1	1.4	
18	Cratoxylum cochinchinense	1	1.6	
19	Cratoxylum cochinchinense	2.1	3	
20	Cratoxylum cochinchinense	2.4	2	
22	Cratoxylum cochinchinense	3.4	2	
23	Psychotria asiatica	0.2	1.5	
24	Zanthoxylum avicennae	3.8	4	
25	Archidendron lucidum	0.4	1.5	
26	Archidendron lucidum	1.3	2	
27	Archidendron lucidum	1.5	2	
28	Melastoma sanguineum	3.1	1.8	
29	Ilex asprella	0.2	1.8	
31	Ilex asprella	0.8	2	
32	Ilex asprella	1.8	1.5	
33	Ilex asprella	25.1	4.5	
34	Machilus velutina	0.3	1.4	
35	Machilus velutina	6.4	4	
36	Machilus velutina	9.2	3.5	
37	Rhodomyrtus tomentosa	0.1	1.5	
38	Rhodomyrtus tomentosa	0.2	1.6	
39	Rhodomyrtus tomentosa	0.9	1.5	
41	Rhodomyrtus tomentosa	1.4	1.6	
42	Dalbergia hancei	2.2	3.5	
43	Dalbergia hancei	2.5	3	
44	Eurya nitida	0.2	1.6	
45	Eurya nitida	0.2	1.4	
46	Eurya nitida	0.5	1.4	

47	Eurya nitida	0.8	1.5	
48	Eurya nitida	1	2	
50	Eurya nitida	1.8	1.6	
51	Eurya nitida	2.3	2.1	
52	Eurya nitida	3.2	2.3	
53	Eurya nitida	3.4	2.5	
54	Eurya nitida	6.9	2	
55	Eurya nitida	9.5	4	
56	Eurya nitida	8.9	2.3	
57	Eurya nitida	9.1	2.2	
58	Eurya nitida	9.7	3.2	
60	Eurya nitida	6.7	2.2	
61	Eurya nitida	9.1	2.5	
62	Eurya nitida	12.1	2	
63	Eurya nitida	12.7	2.8	
64	Eurya nitida	18.9	2	
65	Melastoma malabathricum	0.9	1	
66	Melastoma malabathricum	6.3	2.1	

Survey area 2: radius 11.28 m

(DBH > 4 cm)

Tree No.	Scientific name (Local name)	DBH (cm)	Tree Height (m)	Remarks
1	Syzygium levinei	4.6	5.8	
2	Microcos paniculata	4.8	5.2	
3	Microcos paniculata	6.8	5.2	
4	Litsea rotundifolia var. oblongifolia	13.4	5.1	
5	Litsea rotundifolia var. oblongifolia	30	4.0	
6	Litsea glutinosa oblongifolia	4.6	4.3	
7	Archidendron lucidum	4.6	5.0	
8	Archidendron lucidum	7.5	6.0	
9	Archidendron lucidum	9.3	6.2	
10	Archidendron lucidum	12.8	7.8	
11	Archidendron lucidum	17.7	7.2	
12	Machilus velutina	4	5.2	
13	Machilus velutina	4.4	4.0	
14	Machilus velutina	4.7	4.8	
15	Machilus velutina	5.2	5.3	
16	Machilus velutina	5.4	5.3	
17	Machilus velutina	7	5.7	
18	Machilus velutina	7.6	6.2	
19	Machilus velutina	15.3	6.8	
20	Machilus velutina	8.3	4.0	
21	Machilus velutina	23.7	6.0	
22	Machilus velutina	16.7	5.6	
23	Machilus velutina	18.2	5.0	
24	Triadica cochinchinensis	8.8	3.5	
25	Triadica cochinchinensis	10.9	4.0	
26	Triadica cochinchinensis	12	5.8	
27	Triadica cochinchinensis	14.6	4.5	

28	Triadica cochinchinensis	15.2	6.7	
29	Triadica cochinchinensis	16.8	7.0	
30	Triadica cochinchinensis	19.5	6.2	
31	Acacia confusa	6.8	4.0	
32	Acacia confusa	7.4	5.0	
33	Acacia confusa	9.5	4.5	
34	Acacia confusa	10.6	6.9	
35	Acacia confusa	12.9	6.8	
36	Schefflera minutistellata	5.7	2.3	
37	Toxicodendron succedaneum	4	2.5	
38	Toxicodendron succedaneum	6.2	4.0	
39	Aporosa dioica	17.5	5.4	
40	Acacia confusa	20.1	7.8	
41	Melastoma malabathricum	10.9	3.0	

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

Tree No.	Scientific name (Local name)	DBH (cm)	Tree Height (m)	Remarks
1	Triadica cochinchinensis	18.3	5.8	
2	Triadica cochinchinensis	18.8	6.5	
3	Acacia confusa	Dead	Dead	
4	Acacia confusa	Dead	Dead	

Table 5.8.1) Understory vegetation survey: Zhunhai (China)

Plot name: Zhunhai 1 (Mixed forest of Pinus elliottii and *Acacia confusa* in Zhuxian Park)

Date: 30 September 2014

Surveyor: Zhuang Xueying, Zhuang Xueying, Huang Jiuxiang, Xu Ruijing, Zeng Sijin, Wang Pan, Liu Qiang,Liu Xin, Ma Dingwen, Hong Wenjun (College of Forestry, SCAU)

Number of Species: 51

Scientific name (Local name)	Abundance
Smilax china	6
Mallotus paniculatus	2
Ficus variolosa	3
Litsea rotundifolia var. oblongifolia	1
Litsea glutinosa	8
Rhaphiolepis indica	1
Melastoma malabathricum	1
Hedyotis auricularia	3
Stephania longa	1
Alocasia odora	1
Cratoxylum cochinchinense	2
Dendrotrophe varians	1
Piper sarmentosum	1
Sterculia lanceolata	1
Lonicera maackii	1
Psychotria asiatica	15
Atalantia buxifolia	1
Zanthoxylum avicennae	7
Zanthoxylum nitidum	5
Archidendron lucidum	3
Wikstroemia indica	2
Psychotria serpens	15
Clerodendrum canescens	11
Glochidion eriocarpum	5
Ilex asprella	5
Microcos paniculata	6
Syzygium levinei	3
Triadica cochinchinensis	1
Helicteres angustifolia	1
Wendlandia uvariifolia	4
Embelia laeta	2
Ficus hirta	3
Tetracera sarmentosa	2
Damnacanthus indicus	1
Schefflera minutistellata	5
Strophanthus divaricatus	5
Toxicodendron succedaneum	3
Aporosa dioica	8
Mussaenda pubescens	2
Cinnamomum camphora	1
Gardenia jasminoides	5
Uvaria macrophylla	1
Miscanthus sinensis	0
Dicranopteris pedata	20
Lygodium japonicum	1
Pteris semipinnata	1
Lophatherum gracile	2
Sinobambusa tootsik	10
Adiantum capillus-veneris	10
Blechnum orientale	20

NC is checking the meaning of these values (abundance should be +, or 1 - 5)

Table 5.8.2) Understory vegetation survey: Zhunhai (China)

Plot name: Zhunhai 2 (*Acacia confusa* forest in Zhuxian Park)

Date: 30 September 2014

Surveyor: Zhuang Xueying, Zhuang Xueying, Huang Jiuxiang, Xu Ruijing, Zeng Sijin, Wang Pan, Liu Qiang,Liu Xin, Ma Dingwen, Hong Wenjun (College of Forestry, SCAU)

Number of Species: 21

Scientific name (Local name)	Abundance
Syzygium levinei	1
Microcos paniculata	1
Litsea glutinosa	2
Benkara depauperata	2
Breynia fruticosa	3
Elaeagnus pungens	2
Sterculia lanceolata	2
Psychotria asiatica	50
Glochidion eriocarpum	2
Machilus velutina	1
Machilus velutina	3
Ficus hirta	2
Eurya nitida	1
Ardisia crenata	3
Uvaria macrophylla	4
Lophatherum gracile	1
Cyrtococcum patens	1
Dicranopteris pedata	1
Lygodium flexuosum	+
Adiantum flabellulatum	+
Pothos repens	+

NC is checking the meaning of these values (abundance should be +, or 1 - 5)

Table 5.8.3) Understory vegetation survey: Zhunhai (China)

Plot name: Zhunhai 3 (*Acacia confusa* forest in Zhuxian Park)

Date: 30 September 2014

Surveyor: Zhuang Xueying, Zhuang Xueying, Huang Jiuxiang, Xu Ruijing, Zeng Sijin, Wang Pan, Liu Qiang,Liu Xin, Ma Dingwen, Hong Wenjun (College of Forestry, SCAU)

Number of Species: 15

Scientific name (Local name)	Abundance
Machilus velutina	＞1000
Breynia fruticosa	1
Benkara depauperata	2
Rubus alceifolius	5
Embelia ribes	2
Rhodomyrtus tomentosa	2
Helicteres angustifolia	1
Glochidion eriocarpum	1
Dicranopteris pedata	5
Adiantum flabellulatum	+
Lygodium flexuosum	+
Blechnum orientale	+
Gnetum parvifolium	1

NC is checking the meaning of these values (abundance should be +, or 1 - 5)

Figure 5.3.1 Banryu2 (Japan)

North

South

West

East

Figure 5.3.2 Iwami Rinku Factory Park (Japan)

North

South

West

East

Figure 5.3.3 Ijira (Japan)

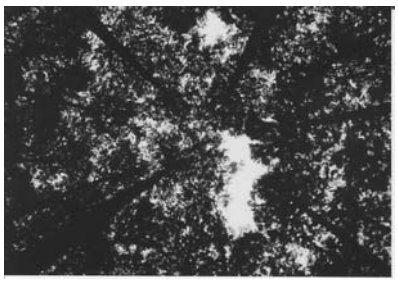
North

South

West

East

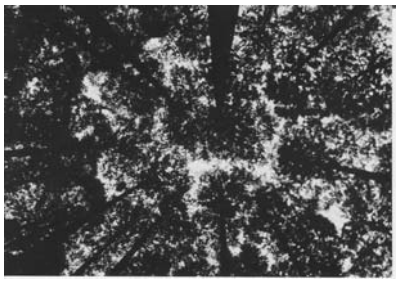
Figure 5.3.4 Yamato (Japan)



North

South

West



East

Figure 5.3.5 Bogor (Indonesia)

View 1

View 2

View 3

View 4

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 carried out the monitoring basically according to the Technical Manual for Monitoring on Inland Aquatic Environment (2000), although the latest version of the manual 2010 came to be available in 2014.

Items specified in the technical manual (2000) include water temperature, pH, electric conductivity (EC), alkalinity and concentration of SO_4^{2-}, NO_3^-, Cl^-, NH_4^+, Na^+, K^+, Ca^{2+}, and Mg^{2+} of targeted lakes/rivers at least four times a year (seasonally), and transparency, water color, DOC (if impossible, COD), NO_2^-, PO_4^{3-} more than once a year while some other optional items are specified to be monitored. In near future, it is expected that some additional items (*i.e.* Chlorophyll a, T-P, T-N, DO) will be adopted as mandatory parameters according to the new manual (2010) at each laboratory.

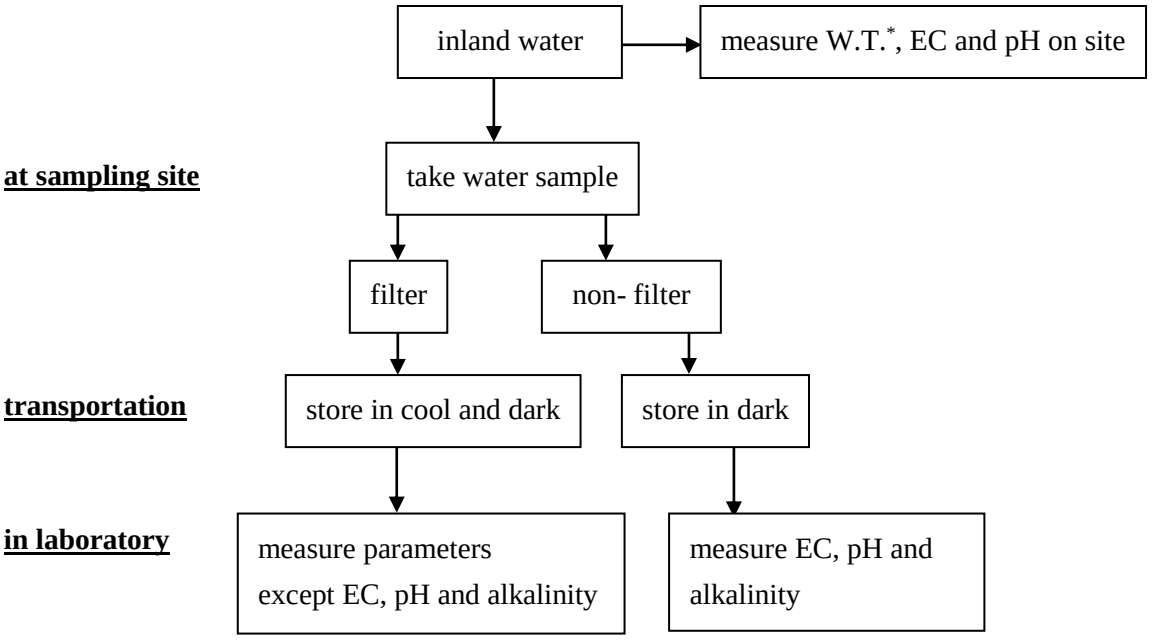
6.1.1 Selection of Sampling Sites

According to the technical manual (2000), the lakes chosen for monitoring should be harmonic type lakes, preferably with depths of approximately 10 m or less, a water residence time of 1 year or less, an area of 1 ha or more, with low alkalinity and electric conductivity, minimal anthropogenic water pollution and no coverage of the surface with aquatic organisms. For the monitoring sites, it is desirable to locate in nature protection areas, and human activities such as deforestation, and cultivation should be few and far between in the upstream area.

6.1.2 Field Operation

Surface water is sampled at one location at the center of the lake or river. In principle, measurements of pH and electric conductivity (EC) are conducted at the site before a more

precise measurement is taken in the laboratory. Water samples for further analyses 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 pH, EC and 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 inland 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. In addition, with regard to alkalinity, the Gran's plot titration method is adopted newly and recommended as a measurement parallel to the end-point pH 4.8 method in the latest version of the manual 2010.

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, 10 countries (Cambodia, China, Indonesia, Japan, Malaysia, Mongolia, Philippines, Russia, Thailand and Vietnam) carried out inland aquatic environment monitoring. The monitoring sites were established in 13 lakes/reservoirs and 6 streams. For 2014, the data of Terelj River has not been submitted yet. Properties of all the monitoring sites are shown on Table 6.3. However, more information should be appended to these tables in the future.

Table 6.2 Outline of Inland Aquatic Environment Monitoring of 2014

Country	Name of site	Distance from the site	Nearest deposition monitoring site	Start year	Interval
Cambodia	Sras Srang Lake (Kampong Speu province)	-	Remote	2012	2 times/yr.
China	Jinyunshan Lake (Chongqing)	-	Rural	2001	4 times/yr.
	Xiaoping Dam (Xiamen)	-	Remote	2001	4 times/yr.
	Jiwozi River (Xi'an)	-	Remote	2001	4 times/yr.
	Zhuxiandong Stream (Zhuhai)	-	Urban	2004	4 times/yr.
Indonesia	Patengang Lake (Bandung)	47 km	Urban	2001	4 times/yr.
	Gunung Lake (Sukabumi)	-	-	2008	4 times/yr.
Japan	Ijira Lake (Gifu Pref.)	1.1 km	Rural/Ecolog. (Ijira)	2001	4 times/yr.
	Banryu Lake (Shimane Pref.)	0.5 km	Urban/Ecolog. (Banryu)	2001	4 times/yr.

Lao PDR	Nam Hum Lake (Vientiane province)	-	Vientiane	2009	4 times/yr.
Malaysia	Semenyih Dam	26 km	Urban (Petaling Jaya)	2005	3 times/yr.
	Tembaling River (Sabah)	-	Remote (Danum Valley)	2007	4 times/yr.
Mongolia	Terelj River	-	Remote (Terelj)	2002	4 times/yr.
Philippines	Pandin Lake	30 km	Rural (Mt. Makiling)	2004	4 times/yr.
	Ambulalakaw Lake	-	Remote (Mt. Sto. Tomas)	2005	4 times/yr.
Russia	Pereemnaya River (Listvyanka)	48 km	Rural (Listvyanka)	2004	4 times/yr.
	Komarovka River (Primorskaya)	0.5 km	Rural (Primorskaya)	2005	5 times/yr.
Thailand	Vachiralongkorn Dam (Kanchanaburi Province)	-	Remote	2002	4 times/yr.
Vietnam	Hoa Binh Reservoir	-	Rural	2001	4 times/yr.

6.2 Results of Monitoring

The results of monitoring of each parameter are shown in Table 6.4(1) to (11). Data within or exceeded the criteria of R_1 and R_2 are judged and marked as "O" or "×" in these tables respectively according to the QA/QC Program for Monitoring on Inland Aquatic Environment in East Asia. The annual mean values of each monitoring sites are summarized in Table 6.4 (12).

There were two sites (Ambulalakaw Lake in Philippines and Vachiralongkorn Dam in Thailand) which have results exceeding allowable range of R_1 and/or R_2. However, those main reasons could not be identified.

The annual mean values of each parameter from 2000 to 2014 are shown in Table 6.5(1) to (20).

Table 6.3(1) Properties of lakes or streams

Lake/Stream: Sras Srang Lake

Country	Cambodia
Location	KIRIRUM national Park, Kampong Speu province
Latitude and longitude	11° 19’ 69.29” N, 104° 2’ 22.97” E
Altitude	800 m
Origin	-
Area and shape	10,403 m^2
Shore line length	-
Lake hydrologic type	-
Lake trophic type	-
Water depth	-
Water volume	-
Annual water level fluctuation	-
Annual air temperature	-
Precipitation	-
Sunshine duration	-
Solar radiation	-
Wind speed	-
Wind direction	-
Residence time of water	-
Lake utilization	-
Watershed area	-
River (inflow)	-

- : no information

Table 6.3(2) Properties of lakes or streams

Lake Name: Jinyunshan Lake

Country	China
Location	Chongqing Prefecture
Altitude	-
Origin	Artificial lake
Area and shape	0.999 ha
Shore line length	About 2 km
Lake hydrologic type	Reservoir
Lake trophic type	Oligotrophic to Mesotrophic
Water depth	6-13 m
Water volume	60,000 m^3
Annual water level fluctuation	2-4 m
Annual air temperature	19.8°C (mean) *1
Precipitation	1,026.9 mm/year *1
Sunshine duration	85.6 hrs/month (mean) *1
Solar radiation	-
Wind speed	Mean 1.4 m/s *1
Wind direction	S (dominant) *2
Residence time of water	-
Lake utilization	For drink, Irrigation water
Watershed area	-
River (inflow)	-

- : no information

*1 Chongqing, 2013

*2 Chongqing, 2012

Table 6.3(3) Properties of lakes or streams

Lake Name: Xiaoping Dam

Country	China
Location	Xiaoping, Xiamen
Altitude	595 m
Origin	Artificial lake
Area and shape	26.4 ha
Shore line length	100 m
Lake hydrologic type	Natural
Lake trophic type	Normal
Water depth	57.5 m
Water volume	4,080,000 m^3
Annual water level fluctuation	-
Annual air temperature	21.3°C (mean) *1
Precipitation	1,084.5 mm/year *1
Sunshine duration	164.3 hrs/month (mean) *1
Solar radiation	-
Wind speed	Mean 2.4 m/s *1
Wind direction	E and ENE (dominant) *1
Residence time of water	15 days
Lake utilization	Water power
Watershed area	18.1 km^2
River (flows into)	Dingxi lake

- : no information

*1 Xiamen, 2014

Table 6.3(4) 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	15.2℃ (mean) *1
Precipitation	660.2 mm/year *1
Sunshine duration	161.8 hrs/month (mean) *1
Solar radiation	-
Wind speed	Mean 2.3 m/s *1
Wind direction	NE(dominant) *1
Lake (flows into)	-

- : no information

*1 Xi'an, 2014

Table 6.3(5) 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	23.2℃ (mean) *1
Precipitation	1,891.3 mm *1
Sunshine duration	176.3 hrs/month (mean) *1
Solar radiation	-
Wind speed	Mean 2.5 m/s *1
Wind direction	ESE (dominant) *1
Lake (flows into)	-

- : no information
*1 Zhuhai, 2014

The monitoring had conducted between 2001 and 2003 at Zhuxiandong reservoir, after that, Zhuxiandong Stream was selected as a new site for inland water monitoring in 2004. This site is located in the upper stream of Zhuxiandong Reservoir. Therefore continuous monitoring has been conducted from 2004 at Zhuxiandong Stream.

Table 6.3(6) Properties of lakes or streams

Lake Name: Patengang Lake

Country	Indonesia
Location	Bandung
Altitude(including watershed)	1600-1700 m
Origin	Natural lake
Area and shape	65 km^2
Shore line length	-
Lake hydrologic type	-
Lake trophic type	-
Water depth	7 m (max)
Water volume	4.98 x 10^6 m^3
Annual water level fluctuation	1.42 m-4.20 m
Annual air temperature	24.0°C (mean) *1
Precipitation	3,011.8 mm *1
Sunshine duration	-
Solar radiation	406.6 MJ/m^2/month (mean) *1
Wind speed	Mean 1.3 m/s *1
Wind direction	SSW (dominant) *1
Residence time of water	-
Lake utilization	Sightseeing
River (inflow)	-

Watershed area	650 km^2
Vegetation (dominant plants)	Strawberry, tea

- : no information

*1 Bandung, 2014

Table 6.3(7) Properties of lakes or streams

Lake Name: Gunung Lake

Country	Indonesia
Location	Sukabumi, West Java
Altitude (including watershed)	950-1036 m
Origin	Natural lake
Area and shape	9.5 ha
Shore line length	-
Lake hydrologic type	Reservoir
Lake trophic type	Eutrophic
Water depth	Ave 2.75 m (< 10 m)
Water volume	-
Annual water level fluctuation	-
Precipitation	-
Sunshine duration	-
Solar radiation	-
Wind speed	-
Wind direction	-
Residence time of water	-
Lake utilization	Irrigation
River (inflow)	1

Watershed area	120 ha
Vegetation (dominant plants)	Pine Tree, *Agathis Damara*
Land uses	Agricultural area (5%), Residential area (1%, population <500)

- : no information

Table 6.3(8) Properties of lakes or streams

Lake Name: Ijira Lake

Country	Japan
Location	Gifu prefecture
Altitude	110 m
Origin	Artificial (dam-made lake)
Area and shape	0.1 km^2
Shore line length	1.8 km
Lake hydrologic type	Reservoir
Lake trophic type	Oligotrophic or mesotrophic
Water depth	Ave. 5.4 m (Max 10.9 m)
Water volume	0.00054 km^3
Annual water level fluctuation	0-0.74 m (Ave. 0.22 m)
Annual air temperature	16.1℃ (mean) *1
Precipitation	1,719.0 mm/year *1
Sunshine duration	184.1 hrs/month (mean) *1
Solar radiation	-
Wind speed	Mean 2.7 m/s *1
Wind direction	NW(dominant) *1
Residence time of water	23 days
Lake utilization	Irrigation and fishing
River (inflow)	Kamagatani River, Kobora River

Watershed area	5.4 km^2
Surface geology	Chert
Vegetation (dominant plants)	*Pinus densiflora, Chamaecyparis obtuse, Cryptomeria japonica*

*1 Gifu Local Meteorological Observatory, 2014

Table 6.3(9) Properties of lakes or streams

Lake Name: Banryu Lake

Country	Japan
Location	Shimane prefecture
Altitude	25 m
Origin	Natural damming lake
Area and shape	0.13 km^2
Shore line length	5.7 km
Lake hydrologic type	Reservoir
Lake trophic type	Mesotrophic
Water depth	Ave. 8-8.5 m
Water volume	Unknown (Max 500,000 m^3)
Annual water level fluctuation	0-1.1 m
Annual air temperature	15.5℃ (mean) *1
Precipitation	1,518.5 mm/year *1
Sunshine duration	139.3 hrs/month (mean) *1
Solar radiation	-
Wind speed	Mean 1.7 m/s *1
Wind direction	S (dominant) *1
Residence time of water	222 days (2004)
Lake utilization	Irrigation and sightseeing
River (inflow)	None

- : no information

*1 Masuda AMeDAS of Japan Meteorological Agency, 2014

Watershed area	0.73 km^2
Surface geology	Grave, sand, clay
Vegetation (dominant plants)	*Pinus thunbergii, Pinus densiflora*

Table 6.3(10) Properties of lakes or streams

Lake Name: Nam Hum Lake

Country	Lao PDR
Location	Vientiane Province
Latitude and longitude	18° 10’44.41” N, 102° 27’35.45” E
Altitude	185m
Area and shape	
Shore line length	
Lake hydrologic type	
Lake trophic type	
Water depth	
Water volume	
Annual water level fluctuation	
Precipitation	
Solar radiation	
Wind speed	
Wind direction	
Residence time of water	
Lake utilization	
Watershed area	
River (inflow)	

- : no information

Table 6.3(11) Properties of lakes or streams

Lake Name: Semenyih Dam

Country	Malaysia
Location	
Altitude	30 m
Origin	Dam
Area and shape	3.6 km^2
Shore line length	800 m
Lake hydrologic type	Reservoir
Lake trophic type	-
Water depth	Mean: 110 m
Water volume	-
Annual water level fluctuation	-
Annual air temperature	-
Precipitation	-
Sunshine duration	-
Solar radiation	-
Wind speed	-
Wind direction	-
Residence time of water	More than 1 year
Lake utilization	-
Watershed area	-
River (inflow)	-

- : no information

Table 6.3(12) Properties of lakes or streams

Lake Name: Tembaling River

Country	Malaysia
Location	Danum Valley, Sabah
Latitude and longitude	04° 57’ N, 117° 48’ E
Altitude	-
Origin	Natural stream
Water depth	-
Water Volume	-
Watershed area	-
River length	-
Drainage area	-
The mean height of the river basin	-
Annual air temperature	-
Precipitation	6056.0 mm *1
Sunshine duration	-
Solar radiation	-
Wind speed	-
Wind direction	-
River (meet in 10m from sampling point)	Segama river

- : no information

*1 Danum Valley, 2012

Table 6.3(13) Properties of lakes or streams

Lake Name: Terelj River

Country	Mongolia
Location	Terelj
Origin	Natural stream
River length	65 km
Drainage area	1220 km^2
The mean height of the river basin	-
Annual air temperature	-5.1℃ (mean) *1
Precipitation	351.6 mm *1
Sunshine duration	-
Solar radiation	-
Wind speed	Mean 1.8 m/s *1
Wind direction	WWS (dominant) *1
Lake (flows into)	-

- : no information

*1 Terelj, 2012

Table 6.3(14) Properties of lakes or streams

Lake Name: Pandin Lake

Country	Philippines
Location	San Pablo City
Altitude	200m
Origin	Natural lake
Area and shape	0.24km^2
Shore line length	-
Lake hydrologic type	-
Lake trophic type	oligatrophic
Water depth	61.75m(mean), 63m(max)
Water volume	6600 m^3
Annual water level fluctuation	-
Precipitation	-
Solar radiation	-
Wind speed	-
Wind direction	-
Residence time of water	-
Lake utilization	domestic, electric power and tourism
Watershed area	-
River (inflow)	-

- : no information

Table 6.3(15) Properties of lakes or streams

Lake Name: Ambulalakao Lake

Country	Philippines
Location	Kabayan, Benguet
Altitude	2400 m
Origin	Natural lake
Area and shape	0.006087 km^2
Shore line length	-
Lake hydrologic type	-
Lake trophic type	-
Water depth	1.5 m (mean), 4.0 m (max), 0.2 m (min)
Water volume	11476 m^3
Annual water level fluctuation	-
Annual air temperature	-
Precipitation	-
Sunshine duration	-
Solar radiation	-
Wind speed	-
Wind direction	-
Residence time of water	-
Lake utilization	Tourism
Watershed area	-
River (inflow)	-

- : no information

Table 6.3(16) Properties of lakes or streams

Stream Name: Pereemnaya River

Country	Russia
Location	Southern Baikal
Origin	Natural stream
Altitude(including watershed)	460 m-1500 m
Water depth	0.9 m (mean), 2 m (max)
River length	42 km
Drainage area	About 360 km^2
The mean height of the river basin	1,260 m
Annual air temperature	-
Precipitation	About 800 mm/year
Sunshine duration	-
Solar radiation	-
Wind speed	-
Wind direction	-
Lake (flows into)	Kholodnoe lake

Watershed area	About 360 km^2
Surface geology	Archaean rocks, presented mainly by gneisses, crystal schists, andpegmatites
Vegetation (dominant plants)	The larger part of the basin belongs to the zone of mountain-taiga soils. The lower taiga border begins from the lake's shore, and the upper border rises up to 900-1800 m depending on the slopes exposition. Above, within loach zone, waste-mountain landscapes with undersized motley grass and lichens prevail. Coniferous forest

- : no information

Table 6.3(17) Properties of lakes or streams

Stream Name: Komarovka River

Country	Russia
Location	Primorskli Kray, Ussuriyskii district, near Kamenushka settlement
Latitude	43°42’ N
Altitude	386 m
Origin	Natural stream
Water depth	Mean 0.8 m Maximum 1.5 m
Water discharge	0.14 m^3/sec
River length	66 km
Drainage area	-
Annual air temperature	-
Precipitation	737 mm/year (2005)
Sunshine duration	-
Solar radiation	-
Wind speed	1.1-2.2 (mean 1.7) m/s (2005)
Wind direction	E, NE
Lake (flows into)	River Razdolnaya, Amurskiy Bay

Watershed area	About 1490 km^2
Surface geology Rocks, sandstones, clayey schist	Rocks, sandstones, clayey schist
Soil type Mountain	Mountain- forest brown type of soil
Vegetation (dominant plants)	Komarovka valley is situated near Komarovskiy reserve surrounded by hills which protect the site from winds. The valley is covered by the mixed forest from broad-leaves to conifer.
Population	About 2000

- : no information

Table 6.3(18) Properties of lakes or streams

Lake Name: Vachiralongkorn Dam

Country	Thailand
Location	Kanchanaburi Province
Latitude	14°46’ N
Altitude	170 m
Origin	Artificial (Dam made lake)
Area and shape	3,720 km^2
Shore line length	-
Lake hydrologic type	Reservoir
Lake trophic type	-
Water depth	138.8-150.5 m (mean: 143.8 m) (2014)
Water volume	3.836-7.219 km^3 (mean: 5.155 km^3) (2014)
Annual water level fluctuation	Depth: 4.2 m (2010)
Annual air temperature	-
Precipitation	1941.4 mm/year *1
Sunshine duration	-
Solar radiation	-
Wind speed	0.02-0.26 (Ave. 0.07) m/s (2011)
Wind direction	-
Residence time of water	165 days
Lake utilization	Irrigation, Electric power, Fishery, Flooding protection and Sight seeing
Watershed area	3,720 km^2
River (inflow)	

- : no information

*1 Thongpaphum Meteorological station, 2011

Table 6.3(19) Properties of lakes or streams

Lake Name: Hoa Binh Reservoir

Country	Vietnam
Location	Hoa Binh Province
Altitude	23 m
Origin	Artificial (dam-made lake)
Area and shape	208 km^2 -25 km^2 *1
Shore line length	208 km-16.7 km *1
Lake hydrologic type	Reservoir
Lake trophic type	Mesotrophic
Water depth	60 m (max: 120 m)
Water volume	9.45 km^3-2.5 km^3 *1
Annual water level fluctuation	80 m-120 m (Ave.100 m)
Annual air temperature	24.2°C (mean) *2
Precipitation	1,303.2 mm *2
Sunshine duration	133.7 hrs/month (mean) *2
Solar radiation	-
Wind speed	Mean 1.1 m/s *2
Wind direction	N (dominant) *2
Residence time of water	365 days
Lake utilization	Electric power and flood control
Watershed area	51,700 km^2-13,700 km^2 *1
River (inflow)	Da River

- : no information

*1 Second value is in affected area of reservoir.

*2 Hoa Binh, 2014

Table 6.4(1) Result of Inland Aquatic Environment Monitoring

Duration: 2014.1.-2014.6.
Country: Cambodia
Lake/Stream: Sras Srang Lake

		Mandatory Parameters: 4 times/year												Mandatory Parameters: Once/year				Optional Parameters
Site	Sampling Date	Temp. (^{o}C)	pH	EC (mS/m)	Alkalinity (meq/L)	SO_4^{2-} (mg/L)	NO_3^{-} (mg/L)	Cl^{-} (mg/L)	NH_4^{+} (mg/L)	Na^{+} (mg/L)	K^{+} (mg/L)	Ca^{2+} (mg/L)	Mg^{2+} (mg/L)	Transparency (m)	PO_4^{3-} (mg/L)	NO_2^{-} (mg/L)	COD (mg/L)	DO (mg/L)
Sras Srang Lake	Jan-14	27.0	5.81	0.93	0.031	0.04	0.32	1.30	0.14	0.92	0.31	0.24	0.13	0.7	-	-	-	7.2
	Jun-14	28.7	5.88	0.98	0.040	0.08	0.88	1.46	0.11	1.13	0.31	0.27	0.10	0.7	-	-	-	7.2
	mean*1	-	5.84	0.96	0.035	0.06	0.60	1.38	0.12	1.03	0.31	0.26	0.12	0.7	-	-	-	7.2

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

		Anion	Cation	R1	Judge	Acalc	R2	Judge
Sras Srang Lake	Jan-14	73.3	79.8	4.2	O	0.96	1.4	O
	Jun-14	96.8	86.6	-5.6	O	1.13	6.8	O

Table 6.4(2) Result of Inland Aquatic Environment Monitoring

Duration: 2014.3.-2014.12.
Country: China
Lake/Stream: (See below)

		Mandatory Parameters : 4 times/year												Mandatory Parameters : Once /year				
Site	Sampling Date	Temp. (°C)	pH	EC (mS/m)	Alkalinity (meq/L)	SO_4^{2-} (mg/L)	NO_3^- (mg/L)	Cl^- (mg/L)	NH_4^+ (mg/L)	Na^+ (mg/L)	K^+ (mg/L)	Ca^{2+} (mg/L)	Mg^{2+} (mg/L)	Transparency (m)	Water Color	PO_4^{3-} (mg/l)	NO_2^- (mg/l)	COD (mg/l)
Chongqing -Jinyunshan Lake	30-Mar-14	15.5	5.50	14.01	0.042	39.05	17.97	3.08	0.06	2.62	2.12	12.74	4.22	5.7	-	-	-	-
	28-Jun-14	21.0	5.53	12.59	0.018	36.18	12.07	2.66	0.10	2.85	2.21	13.25	3.78	6.5	-	-	-	-
	08-Sep-14	24.0	5.42	11.38	0.023	32.56	15.00	2.30	0.10	1.96	2.17	10.59	3.39	8.0	-	-	-	-
	14-Dec-14	11.0	5.24	11.56	0.079	31.95	12.15	2.57	0.10	2.73	2.05	10.76	3.68	4.9	-	*1	*1	-
	mean*2	-	5.41	12.39	0.040	34.94	14.30	2.65	0.09	2.54	2.14	11.84	3.77	6.3	-	*1	*1	-
Xiamen -Xiaoping Dam	03-Mar-14	14.6	7.25	5.57	0.240	2.73	3.67	2.13	0.07	3.28	2.36	3.08	0.86	0.6	-	-	0.020	1.7
	04-May-14	22.0	7.32	6.82	0.248	4.58	4.17	4.27	0.03	3.33	3.38	5.12	0.96	1.2	-	-	0.033	1.5
	02-Jul-14	26.8	6.97	5.18	0.163	4.27	2.87	1.83	0.04	3.33	2.09	3.14	0.62	1.0	-	-	0.010	1.4
	03-Nov-14	24.3	7.27	5.57	0.225	3.27	3.42	2.32	0.05	2.40	2.61	3.46	0.91	0.8	-	0.04	0.015	1.4
	mean*2	-	7.18	5.79	0.219	3.71	3.53	2.64	0.05	3.09	2.61	3.70	0.84	0.9	-	0.04	0.020	1.5
Xi'an -Jiwozi River	25-Mar-14	4.0	7.26	9.07	0.300	20.23	1.99	0.83	0.35	1.97	0.93	10.72	1.89	-	-	-	-	-
	26-Jun-14	16.2	7.68	8.50	0.310	18.89	1.76	1.53	0.54	2.05	1.01	9.93	1.89	-	-	-	-	-
	20-Sep-14	12.5	6.87	8.06	0.220	14.38	0.65	1.22	0.19	1.14	1.29	8.98	1.32	-	-	-	-	-
	05-Nov-14	5.5	6.83	7.32	0.260	9.90	0.73	1.68	*1	2.56	0.99	6.99	1.36	-	-	<0.01*1	<0.003*1	4.0
	mean*2	-	7.05	8.24	0.273	15.85	1.28	1.32	0.27	1.93	1.06	9.15	1.61	-	-	<0.01*1	<0.003*1	4.0
Zhuhai -Zhuxiandong Stream	01-Mar-14	18.4	7.19	8.93	0.524	7.10	5.91	4.41	0.01	6.39	2.27	5.43	1.94	-	-	-	-	-
	01-Jun-14	24.1	7.36	8.52	0.515	6.67	5.01	4.27	0.03	6.52	1.74	5.01	3.55	-	-	-	-	-
	01-Aug-14	25.2	7.26	8.24	0.481	2.83	4.00	3.25	0.02	6.37	1.44	5.26	2.23	-	-	-	-	-
	02-Dec-14	17.3	7.03	7.38	0.489	1.95	4.26	3.06	0.02	6.41	1.32	5.18	2.41	-	-	-	-	-
	mean*2	-	7.19	8.27	0.502	4.64	4.80	3.75	0.02	6.42	1.69	5.22	2.53	-	-	-	-	-

note
- : Items were not analyzed.
*1: Less than determination limit.
*2: Mean of pH takes an average of hydrogen ion.
When the value is under detection limit, it considers "0". Then the average and R1R2 were calculated by using i

		Anion	Cation	R1	Judge	Acalc	R2	Judge
Chongqing -Jinyunshan Lake	30-Mar-14	1231.4	1157.4	-3.1	O	16.18	7.2	O
	28-Jun-14	1040.8	1161.0	5.5	O	14.86	8.3	O
	8-Sep-14	1007.7	957.3	-2.6	O	13.40	8.2	O
	14-Dec-14	1012.3	1022.0	0.5	O	13.67	8.4	O
Xiamen -Xiaoping	3-Mar-14	416.5	431.4	1.8	O	4.89	-6.5	O
	4-May-14	531.8	567.4	3.2	O	6.60	-1.7	O
	2-Jul-14	350.0	408.3	7.7	O	4.51	-6.9	O
	3-Nov-14	415.3	421.5	0.7	O	4.92	-6.2	O
Xi'an -Jiwozi	25-Mar-14	776.7	819.7	2.7	O	9.89	4.3	O
	26-Jun-14	774.7	796.4	1.4	O	9.71	6.6	O
	20-Sep-14	564.4	649.2	7.0	O	7.54	-3.3	O
	5-Nov-14	525.1	596.8	6.4	O	6.68	-4.6	O
Zhuhai -Zhuxiandong Stream	1-Mar-14	891.5	767.1	-7.5	O	9.44	2.8	O
	1-Jun-14	855.1	871.8	1.0	O	9.71	6.5	O
	1-Aug-14	696.1	760.9	4.4	O	7.99	-1.5	O
	2-Dec-14	684.6	770.5	5.9	O	7.91	3.5	O

Table 6.4(3) Result of Inland Aquatic Environment Monitoring

Duration: 2014.3.-2014.11.
Country: Indonesia
Lake/Stream: (See below)

		Mandatory Parameters: 4 times/year												Mandatory Parameters: Once/year				
Site	Sampling Date	Temp. (^{o}C)	pH	EC (mS/m)	Alkalinity (meq/L)	SO_4^{2-} (mg/L)	NO_3^- (mg/L)	Cl^- (mg/L)	NH_4^+ (mg/L)	Na^+ (mg/L)	K^+ (mg/L)	Ca^{2+} (mg/L)	Mg^{2+} (mg/L)	Transparency (m)	Water Color (PtCo unit)	PO_4^{3-} (mg/L)	NO_2^- (mg/L)	DOC (mg/L)
Patengang Lake	3-Mar-14	20.4	7.01	5.73	0.230	11.40	0.44	2.70	0.04	2.40	0.94	4.70	2.40	1.6	2.0	*1	0.010	4.3
	24-Apr-14	24.3	8.12	5.86	0.400	5.60	0.04	2.00	0.49	2.70	1.00	5.60	1.80	1.9	2.8	0.015	0.005	4.6
	24-Jun-14	22.6	7.39	6.59	0.388	7.35	0.04	3.50	1.31	2.80	1.20	5.00	3.00	2.0	4.8	*1	0.017	4.9
	19-Sep-14	20.5	7.85	6.57	0.420	6.80	0.04	2.00	0.04	3.50	1.40	6.30	2.00	0.8	*1	0.019	0.003	8.3
	12-Nov-14	22.2	8.16	6.20	0.346	4.60	0.04	2.00	0.46	3.60	1.20	2.90	1.10	-	4.9	0.015	*1	12.0
	mean*2	-	7.48	6.19	0.357	7.15	0.12	2.44	0.47	3.00	1.15	4.90	2.06	1.6	2.9	0.010	0.007	6.8
Gunung Lake	4-Mar-14	24.1	7.21	3.40	0.240	3.40	0.04	2.70	0.04	4.30	0.76	1.60	0.60	0.8	8.9	0.015	0.004	4.0
	25-Jun-14	25.1	6.53	4.75	0.240	4.60	0.04	2.00	0.41	2.20	0.76	2.80	1.40	1.2	9.6	*1	*1	12.0
	18-Sep-14	25.1	7.20	4.52	0.340	5.00	0.04	1.00	0.04	2.84	1.50	4.00	1.00	0.9	2.0	0.065	0.007	7.3
	14-Nov-14	22.2	7.98	3.18	0.172	3.20	0.04	1.00	0.04	1.60	0.44	2.20	0.69	1.0	9.5	*1	0.003	12.0
	mean*2	-	6.97	3.96	0.248	4.05	0.04	1.68	0.13	2.74	0.87	2.65	0.92	1.0	7.5	0.020	0.004	8.8

note
- : Items were not analyzed.
*1: Less than detection limit.
*2: Mean of pH takes an average of hydrogen ion.

		Anion	Cation	R1	Judge	Λcalc	R2	Judge
Patengang Lake	3-Mar-14	550.8	562.4	1.0	O	6.73	8.0	O
	24-Apr-14	574.2	597.6	2.0	O	6.59	5.8	O
	24-Jun-14	640.8	721.4	5.9	O	7.89	9.0	O
	19-Sep-14	619.3	668.9	3.8	O	7.24	4.8	O
	12-Nov-14	499.3	448.0	-5.4	O	5.29	-7.9	O
Gunung Lake	4-Mar-14	388.2	337.7	-6.9	O	4.06	8.9	O
	25-Jun-14	392.8	393.0	0.0	O	4.52	-2.5	O
	18-Sep-14	475.2	445.8	-3.2	O	5.13	6.3	O
	14-Nov-14	267.5	249.4	-3.5	O	2.92	-4.2	O

Table 6.4(4) Result of Inland Aquatic Environment Monitoring

Duration: 2014.4.-2015.1.
Country: Japan
Lake/Stream: Ijira Lake

		Mandatory Parameters : 4times/year														Mandatory Parameters : Once/year						Optional Parameters
Site	Sampling Date	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)	Site	Sampling Date	Transparency (m)	Water Color (Forel-Ule Scale)	Water Color (sample)	PO_4^{3-} (mg/L)	NO_2^- (mg/L)	DOC (mg/L)	Chl-a (μg/L)
Center (Surface)	23-Apr-14	15.1	7.09	3.87	0.142	5.14	0.87	1.93	<0.01*1	1.88	0.23	2.51	1.17	Center (Surface)	23-Apr-14	2.0	14	clear, colorless	<0.1*1	<0.01*1	0.5	1.5
	16-Jul-14	24.3	6.97	3.45	0.123	4.20	1.48	1.74	<0.01*1	1.68	0.33	2.01	1.04		16-Jul-14	1.4	14	clear, colorless	-	<0.01*1	-	2.6
	08-Oct-14	20.1	7.27	3.76	0.149	4.18	1.36	1.74	<0.01*1	1.84	0.29	2.38	1.12		08-Oct-14	2.2	15	clear, colorless	-	<0.01*1	-	2.7
	07-Jan-15	6.1	6.99	3.86	0.147	5.15	1.16	2.04	<0.01*1	1.90	0.22	2.45	1.17		07-Jan-15	2.2	16	clear, colorless	-	<0.01*1	-	6.0
	mean*2	16.4	7.06	3.73	0.140	4.67	1.21	1.86	<0.01*1	1.82	0.27	2.34	1.12		mean	1.9	-	-	<0.1*1	<0.01*1	0.5	3.2
Center (near bottom)	23-Apr-14	12.3	6.93	3.95	0.143	5.35	0.93	1.94	0.02	1.89	0.24	2.60	1.22	Center (near bottom)	23-Apr-14	-	-	clear, colorless	<0.1*1	<0.01*1	0.5	3.5
	16-Jul-14	18.6	6.76	3.68	0.138	4.16	1.56	1.77	0.04	1.71	0.34	2.11	1.14		16-Jul-14	-	-	clear, colorless	-	<0.01*1	-	0.6
	08-Oct-14	18.5	6.62	4.25	0.187	4.29	1.32	1.77	0.14	1.87	0.31	2.62	1.42		08-Oct-14	-	-	clear, colorless	-	0.02	-	2.7
	07-Jan-15	6.0	7.02	3.82	0.146	5.09	1.10	2.04	<0.01*1	1.92	0.22	2.41	1.16		07-Jan-15	-	-	clear, colorless	-	<0.01*1	-	11.1
	mean*2	13.9	6.81	3.92	0.153	4.72	1.23	1.88	0.05	1.85	0.28	2.43	1.23		mean	-	-	-	<0.1*1	<0.01*1	0.5	4.5
Kamagatani River (Input)	23-Apr-14	12.8	6.99	4.40	0.144	6.67	1.33	1.95	<0.01*1	2.07	0.25	2.81	1.41	Kamagatani River (Input)	23-Apr-14	-	-	clear, colorless	<0.1*1	<0.01*1	0.2	-
	16-Jul-14	19.0	7.05	3.85	0.131	5.12	1.51	1.87	<0.01*1	1.87	0.30	2.19	1.20		16-Jul-14	-	-	clear, colorless	-	<0.01*1	-	-
	08-Oct-14	17.5	7.15	4.16	0.140	5.67	1.74	1.85	<0.01*1	2.01	0.27	2.56	1.31		08-Oct-14	-	-	clear, colorless	-	<0.01*1	-	-
	07-Jan-15	6.7	7.00	3.82	0.118	5.56	1.86	1.95	<0.01*1	1.83	0.23	2.23	1.23		07-Jan-15	-	-	clear, colorless	-	<0.01*1	-	-
	mean*2	14.0	7.04	4.06	0.133	5.75	1.61	1.90	<0.01*1	1.94	0.26	2.45	1.29		mean	-	-	-	<0.1*1	<0.01*1	0.2	-
Kobora River (Input)	23-Apr-14	10.7	7.04	4.02	0.147	5.27	0.91	2.09	<0.01*1	2.37	0.23	2.03	1.43	Kobora River (Input)	23-Apr-14	-	-	clear, colorless	<0.1*1	<0.01*1	0.3	-
	16-Jul-14	19.0	6.97	3.53	0.131	4.34	0.99	1.95	<0.01*1	2.14	0.28	1.59	1.19		16-Jul-14	-	-	clear, colorless	-	<0.01*1	-	-
	08-Oct-14	16.7	6.97	3.66	0.124	4.51	1.44	1.97	<0.01*1	2.26	0.25	1.71	1.23		08-Oct-14	-	-	clear, colorless	-	<0.01*1	-	-
	07-Jan-15	6.1	6.92	3.26	0.110	4.34	1.24	2.03	<0.01*1	2.04	0.20	1.44	1.11		07-Jan-15	-	-	-	-	<0.01*1	-	-
	mean*2	13.1	6.97	3.62	0.128	4.61	1.14	2.01	<0.01*1	2.20	0.24	1.69	1.24		mean	-	-	-	<0.1*1	<0.01*1	0.3	-
Ijira River (Output)	23-Apr-14	16.1	7.08	3.90	0.146	5.14	0.83	1.95	<0.01*1	1.90	0.23	2.57	1.15	Ijira River (Output)	23-Apr-14	-	-	clear, colorless	<0.1*1	<0.01*1	0.5	-
	16-Jul-14	23.5	7.12	3.52	0.129	4.32	1.39	1.77	<0.01*1	1.70	0.34	2.06	1.04		16-Jul-14	-	-	clear, colorless	-	<0.01*1	-	-
	08-Oct-14	21.8	7.28	3.91	0.159	4.23	1.33	1.90	<0.01*1	1.96	0.32	2.57	1.12		08-Oct-14	-	-	clear, colorless	-	<0.01*1	-	-
	07-Jan-15	6.1	7.04	3.89	0.143	5.22	1.24	2.07	<0.01*1	1.92	0.22	2.50	1.20		07-Jan-15	-	-	clear, colorless	-	<0.01*1	-	-
	mean*2	16.9	7.12	3.80	0.144	4.73	1.20	1.92	<0.01*1	1.87	0.28	2.42	1.12		mean	-	-	-	<0.1*1	<0.01*1	0.5	-
Discharge	23-Apr-14	11.9	6.90	3.95	0.142	5.37	0.97	1.93	<0.01*1	1.88	0.23	2.52	1.19	Discharge	23-Apr-14	-	-	clear, colorless	<0.1*1	<0.01*1	0.5	-
	16-Jul-14	18.3	6.83	3.64	0.134	4.19	1.62	1.80	0.04	1.72	0.36	2.08	1.10		16-Jul-14	-	-	clear, colorless	-	<0.01*1	-	-
	08-Oct-14	18.8	6.65	4.03	0.164	4.28	1.41	1.77	0.07	1.86	0.31	2.57	1.29		08-Oct-14	-	-	clear, colorless	-	0.02	-	-
	07-Jan-15	6.1	7.03	3.90	0.145	5.19	1.16	2.08	<0.01*1	1.95	0.25	2.48	1.18		07-Jan-15	-	-	clear, colorless	-	<0.01*1	-	-
	mean*2	13.8	6.83	3.88	0.146	4.75	1.29	1.90	0.03	1.85	0.29	2.41	1.19		mean	-	-	-	<0.1*1	<0.01*1	0.5	-

note
- : Items were not analyzed.
*1: Less than detection limit.
*2: Mean of pH takes an average of hydrogen ion.
When the value is under detection limit, it considers "0". Then the average and R1R2 were calculated by using
Annual precipitation is 1719.0 mm/year in JFY2014 (Gifu pref. Meteorological observatory

Table 6.4(4) Result of Inland Aquatic Environment Monitoring - continued

		Anion	Cation	R1	Judge	Acalc	R2	Judge
Center (Surface)	23-Apr-14	317.3	309.0	-1.3	O	3.72	-2.0	O
	16-Jul-14	283.3	266.7	-3.0	O	3.27	-2.6	O
	08-Oct-14	306.5	298.0	-1.4	O	3.54	-2.9	O
	07-Jan-15	329.8	306.8	-3.6	O	3.78	-1.0	O
Center (near bottom)	23-Apr-14	323.3	319.3	-0.6	O	3.82	-1.6	O
	16-Jul-14	299.2	284.0	-2.6	O	3.45	-3.2	O
	08-Oct-14	348.0	343.8	-0.6	O	4.01	-2.8	O
	07-Jan-15	326.5	304.3	-3.5	O	3.75	-0.9	O
Kamagatani River (Input)	23-Apr-14	359.0	352.5	-0.9	O	4.28	-1.3	O
	16-Jul-14	314.5	296.7	-2.9	O	3.66	-2.6	O
	08-Oct-14	337.7	329.7	-1.2	O	3.99	-2.1	O
	07-Jan-15	318.7	297.4	-3.4	O	3.73	-1.1	O
Kobora River (Input)	23-Apr-14	330.3	327.2	-0.5	O	3.88	-1.8	O
	16-Jul-14	291.8	276.9	-2.6	O	3.35	-2.6	O
	08-Oct-14	296.5	290.5	-1.0	O	3.48	-2.5	O
	07-Jan-15	276.9	256.6	-3.8	-	3.19	-1.0	-
Ijira River (Output)	23-Apr-14	321.4	310.5	-1.7	O	3.75	-2.0	O
	16-Jul-14	290.5	270.2	-3.6	O	3.33	-2.7	O
	08-Oct-14	321.6	313.6	-1.3	O	3.72	-2.5	O
	07-Jan-15	329.8	311.8	-2.8	O	3.82	-0.8	O
Discharge	23-Apr-14	323.3	311.0	-1.9	O	3.78	-2.1	O
	16-Jul-14	297.5	279.9	-3.1	O	3.43	-2.9	O
	08-Oct-14	325.4	326.9	0.2	O	3.82	-2.7	O
	07-Jan-15	330.4	311.6	-2.9	O	3.82	-1.0	O

Table 6.4(5) Result of Inland Aquatic Environment Monitoring

Duration: 2014.4.-2015.1.
Country: Japan
Lake/Stream: Banryu Lake

		Mandatory Parameters : 4 times/year											
Site	Sampling Date	Temp. (^{o}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	22-Apr-14	15.6	6.91	10.01	0.138	4.28	<0.01*1	21.70	0.03	13.19	1.66	1.63	1.77
	08-Jul-14	26.7	7.25	11.09	0.151	4.05	<0.01*1	21.11	<0.03*1	13.21	1.71	1.65	1.75
	20-Oct-14	19.2	7.02	10.45	0.192	3.61	<0.01*1	21.57	<0.03*1	13.48	1.80	1.81	2.02
	13-Jan-15	5.9	7.12	10.63	0.161	4.04	0.570	22.25	0.12	11.16	1.64	1.49	1.78
	mean*2	16.9	7.06	10.54	0.160	3.99	0.143	21.65	0.04	12.76	1.70	1.64	1.83
NO.2 (center) near bottom	22-Apr-14	8.8	6.46	10.25	0.170	4.32	0.270	21.64	0.13	13.44	1.76	1.88	1.93
	08-Jul-14	10.7	6.64	12.75	0.458	2.85	<0.01*1	21.58	<0.03*1	14.33	1.96	3.59	3.11
	20-Oct-14	13.8	6.71	15.64	0.710	1.47	0.020	21.95	1.34	14.71	2.31	5.37	3.77
	13-Jan-15	5.6	6.93	10.72	0.159	4.10	0.570	22.20	0.12	13.67	2.00	1.85	2.20
	mean*2	9.7	6.65	12.34	0.374	3.18	0.215	21.84	0.40	14.04	2.01	3.17	2.75
NO.3 surface	22-Apr-14	15.6	6.76	9.74	0.141	4.46	0.008	21.44	0.02	13.21	1.63	1.71	1.75
	08-Jul-14	26.7	7.09	9.66	0.150	4.19	<0.01*1	20.87	0.01	13.29	1.73	1.72	1.76
	20-Oct-14	18.9	7.12	10.44	0.205	3.66	0.002	21.13	0.01	13.39	1.86	2.05	2.03
	13-Jan-15	5.7	7.07	10.73	0.164	4.10	0.580	21.99	0.11	13.74	2.23	1.99	2.01
	mean*2	16.7	6.98	10.14	0.165	4.10	0.148	21.36	0.04	13.41	1.86	1.87	1.89

note
- : Items were not analyzed.
*1: Less than determination limit.
*2: Mean of pH takes an average of hydrogen ion.
When the value is under detection limit, it considers "0". Then the average and R1R2 were calculated by using it.
Annual precipitation is 1540.5 mm/year in JFY2014 (Lake Banryu national acid rain monitoring station).

Table 6.4(5) Result of Inland Aquatic Environment Monitoring - continued

		Mandatory Parameters : Once/year						Optional Parameters	
Site	Sampling Date	Transparency (m)	Water Color (Forel-Ule Scale)	PO_4^{3-} (mg/L)	NO_2^- (mg/L)	DOC (mg/L)	COD (mg/L)	D-Al (mg/L)	Chl-a (μg/L)
NO.2 (center) surface	22-Apr-14	3.3	13	<0.003*1	0.004	2.1	5.0	0.02	5.3
	08-Jul-14	3.2	13	<0.003*1	<0.003*1	2.4	5.3	<0.01*1	2.9
	20-Oct-14	2.5	15	<0.003*1	<0.003*1	2.2	4.9	<0.01*1	5.5
	13-Jan-15	3.3	14	<0.003*1	0.008	1.9	4.1	0.04	5.7
	mean	3.1	-	<0.003*1	<0.003*1	2.1	4.8	0.02	4.8
NO.2 (center) near bottom	22-Apr-14	-	-	<0.003*1	0.004	2.1	4.6	0.02	5.9
	08-Jul-14	-	-	<0.003*1	0.006	2.5	8.8	0.08	57.9
	20-Oct-14	-	-	0.035	0.029	3.9	16.4	<0.01*1	118.8
	13-Jan-15	-	-	<0.003*1	0.008	1.9	4.1	0.05	5.1
	mean	-	-	0.009	0.012	2.6	8.5	0.04	46.9
NO.3 surface	22-Apr-14	3.1	13	<0.003*1	0.004	2.3	4.3	0.01	5.4
	08-Jul-14	3.5	13	0.004	0.004	2.5	5.1	<0.01*1	3.2
	20-Oct-14	2.2	14	0.018	0.002	2.1	4.7	<0.01*1	6.1
	13-Jan-15	3.9	13	0.016	0.009	1.8	4.1	0.03	4.4
	mean	3.2	-	0.010	0.005	2.2	4.6	0.01	4.8

Table 6.4(5) Result of Inland Aquatic Environment Monitoring - continued

		Anion	Cation	R1	Judge	Acalc	R2	Judge
NO.2 (center) surface	22-Apr-14	838.7	844.9	0.4	O	10.46	2.2	O
	08-Jul-14	830.8	844.3	0.8	O	10.35	-3.4	O
	20-Oct-14	874.9	888.8	0.8	O	10.80	1.7	O
	13-Jan-15	881.4	754.0	-7.8	O	10.25	-1.8	O
NO.2 (center) near bottom	22-Apr-14	874.7	888.6	0.8	O	10.89	3.1	O
	08-Jul-14	1126.2	1107.9	-0.8	O	13.09	1.3	O
	20-Oct-14	1361.7	1350.9	-0.4	O	15.59	-0.2	O
	13-Jan-15	879.9	925.8	2.5	O	11.16	2.0	O
NO.3 surface	22-Apr-14	838.9	847.0	0.5	O	10.46	3.6	O
	08-Jul-14	826.2	853.4	1.6	O	10.37	3.5	O
	20-Oct-14	877.9	899.9	1.2	O	10.85	1.9	O
	13-Jan-15	879.7	925.5	2.5	O	11.15	1.9	O

Table 6.4(6) Result of Inland Aquatic Environment Monitoring

Duration: 2014.3.-2014.12.
Country: Lao PDR
Lake/Stream: Nam Hum Lake

		Mandatory Parameters: 4 times/year												Mandatory Parameters: Once/year					Optional Parameters
Site	Sampling Date	Temp. (^{o}C)	pH	EC (mS/m)	Alkalinity (meq/L)	SO_4^{2-} (mg/L)	NO_3^- (mg/L)	Cl^- (mg/L)	NH_4^+ (mg/L)	Na^+ (mg/L)	K^+ (mg/L)	Ca^{2+} (mg/L)	Mg^{2+} (mg/L)	Transparency (m)	Water Color (PtCo unit)	PO_4^{3-} (mg/L)	NO_2^- (mg/L)	COD (mg/L)	DO (mg/L)
Nam Hum Lake	14-Mar-14	27.6	7.73	4.50	0.430	-	-	-	-	-	-	-	-	0.5	-	0.010	-	18.3	6.7
	14-Jun-14	29.5	8.60	3.60	0.400	-	-	-	-	-	-	-	-	0.5	-	0.010	-	25.7	6.2
	14-Sep-14	31.4	6.90	3.86	0.450	-	-	-	-	-	-	-	-	1.0	-	0.010	-	27.9	6.3
	14-Dec-14	25.5	6.93	4.50	0.470	-	-	-	-	-	-	-	-	1.0	-	0.020	-	20.4	6.5
	mean*1	-	7.18	4.12	0.438	-	-	-	-	-	-	-	-	0.8	-	0.013	-	23.1	6.4

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

Table 6.4(7) Result of Inland Aquatic Environment Monitoring

Duration: 2014.3.-2014.12.
Country: Malaysia
Lake/Stream: (See below)

		Mandatory Parameters: 4 times/year												Mandatory Parameters: Once/year	
Site	Sampling Date	Temp. (^{o}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)	COD (mg/L)
Semenyih Dam	1-Apr-14	-	7.15	3.42	0.250	2.81	0.55	0.68	0.272	2.18	2.08	3.23	0.67	<0.10*1	4.4
	26-Sep-14	-	7.05	3.43	0.220	3.19	0.20	0.93	0.028	2.24	2.08	3.14	0.68	<0.10*1	5.5
	17-Dec-14	-	7.00	4.04	0.232	3.49	0.50	0.73	<0.003*1	2.12	2.06	3.35	0.71	<0.10*1	4.9
	mean*2	-	7.06	3.63	0.234	3.16	0.42	0.78	0.150	2.18	2.07	3.24	0.68	<0.10*1	4.9
Tembaling River	11-Mar-14	24.3	7.77	27.4	2.587	10.74	0.36	1.19	0.061	8.36	0.63	27.81	14.53	<0.10*1	3.8
	17-Jun-14	25.6	7.71	20.8	1.953	8.39	0.50	0.99	0.013	6.30	0.57	21.82	10.65	<0.10*1	4.7
	16-Sep-14	25.6	8.06	17.9	1.751	6.11	0.55	0.99	0.055	5.53	0.57	16.58	9.37	<0.10*1	4.8
	16-Dec-14	25.3	7.82	17.1	1.695	5.93	0.47	0.90	< 0.003*1	5.38	0.50	19.85	9.57	<0.10*1	5.7
	mean*2	-	7.82	20.8	1.996	7.79	0.47	1.02	0.043	6.39	0.57	21.51	11.03	<0.10*1	4.8

note
- : Items were not analyzed.
*1: Less than determination limit
*2: Mean of pH takes an average of hydrogen ion.
When the value is under detection limit, it considers "0". Then the average and R1R2 were calculated by using it.

		Anion	Cation	R1	Judge	Acalc	R2	Judge
Semenyih Dam	1-Apr-14	336.6	378.8	5.9	O	4.02	8.1	O
	26-Sep-14	316.1	364.8	7.2	O	3.86	5.9	O
	17-Dec-14	333.3	370.3	5.3	O	3.99	-0.6	O
Tembaling River	11-Mar-14	2849.9	2966.1	2.0	O	30.23	4.9	O
	17-Jun-14	2163.5	2253.7	2.0	O	23.02	5.2	O
	16-Sep-14	1914.6	1856.2	-1.5	O	19.47	4.2	O
	16-Dec-14	1851.8	2024.8	4.5	O	20.17	8.4	O

Table 6.4(8) Result of Inland Aquatic Environment Monitoring

Duration: 2014.3.-2014.11.
Country: Philippines
Lake/Stream: (See below)

		Mandatory Parameters: 4 times/year												Mandatory Parameters: Once/year			Optional Parameters
Site	Sampling Date	Temp. (^{o}C)	pH	EC (mS/m)	Alkalinity (meq/L)	SO_4^{2-} (mg/L)	NO_3^- (mg/L)	Cl^- (mg/L)	NH_4^+ (mg/L)	Na^+ (mg/L)	K^+ (mg/L)	Ca^{2+} (mg/L)	Mg^{2+} (mg/L)	Transparency (m)	PO_4^{3-} (mg/L)	NO_2^- (mg/L)	DO (mg/L)
Pandin Lake	19-Mar-14	-	9.00	19.54	2.20	0.129	0.219	2.23	0.060	6.40	3.16	15.2	11.0	-	-	*1	-
	14-May-14	-	7.70	22.70	2.12	0.119	0.281	2.03	0.097	5.64	3.13	26.3	10.3	-	-	*1	-
	27-Aug-14	-	7.29	20.40	2.18	0.210	0.015	3.02	*1	8.26	4.44	16.2	7.72	-	-	*1	-
	19-Nov-14	-	7.71	19.39	2.08	0.409	0.051	2.87	*1	7.70	4.05	18.8	7.33	-	-	*1	-
	mean*2	-	7.64	20.51	2.15	0.217	0.142	2.54	0.039	7.00	3.70	19.1	9.09	-	-	*1	-
Ambulalakaw Lake	11-Mar-14	-	5.82	0.518	0.035	0.191	*1	0.22	0.309	0.56	0.13	0.6	0.12	-	-	-	-
	02-Jun-14	-	5.67	0.532	0.010	*1	*1	0.21	0.116	0.36	0.18	0.7	0.14	-	-	-	-
	19-Aug-14	-	5.61	0.542	0.020	0.257	*1	0.20	0.259	0.46	0.10	0.6	0.12	-	-	-	-
	18-Nov-14	-	5.70	0.490	0.025	*1	*1	0.18	0.150	0.47	0.98	0.5	0.11	-	-	-	-
	mean*2	-	5.69	0.521	0.023	0.112	*1	0.20	0.209	0.46	0.35	0.6	0.12	-	-	-	-

note
- : Items were not analyzed.
*1: The item was not detected.
*2: Mean of pH takes an average of hydrogen ion.

		Anion	Cation	R1	Judge	Acalc	R2	Judge
Pandin Lake	19-Mar-14	2269.2	2026.7	-5.6	O	21.69	5.2	O
	14-May-14	2184.3	2490.2	6.5	O	24.14	3.1	O
	27-Aug-14	2269.8	1916.3	-8.4	×	21.24	2.0	O
	19-Nov-14	2170.3	1979.4	-4.6	O	21.21	4.5	O
Ambulalakaw Lake	11-Mar-14	45.2	83.9	30.0	×	0.78	20.1	×
	02-Jun-14	15.9	73.0	64.2	×	0.58	4.4	O
	19-Aug-14	30.9	81.4	45.0	×	0.73	14.7	×
	18-Nov-14	30.1	90.9	50.3	×	0.77	22.3	×

note
Concerning "×" judging, it was not able to specify the main reasons.

Table 6.4(9) Result of Inland Aquatic Environment Monitoring

Duration: 2014.2.-2014.11.
Country: Russian Federation
Lake/Stream: (See below)

		Mandatory Parameters: 4 times/year												Mandatory Parameters: Once/year					Optional Parameters			
Site	Sampling Date	Temp. (^{o}C)	pH	EC (mS/m)	Alkalinity (meq/L)	SO_4^{2-} (mg/L)	NO_3^- (mg/L)	Cl^- (mg/L)	NH_4^+ (mg/L)	Na^+ (mg/L)	K^+ (mg/L)	Ca^{2+} (mg/L)	Mg^{2+} (mg/L)	Transparency (m)	Water color	PO_4^{3-} (mg/L)	NO_2^- (mg/L)	COD (mg/L)	Fe (mg/L)	TP (mg/L)	O_2 (mg/L)	Si (mg/L)
Pereemnaya River	26-Mar-14	0.2	6.59	5.31	0.153	12.09	0.94	0.25	0.03	2.04	0.89	5.26	0.65	1.5	colorless	0.012	0.001	-	-	0.01	-	3.18
	15-May-14	6.4	6.61	3.70	0.140	8.00	0.67	0.16	0.01	0.90	0.59	4.03	0.70	2.0	colorless	0.015	0.002	1.2	-	0.02	11.90	2.58
	29-Jul-14	14.3	6.90	4.80	0.125	12.57	0.40	0.17	*1	1.13	0.77	5.13	0.88	2.0	colorless	0.003	0.002	1.1	-	0.00	-	2.09
	22-Sep-14	7.3	6.72	4.83	0.150	12.11	0.33	0.18	*1	1.16	0.87	5.06	0.92	2.0	colorless	0.008	0.003	1.5	-	0.05	1.40	3.14
	mean*2	-	6.69	4.66	0.142	11.19	0.58	0.19	0.01	1.30	0.78	4.87	0.78	1.9	-	0.009	0.002	1.2	-	0.02	6.65	2.75
Komarovka River	18-Feb-14	0.1	6.86	8.49	0.345	11.48	2.56	3.32	0.02	3.77	0.60	8.10	2.30	-	colorless	0.006	0.005	1.8	0.09	-	12.57	5.83
	15-Apr-14	3.3	6.65	8.35	0.302	15.23	1.56	3.27	0.15	3.23	0.77	7.85	2.28	-	colorless	0.005	0.062	2.8	0.27	-	13.32	5.12
	16-Jun-14	11.5	7.11	8.18	0.355	12.70	2.87	2.45	0.26	3.68	0.68	7.75	2.30	-	colorless	0.005	0.036	5.8	0.31	-	8.14	5.17
	15-Sep-14	13.6	7.11	8.32	0.426	10.50	1.77	3.23	0.11	3.43	0.75	8.82	2.30	-	colorless	0.005	0.005	8.7	0.23	-	10.53	7.48
	18-Nov-14	2.7	7.01	8.91	0.410	8.87	5.31	3.53	0.18	3.47	0.80	8.95	2.15	-	colorless	0.005	0.056	3.7	0.17	-	12.82	5.97
	mean*2	-	6.91	8.45	0.368	11.76	2.81	3.16	0.14	3.52	0.72	8.29	2.27	-	-	0.005	0.033	4.6	0.21	-	11.47	5.91

note
- : Items were not analyzed.
*1: Less than determination limit
*2: Mean of pH takes an average of hydrogen ion.
When the value is under detection limit, it considers "0". Then the average and R1R2 were calculated by using it.

		Anion	Cation	R1	Judge	Acalc	R2	Judge
Pereemnaya River	26-Mar-14	427.2	428.5	0.2	O	5.34	0.3	O
	15-May-14	322.5	313.7	-1.4	O	3.90	2.7	O
	29-Jul-14	398.3	396.8	-0.2	O	5.04	2.5	O
	22-Sep-14	412.7	400.3	-1.5	O	5.09	2.7	O
Komarovka River	18-Feb-14	719.6	773.8	3.6	O	8.83	2.0	O
	15-Apr-14	737.6	748.3	0.7	O	9.03	4.0	O
	16-Jun-14	735.8	767.8	2.1	O	8.92	4.4	O
	15-Sep-14	764.2	804.0	2.5	O	9.12	4.6	O
	18-Nov-14	781.2	804.7	1.5	O	9.28	2.0	O

Table 6.4(10) Result of Inland Aquatic Environment Monitoring

Duration: 2014.2.-2014.11.
Country: Thailand
Lake/Stream: Vachiralongkorn Dam

		Mandatory Parameters : 4 times/year												Mandatory Parameters : Once/year				
Site	Sampling Date	Temp. (^{o}C)	pH	EC (mS/m)	Alkalinity (meq/L)	SO_4^{2-} (mg/L)	NO_3^- (mg/L)	Cl^- (mg/L)	NH_4^+ (mg/L)	Na^+ (mg/L)	K^+ (mg/L)	Ca^{2+} (mg/L)	Mg^{2+} (mg/L)	Transparency (m)	Water color	PO_4^{3-} (mg/L)	NO_2^- (mg/L)	COD (mg/L)
Station1 (Ban Pong Chang)	27-Feb-14	29.1	7.40	3.31	1.110	2.83	0.11	1.15	0.01	1.40	0.99	16.9	3.47	4.0	-	0.01	-	-
	27-May-14	32.5	7.60	8.33	1.200	1.16	0.06	0.78	0.03	1.07	0.99	17.6	3.25	4.0	-	0.01	-	-
	30-Jul-14	29.9	7.40	5.51	1.170	1.45	0.10	0.80	0.02	1.12	0.91	17.0	3.27	4.0	-	0.01	-	-
	5-Nov-14	29.9	8.10	5.33	1.070	1.12	0.10	0.78	0.10	1.20	0.90	15.3	3.19	3.0	-	0.01	-	-
	mean*1	-	7.55	5.62	1.138	1.64	0.09	0.88	0.04	1.20	0.95	16.7	3.29	3.8	-	0.01	-	-
Station2 (Ban Pang Pueng)	27-Feb-14	27.9	7.80	3.33	1.075	1.75	0.10	1.13	0.01	1.41	1.04	16.8	2.80	4.0	-	0.01	-	-
	27-May-14	32.0	7.60	5.90	1.145	1.31	0.03	0.90	0.01	1.16	1.00	17.1	2.71	4.0	-	0.01	-	-
	30-Jul-14	28.9	7.60	5.69	1.065	1.38	0.11	0.84	0.01	1.17	0.95	16.4	2.55	4.0	-	0.02	-	-
	5-Nov-14	29.8	8.30	6.92	1.080	1.42	0.05	0.72	0.10	1.13	0.87	15.8	2.76	4.0	-	0.01	-	-
	mean*1	-	7.75	5.46	1.091	1.46	0.07	0.89	0.03	1.22	0.96	16.5	2.70	4.0	-	0.01	-	-

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

	Date	Anion	Cation	R1	Judge	Acalc	R2	Judge
Station1 (Ban Pong Chang)	27-Feb-14	1203.3	1215.5	0.5	O	12.73	58.7	×
	27-May-14	1247.3	1215.9	-1.3	O	12.80	21.1	×
	30-Jul-14	1224.4	1190.2	-1.4	O	12.56	39.0	×
	5-Nov-14	1117.1	1105.9	-0.5	O	11.56	36.9	×
Station2 (Ban Pang Pueng)	27-Feb-14	1145.0	1154.5	0.4	O	12.06	56.7	×
	27-May-14	1198.4	1149.5	-2.1	O	12.23	34.9	×
	30-Jul-14	1119.3	1100.6	-0.8	O	11.59	34.2	×
	5-Nov-14	1130.9	1091.8	-1.8	O	11.58	25.2	×

note
Concerning "×" judging, it was not able to specify the main reasons.

Table 6.4(11) Result of Inland Aquatic Environment Monitoring

Duration: 2014.3.-2014.12.
Country: Vietnam
Lake/Stream: Hoa Binh Reservoir

		Mandatory Parameters: 4 times/year												Mandatory Parameters: Once/year				
Site	Sampling Date	Temp. (^{o}C)	pH	EC (mS/m)	Alkalinity (meq/L)	SO_4^{2-} (mg/L)	NO_3^- (mg/L)	Cl^- (mg/L)	NH_4^+ (mg/L)	Na^+ (mg/L)	K^+ (mg/L)	Ca^{2+} (mg/L)	Mg^{2+} (mg/L)	Transparency (m)	Water Color (PtCo unit)	PO_4^{3-} (mg/L)	NO_2^- (mg/L)	COD (mg/L)
Hoa Binh Reservoir	15-Mar-14	21.8	7.62	15.67	1.50	1.96	0.43	1.90	0.02	2.80	1.18	20.65	4.02	1.2	-	-	0.012	3.2
	15-Jun-14	29.1	7.48	19.22	1.68	7.15	0.89	1.62	0.01	3.38	1.39	24.19	4.95	0.9	-	-	0.011	3.5
	15-Sep-14	30.5	7.79	18.05	1.50	5.74	0.59	1.82	0.02	3.36	1.40	23.97	4.65	0.9	-	-	0.013	3.9
	15-Dec-14	23.7	7.80	15.94	1.32	5.66	1.28	1.20	0.01	2.64	1.25	20.33	4.36	1.2	2	0.019	0.012	3.4
	mean*1	-	7.65	17.22	1.50	5.13	0.80	1.64	0.02	3.05	1.31	22.29	4.50	1.1	-	0.019	0.012	3.5

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

		Anion	Cation	R1	Judge	Acalc	R2	Judge
Hoa Binh Reservoir	15-Mar-14	1601.6	1514.1	-2.8	O	16.2	1.7	O
	15-Jun-14	1889.2	1797.3	-2.5	O	19.5	0.8	O
	15-Sep-14	1680.6	1761.6	2.4	O	18.3	0.7	O
	15-Dec-14	1493.2	1520.4	0.9	O	16.0	0.3	O

Table 6.4 (12) Summary of Inland Aquatic Environment Monitoring

			Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
Country	Location	Site	pH	EC (mS/m)	Alkalinity (meq/L)	SO_4^{2-} (mg/L)	NO_3^- (mg/L)	Cl^- (mg/L)	NH_4^+ (mg/L)	Na^+ (mg/L)	K^+ (mg/L)	Ca^{2+} (mg/L)	Mg^{2+} (mg/L)	Transparency (m)	PO_4^{3-} (mg/L)	NO_2^- (mg/L)	DOC (mg/L)	COD (mg/L)
Cambodia	Kampong Speu province	Sras Srang Lake*2	5.84	0.96	0.035	0.06	0.60	1.38	0.12	1.03	0.31	0.26	0.12	0.7	-	-	-	-
China	Chongqing	Jinyunshan Lake	5.41	12.39	0.040	34.94	14.30	2.65	0.09	2.54	2.14	11.84	3.77	6.3	*1	*1	-	-
	Xiamen	Xiaoping Dam	7.18	5.79	0.219	3.71	3.53	2.64	0.05	3.09	2.61	3.70	0.84	0.9	0.041	0.020	-	1.5
	Xi'an	Jiwozi River	7.05	8.24	0.273	15.85	1.28	1.32	0.27	1.93	1.06	9.15	1.61	-	<0.01*1	<0.003*1	-	4.0
	Zhuhai	Zhuxiandong Stream	7.19	8.27	0.502	4.64	4.80	3.75	0.02	6.42	1.69	5.22	2.53	-	-	-	-	-
Indonesia	Bandung	Patengang Lake*3	7.48	6.19	0.357	7.15	0.12	2.44	0.47	3.00	1.15	4.90	2.06	1.6	0.010	0.007	6.8	-
	Sukabumi, West Java	Gunung Lake	6.97	3.96	0.248	4.05	0.04	1.68	0.13	2.74	0.87	2.65	0.92	1.0	0.020	0.004	8.8	4.8
Japan	Gifu pref.	Ijira Lake (Center, surface)	7.06	3.73	0.140	4.67	1.21	1.86	<0.01*1	1.82	0.27	2.34	1.12	1.9	<0.1*1	<0.01*1	0.5	-
	Shimane pref.	Banryu Lake (Center, surface)	7.06	10.54	0.160	3.99	0.14	21.65	0.04	12.76	1.70	1.64	1.83	3.1	<0.003*1	<0.003*1	2.1	4.8
Lao PDR	Vientiane province	Nam Hum Lake	7.18	4.12	0.438	-	-	-	-	-	-	-	-	0.8	0.013	-	-	23.1
Malaysia	Selangor	Semenyih Dam*4	7.06	3.63	0.234	3.16	0.42	0.78	0.15	2.18	2.07	3.24	0.68	-	<0.10*1	-	-	4.9
	Sabah	Tembaling river	7.82	20.77	1.996	7.79	0.47	1.02	0.04	6.39	0.57	21.51	11.03	-	<0.10*1	-	-	4.8
Philippines	San Pablo City	Pandin Lake	7.64	20.51	2.145	0.22	0.14	2.54	0.04	7.00	3.70	19.13	9.09	-	-	*1	-	-
	Benguet	Ambulalakaw Lake	5.69	0.52	0.023	0.11	*1	0.20	0.21	0.46	0.35	0.59	0.12	-	-	-	-	-
Russia	Southern Baikal	Pereemnaya River	7.64	20.51	2.145	0.22	0.14	2.54	0.04	7.00	3.70	19.13	9.09	-	0.009	0.002	-	1.2
	Primorskaya	Komarovka River*3	6.91	8.45	0.368	11.76	2.81	3.16	0.14	3.52	0.72	8.29	2.27	-	0.005	0.033	-	4.6
Thailand	Kanchanaburi Province	Vachiralongkorn Dam (Ban Pong Chang)	7.55	5.62	1.138	1.64	0.09	0.88	0.04	1.20	0.95	16.69	3.29	3.8	0.010	-	-	-
		Vachiralongkorn Dam (Ban Pang Pueng)	7.75	5.46	1.091	1.46	0.07	0.89	0.03	1.22	0.96	16.49	2.70	4.0	0.011	-	-	-
Vietnam	Hoa Binh Province	Hoa Binh Reservoir	7.65	17.22	1.500	5.13	0.80	1.64	0.02	3.05	1.31	22.29	4.50	1.1	0.019	0.012	-	3.5

note
- : Items were not analyzed.
*1: Less than determination/detection limit.
*2: Surveyed twice a year.
*3: Surveyed five times a year.
*4: Surveyed three times a year.

Table 6.5(1) Annual mean values of each parameters of 2012 to 2014 at Sras Srang Lake (Cambodia)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC	Alkalinity	SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	Mg^{2+}	Transparency	PO_4^{3-}	NO_2^-	DOC	COD
		mS/m	meq/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	m	mg/L	mg/L	mg/L	mg/L
2012	6.46	0.88	0.037	0.08	0.06	1.65	0.04	0.94	0.13	0.27	0.16	0.7	-	-	-	-
2013	5.74	0.93	0.034	0.05	0.28	1.39	0.02	0.94	0.12	0.29	0.13	0.7	-	-	-	-
2014	5.84	0.96	0.035	0.06	0.60	1.38	0.12	1.03	0.31	0.26	0.12	0.7	-	-	-	-

Table 6.5(2) Annual mean values of each parameters from 2001 to 2014 at Jinyushan Lake (China)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC	Alkalinity	SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	Mg^{2+}	Transparency	PO_4^{3-}	NO_2^-	DOC	COD
		mS/m	meq/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	m	mg/L	mg/L	mg/L	mg/L
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	2.6	-	-	-	7.6
2005	6.04	10.2	0.073	28.1	8.16	2.63	0.04	2.70	1.82	9.36	3.22	3.7	*1	*1	-	2.9
2006	6.36	11.9	0.113	32.7	9.53	3.05	0.11	2.96	2.27	11.1	3.82	5.0	*1	*1	-	3.2
2007	6.24	12.4	0.086	37.2	10.2	3.12	0.12	2.81	2.18	11.2	3.81	3.0	*1	*1	-	4.4
2008	5.42	12.2	0.066	33.3	12.8	2.77	0.16	2.65	1.98	11.3	3.77	3.7	*1	*1	-	2.9
2009	5.84	11.2	0.048	29.3	8.29	2.95	0.23	2.59	1.96	10.1	3.63	2.3	*1	*1	-	<10*1
2010	5.76	12.8	0.157	34.5	10.6	3.00	0.14	2.90	2.07	11.7	3.98	3.4	*1	*1	-	<10*1
2011	5.25	14.2	0.064	39.6	15.2	3.76	0.12	2.71	2.27	12.8	3.90	4.5	*1	*1	-	<10*1
2012	5.47	13.5	0.052	40.8	9.88	3.71	0.14	3.08	2.38	12.8	3.98	3.1	*1	*1	-	<10*1
2013	6.03	7.12	0.082	20.7	3.93	0.68	0.12	0.75	0.77	8.75	0.98	3.5	*1	*1	-	<10*1
2014	5.41	12.39	0.040	34.9	14.30	2.65	0.09	2.54	2.14	11.84	3.77	6.3	*1	*1	-	-

Table 6.5(3) Annual mean values of each parameters from 2001 to 2014 at Xiaoping Dam (China)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC	Alkalinity	SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	Mg^{2+}	Transparency	PO_4^{3-}	NO_2^-	DOC	COD
		mS/m	meq/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	m	mg/L	mg/L	mg/L	mg/L
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	0.9	0.02	0.008	-	1.3
2006	6.81	5.27	0.190	2.46	2.52	5.13	0.19	6.02	2.33	3.19	0.66	0.9	0.02	0.008	-	0.7
2007	7.07	7.32	0.110	2.67	2.67	5.13	0.15	3.64	1.63	2.82	0.54	-	-	0.006	-	1.8
2008	6.73	5.66	0.124	4.49	2.67	12.9	0.14	4.97	2.46	3.90	0.56	-	0.01	0.007	-	1.9
2009	6.72	7.53	0.193	3.14	2.67	7.44	0.10	6.91	3.52	2.43	0.82	-	0.01	0.008	-	3.5
2010	6.63	6.19	0.190	2.70	3.70	5.54	0.11	5.80	2.53	2.51	0.69	1.1	0.02	0.015	-	1.9
2011	6.78	4.85	0.168	2.60	2.89	3.14	0.09	3.50	2.10	2.57	0.52	0.7	0.05	0.022	-	1.8
2012	6.94	5.08	0.155	2.92	3.46	3.10	0.06	3.78	2.50	2.51	0.68	1.2	0.03	0.031	-	2.5
2013	6.80	5.52	0.220	2.71	3.42	2.77	0.05	3.80	2.83	3.20	0.76	0.9	0.02	0.029	-	1.7
2014	7.18	5.79	0.219	3.71	3.53	2.64	0.05	3.09	2.61	3.70	0.84	0.9	0.04	0.020	-	1.5

- : Items were not analyzed.

*1: Less than determination/detection limit.

Table 6.5(4) Annual mean values of each parameters from 2001 to 2014 at Jiwozi River (China)

	Mandatory Parameters : 4 times/year										Mandatory Parameters : Once/year				
	pH	EC	Alkalinity	SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	Mg^{2+}	Transparency	PO_4^{3-}	NO_2^-	DOC	COD
		mS/m	meq/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	m	mg/L	mg/L	mg/L	mg/L
2001	7.11	4.50	0.225	10.03	1.47	1.06	0.04	1.90	0.70	8.83	1.38	-	-	-	-	-
2002	7.60	8.47	0.110	12.16	1.70	1.80	*1	2.80	1.20	12.73	1.72	-	-	-	-	-
2003	7.54	7.83	0.140	11.44	2.01	1.63	*1	2.08	0.95	12.03	1.59	-	-	-	-	-
2004	7.20	6.63	0.243	11.68	2.30	1.06	*1	1.79	0.68	9.04	1.35	-	*1	*1	-	3.2
2005	6.99	7.99	0.208	15.31	0.81	1.74	0.06	1.77	0.72	7.44	1.35	-	*1	0.090	-	1.6
2006	6.80	7.59	0.238	11.80	1.87	1.21	0.07	1.93	0.65	7.64	1.11	-	0.03	0.003	-	2.8
2007	7.32	8.86	0.250	16.68	3.46	1.31	0.13	2.09	0.96	11.00	0.96	-	*1	*1	-	2.2
2008	7.05	8.42	0.248	13.92	1.89	1.51	0.30	1.43	1.05	9.38	1.20	-	<0.01*1	<0.003*1	-	2.5
2009	6.98	8.28	0.278	15.51	2.07	1.34	0.14	1.88	1.04	9.85	1.38	-	<0.01*1	<0.003*1	-	2.5
2010	7.33	8.11	0.280	13.92	2.83	1.27	*1	1.22	0.81	10.49	1.35	-	<0.01*1	<0.003*1	-	3.0
2011	6.85	6.83	0.275	12.89	0.87	0.51	*1	0.74	0.84	8.09	2.01	-	<0.01*1	<0.003*1	-	3.0
2012	6.83	6.95	0.275	12.97	0.96	0.57	*1	0.70	0.83	7.80	2.01	-	<0.01*1	<0.003*1	-	4.0
2013	6.86	8.92	0.333	15.01	2.39	3.16	*1	3.50	1.37	11.07	1.69	-	<0.01*1	<0.003*1	-	5.0
2014	7.05	8.24	0.273	15.85	1.28	1.32	0.27	1.93	1.06	9.15	1.61	-	<0.01*1	<0.003*1	-	4.0

Table 6.5(5) Annual mean values of each parameters from 2004 to 2014 at Zhuxiandong stream and from 2001 to 2003 at Zhuxiandong resorvoir(China

	Mandatory Parameters : 4 times/year										Mandatory Parameters : Once/year				
	pH	EC	Alkalinity	SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	Mg^{2+}	Transparency	PO_4^{3-}	NO_2^-	DOC	COD
		mS/m	meq/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	m	mg/L	mg/L	mg/L	mg/L
2001	7.62	-	-	17.70	0.63	43.1	0.20	-	-	-	-	-	-	-	-	-
2002	7.93	6.70	0.963	19.89	0.83	23.8	0.23	7.27	1.57	17.0	2.50	-	-	-	-	-
2003	7.82	7.54	1.603	17.50	0.29	19.6	0.17	7.34	1.96	16.8	2.36	-	-	0.029	-	1.7
2004	7.12	8.49	0.645	5.47	1.90	6.03	*1	8.95	1.88	5.41	2.84	-		*1	-	1.1
2005	6.97	9.53	0.133	5.83	1.70	6.73	*1	8.90	1.60	4.63	2.65	1.3	*1	*1	-	0.9
2006	7.18	7.35	0.225	2.60	1.15	4.50	1.10	5.40	1.13	4.38	1.58	1.3	*1	*1		1.0
2007	7.28	7.80	0.240	3.61	1.77	5.09	0.10	6.01	1.22	3.65	1.38	1.3	*1	*1	-	1.1
2008	7.18	7.58	0.165	2.95	2.36	4.90	0.05	6.83	1.31	4.40	1.76	1.3	*1	*1	-	1.1
2009	7.16	7.74	0.367	2.97	4.20	6.30	0.06	7.86	1.57	2.77	1.96	1.1	*1	*1	-	1.3
2010	7.22	6.86	0.393	2.49	2.50	5.15	0.08	6.98	1.23	4.30	1.72	1.1	*1	*1	-	1.4
2011	7.16	7.42	0.467	1.95	1.00	4.33	0.09	7.70	1.15	4.68	1.69	1.1	*1	*1	-	1.3
2012	7.26	7.62	0.499	2.98	2.00	5.38	0.09	7.50	1.69	4.81	1.88	1.1	*1	*1	-	1.2
2013	7.20	7.87	0.500	3.81	4.11	4.66	0.07	6.95	1.77	4.91	1.91	1.2	*1	*1	-	1.1
2014	7.19	8.27	0.502	4.64	4.80	3.75	0.02	6.42	1.69	5.22	2.53	-	-	-	-	-

Table 6.5(6) Annual mean values of each parameters from 2001 to 2014 at Patenggang Lake (Indonesia)

	Mandatory Parameters : 4 times/year										Mandatory Parameters : Once/year				
	pH	EC	Alkalinity	SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	Mg^{2+}	Transparency	PO_4^{3-}	NO_2^-	DOC	COD
		mS/m	meq/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	m	mg/L	mg/L	mg/L	mg/L
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	0.6	0.207	*1	12.4	-
2004	7.29	5.89	0.340	2.65	0.03	3.85	0.02	2.10	0.85	5.75	2.20	0.6	0.014	*1	7.3	-
2005	7.19	6.71	0.459	8.83	0.23	2.30	0.43	4.04	1.87	5.70	2.70	0.1	0.010	*1	10.9	-
2006	7.49	5.74	0.414	3.80	0.47	2.58	0.39	2.87	1.70	5.70	1.43	0.1	0.085	0.016	8.1	-
2007	7.17	6.75	0.420	7.45	0.32	2.59	0.41	3.40	1.53	5.75	1.47	0.1	0.038	0.012	3.8	-
2008	6.76	6.43	0.448	7.89	0.07	2.18	0.05	2.84	1.29	6.18	2.39	0.9	0.202	0.019	10.2	-
2009	6.99	6.96	0.490	5.16	0.58	2.24	0.19	3.68	2.33	6.66	1.09	1.1	0.011	0.007	8.6	-
2010	6.66	6.75	0.512	4.93	0.01	2.33	0.17	3.43	1.52	6.87	2.12	1.1	0.031	0.006	7.5	-
2011	7.84	7.40	0.522	8.08	0.02	2.48	0.34	3.18	1.38	6.46	2.61	0.7	0.292	0.006	6.9	-
2012	7.72	6.09	0.403	7.40	*1	1.80	0.43	3.50	1.47	5.26	2.06	0.8	0.133	*1	7.6	-
2013	7.41	6.64	0.442	8.23	0.06	1.50	0.09	4.83	2.03	4.60	1.97	0.9	*1	0.009	12.1	-
2014	7.48	6.19	0.357	7.15	0.12	2.44	0.47	3.00	1.15	4.90	2.06	1.6	0.010	0.007	6.8	-

- : Items were not analyzed.

*1: Less than determination/detection limit.

Table 6.5(7) Annual mean values of each parameters from 2008 to 2014 at Gunung Lake (Indonesia

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC	Alkalinity	SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	Mg^{2+}	Transparency	PO_4^{3-}	NO_2^-	DOC	COD
		mS/m	meq/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	m	mg/L	mg/L	mg/L	mg/L
2008	6.73	5.90	0.438	5.59	0.03	2.01	0.57	2.24	0.71	5.09	1.87	1.1	0.040	0.007	6.7	-
2009	6.69	5.54	0.460	3.48	0.06	1.30	0.16	3.14	1.02	4.62	2.20	1.0	0.014	0.005	10.8	-
2010	6.24	5.14	0.442	1.70	0.00	1.15	0.11	2.01	0.87	5.35	1.66	1.1	0.125	0.002	5.0	-
2011	7.38	5.15	0.414	4.04	0.07	1.00	0.12	2.36	0.84	5.04	2.02	0.7	0.037	0.004	10.2	-
2012	6.56	5.86	0.450	4.04	*1	1.10	*1	1.74	0.88	5.30	2.54	0.5	0.710	*1	9.5	-
2013	7.38	4.15	0.321	3.05	0.04	0.75	0.08	2.75	0.76	2.92	1.18	1.0	*1	0.002	5.3	-
2014	6.97	3.96	0.248	4.05	0.04	1.68	0.13	2.74	0.87	2.65	0.92	1.0	0.020	0.004	8.8	4.8

Table 6.5(8) Annual mean values of each parameters from 2001 to 2014 at Ijira Lake (Japan)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC	Alkalinity	SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	Mg^{2+}	Transparency	PO_4^{3-}	NO_2^-	DOC	COD
		mS/m	meq/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	m	mg/L	mg/L	mg/L	mg/L
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	2.2	<0.066*1	<0.01*1	3.2	-
2003	6.75	4.10	0.146	5.14	2.07	2.40	0.08	1.86	0.30	2.94	1.36	3.0	<0.01*1	<0.03*1	1.4	-
2004	7.17	4.05	0.145	4.79	1.88	2.34	0.12	2.15	0.23	2.71	1.23	2.8	<0.03*1	<0.02*1	1.1	-
2005	6.94	4.47	0.153	5.73	2.37	2.32	0.08	2.29	0.39	3.27	1.42	3.0	<0.03*1	0.07	0.7	-
2006	6.81	3.94	0.164	4.53	2.11	2.09	0.03	2.00	0.33	2.80	1.23	2.4	<0.1*1	<0.02*1	0.6	-
2007	7.09	4.58	0.206	5.77	1.22	2.27	0.03	2.24	0.30	3.57	1.46	2.7	<0.1*1	<0.02*1	1.0	-
2008	7.19	4.36	0.183	5.37	1.78	2.16	0.04	2.10	0.28	3.24	1.45	2.7	<0.1*1	<0.01*1	0.8	-
2009	7.04	4.26	0.176	5.18	1.47	2.13	0.01	2.08	0.26	3.03	1.35	2.7	<0.1*1	<0.01*1	0.7	-
2010	7.01	3.74	0.158	4.58	1.10	1.96	<0.01*1	1.88	0.25	2.61	1.18	2.3	<0.1*1	<0.01*1	0.5	-
2011	7.11	3.85	0.159	4.77	1.34	1.86	<0.01*1	1.89	0.23	3.05	1.22	1.8	<0.1*1	<0.01*1	0.8	-
2012	7.11	3.76	0.154	4.66	1.31	1.89	<0.01*1	1.85	0.23	2.78	1.23	2.3	<0.1*1	<0.01*1	0.5	-
2013	7.17	3.94	0.165	5.02	1.06	1.97	<0.01*1	1.97	0.24	2.73	1.25	2.4	<0.1*1	<0.01*1	0.5	-
2014	7.06	3.73	0.140	4.67	1.21	1.86	<0.01*1	1.82	0.27	2.34	1.12	1.9	<0.1*1	<0.01*1	0.5	-

Table 6.5(9) Annual mean values of each parameters from 2001 to 2014 at Banryu Lake (Japan)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC	Alkalinity	SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	Mg^{2+}	Transparency	PO_4^{3-}	NO_2^-	DOC	COD
		mS/m	meq/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	m	mg/L	mg/L	mg/L	mg/L
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	1.6	<0.003*1	<0.003*1	2.5	5.7
2003	6.98	10.9	0.170	3.96	0.14	22.3	0.19	13.4	1.78	1.09	1.69	1.5	<0.003*1	<0.003*1	2.6	5.6
2004	7.10	10.7	0.165	3.96	0.21	23.0	0.09	14.0	1.84	1.05	1.69	2.5	<0.003*1	<0.003*1	3.3	4.8
2005	7.09	10.7	0.156	4.31	0.14	23.1	0.04	14.2	1.91	1.47	1.82	2.2	0.003	<0.003*1	2.6	5.0
2006	7.01	10.3	0.162	4.44	0.13	21.6	0.11	13.8	1.83	1.49	1.77	2.5	<0.003*1	0.003	2.7	4.8
2007	7.02	10.8	0.176	4.49	0.10	22.5	0.02	14.3	1.94	1.52	1.62	2.5	<0.003*1	<0.003*1	2.6	5.0
2008	7.05	10.7	0.175	4.24	0.14	22.8	0.03	14.3	1.87	1.37	1.65	3.0	<0.003*1	<0.003*1	2.5	-
2009	7.02	10.1	0.171	4.14	0.10	22.0	0.03	13.7	1.79	1.52	1.81	2.7	<0.003*1	<0.003*1	2.9	-
2010	7.03	10.1	0.144	4.00	0.16	21.9	0.04	13.5	1.77	1.67	1.88	2.9	<0.003*1	<0.003*1	2.9	5.5
2011	6.97	10.9	0.168	4.08	0.21	23.6	0.04	14.3	1.90	1.85	2.07	3.2	<0.003*1	<0.003*1	2.4	5.0
2012	7.00	11.0	0.178	4.02	0.15	24.3	0.04	14.7	1.92	1.88	2.04	2.7	<0.003*1	0.004	2.2	4.7
2013	7.01	9.89	0.165	4.15	0.13	21.5	0.03	13.2	1.78	1.76	1.89	2.5	<0.003*1	<0.003*1	2.5	5.0
2014	7.06	10.54	0.160	3.99	0.14	21.7	0.04	12.8	1.70	1.64	1.83	3.1	<0.003*1	<0.003*1	2.1	4.8

- : Items were not analyzed.

*1: Less than determination/detection limit.

Table 6.5(10) Annual mean values of each parameters of 2009 and 2014 at Nam Hum Lake (Lao PDR)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC	Alkalinity	SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	Mg^{2+}	Transparency	PO_4^{3-}	NO_2^-	DOC	COD
		mS/m	meq/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	m	mg/L	mg/L	mg/L	mg/L
2009	7.55	3.90	0.411	1.83	0.65	1.45	0.15	0.94	1.75	4.43	0.86	-	0.001	-	-	10.2
2014	7.18	4.12	0.438	-	-	-	-	-	-	-	-	0.8	0.013	-	-	23.1

Table 6.5(11) Annual mean values of each parameters from 2005 to 2014 at Semenyih Dam (Malaysia)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC	Alkalinity	SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	Mg^{2+}	Transparency	PO_4^{3-}	NO_2^-	DOC	COD
		mS/m	meq/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	m	mg/L	mg/L	mg/L	mg/L
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	-	-	-	-	-
2007	7.02	2.67	0.266	1.22	0.10	0.75	0.04	2.35	2.05	2.30	0.69	-	-	-	-	-
2008	6.94	1.53	0.265	1.73	0.18	0.83	0.06	2.46	2.08	2.54	0.66	-	-	-	-	-
2009	6.91	3.30	0.229	1.80	0.22	0.83	0.02	2.13	1.90	1.83	0.55	-	-	-	-	-
2010	6.92	2.77	0.225	2.40	0.05	0.81	0.02	2.18	2.00	2.43	0.65	-	<0.10*1	-	-	-
2011	6.99	2.69	0.270	2.85	0.54	0.96	0.05	2.15	2.01	2.53	0.60	-	-	-	-	-
2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2013	6.63	2.96	0.230	2.98	0.25	0.77	0.06	2.12	1.94	2.55	0.61	-	<0.10*1	-	-	5.3
2014	7.06	3.63	0.234	3.16	0.42	0.78	0.15	2.18	2.07	3.24	0.68	-	<0.10*1	-	-	4.9

Table 6.5(12) Annual mean values of each parameters from 2007 to 2014 at Tembaling River (Malaysia)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC	Alkalinity	SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	Mg^{2+}	Transparency	PO_4^{3-}	NO_2^-	DOC	COD
		mS/m	meq/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	m	mg/L	mg/L	mg/L	mg/L
2007	6.80	13.9	1.640	7.03	0.63	2.20	0.05	3.01	3.37	16.5	8.68	-	-	-	-	-
2008	7.07	18.6	1.850	8.10	0.75	1.20	0.01	5.83	0.40	22.0	10.4	-	-	-	-	-
2009	7.97	20.3	1.975	9.38	0.72	1.33	0.01	6.25	0.53	20.5	10.2	-	-	-	-	-
2010	8.11	21.8	2.070	9.94	0.59	1.55	0.03	6.99	0.81	18.4	16.0	-	<0.10*1	-	-	4.0
2011	8.18	17.4	1.626	7.23	1.19	1.35	0.01	4.99	0.40	16.3	7.50	-	<0.10*1	-	-	7.8
2012	8.06	17.8	1.796	6.11	0.29	1.18	0.01	4.71	0.25	19.4	9.20	-	<0.10*1	-	-	4.5
2013	8.05	19.2	1.905	5.50	0.38	1.20	0.04	5.73	0.38	20.4	10.7	-	<0.10*1	-	-	4.6
2014	7.82	20.8	1.996	7.79	0.47	1.02	0.04	6.39	0.57	21.5	11.0	-	<0.10*1	-	-	4.8

- : Items were not analyzed.

*1: Less than determination/detection limit.

Table 6.5(13) Annual mean values of each parameters from 2002 to 2013 at Terelj River (Mongolia)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC	Alkalinity	SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	Mg^{2+}	Transparency	PO_4^{3-}	NO_2^-	DOC	COD
		mS/m	meq/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	m	mg/L	mg/L	mg/L	mg/L
2002	7.23	4.84	0.098	3.47	1.11	0.43	0.04	1.87	0.52	7.17	0.87	-	-	-	-	-
2003	6.75	4.60	0.266	3.16	0.74	0.36	0.04	1.65	0.48	5.88	0.83	-	-	-	-	-
2004	6.80	4.44	0.296	2.76	0.70	0.54	0.06	1.60	0.72	5.93	0.89	-	-	-	-	-
2005	6.90	4.84	0.367	3.18	0.82	0.56	0.05	1.95	0.68	8.90	1.04	-	-	0.003	-	-
2006	6.99	5.07	0.327	3.60	0.79	0.46	0.11	2.07	0.62	9.04	1.07	-	-	0.003	-	-
2007	6.89	5.06	0.339	3.18	0.79	0.57	0.07	2.22	0.55	8.63	1.03	-	<0.005*1	0.003	-	-
2008	6.36	6.59	0.282	3.82	1.33	0.73	<0.01*1	1.93	0.60	13.7	1.00	-	0.007	<0.005*1	-	-
2009	7.13	4.70	0.331	3.47	0.49	0.41	<0.01*1	1.66	0.58	5.41	0.76	-	-	<0.005*1	-	-
2010	6.67	5.57	0.380	4.47	0.86	0.78	0.13	2.17	1.19	7.52	1.15	-	0.011	<0.005*1	-	-
2011	6.28	5.33	0.327	3.73	0.76	0.79	0.06	1.57	0.68	5.80	0.87	-	0.008	0.002	-	-
2012	7.24	4.55	0.318	-	-	-	-	-	-	-	-	-	0.008	0.006	-	-
2013	6.84	4.32	0.294	2.81	0.46	0.37	*1	1.46	1.01	6.13	0.83	-	-	-	-	-

Table 6.5(14) Annual mean values of each parameters from 2004 to 2014 at Pandin Lake (Philippines)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC	Alkalinity	SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	Mg^{2+}	Transparency	PO_4^{3-}	NO_2^-	DOC	COD
		mS/m	meq/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	m	mg/L	mg/L	mg/L	mg/L
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	2.2	0.004	0.012	-	-
2007	7.76	17.6	1.708	0.52	0.10	3.37	0.26	7.28	6.29	12.1	9.03	-	0.002	0.013	-	-
2008	7.48	18.0	1.627	0.76	5.23	3.70	0.02	7.33	4.92	12.6	7.97	-	0.013	-	-	-
2009	7.68	18.7	1.813	0.66	5.72	3.78	1.02	8.61	4.35	14.1	7.32	1.8	0.087	-	-	-
2010	8.25	18.4	1.837	0.34	3.36	3.28	*1	8.79	5.59	13.1	8.49	-	0.060	-	-	-
2011	7.67	20.5	1.738	0.49	2.08	3.29	0.17	7.99	4.14	14.9	7.58	-	0.086	-	-	-
2012	7.95	17.6	1.683	1.53	0.48	3.45	0.06	8.19	4.43	14.1	7.59	-	*1	-	-	-
2013	7.29	17.7	1.725	0.56	0.16	3.19	0.10	8.17	4.24	15.6	7.89	-	0.004	*1	-	-
2014	7.64	20.5	2.145	0.22	0.14	2.54	0.04	7.00	3.70	19.1	9.09	-	-	*1	-	-

Table 6.5(15) Annual mean values of each parameters from 2005 to 2014 at Ambulalakao Lake (Philippines)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC	Alkalinity	SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	Mg^{2+}	Transparency	PO_4^{3-}	NO_2^-	DOC	COD
		mS/m	meq/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	m	mg/L	mg/L	mg/L	mg/L
2005	5.82	0.44	0.020	0.15	0.11	0.06	-	0.22	0.15	0.15	0.04	-	-	0.100	-	-
2007	5.49	0.53	0.031	0.46	0.12	0.25	0.02	0.37	0.13	0.40	0.10	-	*1	*1	-	-
2008	5.74	0.38	0.081	0.27	0.12	0.17	0.10	0.19	0.07	0.26	0.15	-	0.001	-	-	-
2009	5.72	30.3	0.275	23.1	14.8	9.27	0.13	6.54	0.33	32.6	2.84	-	-	-	-	-
2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2013	5.75	0.52	0.060	*1	*1	0.39	*1	0.56	0.13	0.49	0.11	-	-	-	-	-
2014	5.69	0.52	0.023	0.11	*1	0.20	0.21	0.46	0.35	0.59	0.12	-	-	-	-	-

- : Items were not analyzed.

*1: Less than determination/detection limit.

Table 6.5(16) Annual mean values of each parameters from 2004 to 2014 at Pereemnaya River (Russia)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC	Alkalinity	SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	Mg^{2+}	Transparency	PO_4^{3-}	NO_2^-	DOC	COD
		mS/m	meq/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	m	mg/L	mg/L	mg/L	mg/L
2004	6.55	3.93	0.135	7.18	0.76	0.23	0.03	1.10	0.77	3.23	0.94	2.0	0.008	0.002	-	-
2005	6.80	4.03	0.135	7.84	0.66	0.20	0.03	0.96	0.71	3.29	1.04	-	0.002	0.005	-	0.8
2006	6.74	3.95	0.140	7.49	0.81	0.20	0.04	1.07	0.75	3.36	1.02	-	0.004	0.002	1.5	1.1
2007	6.59	4.21	0.135	8.98	0.91	0.18	0.11	1.06	0.76	3.92	0.85	-	0.004	0.003	1.6	1.0
2008	6.68	4.87	0.155	9.77	1.03	0.13	0.03	0.93	0.60	4.78	1.05	-	0.007	0.002	1.0	0.8
2009	6.66	4.87	0.128	11.7	0.85	0.14	0.02	1.00	0.60	4.94	0.97	-	0.005	0.002	-	0.6
2010	6.88	5.14	0.127	12.9	0.79	0.20	0.03	0.99	0.66	5.18	1.05	-	0.007	0.002	-	1.1
2011	6.85	4.79	0.138	11.4	0.67	0.16	0.02	1.02	0.68	4.97	0.83	-	0.004	0.003	-	0.9
2012	6.61	4.21	0.139	9.49	0.38	0.17	0.09	0.95	0.63	4.42	0.67	-	0.005	0.002	-	1.2
2013	6.76	4.61	0.134	11.1	0.57	0.13	0.02	1.00	0.65	4.92	0.82	1.9	0.008	0.002	-	1.0
2014	6.69	4.66	0.142	11.2	0.58	0.19	0.01	1.30	0.78	4.87	0.78	1.9	0.009	0.002	-	1.2

Table 6.5(17) Annual mean values of each parameters from 2005 to 2014 at Komarovka River (Russia)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC	Alkalinity	SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	Mg^{2+}	Transparency	PO_4^{3-}	NO_2^-	DOC	COD
		mS/m	meq/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	m	mg/L	mg/L	mg/L	mg/L
2005	7.24	8.75	0.495	11.18	0.33	3.09	0.15	3.34	0.60	9.07	2.25	-	*1	*1	-	-
2006	7.08	8.37	0.428	9.02	0.26	3.12	0.08	3.10	0.57	8.51	2.27	-	0.014	0.003	-	-
2007	7.15	8.68	0.395	10.51	0.26	4.03	0.09	3.39	0.65	8.04	2.34	-	0.010	0.025	-	4.3
2008	7.22	8.68	0.391	12.08	0.52	3.06	0.09	3.80	0.62	8.14	2.08	-	0.030	0.053	-	3.6
2009	7.02	8.64	0.351	12.59	1.11	3.69	0.22	3.57	0.60	8.21	2.07	-	0.041	0.067	-	4.4
2010	6.99	8.32	0.445	8.62	0.99	3.33	0.19	3.21	0.46	8.29	2.12	-	0.013	0.036	-	4.0
2011	7.09	8.86	0.405	12.67	1.63	3.11	0.27	3.88	0.74	8.58	2.22	-	0.010	0.018	-	4.4
2012	6.99	8.54	0.384	9.61	1.33	3.88	0.45	3.53	0.79	7.88	2.37	-	0.015	0.038	-	5.1
2013	6.84	8.45	0.372	11.87	1.27	3.61	0.16	3.44	0.64	7.71	2.66	-	0.006	0.027	-	4.1
2014	6.91	8.45	0.368	11.76	2.81	3.16	0.14	3.52	0.72	8.29	2.27	-	0.005	0.033	-	4.6

Table 6.5(18) Annual mean values of each parameters from 2002 to 2014 at Vachiralongkorn Dam (Ban Pong Chang) (Thailand

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC	Alkalinity	SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	Mg^{2+}	Transparency	PO_4^{3-}	NO_2^-	DOC	COD
		mS/m	meq/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	m	mg/L	mg/L	mg/L	mg/L
2002	7.52	12.1	0.625	1.15	0.04	0.89	*1	1.14	1.01	13.3	2.98	5.3	0.024	*1	-	4.0
2003	7.45	10.8	0.625	1.29	0.01	0.84	*1	1.14	0.97	16.2	3.52	5.0	*1	*1	-	5.8
2004	7.77	11.5	1.050	1.27	0.20	0.98	0.05	1.18	0.97	15.7	3.26	5.6	0.023	0.010	-	7.5
2005	7.33	11.2	1.276	1.47	0.11	1.05	0.01	1.26	1.02	15.8	3.12	3.6	0.010	0.010	-	<4.0*1
2006	7.21	10.4	1.125	1.31	0.20	0.85	0.06	1.14	1.03	16.2	3.17	4.6	<0.01*1	<0.01*1		10.0
2007	7.80	10.4	1.090	1.17	0.20	0.75	0.01	1.21	0.96	16.5	3.26	5.1	0.010	0.010	-	5.2
2008	7.71	10.6	1.178	1.11	0.05	0.75	<0.01*1	1.16	0.97	16.3	3.23	4.4	<0.01*1	0.010	-	6.8
2009	7.79	10.8	1.111	1.33	0.06	0.74	-	1.16	0.95	16.1	3.39	4.4	0.010	<0.01*1	-	-
2010	7.70	11.8	1.176	1.55	0.06	0.83	0.01	1.24	1.01	16.6	3.62	3.6	0.010	0.010	-	4.7
2011	7.38	12.8	1.178	1.43	0.07	0.82	0.01	1.22	1.04	17.9	3.70	3.0	0.012	<0.01*1	-	5.7
2012	7.32	11.8	1.150	1.22	0.19	0.94	0.03	1.21	1.12	16.8	3.53	3.2	0.010	-	-	8.5
2013	7.67	13.5	1.186	1.10	0.10	0.87	0.01	1.21	1.02	17.0	3.81	2.8	0.010	-	-	-
2014	7.55	5.6	1.138	1.64	0.09	0.88	0.04	1.20	0.95	16.7	3.29	3.8	0.010	-	-	-

- : Items were not analyzed.

*1: Less than determination/detection limit.

Table 6.5(19) Annual mean values of each parameters from 2002 to 2014 at Vachiralongkorn Dam (Ban Pang Pueng) (Thailand

	Mandatory Parameters : 4 times/year										Mandatory Parameters : Once/year				
	pH	EC	Alkalinity	SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	Mg^{2+}	Transparency	PO_4^{3-}	NO_2^-	DOC	COD
		mS/m	meq/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	m	mg/L	mg/L	mg/L	mg/L
2002	7.31	12.0	0.633	1.24	0.06	0.90	*1	1.19	0.99	13.3	2.90	5.5	0.034	*1	-	3.0
2003	7.87	10.5	0.590	1.41	0.01	0.84	*1	1.17	0.98	16.2	2.94	5.8	*1	*1	-	7.3
2004	7.24	11.1	1.005	1.54	0.20	0.95	0.05	1.21	1.03	16.0	2.83	8.1	0.020	0.010	-	5.0
2005	6.98	11.2	1.015	1.29	0.11	1.15	0.03	1.52	1.02	16.2	2.98	4.4	0.135	0.010	-	*1
2006	7.12	10.0	1.046	1.44	0.20	0.83	0.03	1.14	1.04	16.2	2.64	5.0	<0.01*1	<0.01*1		11.0
2007	7.84	10.2	1.050	1.25	0.20	0.70	0.01	1.13	0.98	16.8	2.98	5.3	0.010	0.010	-	4.0
2008	7.78	9.88	1.104	1.49	<0.06*1	0.75	<0.01*1	1.17	1.00	15.7	2.49	4.4	<0.01*1	0.010	-	4.7
2009	7.93	10.3	1.065	1.42	0.06	0.73	-	1.14	2.04	15.9	2.79	4.6	0.010	<0.01*1	-	-
2010	7.79	11.2	1.113	1.61	0.06	0.76	0.01	1.16	0.99	16.4	2.86	4.1	0.010	0.010	-	7.1
2011	7.41	11.8	1.098	1.51	0.07	0.79	0.02	1.18	0.98	16.9	2.92	3.5	0.010	<0.01*1	-	8.4
2012	7.30	9.41	1.048	1.85	0.08	0.86	0.03	1.17	1.08	16.3	2.80	3.8	0.010	-	-	6.9
2013	7.90	11.1	1.093	1.26	0.10	0.83	0.01	1.14	1.01	16.8	2.88	4.0	0.010	-	-	-
2014	7.75	5.5	1.091	1.46	0.07	0.89	0.03	1.22	0.96	16.5	2.70	4.0	0.011	-	-	-

Table 6.5(20) Annual mean values of each parameters from 2001 to 2014 at Hoa Binh Reservoir (Vietnam)

	Mandatory Parameters : 4 times/year										Mandatory Parameters : Once/year				
	pH	EC	Alkalinity	SO_4^{2-}	NO_3^-	Cl^-	NH_4^+	Na^+	K^+	Ca^{2+}	Mg^{2+}	Transparency	PO_4^{3-}	NO_2^-	DOC	COD
		mS/m	meq/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	m	mg/L	mg/L	mg/L	mg/L
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	0.7	0.005	0.006	-	2.2
2007	7.62	19.1	1.613	8.14	1.44	1.54	0.11	3.53	1.48	24.9	4.64	0.9	0.015	0.016	-	1.9
2008	7.73	18.3	1.533	7.36	1.04	1.65	0.04	2.33	0.91	22.9	5.01	1.5	0.021	0.025	-	2.2
2009	7.98	16.7	1.390	6.55	0.67	2.05	0.02	3.10	0.84	20.8	4.49	1.1	0.019	0.010	-	1.4
2010	7.80	17.7	1.420	7.26	1.66	2.07	0.11	4.20	1.56	23.3	2.94	1.0	0.013	0.014	-	0.9
2011	7.43	18.5	1.540	7.36	1.59	2.26	0.07	3.51	1.26	23.2	4.55	1.1	0.010	0.012	-	3.4
2012	7.10	17.7	1.518	4.67	1.52	2.13	0.12	3.59	1.39	23.1	4.25	1.0	0.010	0.016	-	4.3
2013	7.54	17.2	1.435	6.92	1.04	2.41	0.14	4.96	1.58	20.0	5.31	1.1	0.008	0.006	-	3.7
2014	7.65	17.2	1.500	5.13	0.80	1.64	0.02	3.05	1.31	22.3	4.50	1.1	0.019	0.012	-	3.5

- : Items were not analyzed.

*1: Less than determination/detection limit.

CHAPTER 7

Catchment-scale Monitoring

7. Catchment-scale Monitoring

7.1 Method

The Guideline for Catchment-scale Monitoring in East Asia (2010) recommended to measure input from atmosphere (total deposition), output from the catchment (discharge from the stream), and some biogeochemical processes in selected small forest catchments to discuss relationship between seasonal or annual changes in stream water chemistry and those in atmospheric deposition. Material/elemental input-output budget in the catchment can be calculated based on the atmospheric deposition chemistry, stream water chemistry, and water balance. Based on the catchment-scale dataset, the simulation model on biogeochemical cycles is expected to be developed.

7.1.1 Field Operation

Recommended methods and proposed frequency of major monitoring items in the field are summarized in Table 7.1. The existing EANET technical documents can be referred in the field operation for the items. Moreover, the existing EAENET data on wet and dry deposition collected at the nearest the monitoring sites can be used to calculate total deposition. Similarly, the existing EANET data on soil and vegetation can be referred as the relevant information on biogeochemical processes.

Table 7.1 Methods and frequency of major monitoring items

Items to be monitored		Recommended methods	Proposed frequency
Input (total deposition)	Precipitation amount	Rain gauge	Continuously or daily
	Wet deposition[*1]	Wet-only sampling	Daily or weekly
		Bulk sampling (when electricity is not available)	Weekly or biweekly
	Dry deposition[*1]	Inferential method: based on Filter pack data and Meteorological data	Weekly (for filter pack method)
		Automatic monitors (alternative for air concentration)	Continuously
	Total deposition	Wet + Dry	Biweekly or monthly
		Throughfall–Stemflow method (when electricity is not available)	Biweekly

Output (discharge from the stream)	Water discharge	Weir	Continuously or biweekly
		H-Q curve method (when a weir is not available)	
	Stream water chemistry	Periodical collection of stream water	Weekly or biweekly
		Intensive sampling	During heavy-rain or snow-melting events
	Chemical discharge	Calculation based on the water flux and the chemical concentration	Biweekly, monthly or annual
Soil	Soil chemistry[*1]	Collection from the permanent plots	Once for several years
Vegetation	Plant growth[*1]	Measurement of tree size (diameter at breast height, height of tree and name of species)	Once for several years

Note. *1, The relevant EANET data can be referred.

7.1.2 Laboratory Operation

Table 7.2 Chemical parameters for the respective items

Items	Parameters to be measured
Rainwater samples	Mandatory: SO_4^{2-}, NO_3^-, Cl^-, NH_4^+, Ca^{2+}, Mg^{2+}, Na^+, K^+, Electric conductivity (EC), and pH Optional: Total organic nitrogen (TON), Total organic carbon (TOC)
Stream water samples	Mandatory: SO_4^{2-}, NO_3^-, Cl^-, NH_4^+, Ca^{2+}, Mg^{2+}, Na^+, K^+, Electric conductivity (EC), pH, and Alkalinity (Gran's ANC and/or pH 4.8 endpoint) Optional: SiO_2, TON, TOC, Total dissolved Al
Air concentrations (by filter pack method)	Cations: NH_4^+, Ca^{2+}, Mg^{2+}, Na^+, and K^+, Anions: SO_4^{2-}, NO_3^-, and Cl^-, Gasses: SO_2, HNO_3, HCl, and NH_3
Soil chemistry	pH (H_2O), pH (KCl), Exchangeable Base Cations (Ca, Mg, K and Na), Exchangeable Acidity, Al and H, Effective Cation Exchangeable Capacity

Chemical parameters to be measured for the respective monitoring items were shown in Table 7.2. Basically, the parameters are same as those for other EANET monitoring items. The existing EANET technical documents can also be referred in the laboratory

operation.

7.1.3 Data Management

Data quality was controlled and assured according to the EANET QA/QC program. In particular, for rainwater and stream water samples, ion balance (R_1) and conductivity check (R_2) can be applied to check the analytical results as same as monitoring on wet deposition and inland aquatic environment.

The data should be evaluated on a catchment scale. The input- output budget should be calculated based on the atmospheric deposition chemistry, stream water chemistry, and water balance to outline the material/elemental cycles in the catchment. The standard units should be used for the input and output. Recommended basic units for evaluation is as follows:

- Water flux (precipitation amount and stream water discharge): mm
- Chemical concentration: $mol_c\ L^{-1}$ (ex. $\mu mol_c\ L^{-1}$ or $mmol_c\ L^{-1}$)
- Ion flux (deposition, discharge or soil/vegetation flux): $mol_c\ ha^{-1}$ or $mol_c\ m^{-2}$
- Elemental flux for N and S: $kg\ ha^{-1}\ y^{-1}$ or $g\ m^{-2}\ y^{-1}$

Based on the compiled data with the standard units on a water-year basis, initial evaluations should be done for the following items:

- Water balance on a catchment-scale: input, output and possible evapotranspiration
- Material/elemental balance on a catchment-scale: input-output budget

Dataset should be submitted to Network Center after an initial evaluation is done by the national center. Since the catchment-scale data should be evaluated based on the water year, the dataset should be compiled on a water-year basis of the respective catchment sites.

7.1.4 Monitoring sites

Several EANET countries have the experience on catchment-scale analysis as research activities and/or national monitoring activities. Many research projects were conducted by universities and institutes in China and Japan. The case studies have been conducted in Japan, Malaysia and Thailand as the EANET joint research projects. Moreover, the new site in the Philippines is under preparation. Some countries may have an intention to start the regular catchment-scale monitoring as a part of the EANET activities.

Japan submitted the data of the water year 2013-2014, based on the regular catchment-scale monitoring in the Lake Ijira Catchment, which was started in 2007. Site characteristics and the survey outline were shown in Table 7.3 and 7.4, respectively. Map of the Lake Ijira catchment site is shown in Figure 7.1.

Table 7.3 Site for the catchment-scale monitoring

Country	Site name (and name of river/stream)	Catchment area (km^2)	Geology and soil type	Coverage of forest (%) and major species	Start year
Japan	Lake Ijira Catchment (Kamagatani River)	2.98	Chert Cambisols (brown forest soils)	99.6%, Japanese cedar (*Cryptomeria japonica),* Japanese cypress (*Chamaecyparis obtusa),* and Japanese red pine (*Pinus densiflora)*	November 2007 (the water year here: from November to the next October)

Table 7.4 Survey outline for the catchment-scale monitoring

Site	Items	Detailed items
Lake Ijira Catchment	Input (total deposition)	1. Precipitation amount (at 3 points)[*1] 2. Wet deposition[*1] 3. Dry deposition (Air concentration measurement for Inferential method)[*1] 4. Total deposition (calculated as wet+dry)
	Output (chemical discharge from the stream)	1. Water discharge (by H-Q curve method) 2. Stream water chemistry: biweekly 3. Chemical discharge
	Soil[*2]	Soil chemical properties
	Vegetation[*2]	1. Plant growth (field measurement) 2. Species composition (field measurement)

Note: [*1], The EANET data collected at the Ijira deposition monitoring site will be used; *2, The EANET data collected in the Lake Ijira soil and vegetation monitoring plots will be referred.

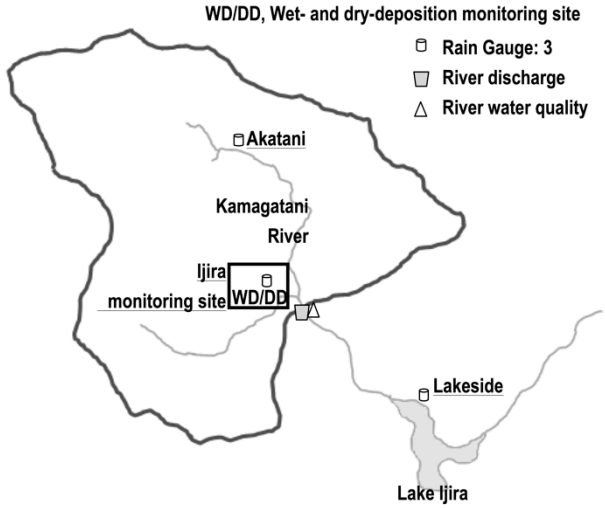


Figure 7.1 Sampling design at the Lake Ijira catchment site

The area surrounded by a bold line indicates the catchment area for calculation of the material budget.

7.2 Results of Monitoring

The list of the dataset submitted to NC was shown in Table 7.5.

Table 7.5 List of the dataset submitted for Data Report 2014

Site	Items	Detailed items	Water year
Lake Ijira Catchment	Input (total deposition) [*1]	1. Precipitation amount (at 3 points) [*2] Calculation of total deposition is still under discussion for precise estimation.	2013-2014 [*3]
	Output (chemical discharge from the stream)	1. Water discharge 2. Stream water chemistry: biweekly 3. Chemical discharge	2013-2014 [*3]

Note. [*1], The data of wet deposition and dry deposition (air concentration) in the Ijira deposition monitoring site for the same period can be found in Data Reports 2013 and 2014; [*2], Precipitation data at 3 points (approx. 260, 140 and 110 m above sea level) including the Ijira deposition monitoring site were submitted; *3, The water year was defined as the period from November to October in the following year. Soil chemical properties, plant growth and understory-species composition are surveyed in 2011 as a part of soil and vegetation monitoring.

The submitted data above were summarized in the following tables.

Table 7.6: Water balance in the catchment

Table 7.7: Stream water chemistry

Table 7.8: Periodic chemical discharges from the stream

Table 7.9: Annual chemical discharges from the stream

Table 7.6 Water balance in the catchment: Lake Ijira Catchment

Fluxes[*1]	Points	Water year[*2]
		2013-2014
Input by precipitation, mm y^{-1}	Akatani (260 m)	3569
	Ijira monitoring site (140 m)	2845
	Lakeside (110 m)	3050
	Mean	3154
Output by the stream, mm y^{-1}	Outlet of Kamagatani River	2518
Runoff rate, %		80

Note. [*1], Fluxes were calculated based on the catchment area, 2.98 km^{-2}, at the outlet of Kamagatani River; [*2], The water year: from November to the next October.

Table 7.7 Stream water chemistry: Lake Ijira Catchment (Water year 2013-2014)

Collection date	pH	EC	Gran's ANC*1	SO_4^{2-}	NO_3^-	Cl^-	Na^+	Ca^{2+}	Mg^{2+}	K^+	NH_4^{+}*2,	TOC	SiO_2	Water level, m
		$mS\ m^{-1}$				$\mu mol_c\ L^{-1}$						$mg\text{-}C\ L^{-1}$	$mg\text{-}SiO_2\ L^{-1}$	
2013/11/5	6.98	4.01	124	136	21.9	59.2	93.9	133	123	6.3	< 3.0	0.33	8.4	0.26
2013/11/18	6.96	4.21	119	155	22.0	59.9	96.9	138	128	6.1	< 3.0	0.3	8.2	0.23
2013/12/2	6.95	4.27	118	165	21.6	60.1	98.4	144	134	6.0	3.4	0.4	7.9	0.22
2013/12/16	6.92	4.35	100	161	29.4	66.1	94.5	146	137	5.8	3.2	0.3	7.8	0.25
2014/1/6	6.89	4.26	114	165	22.8	62.0	96.4	146	135	5.4	3.4	0.2	7.8	0.23
2014/1/20	6.87	4.34	111	172	22.4	61.3	98.6	150	139	5.4	3.9	0.3	7.7	0.23
2014/2/3	6.88	4.49	121	171	25.9	60.6	99.4	156	145	5.7	3.7	0.3	7.8	0.24
2014/2/17	6.96	4.34	117	170	29.2	60.4	96.8	149	139	5.6	3.6	0.2	7.8	0.25
2014/3/3	6.96	4.35	128	159	27.0	57.5	93.2	138	130	5.4	< 3.0	0.8	8.7	0.25
2014/3/17	6.98	4.13	102	144	27.4	56.0	88.9	130	123	5.4	< 3.0	0.4	8.9	0.27
2014/3/26	6.95	4.10	122	142	25.0	56.2	88.9	132	124	5.7	< 3.0	0.7	8.8	0.29
2014/4/15	6.98	4.15	122	144	21.3	59.2	93.3	132	125	5.8	< 3.0	0.5	9.3	0.24
2014/4/30	6.94	3.98	97	129	36.2	49.1	78.7	125	114	6.5	< 3.0	0.7	7.7	0.35
2014/5/15	7.04	4.31	133	146	25.1	54.6	92.2	138	126	6.3	4.2	0.4	9.2	0.25
2014/5/30	6.99	4.21	129	139	26.1	54.1	88.2	135	124	6.4	< 3.0	0.7	9.5	0.25
2014/6/16	7.05	4.57	168	157	21.0	55.7	97.0	145	133	7.7	< 3.0	0.5	9.7	0.23
2014/6/30	6.99	4.89	179	130	23.8	47.4	105	159	147	7.9	3.4	0.4	9.7	0.22
2014/7/15	7.04	3.51	111	105	22.5	61.1	81.5	103	97	7.1	< 3.0	0.6	9.6	0.31
2014/7/31	6.97	4.30	148	140	23.2	57.4	97.8	135	125	8.1	< 3.0	0.4	10.3	0.19
2014/8/14	6.89	3.71	117	111	28.4	54.1	81.4	110	100	7.3	< 3.0	0.9	9.5	0.25
2014/8/29	6.90	3.63	121	108	24.6	59.5	84.4	103	98	6.5	< 3.0	0.3	9.6	0.23
2014/9/16	6.89	4.11	141	129	23.1	56.0	91.2	127	118	6.7	< 3.0	0.4	9.8	0.14
2014/9/30	7.06	3.79	128	115	24.4	57.0	82.8	112	105	6.4	< 3.0	0.3	9.8	0.18
2014/10/15	6.97	3.48	111	103	29.4	54.9	76.3	101	96	6.4	< 3.0	0.3	9.4	0.28
2014/10/30	6.99	3.95	128	129	21.2	57.2	89.3	119	111	6.0	< 3.0	0.3	9.6	0.18

Note. The water year was difined as the period from November to October in the following year. *1, The data of the pH 4.8 endpoint alkalinity are also available. *2, The data was processed according to the determination limit decided by the data quality objectives (DQO) of EANET.

Table 7.8 Periodic chemical discharges from the stream: Lake Ijira Catchment (Water year 2013-2014)

Start date	End date	pH4.8	Gran's ANC	SO_4^{2-}	NO_3^-	Cl^-	Na^+	Ca^{2+}	Mg^{2+}	K^+	NH_4^+	H^+	TOC	SiO_2	Periodic discharge,
							$kmol_c\ ha^{-1}$						$kg\text{-}C\ ha^{-1}$	$kg\text{-}SiO_2\ ha^{-1}$	mm
2013/11/5	2013/11/18	0.10	0.10	0.12	0.02	0.05	0.08	0.11	0.10	0.005	ND	8.32E-05	0.24	6.60	79
2013/11/18	2013/12/2	0.09	0.08	0.11	0.01	0.04	0.07	0.10	0.09	0.004	0	7.44E-05	0.24	5.47	68
2013/12/2	2013/12/16	0.08	0.07	0.11	0.02	0.04	0.06	0.09	0.09	0.004	0	7.44E-05	0.23	5.09	65
2013/12/16	2014/1/6	0.17	0.15	0.23	0.04	0.09	0.14	0.21	0.20	0.008	0	1.80E-04	0.35	11.25	144
2014/1/6	2014/1/20	0.09	0.08	0.13	0.02	0.05	0.07	0.11	0.10	0.004	0	9.68E-05	0.17	5.80	74
2014/1/20	2014/2/3	0.09	0.08	0.12	0.02	0.04	0.07	0.11	0.10	0.004	0	8.96E-05	0.20	5.35	69
2014/2/3	2014/2/17	0.10	0.09	0.14	0.02	0.05	0.08	0.12	0.11	0.004	0	9.50E-05	0.22	6.17	79
2014/2/17	2014/3/3	0.11	0.11	0.14	0.02	0.05	0.08	0.12	0.12	0.005	0	9.56E-05	0.44	7.17	87
2014/3/3	2014/3/17	0.14	0.12	0.16	0.03	0.06	0.10	0.14	0.14	0.006	ND	1.13E-04	0.64	9.47	108
2014/3/17	2014/3/26	0.11	0.10	0.12	0.02	0.05	0.08	0.11	0.10	0.005	ND	8.92E-05	0.44	7.50	85
2014/3/26	2014/4/15	0.31	0.29	0.34	0.05	0.14	0.22	0.31	0.29	0.014	ND	2.49E-04	1.36	21.40	237
2014/4/15	2014/4/30	0.11	0.10	0.12	0.03	0.05	0.08	0.12	0.11	0.006	ND	9.42E-05	0.53	7.62	90
2014/4/30	2014/5/15	0.13	0.12	0.14	0.03	0.05	0.09	0.13	0.12	0.006	0	1.01E-04	0.55	8.6	101
2014/5/15	2014/5/30	0.15	0.13	0.14	0.03	0.05	0.09	0.14	0.13	0.006	0	9.56E-05	0.55	9.43	101
2014/5/30	2014/6/16	0.18	0.16	0.16	0.03	0.06	0.10	0.15	0.14	0.008	ND	1.01E-04	0.64	10.2	107
2014/6/16	2014/6/30	0.13	0.11	0.09	0.01	0.03	0.07	0.10	0.09	0.005	0	6.17E-05	0.28	6.27	65
2014/6/30	2014/7/15	0.52	0.45	0.37	0.07	0.17	0.29	0.41	0.38	0.024	0.01	2.97E-04	1.55	30.1	313
2014/7/15	2014/7/31	0.15	0.13	0.12	0.02	0.06	0.09	0.12	0.11	0.007	ND	9.82E-05	0.49	9.8	98
2014/7/31	2014/8/14	0.14	0.12	0.11	0.02	0.05	0.08	0.11	0.10	0.007	ND	1.09E-04	0.56	9.0	91
2014/8/14	2014/8/29	0.34	0.29	0.27	0.06	0.14	0.20	0.26	0.24	0.017	ND	3.18E-04	1.48	23.40	245
2014/8/29	2014/9/16	0.06	0.05	0.04	0.01	0.02	0.03	0.04	0.04	0.002	ND	4.82E-05	0.13	3.6	37
2014/9/16	2014/9/30	0.09	0.08	0.07	0.01	0.03	0.05	0.07	0.07	0.004	ND	6.43E-05	0.18	5.75	58
2014/9/30	2014/10/15	0.09	0.08	0.07	0.02	0.04	0.05	0.07	0.07	0.004	ND	6.71E-05	0.20	6.4	67
2014/10/15	2014/10/30	0.07	0.06	0.06	0.01	0.03	0.04	0.06	0.05	0.003	ND	5.33E-05	0.17	4.82	51

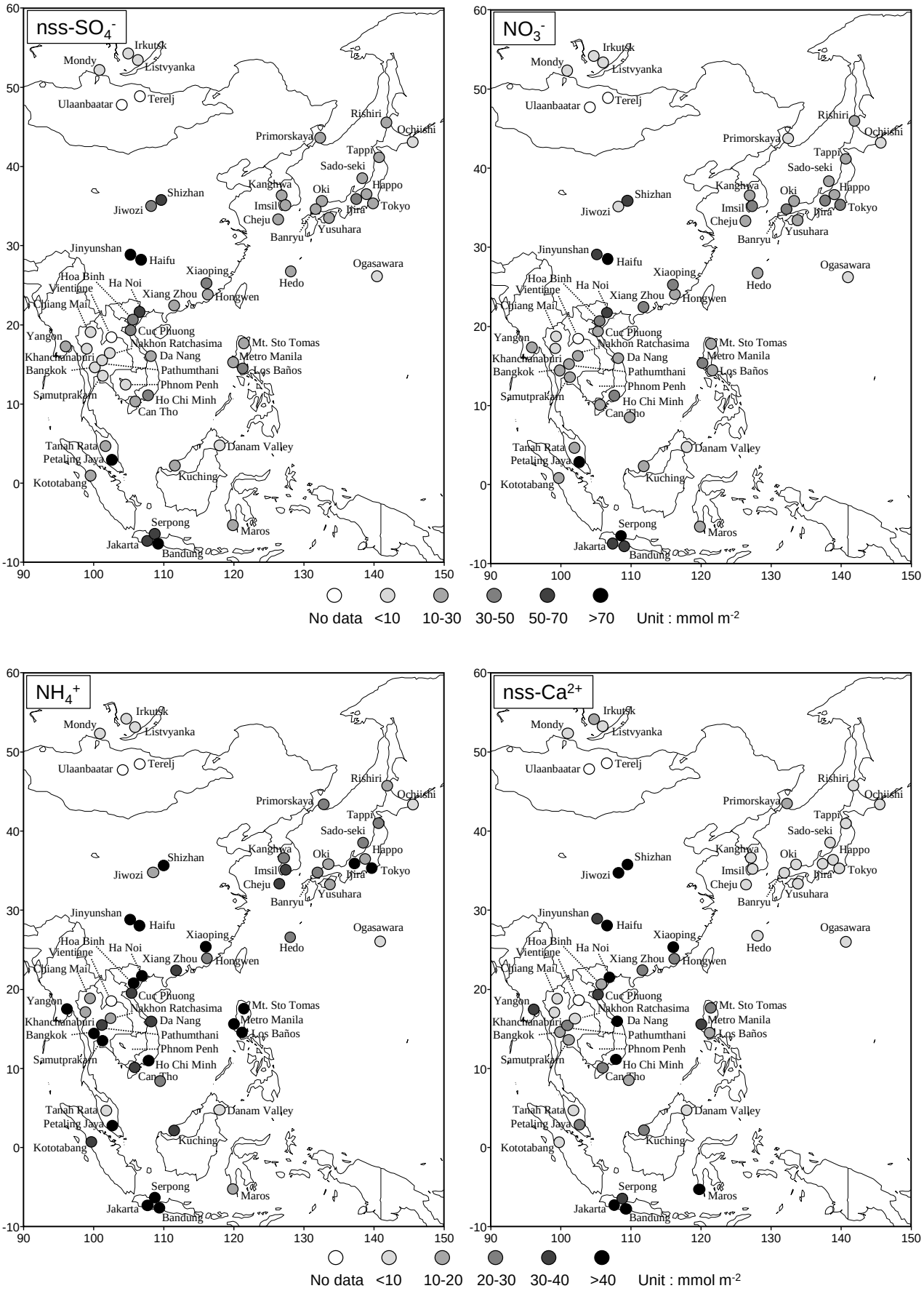
Note. Periodic chemical discharges were calculated based on the mean concentrations and the water discharge for the respective sampling intervals.

Table 7.9 Annual chemical discharges from the stream: Lake Ijira Catchment (Water year 2013-2014)

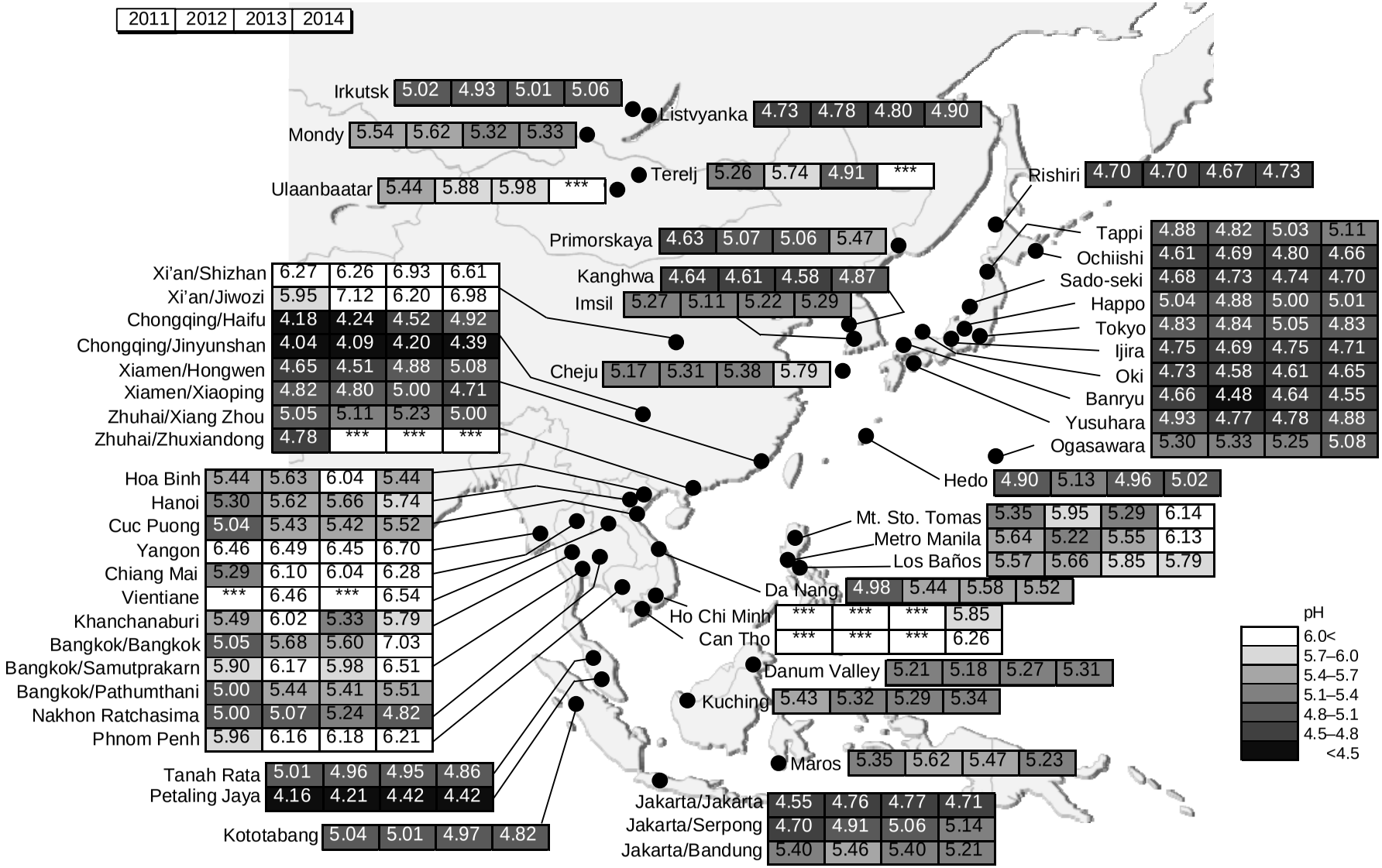
Water year	pH4.8	alkalinity Gran's ANC	SO_4^{2-}	NO_3^-	Cl^-	Na^+	Ca^{2+}	Mg^{2+}	K^+	NH_4^+	H^+	TOC	SiO_2
						$kmol_c\ ha^{-1}$						$kg\text{-}C\ ha^{-1}$	$kg\text{-}SiO_2\ ha^{-1}$
2013 - 2014	3.5	3.2	3.5	0.6	1.4	2.3	3.3	3.1	0.2	0.028	0.003	11.8	226

Appendix I

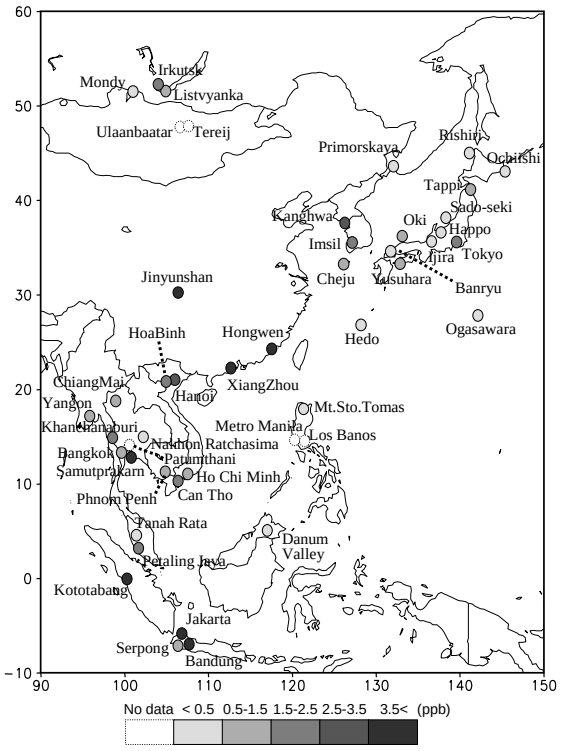
Overview of Data Report 2014



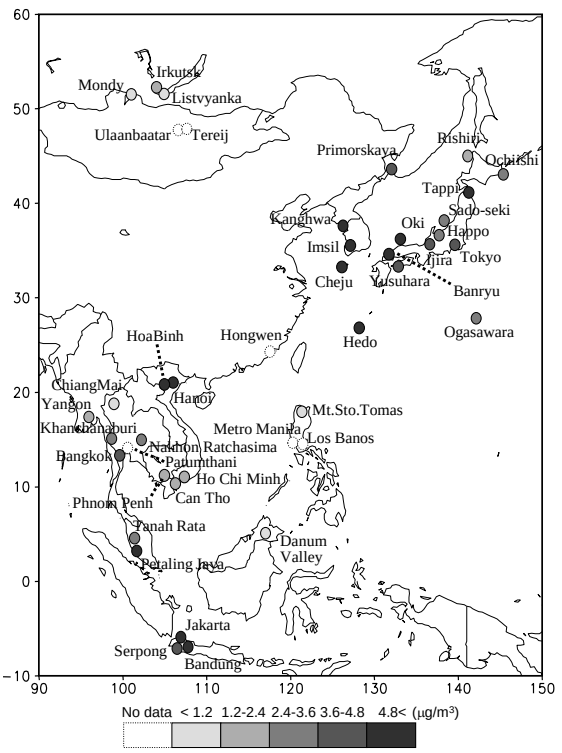
Appendix Fig. 1-1 Annual wet deposition levels of nss-SO_4^{2-}, NO_3^-, NH_4^+ and nss-Ca^{2+}



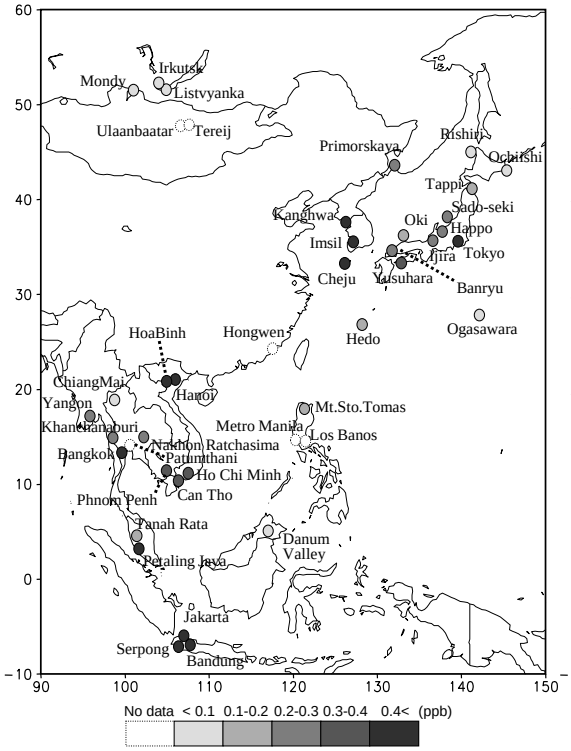
Appendix Fig. 1-2 Trends of pH in each EANET site from 2011 to 2014



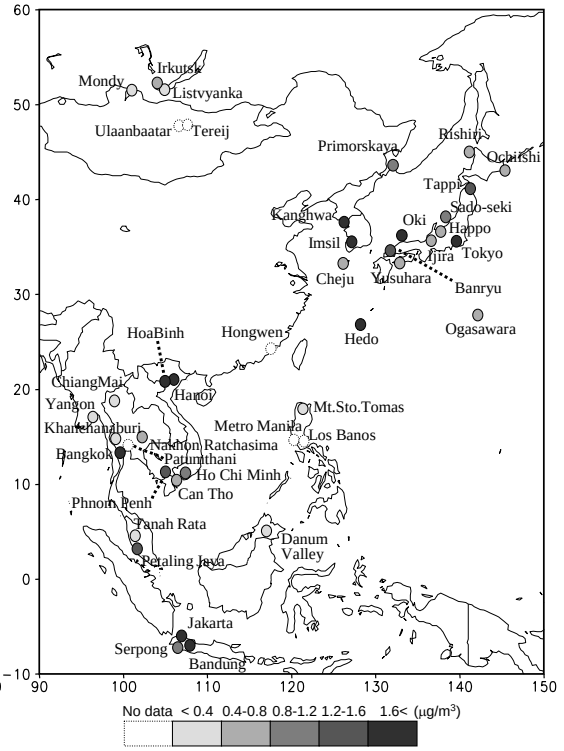
Appendix Fig. 1-3 Levels of annual SO_2 concentrations at EANET monitoring sites in 2014.



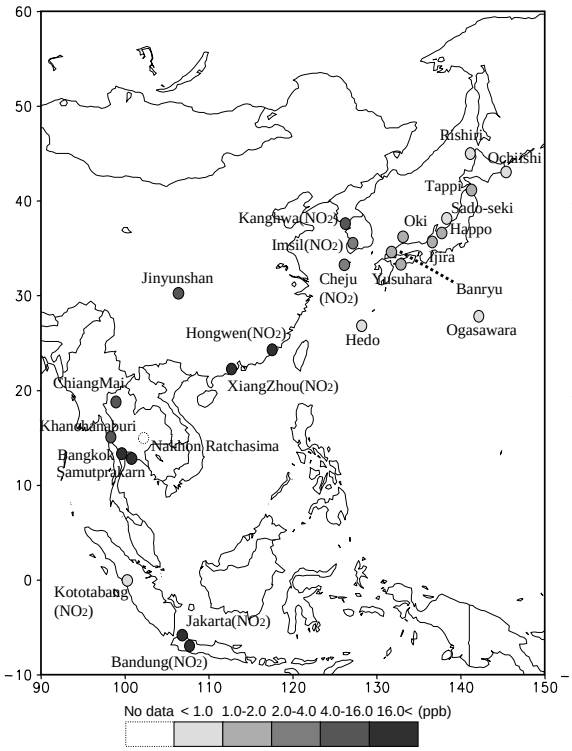
Appendix Fig. 1-4 Levels of annual particulate SO_4^{2-} concentrations at EANET monitoring sites in 2014.



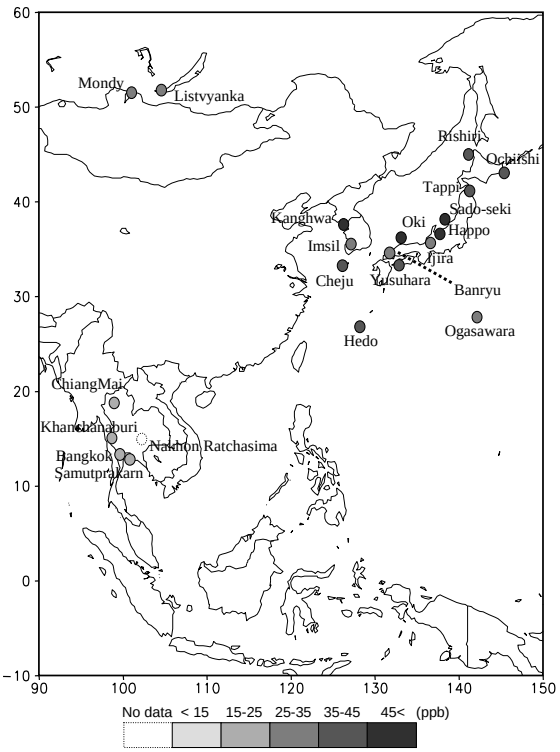
Appendix Fig. 1-5 Levels of annual HNO_3 concentrations at EANET monitoring sites in 2014.



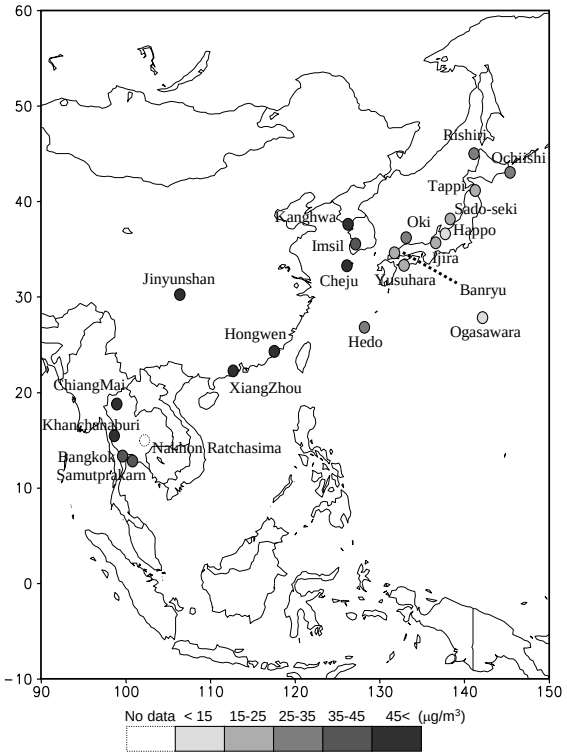
Appendix Fig. 1-6 Levels of annual particulate NO_3^- concentrations at EANET monitoring sites in 2014.



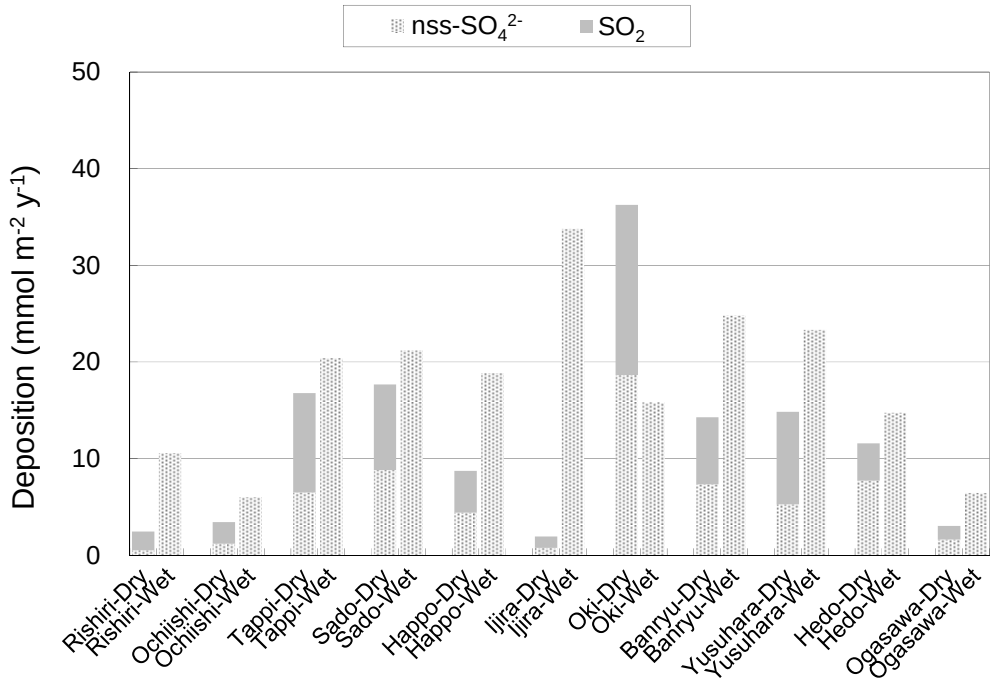
Appendix Fig. 1-7 Levels of annual NOx or NO_2 concentrations at EANET monitoring sites in 2014.



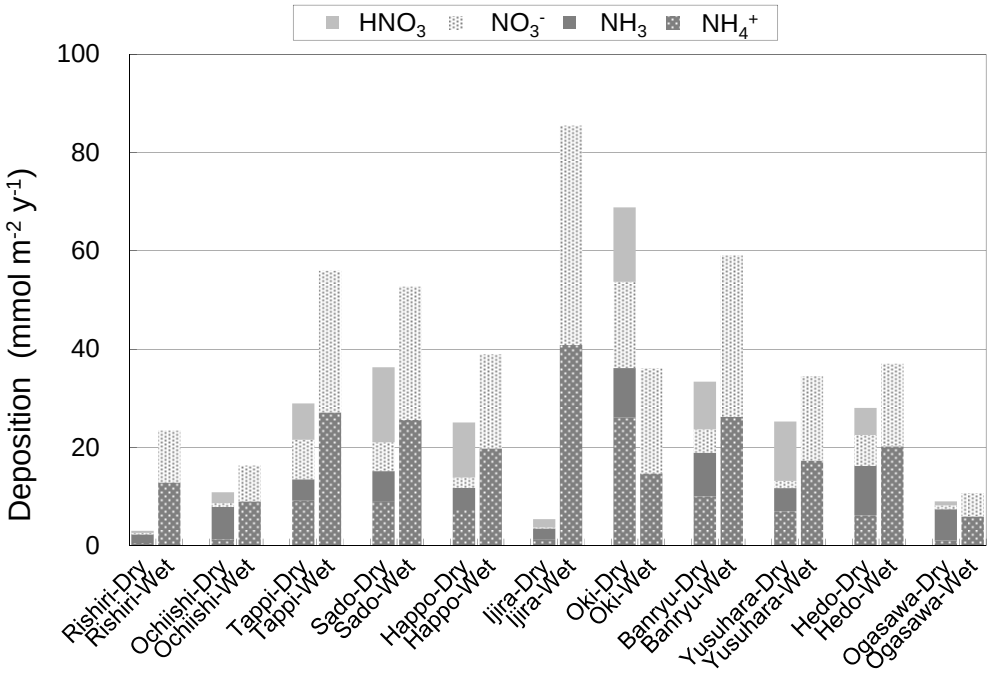
Appendix Fig. 1-8 Levels of annual O_3 concentrations at EANET monitoring sites in 2014.



Appendix Fig. 1-9 Levels of annual PM_{10} concentrations at EANET monitoring sites in 2014.



Appendix Fig. 1-10 Annual dry and wet deposition amount of sulfur compounds at EANET sites in 2014.



Appendix Fig. 1-11 Annual dry and wet deposition amount of nitrogen compounds at EANET sites in 2014.

Appendix II

Meteorological Statistics at the Monitoring Sites

Appendix Table 2-1 Meteorological statistics at the monitoring sites
Meteorological Statistics : Xi'an (China)

2014

Month / Items		1	2	3	4	5	6	7	8	9	10	11	12
Temperature (ºC)	monthly mean	2.9	2.3	12.0	16.1	21.1	26.0	29.1	25.1	20.3	16.4	8.9	2.2
	max.daily mean	8.5	5.8	17.9	21.3	26.8	32.0	35.1	30.2	24.2	21.3	13.0	7.3
	min.daily mean	-1.7	-0.1	7.3	12.2	15.9	21.0	24.1	21.2	17.7	12.9	5.8	-1.7
Relative humidity (%)	monthly mean	40	75	54	70	53	57	56	67	82	71	67	43
	max.daily mean	--	--	--	--	--	--	--	--	--	--	--	--
	min.daily mean	12	16	13	16	9	11	22	16	20	31	23	12
Mean wind speed (m/s)		2.0	2.4	2.3	2.3	2.5	2.3	2.8	2.6	2.4	2.2	2.0	2.1
Most frequent wind direction (bearings)		SW	NNE	NE	NNE	SSW	NE	NE	NE	NNE	NE	NNE	NE
Precipitation amount (mm/month)		0.3	16.2	13.9	65.6	53.4	62.7	80.3	96.8	230.3	20.7	19.5	0.5
Sunshine duration (hours/month)		181.5	55.4	162.5	126.0	209.3	193.9	288.0	191.4	112.0	105.0	141.0	175.8
Solar radiation (MJ/m^2/month)		--	--	--	--	--	--	--	--	--	--	--	--

Appendix Table 2-2 Meteorological statistics at the monitoring sites
Meteorological Statistics : Xiamen (China)

2014

Month / Items		1	2	3	4	5	6	7	8	9	10	11	12
Temperature (ºC)	monthly mean	13.4	12.7	15.7	20.0	22.7	26.5	29.4	28.7	28.6	23.9	20.4	13.9
	max.daily mean	18.6	17.0	19.7	24.3	26.2	30.2	33.7	33.1	32.8	28.6	24.4	17.7
	min.daily mean	10.2	10.3	13.2	17.4	20.4	24.6	26.6	26.1	25.9	20.8	18.0	11.3
Relative humidity (%)	monthly mean	65	82	78	79	90	86	78	81	76	65	74	64
	max.daily mean	--	--	--	--	--	--	--	--	--	--	--	--
	min.daily mean	24	40	27	34	29	31	42	45	47	28	32	17
Mean wind speed (m/s)		2.4	2.2	2.3	2.2	1.9	2.6	2.6	2.2	2.4	2.8	2.5	2.9
Most frequent wind direction (bearings)		ENE	E	ENE	ESE	E	ESE	SW	SE	E	NE	ENE	NE
Precipitation amount (mm/month)		0.1	105	57	69	285	254	130	88	28	5	25	38
Sunshine duration (hours/month)		203	91	79	134	68	142	290	247	229	213	144	132
Solar radiation (MJ/m^2/month)		--	--	--	--	--	--	--	--	--	--	--	--

Appendix Table 2-3 Meteorological statistics at the monitoring sites
Meteorological Statistics : Zhuhai (China)

2014

Month / Items		1	2	3	4	5	6	7	8	9	10	11	12
Temperature (ºC)	monthly mean	15.8	14.5	18.5	22.8	26.4	29.3	29.9	28.9	29.1	26.3	22.0	15.2
	max.daily mean	19.6	17.6	21.2	25.4	29.3	32.8	33.2	32.5	32.1	29.3	24.6	18.1
	min.daily mean	13.0	12.4	16.9	21.2	24.3	27.1	27.4	26.3	26.5	24.1	20.2	12.8
Relative humidity (%)	monthly mean	66	82	85	89	89	81	79	83	78	68	79	67
	max.daily mean	--	--	--	--	--	--	--	--	--	--	--	--
	min.daily mean	16	38	44	48	53	33	51	49	46	37	47	18
Mean wind speed (m/s)		2.2	2.3	2.4	2.9	2.8	2.6	2.6	2.5	2.9	2.5	2.2	2.4
Most frequent wind direction (bearings)		ENE	ESE	E	ESE	SW	WSW	ESE	WSW	ESE	E	NE	NE
Precipitation amount (mm/month)		0.0	42.7	118.8	159.5	617.2	171.6	165.7	373.8	106.4	36.8	45.4	53.4
Sunshine duration (hours/month)		221.9	94.7	71.8	105.9	159.8	216.5	263.1	262.3	248.5	227.2	132.9	111.5
Solar radiation (MJ/m^2/month)		--	--	--	--	--	--	--	--	--	--	--	--

Appendix Table 2-4 Meteorological statistics at the monitoring sites
Meteorological Statistics : Serpong (Indonesia)

2014

Month / Items		1	2	3	4	5	6	7	8	9	10	11	12
Temperature (ºC)	monthly mean	26.1	25.7	25.2	27.4	26.7	26.9	26.5	26.9	26.7	26.9	26.7	27.1
	max.daily mean	38.9	34.1	33.6	36.7	34.1	34.2	34.3	33.7	33.3	34.2	36.0	35.2
	min.daily mean	21.9	22.1	23.7	22.6	22.2	22.9	20.4	21.8	21.9	22.9	22.6	22.2
Relative humidity (%)	monthly mean	87	91	89	80	85	86	86	81	80	86	87	84
	max.daily mean	99	100	99	97	96	97	98	98	97	97	98	97
	min.daily mean	59	52	55	43	53	45	43	48	53	45	50	55
Mean wind speed (m/s)		0.3	0.2	0.1	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Most frequent wind direction (bearings)		WSW	N	WSW	N	N	SW	SW	SSW	SSW	WSW	WSW	WSW
Precipitation amount (mm/month)		532	321	823	882	445	291	272	213	42	76	191	237
Sunshine duration (hours/month)		--	--	--	--	--	--	--	--	--	--	--	--
Solar radiation (MJ/m^2/month)		--	--	--	--	--	--	--	--	--	--	--	--

Appendix Table 2-5 Meteorological statistics at the monitoring sites
Meteorological Statistics : Bandung (Indonesia)

2014

Month / Items		1	2	3	4	5	6	7	8	9	10	11	12
Temperature (ºC)	monthly mean	22.5	23.2	23.7	24.2	24.4	24.2	23.9	24.1	24.7	25.1	24.0	23.9
	max.daily mean	30.5	29.6	31.2	31.3	33.2	31.8	30.7	32.4	34.7	34.2	33.4	31.4
	min.daily mean	19.4	19.1	18.9	20.1	19.8	19.8	18.2	18.7	17.7	19.2	19.3	20.2
Relative humidity (%)	monthly mean	91	90	90	88	88	88	85	82	73	76	87	89
	max.daily mean	100	100	100	100	100	100	100	100	96	100	100	100
	min.daily mean	59	62	61	61	55	51	60	44	31	36	40	56
Mean wind speed (m/s)		2.5	1.8	1.2	1.1	0.7	0.9	1.1	1.3	1.5	1.4	1.0	1.4
Most frequent wind direction (bearings)		SSW	SSW	--	--	--	--	--	--	--	--	--	--
Precipitation amount (mm/month)		259	951	384	183	155	220	184	101	0	58	212	306
Sunshine duration (hours/month)		2.8	3.2	4.1	5.3	5.1	4.6	4.2	6.5	7.9	5.7	4.1	3.5
Solar radiation (MJ/m^2/month)		408	405	173	418	349	331	380	521	563	502	405	423

Appendix Table 2-6 Meteorological statistics at the monitoring sites
Meteorological Statistics : Rishiri (Japan)

2014

Month / Items		1	2	3	4	5	6	7	8	9	10	11	12
Temperature (ºC)	monthly mean	-5.8	-5.0	-2.0	3.2	9.3	15.5	19.4	19.4	15.8	10.1	4.2	-2.9
	max.daily mean	2.5	2.7	5.5	10.0	13.4	20.5	21.8	22.5	20.9	15.4	12.6	6.5
	min.daily mean	-10.4	-10.6	-6.6	-0.6	4.9	10.4	15.7	15.8	9.8	3.3	-0.9	-8.8
Relative humidity (%)	monthly mean	76	76	72	78	85	86	92	90	86	73	73	78
	max.daily mean	87	89	99	99	98	99	99	100	98	94	96	95
	min.daily mean	60	60	50	56	62	63	62	77	77	52	52	62
Mean wind speed (m/s)		3.7	3.6	3.2	2.5	2.9	1.7	1.6	2.1	2.6	3.1	3.7	4.1
Most frequent wind direction (bearings)		NW	NNW	WNW	NNW	ENE	W	SSW	NE	ENE	NW	W	NW, NNW
Precipitation amount (mm/month)		86	33	7	10	89	134	49	234	184	45	45	115
Sunshine duration (hours/month)		--	--	--	--	--	--	--	--	--	--	--	--
Solar radiation (MJ/m^2/month)		126	235	452	506	444	528	436	494	397	279	142	83

Appendix Table 2-7 Meteorological statistics at the monitoring sites
Meteorological Statistics : Ochiishi (Japan)

2014

Month / Items		1	2	3	4	5	6	7	8	9	10	11	12
Temperature (ºC)	monthly mean	-5.3	-5.2	-3.1	0.5	4.6	9.0	12.3	15.4	14.2	9.6	4.9	-1.8
	max.daily mean	1.1	-1.2	3.2	5.6	6.5	12.6	16.8	17.2	17.5	13.2	11.2	6.1
	min.daily mean	-10.1	-10.6	-5.6	-2.5	1.2	6.5	7.9	13.6	12.1	4.5	0.7	-5.9
Relative humidity (%)	monthly mean	67	75	78	79	90	98	97	96	86	76	73	64
	max.daily mean	97	100	100	100	100	100	100	100	100	100	100	100
	min.daily mean	52	54	45	58	70	71	86	84	65	55	45	40
Mean wind speed (m/s)		8.2	8.4	8.6	7.8	7.4	6.0	4.7	5.1	6.3	8.1	7.9	9.2
Most frequent wind direction (bearings)		NW	NW	W	WSW	WSW	WSW	SSE	WSW	SSW	SW	WSW	WNW
Precipitation amount (mm/month)		9	8	18	22	103	130	157	117	64	77	37	71
Sunshine duration (hours/month)		--	--	--	--	--	--	--	--	--	--	--	--
Solar radiation (MJ/m^2/month)		223	294	409	565	505	466	484	452	443	324	225	189

Appendix Table 2-8 Meteorological statistics at the monitoring sites
Meteorological Statistics : Tappi (Japan)

2014

Month / Items		1	2	3	4	5	6	7	8	9	10	11	12
Temperature (ºC)	monthly mean	-1.6	-3.7	--	--	--	--	23.6	21.7	18.8	13.2	8.4	0.5
	max.daily mean	5.1	1.0	--	--	--	--	24.4	25.5	22.7	18.0	15.1	9.2
	min.daily mean	-6.3	-6.7	--	--	--	--	23.5	18.4	15.3	6.1	2.5	-4.7
Relative humidity (%)	monthly mean	68	71	--	--	--	--	88	91	80	77	77	80
	max.daily mean	80	82	--	--	--	--	91	98	94	91	97	93
	min.daily mean	57	63	--	--	--	--	83	78	58	61	62	73
Mean wind speed (m/s)		10.4	9.8	--	--	--	--	3.8	5.5	4.8	6.0	8.2	11.1
Most frequent wind direction (bearings)		WSW	WSW	--	--	--	--	WSW	E	W	W	W	W
Precipitation amount (mm/month)		68	38	80	9	83	112	16	317	97	89	92	37
Sunshine duration (hours/month)		--	--	--	--	--	--	--	--	--	--	--	--
Solar radiation (MJ/m^2/month)		93	27	--	--	--	--	38	440	430	310	140	77

Appendix Table 2-9 Meteorological statistics at the monitoring sites
Meteorological Statistics : Sado-seki (Japan)

2014

Month / Items		1	2	3	4	5	6	7	8	9	10	11	12
Temperature (ºC)	monthly mean	2.1	1.4	5.2	10.7	15.7	20.1	23.4	24.3	20.9	15.5	11.1	3.1
	max.daily mean	9.8	9.5	16.1	17.1	22.7	24.5	28.5	28.8	25.6	20.0	17.1	12.1
	min.daily mean	-2.4	-5.4	-1.7	3.8	9.5	16.2	20.2	21.5	18.0	9.6	5.7	-1.1
Relative humidity (%)	monthly mean	69	72	72	61	67	78	83	82	73	71	72	78
	max.daily mean	85	94	94	96	96	97	95	98	89	93	91	95
	min.daily mean	54	55	41	27	30	41	61	65	60	50	46	54
Mean wind speed (m/s)		8.4	6.6	6.9	4.0	5.2	3.7	3.1	3.4	2.8	4.7	5.1	8.8
Most frequent wind direction (bearings)		W	W	WNW	WSW	WSW	WSW	WSW	WSW	WNW	ENE	W	W
Precipitation amount (mm/month)		61	52	116	31	60	77	307	84	117	214	133	128
Sunshine duration (hours/month)		--	--	--	--	--	--	--	--	--	--	--	--
Solar radiation (MJ/m^2/month)		117	143	294	571	573	581	570	426	490	311	183	67

Appendix Table 2-10 Meteorological statistics at the monitoring sites
Meteorological Statistics : Happo (Japan)

2014

Month / Items		1	2	3	4	5	6	7	8	9	10	11	12
Temperature (ºC)	monthly mean	-8.6	-8.5	-4.6	0.7	6.8	11.4	14.8	15.2	10.1	6.7	0.9	-7.7
	max.daily mean	-0.7	3.4	6.0	6.4	13.8	17.4	19.6	17.7	14.5	12.4	8.1	2.0
	min.daily mean	-14.0	-16.7	-14.5	-8.9	0.1	8.1	11.7	11.5	6.3	-1.1	-5.2	-12.9
Relative humidity (%)	monthly mean	77	77	75	66	72	90	93	97	94	83	86	91
	max.daily mean	97	97	96	98	97	98	98	98	99	99	99	99
	min.daily mean	24	37	33	40	41	43	64	93	68	43	59	31
Mean wind speed (m/s)		5.2	4.5	6.4	3.6	3.5	2.3	2.1	2.2	1.8	2.6	2.8	4.8
Most frequent wind direction (bearings)		NW	S	NNW	S	S	SSE	SSE	SSE	SSE	SSE	S	SSE
Precipitation amount (mm/month)		121	54	201	69	146	197	316	293	112	217	290	430
Sunshine duration (hours/month)		--	--	--	--	--	--	--	--	--	--	--	--
Solar radiation (MJ/m^2/month)		292	386	520	666	674	422	415	274	344	342	243	189

Appendix Table 2-11 Meteorological statistics at the monitoring sites
Meteorological Statistics : Ijira (Japan)

2014

Month / Items		1	2	3	4	5	6	7	8	9	10	11	12
Temperature (ºC)	monthly mean	1.5	2.7	5.9	11.4	15.7	20.6	23.3	23.2	19.9	15.3	9.8	1.6
	max.daily mean	4.5	9.5	11.8	15.3	21.8	22.6	26.7	26.2	22.2	19.8	15.0	10.8
	min.daily mean	-1.0	-1.6	-1.3	3.7	11.9	17.3	19.6	20.2	16.8	9.7	4.8	-1.7
Relative humidity (%)	monthly mean	88	77	86	75	79	87	91	96	87	92	93	97
	max.daily mean	99	99	98	99	98	98	98	98	99	99	99	99
	min.daily mean	73	59	68	40	61	66	79	85	70	78	79	85
Mean wind speed (m/s)		0.4	0.6	0.6	0.6	0.5	0.3	0.3	0.2	0.3	0.3	0.4	0.4
Most frequent wind direction (bearings)		Calm	Calm	Calm	Calm	Calm	Calm	Calm	Calm	Calm	Calm	Calm	Calm
Precipitation amount (mm/month)		77	124	282	136	186	97	421	722	264	300	136	315
Sunshine duration (hours/month)		--	--	--	--	--	--	--	--	--	--	--	--
Solar radiation (MJ/m^2/month)		245	271	372	422	513	437	393	261	367	263	211	167

Appendix Table 2-12 Meteorological statistics at the monitoring sites
Meteorological Statistics : Oki (Japan)

2014

Month / Items		1	2	3	4	5	6	7	8	9	10	11	12
Temperature (ºC)	monthly mean	4.9	4.3	7.9	12.6	17.1	20.5	24.0	23.7	22.3	16.7	12.9	5.7
	max.daily mean	11.8	13.0	16.0	17.5	22.0	23.9	28.8	27.6	70.5	20.6	17.8	10.7
	min.daily mean	0.8	-0.4	1.3	6.1	12.8	18.0	20.8	19.4	19.0	12.3	8.0	-0.1
Relative humidity (%)	monthly mean	83	83	83	75	79	89	93	94	87	84	81	80
	max.daily mean	99	99	99	95	98	98	99	99	96	98	98	91
	min.daily mean	65	73	65	40	46	50	80	86	68	69	64	64
Mean wind speed (m/s)		6.9	7.4	6.8	4.5	5.3	3.8	4.6	5.1	4.7	5.9	5.1	7.5
Most frequent wind direction (bearings)		N	NNE	N	S	S	NNE	S	S	NNE	NNE	W	W
Precipitation amount (mm/month)		77	32	124	29	79	25	106	262	32	130	45	102
Sunshine duration (hours/month)		--	--	--	--	--	--	--	--	--	--	--	--
Solar radiation (MJ/m^2/month)		197	225	397	583	657	528	518	225	--	--	--	--

Appendix Table 2-13 Meteorological statistics at the monitoring sites
Meteorological Statistics : Banryu (Japan)

2014

Month / Items		1	2	3	4	5	6	7	8	9	10	11	12
Temperature (ºC)	monthly mean	5.3	5.2	8.7	12.2	17.5	20.7	24.9	24.4	21.0	16.5	12.2	5.4
	max.daily mean	12.1	13.5	15.9	17.3	22.6	22.8	29.2	27.6	25.7	20.3	18.2	11.8
	min.daily mean	1.9	0.9	3.4	5.6	11.6	18.1	20.9	21.2	16.5	11.3	8.2	1.2
Relative humidity (%)	monthly mean	84	85	84	85	80	92	91	95	92	89	87	81
	max.daily mean	97	98	98	98	95	98	98	98	98	98	98	98
	min.daily mean	63	64	65	72	61	66	79	86	82	76	68	67
Mean wind speed (m/s)		3.0	3.3	3.5	2.5	2.5	2.0	1.9	2.0	2.6	3.4	2.5	3.7
Most frequent wind direction (bearings)		S	S	S	S	S	S	S	SSE	S	S	S	S
Precipitation amount (mm/month)		104	65	105	85	87	74	288	273	68	126	115	153
Sunshine duration (hours/month)		--	--	--	--	--	--	--	--	--	--	--	--
Solar radiation (MJ/m^2/month)		216	253	372	481	689	470	543	364	467	381	263	154

Appendix Table 2-14 Meteorological statistics at the monitoring sites
Meteorological Statistics : Yusuhara (Japan)

2014

Month / Items		1	2	3	4	5	6	7	8	9	10	11	12
Temperature (ºC)	monthly mean	1.8	2.5	5.8	10.2	14.8	17.2	21.7	21.4	18.5	14.5	9.6	0.7
	max.daily mean	8.1	11.4	12.0	14.2	20.6	22.1	25.2	22.9	22.1	17.8	14.6	7.8
	min.daily mean	-3.6	-3.0	-1.8	1.1	9.5	14.1	17.2	17.8	12.6	10.2	3.1	-4.7
Relative humidity (%)	monthly mean	69	71	66	66	61	84	83	92	76	81	78	80
	max.daily mean	96	97	97	96	96	97	97	97	98	97	98	97
	min.daily mean	49	38	32	31	31	43	65	83	51	34	57	54
Mean wind speed (m/s)		2.4	2.1	2.5	1.6	1.7	1.3	1.3	1.1	1.2	1.8	1.8	2.9
Most frequent wind direction (bearings)		N	NNW	N	NNW	N	NNW	NNW	SSE	NNW	NNW	NNW	NNW
Precipitation amount (mm/month)		44	134	218	122	151	326	314	1502	159	285	90	17
Sunshine duration (hours/month)		--	--	--	--	--	--	--	--	--	--	--	--
Solar radiation (MJ/m^2/month)		332	309	474	491	645	414	515	328	415	344	294	225

Appendix Table 2-15 Meteorological statistics at the monitoring sites
Meteorological Statistics : Hedo (Japan)

2014

Month / Items		1	2	3	4	5	6	7	8	9	10	11	12
Temperature (ºC)	monthly mean	16.0	16.8	17.5	19.6	22.0	25.4	28.0	27.6	27.4	24.5	21.5	16.9
	max.daily mean	19.4	20.3	22.2	22.5	25.2	28.6	29.2	28.8	28.9	26.7	23.9	19.7
	min.daily mean	12.2	14.2	13.7	16.1	18.7	21.7	25.9	25.5	25.7	22.6	19.4	13.2
Relative humidity (%)	monthly mean	66	79	75	81	90	93	93	93	89	83	80	74
	max.daily mean	87	95	93	94.3	98.5	99.0	98.4	97.7	98.6	96.2	97.3	95
	min.daily mean	54	60	56	64.3	77.9	80.0	87.7	88.8	78.3	67.8	65.8	60
Mean wind speed (m/s)		5.3	5.5	5.2	4.8	4.3	4.0	4.4	3.6	3.3	6.0	5.4	6.2
Most frequent wind direction (bearings)		NNW	N	SE	E	E	SSW	E	S	SE	ENE	N	NNW
Precipitation amount (mm/month)		41	145	124	62	431	357	517	181	165	32	80	87
Sunshine duration (hours/month)		--	--	--	--	--	--	--	--	--	--	--	--
Solar radiation (MJ/m^2/month)		328	273	404	493	465	469	703	618	576	375	327	238

Appendix Table 2-16 Meteorological statistics at the monitoring sites
Meteorological Statistics : Ogasawara (Japan)

2014

Month / Items		1	2	3	4	5	6	7	8	9	10	11	12
Temperature (ºC)	monthly mean	15.2	15.7	16.0	17.0	20.1	23.3	26.0	25.8	24.9	23.1	21.4	17.1
	max.daily mean	18.8	19.0	19.4	21.2	24.1	26.5	27.9	26.7	26.4	25.8	25.1	20.8
	min.daily mean	11.8	12.9	12.5	13.2	16.6	19.1	23.9	24.7	23.3	20.3	18.4	14.2
Relative humidity (%)	monthly mean	86	86	84	92	96	98	97	97	96	97	95	89
	max.daily mean	99	98	98	99	99	99	99	99	99	99	99	99
	min.daily mean	70	71	65	79	81	96	93	94	88	88	79	75
Mean wind speed (m/s)		1.5	1.7	1.6	1.7	1.6	1.5	1.0	1.1	1.6	1.7	1.7	1.5
Most frequent wind direction (bearings)		WSW	SSW	SSW	NE	SSW	SSW	SSW	NE	ENE	NE	NE	WSW
Precipitation amount (mm/month)		97	83	25	62	267	205	29	32	145	154	267	155
Sunshine duration (hours/month)		--	--	--	--	--	--	--	--	--	--	--	--
Solar radiation (MJ/m^2/month)		336	358	573	494	505	354	599	644	468	343	265	271

Appendix Table 2-17 Meteorological statistics at the monitoring sites
Meteorological Statistics : Listvyanka (Russia)

2014

Month / Items		1	2	3	4	5	6	7	8	9	10	11	12
Tempera-ture (ºC)	monthly mean	-11.8	-16.2	-5.5	2.2	5.0	10.9	15.4	14.4	8.2	2.5	-5.6	-10.5
	max.daily mean	-7.2	-11.7	-1.0	7.4	10.3	16.4	21.6	19.7	14.5	8.4	0.6	-6.0
	min.daily mean	-15.2	-20.7	-9.7	-1.7	1.3	7.3	10.7	10.3	3.9	-1.8	-9.9	-13.2
Relative humidity (%)	monthly mean	83	82	77	68	67	80	79	80	74	69	75	84
	max.daily mean	--	--	--	--	--	--	--	--	--	--	--	--
	min.daily mean	78	72	55	44	49	63	67	69	61	56	61	68
Mean wind speed (m/s)		4.3	3.5	2.7	3.2	3.4	2.4	2.1	2.7	3.3	3.7	4.1	4.4
Most frequent wind direction (bearings)		N	N	N	N	N	N, S	N	N	N	N	N, NNE	N
Precipitation amount (mm/month)		13	3	17	21	54	47	68	56	11	14	11	19
Sunshine duration (hours/month)		--	--	--	--	--	--	--	--	--	--	--	--
Solar radiation (MJ/m^2/month)		--	--	--	--	--	--	--	--	--	--	--	--

Appendix Table 2-18 Meteorological statistics at the monitoring sites
Meteorological Statistics : Irkutsk (Russia)

2014

Month / Items		1	2	3	4	5	6	7	8	9	10	11	12
Tempera-ture (ºC)	monthly mean	-14.8	-16.9	-3.2	7.0	8.8	16.2	19.3	16.6	8.7	2.0	-7.1	-13.3
	max.daily mean	-9.9	-10.1	4.1	15.4	16.5	23.8	26.4	23.7	15.8	7.9	-1.5	-9.0
	min.daily mean	-18.4	-22.1	-9.2	0.3	2.2	9.6	12.9	10.6	2.8	-2.5	-11.9	-16.2
Relative humidity (%)	monthly mean	83	72	63	52	53	68	68	73	71	69	79	91
	max.daily mean	--	--	--	--	--	--	--	--	--	--	--	--
	min.daily mean	74	55	40	30	32	43	43	49	46	49	62	84
Mean wind speed (m/s)		2	2	2	3	3	2	2	2	2	2	2	2
Most frequent wind direction (bearings)		NW	ESE	ESE	ESE	SE	W	E	SE, W	SE,W,	ESE	ENE	WNW
Precipitation amount (mm/month)		25.8	5.2	15.9	18.2	42.3	67.4	71.4	73.6	23.3	12.8	8.9	25.1
Sunshine duration (hours/month)		114.4	175	276.8	253	273.1	290.3	322.7	289.8	217.6	182.1	105.7	72.2
Solar radiation (MJ/m^2/month)		128.9	233.4	437	502.3	611.7	625.6	602.5	541.8	383.8	251.5	134	85.06

Appendix Table 2-19 Meteorological statistics at the monitoring sites
Meteorological Statistics : Primorskaya (Russia)

2014

Month / Items		1	2	3	4	5	6	7	8	9	10	11	12
Temperature (ºC)	monthly mean	-15.7	-13.1	-1.7	6.6	12.1	17.8	21.6	20.2	14.3	6.4	-1.8	-16.6
	max.daily mean	-7.4	-5.1	6	16.3	19.6	24.4	27.2	26.9	21.8	14.2	5.6	-9.3
	min.daily mean	-22.6	-20.6	-10	-1.8	6.5	12.7	17.3	15.4	9.1	0.6	-6.6	-22.6
Relative humidity (%)	monthly mean	63	56	57	55	74	78	76	77	80	67	72	71
	max.daily mean	96	98	85	72	89	90	88	91	95	90	94	97
	min.daily mean	43	42	40	41	51	62	49	69	49	35	43	41
Mean wind speed (m/s)		1.1	1.2	1.4	1.5	0.9	0.8	0.9	0.9	0.9	1.3	1.2	1.2
Most frequent wind direction (bearings)		E	E	E	E	E	SSE	SSE	E	E	E	E	E
Precipitation amount (mm/month)		4	5	6	14	105	47	89	44	135	74	72	48
Sunshine duration (hours/month)		--	--	--	--	--	--	--	--	--	--	--	--
Solar radiation (MJ/m^2/month)		242.9	329	440.9	564.1	513.6	576.5	602.8	557.5	477.5	339.2	226.1	183.5

Appendix Table 2-20 Meteorological statistics at the monitoring sites
Meteorological Statistics : Bangkok (Thailand)

2014

Month / Items		1	2	3	4	5	6	7	8	9	10	11	12
Temperature (ºC)	monthly mean	25.6	28.0	29.7	31.3	31.2	30.0	29.5	28.6	28.6	27.9	28.4	--
	max.daily mean	29.1	29.0	31.2	32.6	33.0	32.7	31.6	29.8	31.1	30.0	30.0	--
	min.daily mean	21.5	25.0	27.9	28.9	27.9	26.5	27.3	27.1	26.4	26.4	26.5	--
Relative humidity (%)	monthly mean	55	67	67	65	63	69	69	73	74	77	75	--
	max.daily mean	67	72	74	69	72	80	78	82	85	86	84	--
	min.daily mean	44	62	64	55	57	61	61	66	65	60	67	--
Mean wind speed (m/s)		0.3	0.9	1.2	1.0	0.7	0.9	1.0	0.8	0.7	0.3	0.3	--
Most frequent wind direction (bearings)		ESE	S	S	S	SSW	SSW	SW	SW	SW	SW	ENE	--
Precipitation amount (mm/month)		--	0	0	0	0	0	134	742	405	349	36	--
Sunshine duration (hours/month)		--	--	--	--	--	--	--	--	--	--	--	--
Solar radiation (MJ/m^2/month)		--	--	--	--	--	--	--	--	--	--	--	--

Appendix Table 2-21 Meteorological statistics at the monitoring sites
Meteorological Statistics : Samutprakarn (Thailand)

2014

Month / Items		1	2	3	4	5	6	7	8	9	10	11	12
Temperature (ºC)	monthly mean	26.8	29.7	31.9	33.8	34.1	32.8	31.2	29.4	29.5	28.7	29.8	27.7
	max.daily mean	30.0	30.7	33.5	35.2	36.1	36.1	34.1	31.2	31.9	30.2	31.1	31.0
	min.daily mean	22.8	26.1	29.6	31.6	31.3	30.1	27.2	27.9	27.3	26.7	28.1	24.7
Relative humidity (%)	monthly mean	62	75	74	70	70	74	74	78	77	79	72	64
	max.daily mean	79	81	82	74	79	83	85	85	84	88	86	81
	min.daily mean	46	69	69	62	62	65	66	68	67	65	59	54
Mean wind speed (m/s)		1.9	2.2	2.3	2.3	2.4	2.0	1.7	1.8	2.0	3.0	3.0	3.8
Most frequent wind direction (bearings)		ENE	SSW	SSW	SSW	SSW	SSW	SSW, WSW	SSW	SSW	ENE	ENE	ENE
Precipitation amount (mm/month)		0	2	4	1	107	168	213	181	186	219	25	37
Sunshine duration (hours/month)		--	--	--	--	--	--	--	--	--	--	--	--
Solar radiation (MJ/m^2/month)		--	--	--	--	--	--	--	--	--	--	--	--

Appendix Table 2-22 Meteorological statistics at the monitoring sites
Meteorological Statistics : Pathumthani (Thailand)

2014

Month / Items		1	2	3	4	5	6	7	8	9	10	11	12
Temperature (ºC)	monthly mean	24.2	26.1	28.1	29.7	30.6	29.9	27.2	29.0	29.2	28.8	29.5	27.7
	max.daily mean	26.5	26.9	29.4	31.4	32.3	31.4	30.7	30.3	31.2	30.0	31.0	30.4
	min.daily mean	20.4	23.1	26.4	25.9	27.9	26.6	23.7	27.7	27.1	27.4	27.4	24.5
Relative humidity (%)	monthly mean	56	67	65	64	62	66	67	71	70	71	67.3	60.3
	max.daily mean	62	71	70	70	72	79	80	80	79	79	79.5	74.5
	min.daily mean	47	61	60	57	54	56	57	66	61	62	59.1	49.9
Mean wind speed (m/s)		3.2	4.4	4.8	4.6	4.1	4.9	4.9	3.8	3.7	2.9	3.2	3.6
Most frequent wind direction (bearings)		E	S	S	S	SSW	SSW	WSW	WSW	W	ENE	E	NNE
Precipitation amount (mm/month)		1	0	2	27	51	183	94	98	303	95	30	11
Sunshine duration (hours/month)		--	--	--	--	--	--	--	--	--	--	--	--
Solar radiation (MJ/m^2/month)		--	--	--	--	--	--	--	--	--	--	--	--

Appendix Table 2-23 Meteorological statistics at the monitoring sites
Meteorological Statistics : Chiang Mai (Thailand)

2014

Month / Items		1	2	3	4	5	6	7	8	9	10	11	12
Temperature (ºC)	monthly mean	23.7	26.8	30.4	32.2	31.7	29.8	28.5	27.5	28.1	28.0	26.4	24.0
	max.daily mean	25.8	29.2	33.1	35.6	34.5	33.4	30.8	30.0	30.3	29.3	29.8	27.1
	min.daily mean	20.4	24.0	28.1	28.2	29.5	27.6	26.2	24.8	25.4	25.3	22.0	19.3
Relative humidity (%)	monthly mean	71	59	52	64	74	77	78	82	79	74	74	70
	max.daily mean	79	66	75	80	85	86	92	94	89	83	90	77
	min.daily mean	60	51	43	52	66	68	67	72	73	66	63	61
Mean wind speed (m/s)		1.7	1.9	1.9	2.0	1.8	1.8	1.7	1.4	1.5	1.8	1.5	1.8
Most frequent wind direction (bearings)		NW	NNW	NNW	NW	SE	SE	SE	SE	NW	WNW	WNW	WNW
Precipitation amount (mm/month)		0	0	19	41	252	132	111	224	99	54	18	0
Sunshine duration (hours/month)		--	--	--	--	--	--	--	--	--	--	--	--
Solar radiation (MJ/m^2/month)		--	--	--	--	--	--	--	--	--	--	--	--

Appendix Table 2-24 Meteorological statistics at the monitoring sites
Meteorological Statistics : Nakhon Rachasima (Thailand)

2014

Month / Items		1	2	3	4	5	6	7	8	9	10	11	12
Temperature (ºC)	monthly mean	25.2	27.6	28.9	28.8	28.9	28.9	28.7	29.1	28.5	27.6	27.6	24.2
	max.daily mean	26.4	28.6	29.9	29.9	29.8	29.6	29.8	31.2	30.8	30.1	29.9	28.6
	min.daily mean	23.8	23.3	26.6	27.4	27.6	27.7	27.5	27.0	25.3	25.8	24.7	21.2
Relative humidity (%)	monthly mean	41	51	53	64	61	57	57	61	66	63	52	38
	max.daily mean	56	93	98	91	88	86	88	72	87	85	74	81
	min.daily mean	32	28	34	42	41	39	38	44	46	44	35	23
Mean wind speed (m/s)		1.3	1.0	1.1	1.0	1.1	1.6	1.2	1.3	1.1	1.2	1.2	1.6
Most frequent wind direction (bearings)		E	E,SW	SW	SW	WSW	SW	W	W	WNW	E	E	ENE
Precipitation amount (mm/month)		0	1	17	68	155	53	161	212	264	89	21	0
Sunshine duration (hours/month)		--	--	--	--	--	--	--	--	--	--	--	--
Solar radiation (MJ/m^2/month)		--	--	--	--	--	--	--	--	--	--	--	--

Appendix Table 2-25 Meteorological statistics at the monitoring sites
Meteorological Statistics : Hanoi (Vietnam)

2014

Month / Items		1	2	3	4	5	6	7	8	9	10	11	12
Temperature (ºC)	monthly mean	17.7	17.2	19.9	25.3	29.3	30.1	29.5	29.0	29.2	27.0	22.9	17.6
	max.daily mean	21.8	19.8	22.4	27.7	34.3	34.4	33.6	32.9	33.0	30.9	26.2	20.9
	min.daily mean	14.9	15.5	18.5	23.6	26.3	27.4	26.9	26.6	26.7	24.4	21.0	15.3
Relative humidity (%)	monthly mean	71	78	87	87	77	79	81	81	78	72	79	67
	max.daily mean	88	88	95	96	91	93	95	93	91	89	90	83
	min.daily mean	53	66	77	76	59	61	63	65	59	55	64	51
Mean wind speed (m/s)		1	1	1	1	1	1	1	1	1	1	1	1
Most frequent wind direction (bearings)		SE	NE	SE	SE	SSE	SE	SE	NW	NW	NW	NE	NNE
Precipitation amount (mm/month)		1	16	69	170	106	222	357	315	237	119	37	12
Sunshine duration (hours/month)		119	32	15	14	182	120	133	108	138	135	86	87
Solar radiation (MJ/m^2/month)		--	--	--	--	--	--	--	--	--	--	--	--

Appendix Table 2-26 Meteorological statistics at the monitoring sites
Meteorological Statistics : Hoa Binh (Vietnam)

2014

Month / Items		1	2	3	4	5	6	7	8	9	10	11	12
Temperature (ºC)	monthly mean	16.7	17.8	20.7	26.0	29.1	29.5	29.0	28.6	28.4	25.6	22.5	16.8
	max.daily mean	22.2	25.4	27.5	28.9	34.8	33.7	31.7	33.1	30.5	28.9	28.2	21.5
	min.daily mean	13.2	10.7	15.5	22.4	22.5	26.0	26.8	24.6	25.4	23.4	19.0	13.5
Relative humidity (%)	monthly mean	72	74	79	77	70	75	77	76	76	75	76	71
	max.daily mean	82	85	86	85	80	86	87	88	85	86	86	84
	min.daily mean	56	58	71	71	54	55	69	58	69	68	69	57
Mean wind speed (m/s)		1	1	1	1	1	1	1	1	1	1	1	1
Most frequent wind direction (bearings)		NE	N	N	N	N	N	SE	N	NE	N	N	NE
Precipitation amount (mm/month)		4	3	27	153	213	340	102	182	177	77	15	11
Sunshine duration (hours/month)		148	65	43	64	224	156	174	162	188	178	107	96
Solar radiation (MJ/m^2/month)		--	--	--	--	--	--	--	--	--	--	--	--

Appendix Table 2-27 Meteorological statistics at the monitoring sites
Meteorological Statistics : Cuc Phuong (Vietnam)

2014

Month / Items		1	2	3	4	5	6	7	8	9	10	11	12
Tempera-ture (ºC)	monthly mean	15.4	16.1	19.0	24.0	27.6	28.2	27.3	26.8	26.6	24.2	21.4	15.5
	max.daily mean	20.6	19.1	21.9	27.0	33.2	33.0	32.2	31.0	31.4	29.3	25.5	19.6
	min.daily mean	12.3	14.5	17.5	22.6	24.3	25.5	24.7	24.5	24.1	21.3	19.2	12.9
Relative humidity (%)	monthly mean	81	89	95	93	81	85	87	88	87	82	87	78
	max.daily mean	97	98	99	98	95	96	97	97	97	97	97	93
	min.daily mean	59	77	86	83	61	67	70	74	68	60	71	60
Mean wind speed (m/s)		1	1	1	1	1	1	1	1	1	1	1	1
Most frequent wind direction (bearings)		NW	SE	NE	SE	SW	NW	NW	SW	NE	NW	NNW	NNW
Precipitation amount (mm/month)		2	27	79	92	239	368	341	277	115	92	35	34
Sunshine duration (hours/month)		120	27	16	17	197	152	146	103	149	159	95	89
Solar radiation (MJ/m^2/month)		--	--	--	--	--	--	--	--	--	--	--	--

Appendix Table 2-28 Meteorological statistics at the monitoring sites
Meteorological Statistics : DaNang (Vietnam)

2014

Month / Items		1	2	3	4	5	6	7	8	9	10	11	12
Tempera-ture (ºC)	monthly mean	20.3	21.9	24.4	27.0	29.3	30.8	29.4	29.3	28.7	26.4	26.0	21.7
	max.daily mean	23.0	24.2	26.7	28.2	31.8	32.7	31.0	32.5	30.9	28.7	27.1	25.4
	min.daily mean	17.6	18.1	21.8	24.5	27.0	27.8	272.0	25.7	25.6	23.6	24.0	18.6
Relative humidity (%)	monthly mean	82	82	84	83	76	70	78	75	80	86	85	89
	max.daily mean	93	89	89	91	85	82	86	92	90	96	92	97
	min.daily mean	65	71	79	80	67	59	67	59	75	75	73	77
Mean wind speed (m/s)		1	1	1	1	1	1	1	1	1	1	2	1
Most frequent wind direction (bearings)		NNW	ESE	E	E	E	E	ENE	E	NNW	NNW	NE	NW
Precipitation amount (mm/month)		84	0	4	63	5	82	184	180	112	818	288	400
Sunshine duration (hours/month)		113	171	182	227	279	223	231	220	224	165	149	28
Solar radiation (MJ/m^2/month)		--	--	--	--	--	--	--	--	--	--	--	--

Appendix Table 2-29 Meteorological statistics at the monitoring sites
Meteorological Statistics : Can Tho (Vietnam)

2014

Month / Items		1	2	3	4	5	6	7	8	9	10	11	12
Temperature (ºC)	monthly mean	23.7	24.7	27.0	28.0	28.4	27.1	27.1	27.1	26.9	27.3	27.5	26.1
	max.daily mean	28.6	30.6	32.0	33.0	33.9	31.8	31.2	31.8	31.6	31.6	31.6	30.2
	min.daily mean	20.8	21.3	23.5	25.1	25.7	24.9	24.7	24.8	24.6	25.2	25.3	24.0
Relative humidity (%)	monthly mean	83	81	77	81	86	90	88	88	88	88	84	83
	max.daily mean	98	98	95	97	98	98	98	99	98	98	97	96
	min.daily mean	56	57	53	57	61	71	71	67	67	66	63	65
Mean wind speed (m/s)		1	1	2	1	1	1	2	2	1	2	1	2
Most frequent wind direction (bearings)		N	SE	SE	S	SW	SW	SW	SW	SW	NE	N	NNE
Precipitation amount (mm/month)		--	--	--	165	96	236	388	172	357	325	95	6
Sunshine duration (hours/month)		214	244	273	235	233	124	160	200	181	179	211	179
Solar radiation (MJ/m^2/month)		--	--	--	--	--	--	--	--	--	--	--	--

Appendix Table 2-30 Meteorological statistics at the monitoring sites
Meteorological Statistics : Ho Chi Minh (Vietnam)

2014

Month / Items		1	2	3	4	5	6	7	8	9	10	11	12
Temperature (ºC)	monthly mean	27.0	27.8	28.9	29.8	29.2	28.8	28.0	27.9	27.8	27.7	27.7	27.3
	max.daily mean	27.3	28.4	29.4	30.3	31.3	29.3	28.3	28.6	28.6	28.0	28.8	27.6
	min.daily mean	25.9	27.2	28.2	29.4	28.2	28.4	27.7	27.6	27.6	27.5	26.9	26.9
Relative humidity (%)	monthly mean	71	70	70	72	77	78	80	81	81	81	77	73
	max.daily mean	73	73	71	76	81	81	83	83	83	82	80	74
	min.daily mean	69	68	68	69	70	76	79	80	76	79	73	72
Mean wind speed (m/s)		1	1	1	1	1	1	2	2	2	1	1	1
Most frequent wind direction (bearings)		N	SE	SE	S	SW	SW	SW	SW	SW	NE	N	NNE
Precipitation amount (mm/month)		--	23	1	153	166	244	139	325	358	271	156	80
Sunshine duration (hours/month)		146	180	229	208	184	168	162	149	139	133	138	143
Solar radiation (MJ/m^2/month)		--	--	--	--	--	--	--	--	--	--	--	--

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