



AGENDA ITEM 9

Overview of the Updated National Monitoring Plans of the Participating Countries

**The Twenty-sixth Session of the Scientific Advisory Committee (SAC26)
on the Acid Deposition Monitoring Network in East Asia
20-22 October 2026, Kuala Lumpur, Malaysia (Hybrid)**

Introduction

Outline of National Monitoring Plan

National Monitoring Plan (NMP) is a fundamental document for EANET monitoring activities including information such as:

- The National Center and contact person(s)
- The implementation body
- Number of monitoring sites
- Measurement parameters and their monitoring interval
- The participating laboratories
- Information on each monitoring site such as:
 - Outline of site situations
 - Specific monitoring plans
 - Methodologies of sample collection
 - Status of monitoring equipment
- Other supplementary information

EANET activities shall be carried out according to the NMP.

Submission of National Monitoring Plan

- The NMP is required to be submitted to the Network Center (NC) basically when the participating countries submit its annual monitoring data.
- “Every year”, the NMP should be reviewed and revised if necessary and the submission of the latest NMP to the NC is requested even if there is no point of revision.
 - Suitability and status of EANET activities based on the NMP needs to be re-confirmed periodically and the results should be shared with the NC.
 - The information of NMP is essential for validation of monitoring data and development of Data Report.
- Whenever the participating countries make some revisions, the revised NMP should be submitted to the NC. It is very important to avoid misunderstanding between participating countries and the NC. (It is also recommended to inform the revised information to the NC by e-mail ASAP.)

Revision of National Monitoring Plan after STM27

- **The NMP 2026 including list of sites and monitoring items shown in Attachment 1 of the meeting document of STM27 (EANET/STM27/7/2) and maps and number of monitoring sites summarized in Attachment 2 of the same document were reviewed and discussed at STM27 held on 2-3 September at Jakarta, Indonesia.**
- **Each national QA/QC manager was requested to check the information and then report to the NC if errors and necessary modifications are found.**
- **The results of the STM27 meeting were reflected to the secondary revision process of the NMP. The process is very important because the validation of monitoring data 2026 will be done referring the NMP 2026.**
- **The site information on the EANET website will be updated based on the finalized NMP 2026.**
- **The summary of the NMP 2026 will be reported at the SAC26.**

Overview of the National Monitoring Plan 2026 (Attachment 1 of EAMET/SAC26/9)

**A: Concentration and Deposition Monitoring, E: Ecological Monitoring,
A/D: Air Concentration/Dry Deposition, W: Wet Deposition, SV: Soil and Vegetation,
IAE: Inland Aquatic Environment, C: Catchment-scale
U: Urban, RU: Rural, RE: Remote, AT: Automatic Monitor, FP: Filter Pack, PS: Passive Sampler
Please see page 22 for footnote.**

Cambodia

Items	Monitoring Sites	Code	Classifi- cation	Monitoring Interval	Measurement Parameters	Remarks (Start time)	Data Report 2024	Plan 2026
Air	Phnom Penh	KHA001	Urban	AT(hourly)	PM _{2.5} , O ₃ , NO, NO ₂ , NO _x	APR 2017 AUG 2019	✓	✓
				FP(biweekly)	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC ^b	FEB 2010	-	✓
Wet	Phnom Penh	KHA001	Urban	weekly	Mandatory items ^a	APR 2004	-	✓
Inland	Sras Srang Lake	KHI002	Remote	-	Mandatory items (Lake) ^c	2012	-	✓

- A_Sites: A/D_[U/RU/RE]_{AT/FP/PS} (1)_[1/0/0]_{1/1/0}, W_[U/RU/RE] (1)_[1/0/0]
- E_Sites: SV (0), IAE_[U/RU/RE] (1)_[0/0/1], C(0)
- The monitoring equipment may be relocated to another place in Phnom Penh, depending on the surrounding conditions.
- FP has not been conducted recently. But discussions are underway regarding the resumption of FP at Phnom Penh.
- IL is included in NMP 2026.
- Siem Reap is not included in NMP 2026.
- Monitoring data of PM_{2.5} and O₃ by AT are submitted.

China

Items	Monitoring Sites	Code	Classification	Monitoring Interval	Measurement Parameters	Remarks (Start time)	Data Repot 2024	Plan 2026
Air	Chongqing -Jinyunshan	CNA004	Rural	AT(daily)	SO ₂ , NO, NO _x [*] , PM ₁₀ , PM _{2.5} , O ₃	JAN 2001	✓	✓
	Xiamen-Hongwen	CNA008	Urban	AT(daily)	SO ₂ , NO ₂ , PM ₁₀ , PM _{2.5} , O ₃	JAN 2000	✓	✓
	Zhuhai-Haibin-Park	CNA012	Urban	AT(daily)	SO ₂ , NO ₂ , PM ₁₀ , PM _{2.5} , O ₃	JAN 2012	✓	✓
	Wuzhishan-Wuzhishan	CNA013	Remote	AT(daily)	SO ₂ , NO ₂ , PM ₁₀	JAN 2019	✓	✓
	Lijang-Lijang	CNA014	Remote	AT(daily)	SO ₂ , NO ₂ , PM ₁₀	JAN 2019	✓	✓
Wet	Chongqing-Haifu	CNA003	Urban	daily	Mandatory items ^a + F ⁻ +HCO ₃ ⁻	JAN 2008	✓	✓
	Chongqing-Jinyunshan	CNA004	Rural	daily	Mandatory items ^a + F ⁻ +HCO ₃ ⁻	APR 1999	✓	✓
	Xi'an-Shizhan	CNA005	Urban	daily	Mandatory items ^a	APR 1999	✓	✓
	Xi'an-Jiwozi	CNA007	Remote	daily	Mandatory items ^a	APR 1999	✓	✓
	Xiamen-Hongwen	CNA008	Urban	daily	Mandatory items ^a + F ⁻	APR 1999	✓	✓
	Xiamen-Xiaoping	CNA009	Remote	daily	Mandatory items ^a + F ⁻	APR 1999	✓	✓
	Zhuhai-Xiangzhou	CNA010	Urban	daily	Mandatory items ^a + F ⁻	APR 1999	✓	✓
	Zhuhai-Zhuxiandong	CNA011	Urban	daily	Mandatory items ^a + F ⁻	DEC 1999	✓	✓
	Wuzhishan-Wuzhishan	CNA013	Remote	daily	Mandatory items ^a + F ⁻	JAN 2019	✓	✓
	Lijang-Lijang	CNA014	Remote	daily	Mandatory items ^a + F ⁻	JAN 2019	✓	✓
Soil & vegetation	Chongqing -Jinyunshan	CNS004	Rural	Every 5 years except for observation of tree decline (every year)	Soil (Mandatory items ^d + Optional items ^e)/Vegetation (Mandatory items ^f)	2000	✓	✓
	Xi'an-Dabagou	CNS007	Remote	ditto	ditto	2001	✓	✓
	Xiamen-Xiaoping	CNS009	Remote	ditto	ditto	2000	✓	✓
	Zhuhai-Zhuxiandong	CNS011	Urban	ditto	ditto	2001	✓	✓
Inland	Chongqing-Jinyunshan Lake	CNI004	Rural	4 times/y	Mandatory items (Lake) ^c	2001	✓	✓
	Xi'an-Jiwozi River	CNI007	Remote	4 times/y	Mandatory items (River) ^e	2001	✓	✓
	Xiamen-Xiaoping Dam	CNI209	Remote	4 times/y	Mandatory items (Lake) ^c	2001	✓	✓
	Zhuhai-Zhuxiandong Stream	CNI111	Urban	4 times/y	Mandatory items (River) ^e	2004	✓	✓

● A_Sites:

A/D_[U/RU/RE]_{AT/FP/PS}
(5)_[2/1/2]_{5/0/0},
W_[U/RU/RE]
(10)_[5/1/4]

● E_Sites:

SV_[U/RU/RE] (4)_[1/1/2],
IAE_[U/RU/RE] (4)_[1/1/2],
C(0)

● There is no change from NMP 2025.

● Monitoring data of PM_{2.5} and O₃ by AT are submitted.

● For O₃, Provision of hourly data requested by the NC.

Indonesia

Items	Monitoring Sites	Code	Classification	Monitoring Interval	Measurement Parameters	Remarks (Start time)	Data Report 2024	Plan 2026
Air	Kototabang	IDA003	Remote	PS (biweekly)	SO ₂ , NO ₂	JAN 2007	-	-
	Jakarta	IDA001	Urban	PS (biweekly)	SO ₂ , NO ₂	JAN 2007	-	-
	Bandung 2	IDA008	Urban	PS (biweekly)	SO ₂ , NO ₂ ?	2026	-	✓
Wet	Jakarta	IDA001	Urban	weekly	Mandatory items ^a	APR 1998	✓	✓
	Serpong	IDA002	Rural	weekly	Mandatory items ^a	APR 1998	-	✓
	Kototabang	IDA003	Remote	weekly	Mandatory items ^a	APR 1998	✓	✓
	Bandung 2	IDA008	Urban	weekly	Mandatory items ^a	2025	-	✓
	Maros	IDA005	Rural	weekly	Mandatory items ^a	JAN 2008	✓	✓
	Jembrana	IDA006	Rural	weekly	Mandatory items ^a	JAN 2019	✓	✓
	Lombok	IDA007	Rural	weekly	Mandatory items ^a	JAN 2019	✓	✓
Inland	Patengang Lake	IDI004	Remote	4 times/y	Mandatory items (Lake) ^c	2001	-	✓
	Gunung Lake	IDI006	Remote	4 times/y	Mandatory items (Lake) ^c	2008	-	✓

- A_Sites: A/D_[U/RU/RE]_{AT/FP/PS} (1)_[1/0/0]_{0/0/1}, W_[U/RU/RE] (7)_[2/4/1]
- E_Sites: SV (0), IAE_[U/RU/RE] (2)_[0/0/2], C(0)
- Bandung 2 started monitoring activities in July 2025 and PS in 2026. The place of the new site is different from the old one, and thus, its new site name/code (Bandung 2/IDA008) was assigned.
- W in Serpong has been temporarily halted due to technical difficulties and funding constraints since 2025.
- Two IL sites (Patengang Lake and Gunung Lake) are included in NMP 2026.

Japan

Items	Monitoring Sites	Code	Classification	Monitoring Interval	Measurement Parameters	Remarks (Start time)	Data Report 2024	Plan 2026
Air	Rishiri	JPA001	Remote	AT(hourly) FP(biweekly)	SO_2 , NO , NO_x^* , O_3 , PM_{10} , $PM_{2.5}$ HNO_3 , HCl , NH_3 , PMC^b	AT JAN 1999 FP JUL 2002	✓	✓
	Ochiishi	JPA002	Remote	AT(hourly) FP(biweekly)	SO_2 , NO , NO_x^* , O_3 , PM_{10} , $PM_{2.5}$ HNO_3 , HCl , NH_3 , PMC^b	AT JAN 2008 FP APR 2008	✓	✓
	Ogasawara	JPA011	Remote	AT(hourly) FP(biweekly)	SO_2 , NO , NO_x^* , O_3 , PM_{10} , $PM_{2.5}$ HNO_3 , HCl , NH_3 , PMC^b	AT JAN 1999 FP APR 2003	✓	✓
	Sado-seki	JPA004	Remote	AT(hourly) FP(biweekly)	SO_2 , NO , NO_x^* , O_3 , PM_{10} , $PM_{2.5}$ HNO_3 , HCl , NH_3 , PMC^b	AT MAY 1999 FP APR 2003	✓	✓
	Happo	JPA005	Remote	AT(hourly) FP(biweekly)	SO_2 , NO , NO_x^* , O_3 , PM_{10} , $PM_{2.5}$ HNO_3 , HCl , NH_3 , PMC^b	AT JAN 1999 FP APR 2003	✓	✓
	Oki	JPA007	Remote	AT(hourly) FP(biweekly)	SO_2 , NO , NO_x^* , O_3 , PM_{10} , $PM_{2.5}$ HNO_3 , HCl , NH_3 , PMC^b	AT JAN 1999 FP APR 2002	✓	✓
	Tsushima	JPA014	Remote	AT(hourly) FP(biweekly)	SO_2 , NO , NO_x^* , O_3 , PM_{10} , $PM_{2.5}$ HNO_3 , HCl , NH_3 , PMC^b	APR 2020 (AT(O_3 , PM) JAN 2019)	✓	✓
	Yusuhara	JPA009	Remote	AT(hourly) ~~FP(biweekly)~~	~~SO_2, NO, NO_x^*, O_3, PM_{10}, $PM_{2.5}$~~ ~~HNO_3, HCl, NH_3, PMC^b~~	AT JAN 2000 FP APR 2003	✓	✓
	Hedo	JPA010	Remote	AT(hourly) FP(biweekly)	SO_2 , NO , NO_x^* , O_3 , PM_{10} , $PM_{2.5}$ HNO_3 , HCl , NH_3 , PMC^b	AT JAN 2000 FP MAY 2003	✓	✓
	Ijira	JPA006	Rural	AT(hourly) FP(biweekly)	SO_2 , NO , NO_x^* , O_3 , PM_{10} , $PM_{2.5}$ HNO_3 , HCl , NH_3 , PMC^b	AT JUN 1999 FP APR 2003	✓	✓
	Tokyo	JPA012	Urban	FP(biweekly)	SO_2 , HNO_3 , NH_3 , PMC^b	FP APR 2007	✓	✓

- **A_Sites:**

A/D_[U/RU/RE]_{AT/FP/PS}
(11)_[1/1/9]_{10/10/0},
W_[U/RU/RE] (10)_[1/1/8]

- **E_Sites:**

SV_[U/RU/RE] (2)_[0/2/0],
IAE_[U/RU/RE] (2)_[0/1/1],
C_[U/RU/RE] (1)_[0/1/0]

- **Monitoring data of $PM_{2.5}$ and O_3 by AT are submitted.**
- **O_3 AT monitoring of Sado-seki, Ogasawara, Happo, Ijira, Oki, Yusuhara, and Hedo has been temporarily suspended due to the instrument's service life. New O_3 AT analyzers are planned to be introduced gradually.**

Japan

Items	Monitoring Sites	Code	Classifi- cation	Monitoring Interval	Measurement Parameters	Remarks (Start time)	Data Report 2024	Plan 2026
Wet	Rishiri	JPA001	Remote	daily biweekly	Mandatory items ^a	APR 1998	✓	✓
	Ochiishi	JPA002	Remote	daily biweekly	Mandatory items ^a	APR 2003	-	✓
	Ogasawara	JPA011	Remote	daily biweekly	Mandatory items ^a	MAY 1999	✓	✓
	Sado-seki	JPA004	Remote	daily biweekly	Mandatory items ^a + HCO ₃ ⁻	APR 1999	✓	✓
	Happo	JPA005	Remote	daily biweekly	Mandatory items ^a	APR 1998	✓	✓
	Oki	JPA007	Remote	daily biweekly	Mandatory items ^a	APR 1998	-	✓
	Yusuhara	JPA009	Remote	daily biweekly	Mandatory items ^a + F ⁻ , NO ₂ ⁻ , PO ₄ ³⁻	DEC 1999	✓	-
	Tsushima	JPA014	Remote	daily biweekly	Mandatory items ^a	APR 2019	✓	✓
	Hedo	JPA010	Remote	daily biweekly	Mandatory items ^a	DEC 1999	-	✓
	Ijira	JPA006	Rural	daily biweekly	Mandatory items ^a	JUN 1999	✓	✓
	Tokyo	JPA012	Urban	daily biweekly	Mandatory items ^a + F ⁻ , NO ₂ ⁻	APR 2007	✓	✓

Items	Monitoring Sites	Code	Classifi- cation	Monitoring Interval	Measurement Parameters	Remarks (Start time)	Data Report 2024	Plan 2026
Soil and vegetation	Ijira	JPS006	Rural	Once in 5 years	Soil (Mandatory items ^d + Exchangeable cations (Al ³⁺ , H ⁺) / Vegetation (Mandatory items ^f + Photographic record of tree decline, Estimation of decline causes)	1999	✓	✓
	Sekido-san, Horyu-san	JPS105	Rural	Once in 5 years	ditto	2019	✓	✓
Inland	Ijira Lake	JPI006	Rural	4 times/y	Mandatory items (Lake) ^c except for Total P and Total N + Total dissolved Al	2001	✓	✓
	Futago-ike	JPI005	Remote	4 times/y	ditto	2019	✓	✓
Catchment- scale	Ijira	JPC006	Rural	1 times/y	Input, output, biochemical process	2007	✓	✓

- **A_Sites:**
A/D_[U/RU/RE]_{AT/FP/PS}
(11)_[1/1/9]_{10/10/0},
W_[U/RU/RE] (10)_[1/1/8]
- **E_Sites:**
SV_[U/RU/RE] (2)_[0/2/0],
IAE_[U/RU/RE] (2)_[0/1/1],
C_[U/RU/RE] (1)_[0/1/0]

- There is no change in Ecological Impact Monitoring from 2025.
- The reclassification of the Ijira site is under consideration.

Lao PDR

Items	Monitoring Sites	Code	Classifi- cation	Monitoring Interval	Measurement Parameters	Remarks (Start time)	Data Report 2024	Plan 2026
Air	Vientiane	LAA001	Urban	FP(biweekly)	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC ^b	JAN 2015	-	✓
				AT(hourly)	NO, NO ₂ , PM ₁₀ , PM _{2.5}	JAN 2014	✓	✓
Wet	Vientiane	LAA001	Urban	daily	Mandatory items ^a	OCT 2003	✓	✓
Inland	Nam Houm Lake	LAI001	Urban	4 times/y	Water temperature, pH, EC, Alkalinity, NH ₄ ⁺ , Na ⁺ , K ⁺ , Ca ²⁺ , Mg ²⁺ , SO ₄ ²⁻ , NO ₃ ⁻ , Cl ⁻ , Transparency, PO ₄ ³⁻ , DO, COD (see Mandatory items (Lake) ^c)	SEP 2009	✓	✓

- A_Sites: A/D_[U/RU/RE]_{AT/FP/PS} (1)_[1/0/0]_{1/1/0}, W_[U/RU/RE] (1)_[1/0/0]
- E_Sites: SV (0), IAE_[U/RU/RE] (1)_[1/0/0], C(0)
- There is no change from the NMP 2025.
- Preparation of restarting filter pack monitoring is ongoing.
- Monitoring of PM_{2.5} by AT is included in NMP 2026.

Malaysia

Items	Monitoring Sites	Code	Classification	Monitoring Interval	Measurement Parameters	Remarks (Start time)	Data Report 2024	Plan 2026
Air	Petaling Jaya	MYA001	Urban	FP(weekly)	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC ^b	JAN 1999	✓	✓
	Tanah Rata	MYA002	Rural	FP(weekly)	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC ^b	JAN 2001	✓	✓
	Danum Valley	MYA003	Remote	FP(biweekly)	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC ^b	JAN 2006	✓	✓
Wet	Petaling Jaya	MYA001	Urban	weekly	Mandatory items ^a + F ⁻ +HCO ₃ ⁻	APR 1998	✓	✓
	Tanah Rata	MYA002	Rural	weekly	Mandatory items ^a + F ⁻ +HCO ₃ ⁻	JAN 1999	✓	✓
	Danum Valley	MYA003	Remote	weekly	Mandatory items ^a + F ⁻ +HCO ₃ ⁻	JAN 2005	✓	✓
	Kuching	MYA004	Urban	weekly	Mandatory items ^a + F ⁻ +HCO ₃ ⁻	JAN 2008	✓	✓
	Mount Brinchang	MYA005	Rural	weekly	Mandatory items ^a + F ⁻ +HCO ₃ ⁻	SEP 2020	-	✓
Soil and vegetation	Pasoh TEAM Plot 1 & 8	MYS201 MYS202	Urban	Every 3-5 years	Soil (Mandatory items ^d)/ Vegetation (Mandatory items ^f)	2023	-	✓
	Universiti Putra Malaysia Bintulu Rehabilitated Forest	MYS005 MYS105	Urban	Every 3-5 years	Soil (Mandatory items ^d)/ Vegetation (Mandatory items ^f)	2009	-	-
Inland	Baru River	MYI103	Remote	6 times/y	Mandatory items (River) ^g	2022	✓	✓
	Kuala Keniam	MYI006	Remote	6 times/y	Mandatory items (River) ^g	-	-	✓

- A_Sites: A/D_[U/RU/RE]_{AT/FP/PS} (3)_[1/1/1]_{0/3/0}, W_[U/RU/RE] (5)_[2/2/1]
- E_Sites: SV_[U/RU/RE] (2)_[2/0/0], IAE_[U/RU/RE] (2)_[0/0/2], C(0)
- There is no change from the NMP 2025.
- Passive sampler monitoring can be included at least after next year and not included in NMP 2026.
- Monitoring of PM_{2.5} and O₃ are not included in NMP 2026.

Mongolia

Items	Monitoring Sites	Code	Classification	Monitoring Interval	Measurement Parameters	Remarks (Start time)	Data Report 2024	Plan 2026
Air	Ulaanbaatar	MNA001	Urban	FP(weekly)	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC ^b	APR 2000	-	-
	Khan-Uul	MNA004	Urban	FP(weekly)	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC ^b	2020	✓	✓
	Bayanzukh	MNA003	Urban	AT(hourly)	SO ₂ , NO, NO ₂ , NO _x , O ₃ , PM ₁₀ , PM _{2.5}	JAN 2014	✓	✓
	Terelj	MNA002	Remote	FP(biweekly)	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC ^b	JAN 2000	✓	✓
	Terelj II(TBD)	MNA005	Rural	FP(biweekly)	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC ^b	JUN 2025	✓	✓
Wet	Ulaanbaatar	MNA001	Urban	daily	Mandatory items ^a	AUG 1998	-	-
	Khan-Uul	NMA004	Urban	daily	Mandatory items ^a	2020	✓	✓
	Terelj	MNA002	Remote	daily	Mandatory items ^a	SEP 1998	✓	-
	Terelj II(TBD)	MNA005	Rural	daily	Mandatory items ^a	JUN 2025	✓	✓
Soil and vegetation	Ulaanbaatar(Bogdkhan mountain)	MNS001	Urban/Ecolog	Every 3-5 years	Soil (pH(H ₂ O), pH(KCl))	2005	-	-
	Terelj	MNS002	Remote	Every 3-5 years	ditto	2014	-	-
Inland	Terelj River	MNI002	Remote	6 times/y	pH, EC, Alkalinity, NH ₄ ⁺ , Na ⁺ , K ⁺ , Ca ²⁺ , Mg ²⁺ , SO ₄ ²⁻ , NO ₃ ⁻ , Cl ⁻ (see Mandatory items (River) ^g)	2002	✓	✓

- Ulaanbaatar (MNA001) was moved to Khan-Uul (NMA004) in 2020.
- UB4 (MNA003) was renamed as Bayanzukh (MNA003).
- Terelj (MNA002) was moved to Terelj II (MNA005) [TBD] from JUN 2025. Its new official site name needs to be assigned.
- Monitoring data of PM_{2.5} and O₃ by AT are submitted.

- A_Sites: A/D_[U/RU/RE]_{AT/FP/PS} (3)_[2/1/0]_{1/2/0}, W_[U/RU/RE] (2)_[1/1/0]
- E_Sites: SV_[U/RU/RE] (2)_[1/0/1], IAE_[U/RU/RE] (1)_[0/0/1], C(0)

Myanmar

Items	Monitoring Sites	Code	Classifi- cation	Monitoring Interval	Measurement Parameters	Remarks (Start time)	Data Report 2024	Plan 2026
Air	Yangon	MMA001	Urban	FP(biweekly)	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC ^b	NOV 2011	✓	✓
				AT(hourly)	PM _{2.5}	MAR 2018	✓	✓
Wet	Yangon	MMA001	Urban	weekly	Mandatory items ^a	JUN 2007	✓	✓

- A_Sites: A/D_[U/RU/RE]_{AT/FP/PS} (1)_[1/0/0]_{1/1/0}, W_[U/RU/RE] (1)_[1/0/0]
- E_Sites: SV(0), IAE(0), C(0)
- There is no change from the NMP 2025.
- Monitoring data of PM_{2.5} by AT are submitted.

Philippines

Items	Monitoring Sites	Code	Classification	Monitoring Interval	Measurement Parameters	Remarks (Start time)	Data Report 2024	Plan 2026
Air	Metro Manila - Manila II (TBD)	PHA007	Urban	AT(hourly/daily)	SO ₂ , NO ₂ , O ₃	JAN 2015	-	✓
				FP(weekly)	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC ^b	APR 1999	✓	✓
	Metro Manila - North Caloocan	PHA004	Urban	AT(hourly/daily)	PM ₁₀ , PM _{2.5}	JAN 2016	✓	✓
	Laguna - Los Baños	PHA002	Rural	FP(weekly)	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC ^b	APR 1999	✓	✓
	Laguna - Sta Rosa	PHA005	Rural	AT(hourly/daily)	SO ₂ , NO ₂ , PM ₁₀ , PM _{2.5} , O ₃ , CO	JAN 2016	✓	✓
	Benguet - Mt. Sto. Tomas	PHA003	Rural	FP(weekly)	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC ^b	OCT 2006	-	✓
				AT(hourly/daily)	PM ₁₀ , PM _{2.5}	JAN 2021	✓	✓
	Benguet - Lower Session Road	PHA006	Rural	AT(hourly/daily)	SO ₂ , NO ₂ , O ₃ , CO	JAN 2021	-	✓
Wet	Metro Manila - Manila II (TDB)	PHA007	Urban	weekly	Mandatory items ^a + PO ₄ ³⁻ , Br ⁻ , F ⁻ , NO ₂ ⁻ , HCO ₃ ⁻	APR 1999	✓	✓
	Laguna - Los Baños	PHA002	Rural	weekly	Mandatory items ^a + PO ₄ ³⁻ , Br ⁻ , F ⁻ , NO ₂ ⁻ , HCO ₃ ⁻	APR 1999	✓	✓
	Benguet - Mt. Sto. Tomas	PHA003	Rural	weekly	Mandatory items ^a	OCT 2006	✓	✓

- A_Sites: A/D_[U/RU/RE]_{AT/FP/PS} (6)_[2/4/0]_{5/3/0}, W_[U/RU/RE] (3)_[1/2/0]
- Metro Manila - Manila Observatory was moved to Metro Manila - Manila II (TBD): Ateneo de Manila University started monitoring from April 2026. Therefore, its new site name need to be assigned.
- Monitoring data of PM_{2.5} by AT are submitted.

Philippines

Items	Monitoring Sites	Code	Classification	Monitoring Interval	Measurement Parameters	Remarks (Start time)	Data Report 2024	Plan 2026
Soil and vegetation	Mt. Makiling Forest Reserve (Los Banos)	PHS002	Rural	Once in 3-5 years	Soil (Mandatory items ^d + Exchangeable cations (Al ³⁺ , H ⁺), Available Phosphate and Sulfate, Fine earth bulk density) / Vegetation (Mandatory items ^f)	2000	-	✓
	UP Quezon- Laguna Land Grant (Los Banos)	PHS102	Rural	ditto	ditto	2000	-	✓
	La Mesa Watershed (Metro Manila)	PHS001	Urban	ditto	ditto	2007	-	✓
	Boneco Long Term Ecological Research Site (Mt. Sto. Tomas)	PHS003	Rural	ditto	ditto	2008	-	✓
Inland	Lake Pandin	PHI102	Rural	4 times/y	Water temperature, pH, EC, Alkalinity, NH ₄ ⁺ , Na ⁺ , K ⁺ , Ca ²⁺ , Mg ²⁺ , SO ₄ ²⁻ , NO ₃ ⁻ , Cl ⁻ , NO ₂ ⁻ , PO ₄ ³⁻ , Chlorophyll a, DO, Transparency, Total dissolved Al, COD (see Mandatory items (Lake) ^e)	2004	✓	✓
	Ambulalakao Lake	PHI003	Rural	4 times/y	ditto	2005	✓	✓
Catchment-scale	La Mesa Watershed (Metro Manila)	PHC001	Urban	Monthly	Precipitation amount, Wet deposition, Air concentration (from Metro Manila site), Stream water Chemistry	2019	✓	✓

- E_Sites: SV_[U/RU/RE] (4)_[1/3/0], IAE_[U/RU/RE] (2)_[0/2/0], C_[U/RU/RE]_(1)_[1/0/0]
- There is no change from the NMP 2025 for E_Sites.
- Soil and Vegetation monitoring at Benguet has been conducted and results will be submitted next year.

Republic of Korea

Items	Monitoring Sites	Code	Classification	Monitoring Interval	Measurement Parameters	Remarks (Start time)	Data Report 2024	Plan 2026
Air	Ganghwa	KRA001	Rural	AT(hourly)	SO ₂ , NO ₂ , O ₃ , PM ₁₀ , PM _{2.5}	JAN 2002	✓	✓
				FP (once every 6 days)	HNO ₃ , NH ₃ , HCl, Ions in PM _{2.5} ^h	JAN 2001	✓	✓
	Jeju	KRA002	Remote	AT(hourly)	SO ₂ , NO ₂ , O ₃ , PM ₁₀ , PM _{2.5}	JAN 2002	✓	✓
				FP (once every 6 days)	HNO ₃ , NH ₃ , HCl, Ions in PM _{2.5} ^h	JAN 2001	✓	✓
	Imsil	KRA003	Rural	AT(hourly)	SO ₂ , NO ₂ , O ₃ , PM ₁₀ , PM _{2.5}	JAN 2002	✓	✓
				FP (once every 6 days)	HNO ₃ , NH ₃ , HCl, Ions in PM _{2.5} ^h	JAN 2001	✓	✓
Wet	Ganghwa	KRA001	Rural	daily	Mandatory items ^a	MAR 1999	✓	✓
	Jeju	KRA002	Remote	daily	Mandatory items ^a	APR 1999	✓	✓
	Imsil	KRA003	Rural	daily	Mandatory items ^a	JAN 2001	✓	✓

- A_Sites: A/D_[U/RU/RE]_{AT/FP/PS} (3)_[0/2/1]_{3/3/0}, W_[U/RU/RE] (3)_[0/2/1]
- E_Sites: SV(0), IAE(0), C(0)
- There is no change from NMP 2025.
- Monitoring data of PM_{2.5} and O₃ by AT are submitted.

Russia

Items	Monitoring Sites	Code	Classification	Monitoring Interval	Measurement Parameters	Remarks (Start time)	Data Report 2024	Plan 2026
Air	Listvyanka	RUA002	Rural	FP(weekly)	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC ^b	JAN 2001	✓	✓
				AT(daily)	SO ₂ , NO _x , O ₃	JAN 2025	-	✓
				PS(biweekly)	O ₃	JAN 2014	-	✓
	Primorskaya	RUA004	Rural	FP(biweekly)	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC ^b	JAN 2001	✓	✓
	Irkutsk	RUA003	Urban	FP(weekly)	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC ^b	JAN 2001	✓	✓
Wet	Listvyanka	RUA002	Rural	On precipitation events	Mandatory items ^a + F _s , NO ₂ ⁻ , Br ⁻ , HCO ₃ ⁻	JAN 2000	✓	✓
	Primorskaya	RUA004	Rural	daily	Mandatory items ^a	FEB 2002	✓	✓
	Irkutsk	RUA003	Urban	daily	Mandatory items ^a + F _s , NO ₂ ⁻ , Br ⁻ , HCO ₃ ⁻	JAN 2001	✓	✓
Soil and vegetation	Listvyanka (Bolshie Koty)	RUS002	Rural	every 3-5 years	Soil (pH(H ₂ O), pH(KCl), exchangeable (Na ⁺ , K ⁺ , Ca ²⁺ , Mg ²⁺ , Al ³⁺ , H ⁺), exchangeable acidity, Effective cation exchangeable capacity (ECEC)) / Vegetation (Observation of tree decline, Description of trees)	2000	-	-
	Irkutsk	RUS003	Urban	ditto	ditto	2001	-	-
	Primorskaya	RUS004	Rural	ditto	ditto	2006	-	-
Inland	Pereemnaya River	RUI102	Rural	4 times/y	Water temperature, pH, EC, alkalinity, NH ₄ ⁺ , Na ⁺ , K ⁺ , Ca ²⁺ , Mg ²⁺ , SO ₄ ²⁻ , NO ₃ ⁻ , Cl ⁻ , Transparency, Water color, Oxidation (KMnO ₄), NO ₂ ⁻ , PO ₄ ³⁻ , P total, Si	2004	✓	✓
	Komarovka River	RUI004	Rural	5 times/y	Water temperature, pH, EC, alkalinity, NH ₄ ⁺ , Na ⁺ , K ⁺ , Ca ²⁺ , Mg ²⁺ , SO ₄ ²⁻ , NO ₃ ⁻ , Cl ⁻ , Si, Dissolved oxygen, Water color, oxidation, NO ₂ ⁻ , PO ₄ ³⁻ , Fe	2005	✓	✓

- **A_Sites:**

**A/D_[U/RU/RE]_{AT/FP/PS} (3)_[1/2/0]_{1/3/1},
W_[U/RU/RE] (3)_[1/2/0]**

- **E_Sites:**

**SV(0),
IAE_[U/RU/RE] (2)_[0/2/0],
C(0)**

- **There is no change from NMP 2025.**

- **Mondy is still not active now but is considered as important monitoring site. Mondy may restart monitoring after 2028.**

- **Monitoring data of O₃ by PS are submitted.**

Thailand

Items	Monitoring Sites	Code	Classification	Monitoring Interval	Measurement Parameters	Remarks (Start time)	Data Report 2024	Plan 2026
Air	PCD (Bangkok)	THA001	Urban	AT(hourly)	NO, NO ₂ , O ₃ , PM ₁₀ , PM _{2.5}	JAN 1999	✓	✓
				FP(10 days)	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC ^b	JAN 2003	-	✓
	TMD (Samutprakarn)	THA002	Urban	AT(hourly)	SO ₂ , NO, NO ₂ , O ₃ , PM ₁₀ , PM _{2.5}	JAN 1999	✓	✓
	Vajiralongkorn (Kanchnaburi)	THA004	Remote	AT(hourly)	SO ₂ , NO, NO _x [*] , O ₃ , PM ₁₀ , PM _{2.5}	JAN 2002	✓	-
				FP(10 days)	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC ^b	JAN 2002	-	-
	Chang Phueak	THA006	Urban	AT(hourly)	SO ₂ , NO, NO ₂ , NO _x [*] , O ₃ , PM ₁₀ , PM _{2.5}	JAN 2003	✓	✓
	Si Phum	THA007	Urban	AT(hourly)	SO ₂ , NO, NO ₂ , NO _x [*] , PM ₁₀ , PM _{2.5}	JAN 2013	✓	✓
	Nai Mueang	THA009	Urban	AT(hourly)	SO ₂ , NO, NO ₂ , NO _x [*] , O ₃ , PM ₁₀ , PM _{2.5}	JAN 2008	✓	✓
Wet	PCD/PRD (Bangkok)	THA001	Urban	daily	Mandatory items ^a + Organic acid, Phosphate	APR 1999	✓	✓
	TMD (Samutprakarn)	THA002	Urban	daily	Mandatory items ^a + Organic acid, Phosphate	JAN 2000	✓	✓
	ERTC (Patumthani)	THA003	Rural	daily	Mandatory items ^a + Organic acid, Phosphate	MAR 1999	✓	✓
	Vajiralongkorn (Kanchnaburi)	THA004	Remote	daily	Mandatory items ^a + Organic acid, Phosphate	APR 1999	-	-

- There are no plans of Vajiralongkorn (Kanchnaburi) for Air/Wet/IAE in NMP 2026. But the monitoring site has not been closed. Therefore, the site is included in NMP 2026 table.
- Monitoring data of PM_{2.5} by AT are submitted.

- A_Sites: A/D_[U/RU/RE]_{AT/FP/PS} (2)_[2/1/0]_{2/0/0}, W_[U/RU/RE] (3)_[2/1/0]
- E_Sites: SV(0), IAE(0), C(0)

Vietnam

Items	Monitoring Sites	Code	Classification	Monitoring Interval	Measurement Parameters	Remarks (Start time)	Data Report 2024	Plan 2026
Air	Hanoi	VNA001	Urban	FP(weekly)	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC ^b	AUG 1999	✓	✓
	Hoa Binh	VNA002	Rural	AT(hourly)	PM _{2.5}	FEB 2015	✓	-
				FP(weekly)	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC ^b	AUG 1999	✓	✓
	Can Tho	VNA005	Rural	FP(weekly)	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC ^b	JAN 2014	✓	✓
	Ho Chi Minh	VNA006	Urban	FP(weekly)	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC ^b	JAN 2014	✓	✓
	Yen Bai	VNA007	Rural	FP(weekly)	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC ^b	MAY 2015	✓	✓
Wet	Hanoi	VNA001	Urban	weekly	Mandatory items ^a + F ⁻	AUG 1999	✓	✓
	Hoa Binh	VNA002	Rural	weekly	Mandatory items ^a + F ⁻	AUG 1999	✓	✓
	Cuc Phuong	VNA003	Remote	weekly	Mandatory items ^a + F ⁻	JAN 2010	✓	✓
	Da Nang	VNA004	Urban	weekly	Mandatory items ^a + F ⁻	JAN 2010	✓	✓
	Can Tho	VNA005	Rural	weekly	Mandatory items ^a + F ⁻	APR 2014	✓	✓
	Ho Chi Minh	VNA006	Urban	weekly	Mandatory items ^a + F ⁻	JAN 2014	✓	✓
	Yen Bai	VNA007	Rural	weekly	Mandatory items ^a + F ⁻	MAY 2015	✓	✓
Inland	Hoa Binh Reservoir	VNI002	Rural	4 times/y	Water temperature, pH, EC, alkalinity, NH ₄ ⁺ , Na ⁺ , K ⁺ , Ca ²⁺ , Mg ²⁺ , SO ₄ ²⁻ , NO ₃ ⁻ , Cl ⁻ , transparency, water colour, DOC(COD), PO ₄ ³⁻	2001	✓	✓

- A_Sites: A/D_[U/RU/RE]_{AT/FP/PS}_(5)_[2/3/0]_{0/5/0}, W_[U/RU/RE] (7)_[3/3/1]
- E_Sites: SV(0), IAE_[U/RU/RE] (1)_[0/1/0], C(0)
- PM_{2.5} AT monitoring in Hoa Binh terminated in July 2025 and the AT monitor is moved to Hanoi. The monitoring at Hanoi will start probably from 2027.
- Monitoring data of PM_{2.5} by AT are submitted.

Footnote (the same as in the meeting document)

^aMandatory items(Wet): pH, Electric conductivity (EC), NH_4^+ , Na^+ , K^+ , Ca^{2+} , Mg^{2+} , SO_4^{2-} , NO_3^- , Cl^-

^bPMC (Particulate Matter Components): SO_4^{2-} , NO_3^- , Cl^- , NH_4^+ , Na^+ , K^+ , Mg^{2+} , Ca^{2+}

^cMandatory items(Lake): Water temperature, pH, EC, Alkalinity (Gran's plot titration/ pH 4.8 endpoint), Cations (NH_4^+ , Na^+ , K^+ , Ca^{2+} , Mg^{2+}), Anions (SO_4^{2-} , NO_3^- , Cl^-), Transparency, Water color, Dissolved organic carbon (DOC) or total organic carbon (TOC), NO_2^- , PO_4^{3-} , Chlorophyll a, Total P, Total N, Dissolved oxygen (DO), SO_4^{2-} , NO_3^- , and NH_4^+ in pore water of sediment

^dMandatory items(Soil): Moisture content, pH(H_2O), pH(KCl), Exchangeable base cations (Na^+ , K^+ , Ca^{2+} , Mg^{2+}), Exchangeable acidity, Effective cation exchangeable capacity (ECEC), Carbon content (when pH(H_2O) > 7)

^eOptional items(Soil): Exchangeable cations (Al^{3+} , H^+), Carbon content (when pH(H_2O) ≤ 7), Total carbon content, Total nitrogen content, Available

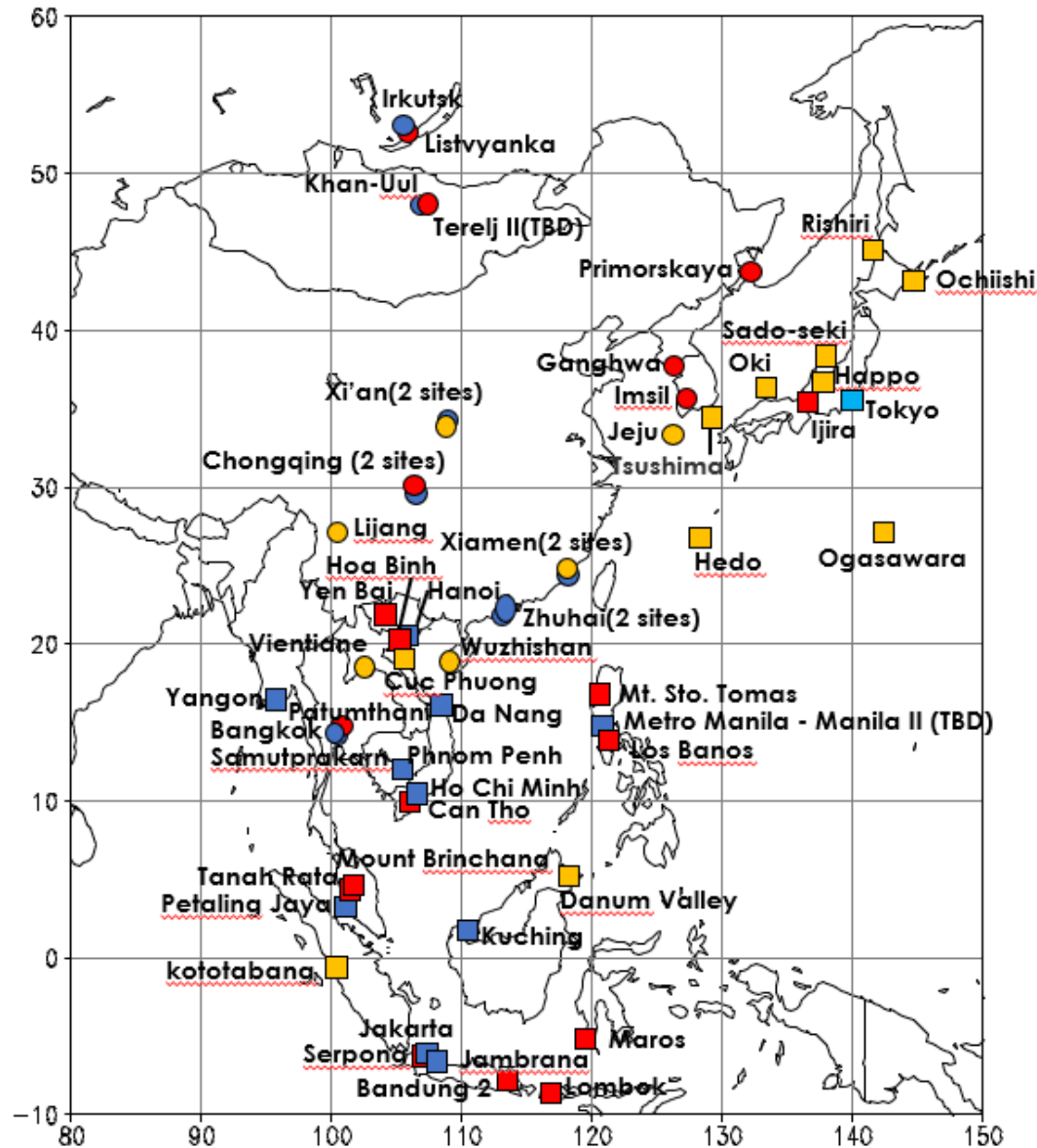
^fMandatory items(Vegetation): Description of the tree, Understory vegetation survey, Observation of tree decline

^gMandatory items(River): Water temperature, pH, EC, Alkalinity (Gran's plot titration/ pH 4.8 endpoint), Cations (NH_4^+ , Na^+ , K^+ , Ca^{2+} , Mg^{2+}), Anions (SO_4^{2-} , NO_3^- , Cl^-), Water color, Dissolved organic carbon (DOC) or total organic carbon (TOC), NO_2^- , PO_4^{3-} , Total P, Total N, Suspended solid (SS)

^hIons in $\text{PM}_{2.5}$ (Republic of Korea): SO_4^{2-} , NO_3^- , Cl^- , NH_4^+ , Na^+ , K^+ , Mg^{2+} , Ca^{2+}

**Maps and number of
monitoring sites
(Attachment 2 of EAMET/SAC26/9)**

Wet deposition monitoring (2026)



Urban
Rural
Remote

○ daily
□ Weekly

Wet deposition (56)

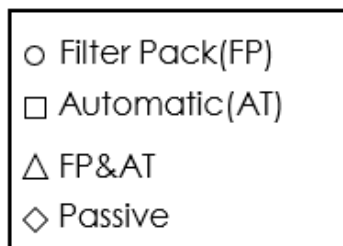
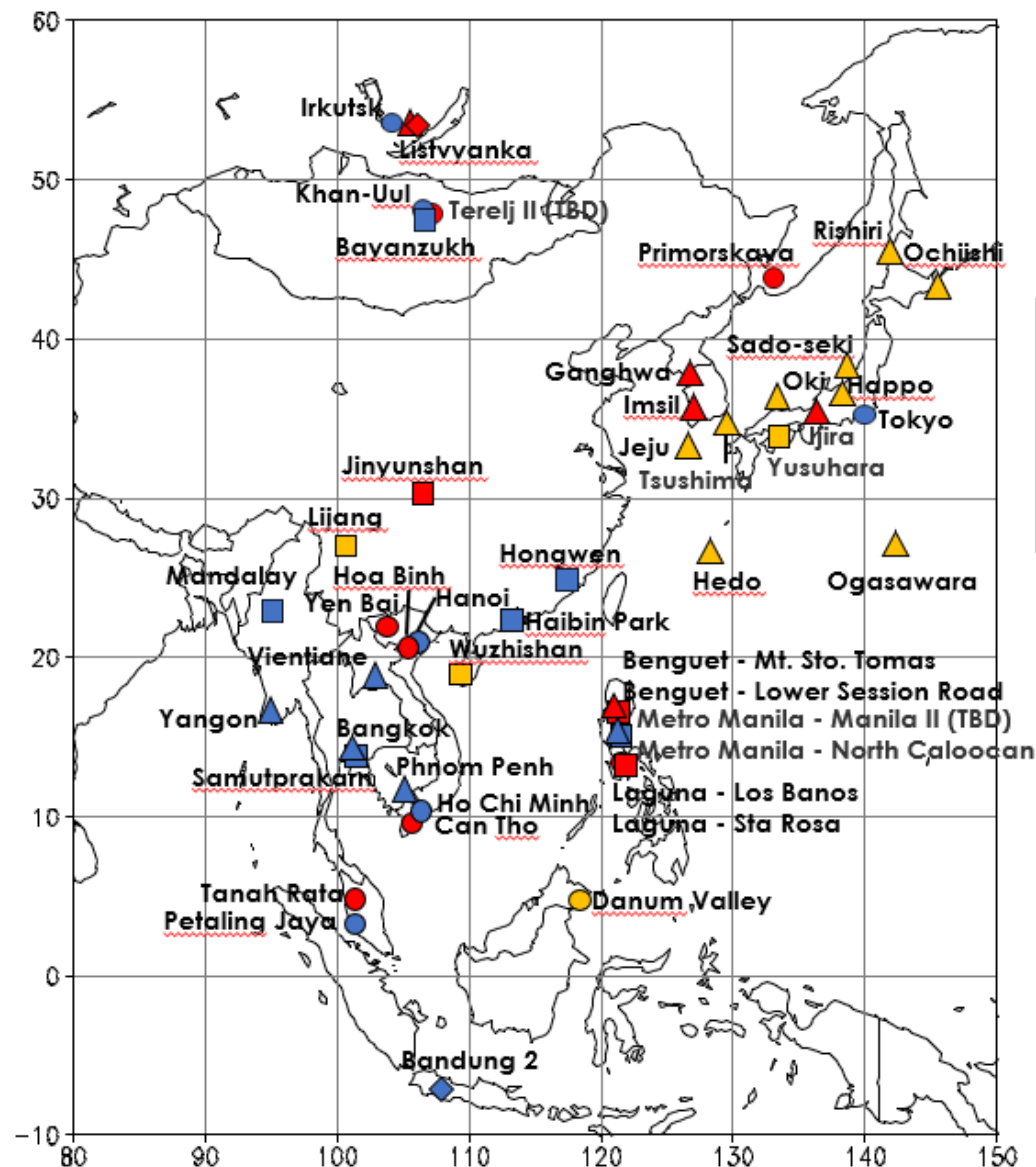
Category

Urban: 21 sites

Rural: 19 sites

Remote: 16 sites

Dry deposition monitoring (2026)



Dry deposition (43)

Category

Urban: 15 sites

Rural: 15 sites

Remote: 13 sites

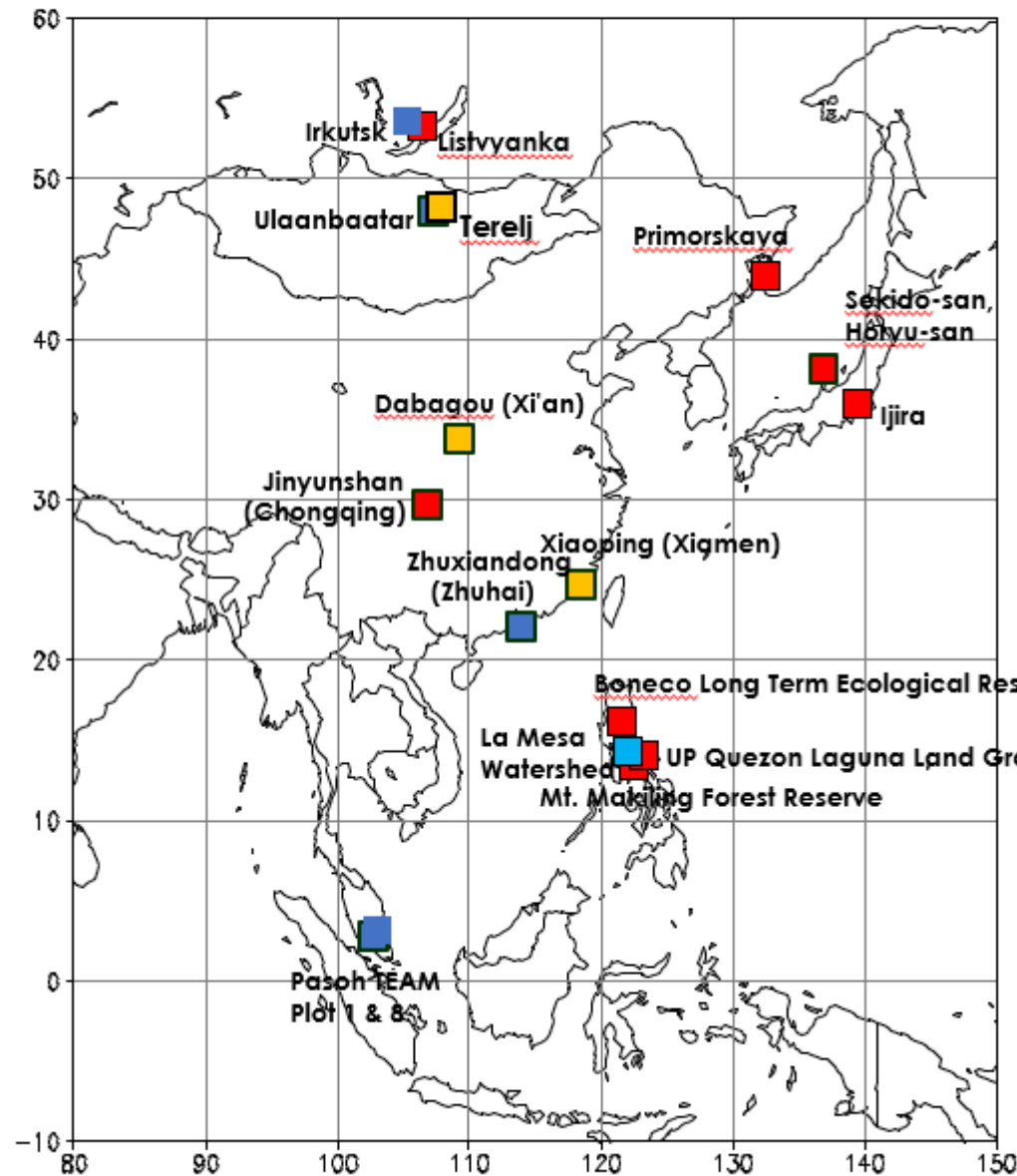
Methodology

Filter pack: 33 sites

Automatic: 30 sites

Passive: 2 sites

Soil & Vegetation monitoring



Urban

Rural

Remote

Soil & Vegetation (17)

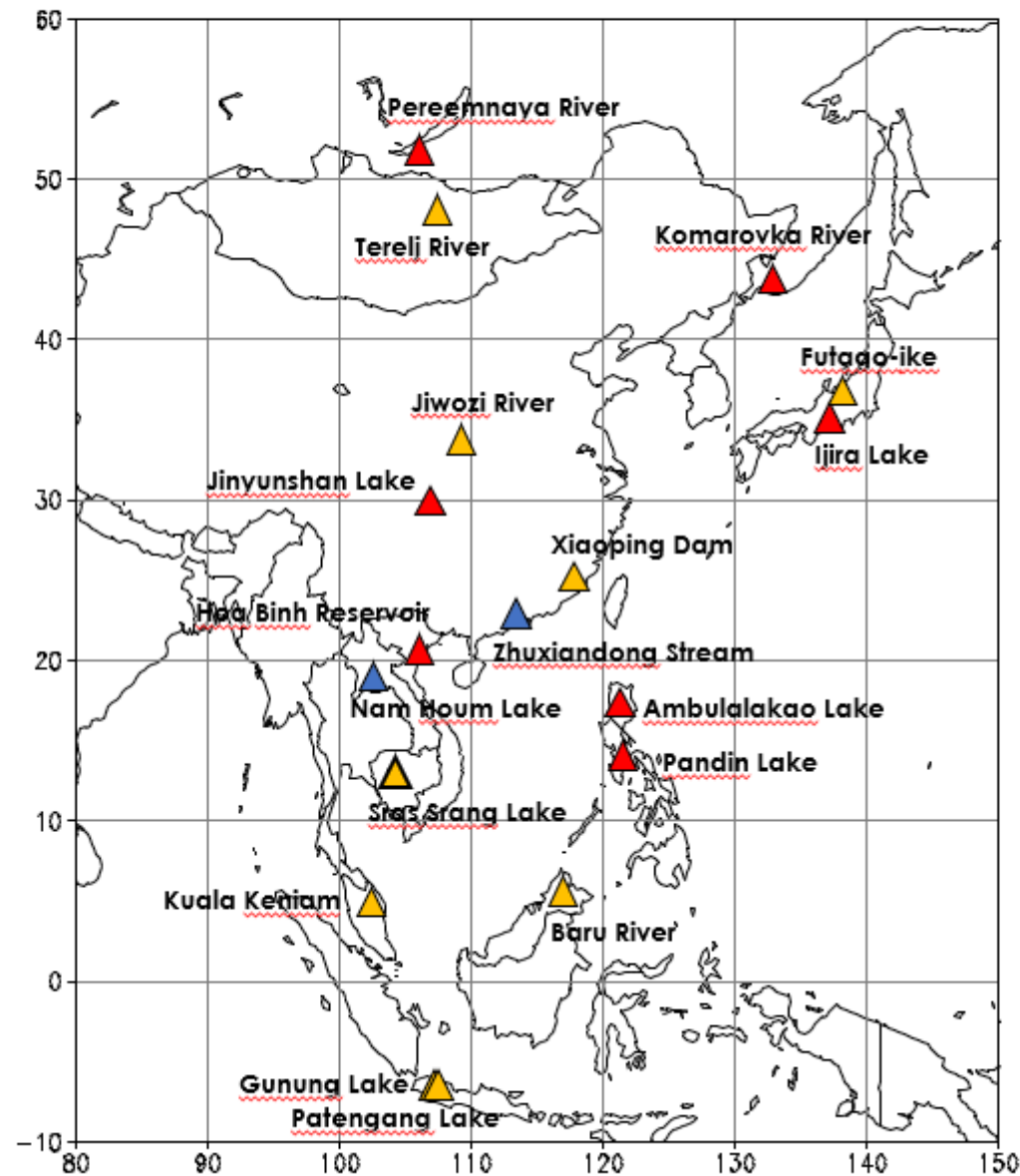
Category

Urban: 6 sites

Rural: 8 sites

Remote: 3 sites

Inland Aquatic Environment monitoring (2026)



IAE (18)

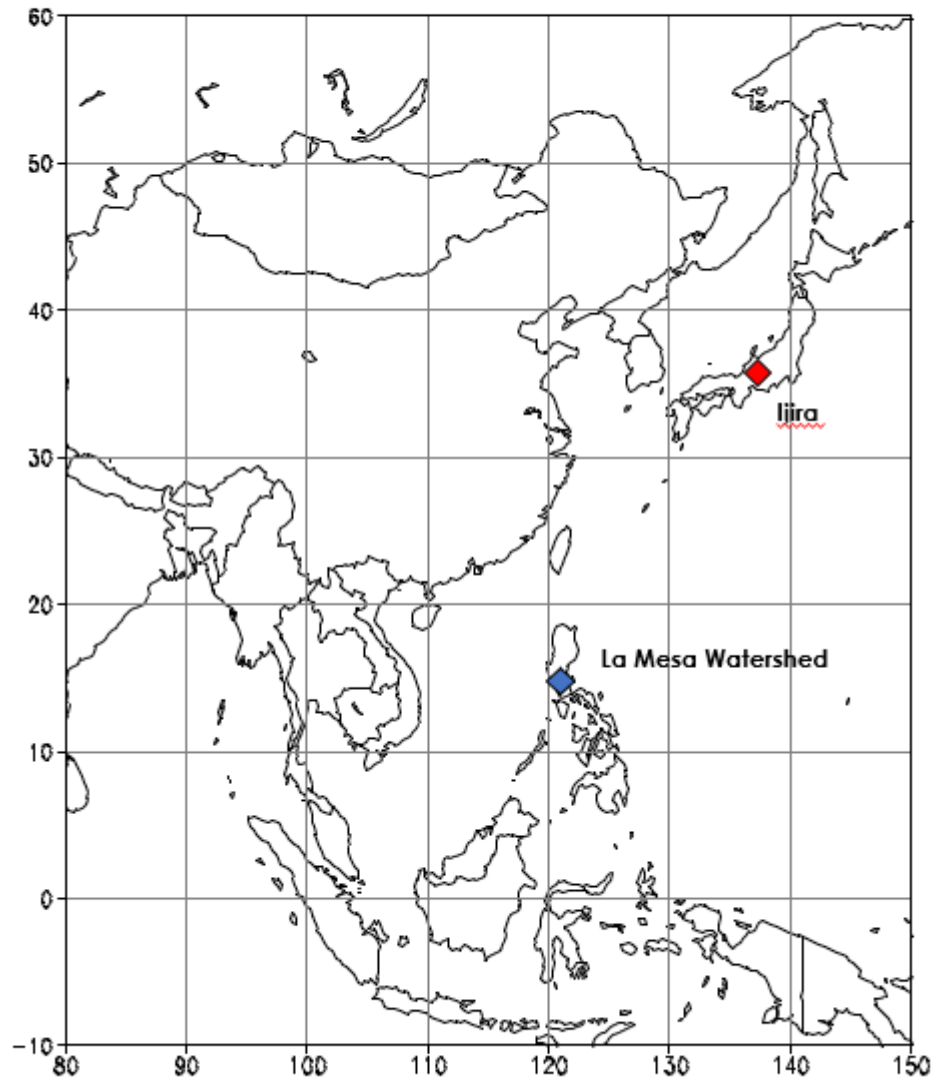
Category

Urban: 2 sites

Rural: 7 sites

Remote: 9 sites

Catchment scale monitoring (2026)



Urban
Rural
Remote

Catchment scale monitoring sites (2)

Category

Urban: 1 site

Rural: 1 site

Remote: None



La Mesa Watershed (Luzon, the Philippines, Urban)



Ijira (Honshu, Japan, Rural)

Actions Required

The SAC26 is invited to provide comments, suggestions, and opinions about

- **the National Monitoring Plan 2026 of each participating country**
- **the current monitoring status and future monitoring activities of EANET**

Thank you



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