

Report of the Inter-laboratory Comparison Project 2025 on Wet Deposition

28th attempt

(Draft)

SAC26 20th-22nd October 2026

Kuala Lumpur, Malaysia (Hybrid)



Asia Center for Air Pollution Research
Japan Environmental Sanitation Center

Network Center for the EANET

General Information on Artificial Rainwater Samples

Samples	No. 251w (high concentration sample*) No. 252w (low concentration sample*) * concentration levels were not displayed on the sample when they were distributed
Quantity	100mL each
Container	polypropylene bottle
Parameters	pH, EC, 3 anions (SO_4^{2-}, NO_3^-, Cl^-), 5 cations (Na^+, K^+, Ca^{2+}, Mg^{2+}, NH_4^+)
Note	• Samples are distributed as concentrated liquid. • Participating laboratories must dilute the samples 100 times with deionized water before analysis.

Prepared Values and Flags

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Unit: EC [mS m⁻¹], Ions [μmol L⁻¹]

	pH	EC	SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	Mg ²⁺
No. 251w	4.74	2.49	32.9	37.5	40.4	33.3	39.4	4.9	16.3	7.8
No. 252w	5.30	1.01	15.1	14.6	18.1	15.1	17.1	2.0	7.6	4.3

Criteria <Flag system>

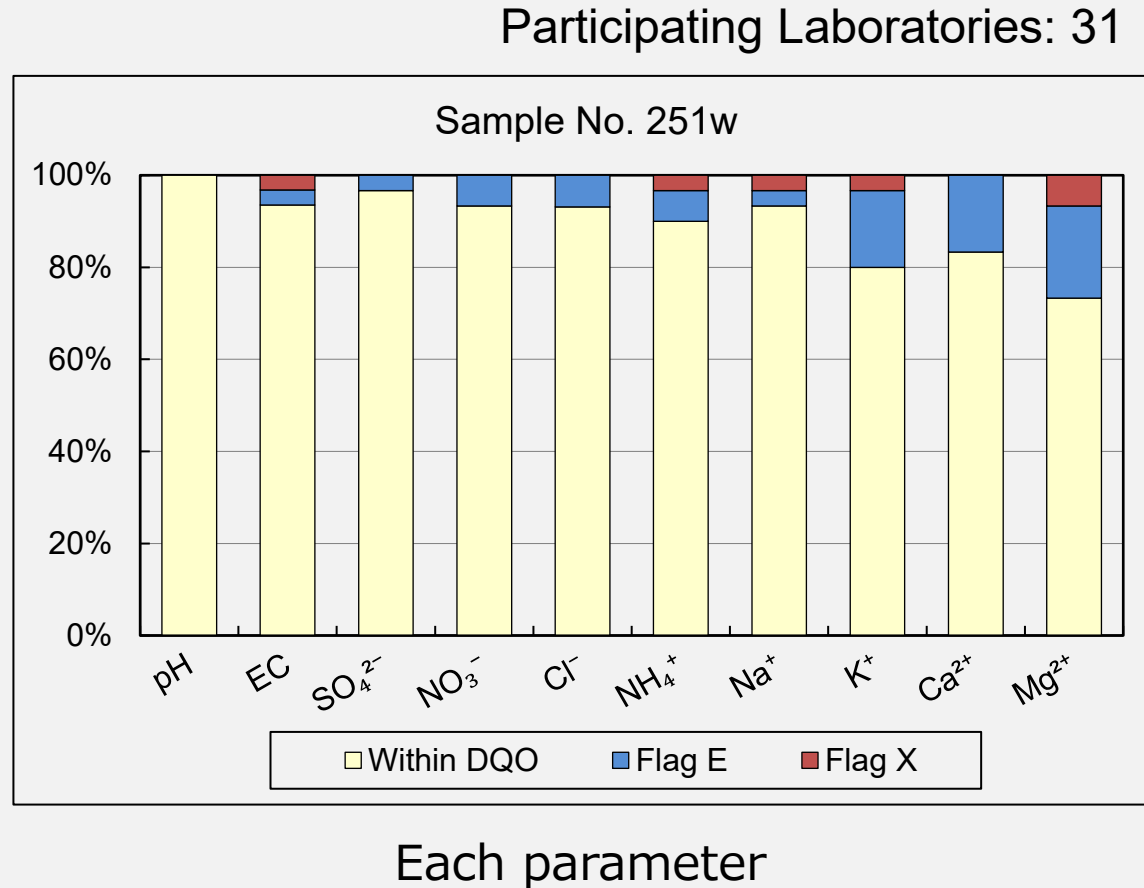
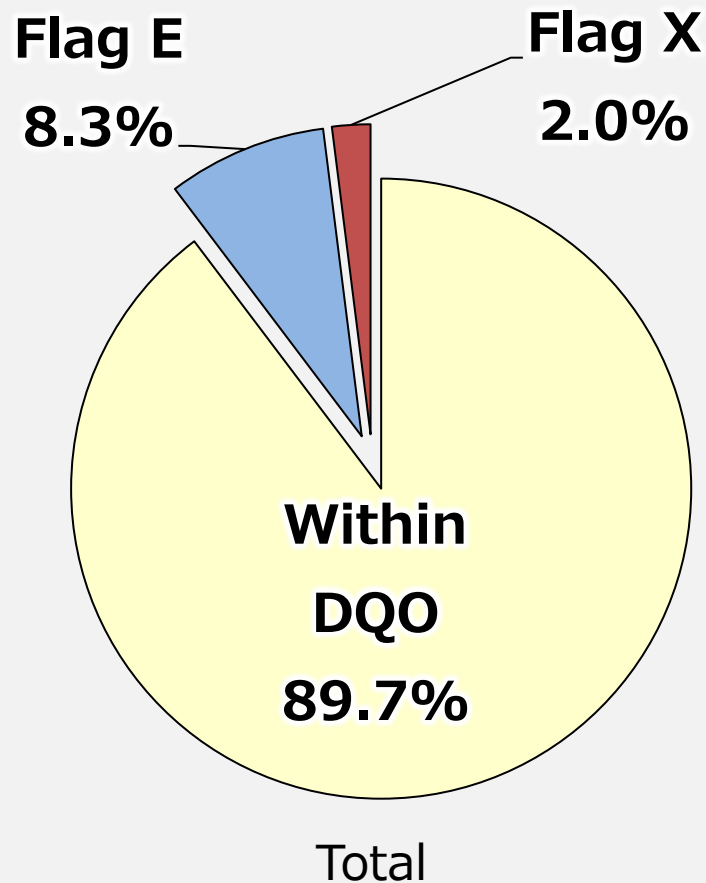
No Flag : Within ±15% (DQO)

Flag E : Over the DQO more than ±15% and within ±30%

Flag X : Over the DQO more than ±30%

→Compared to prepared values

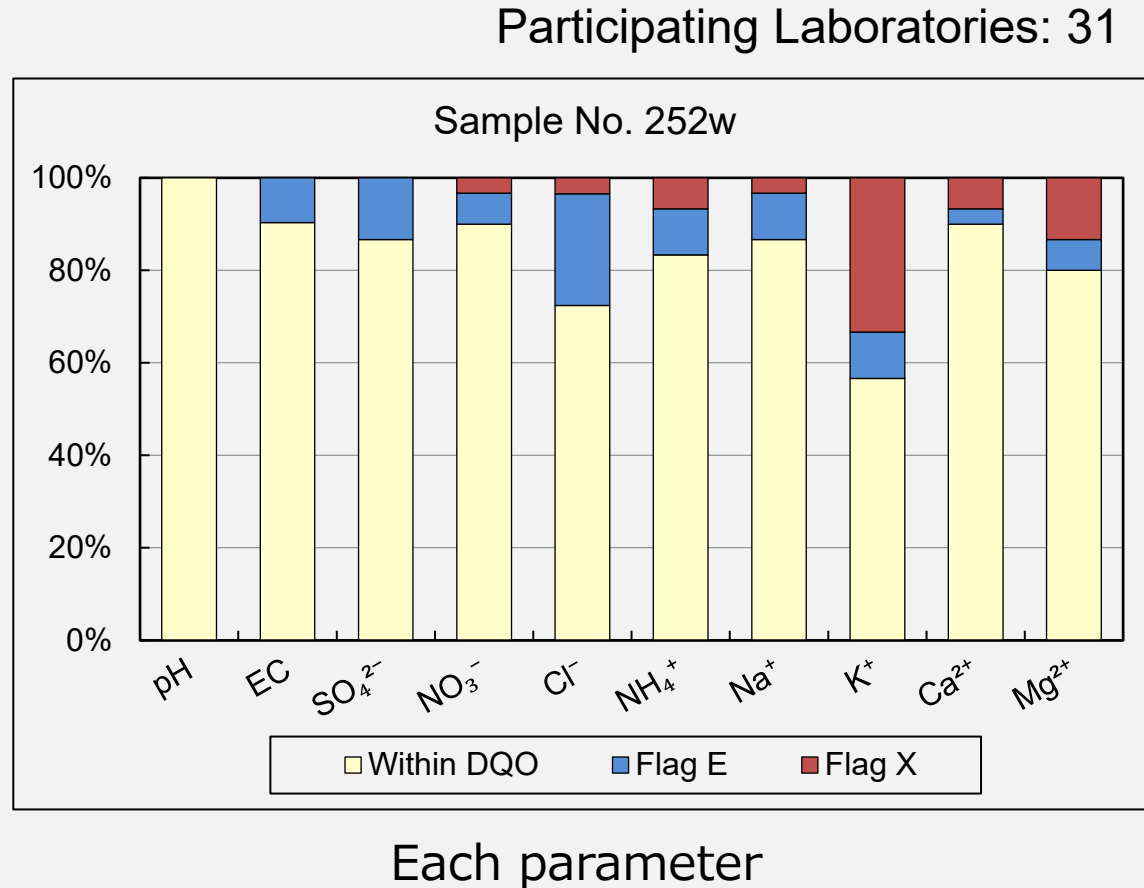
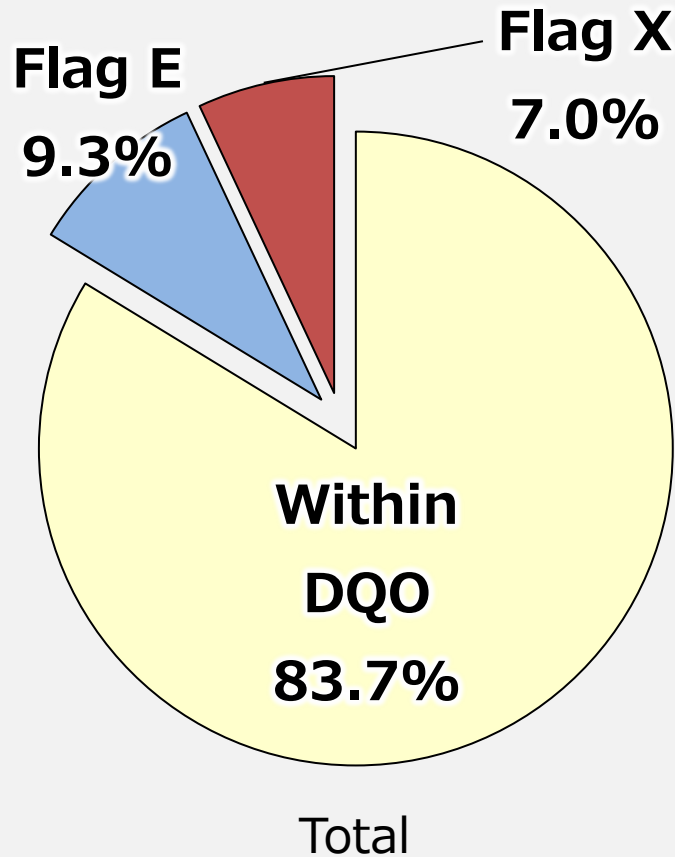
DQO-based Data Evaluation for No. 251w



Percentage of flagged/non-flagged data

DQO-based Data Evaluation for No. 252w

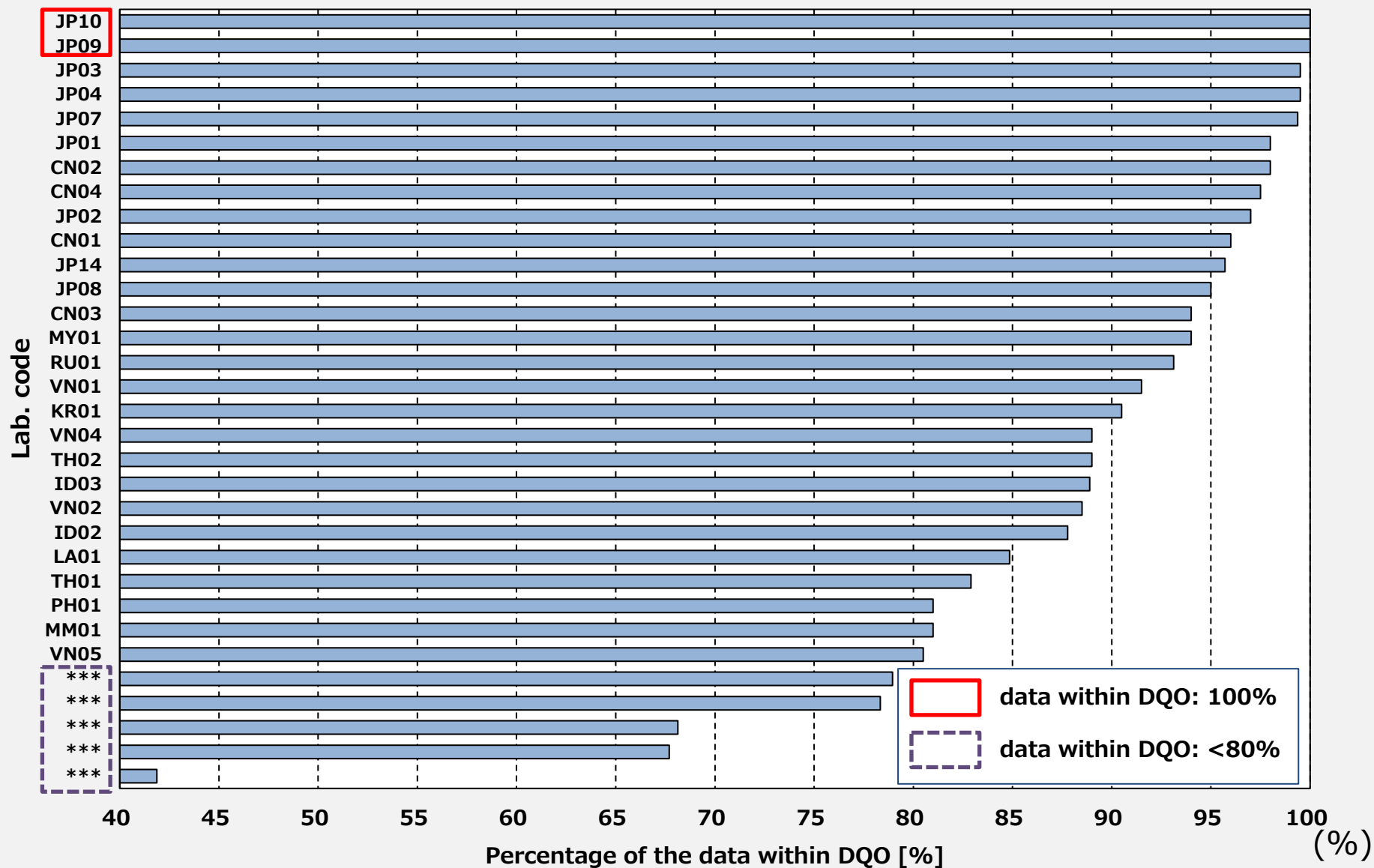
5



Percentage of flagged/non-flagged data

Total percentage of the data within DQO —across all items and years (2016–2025)—

6

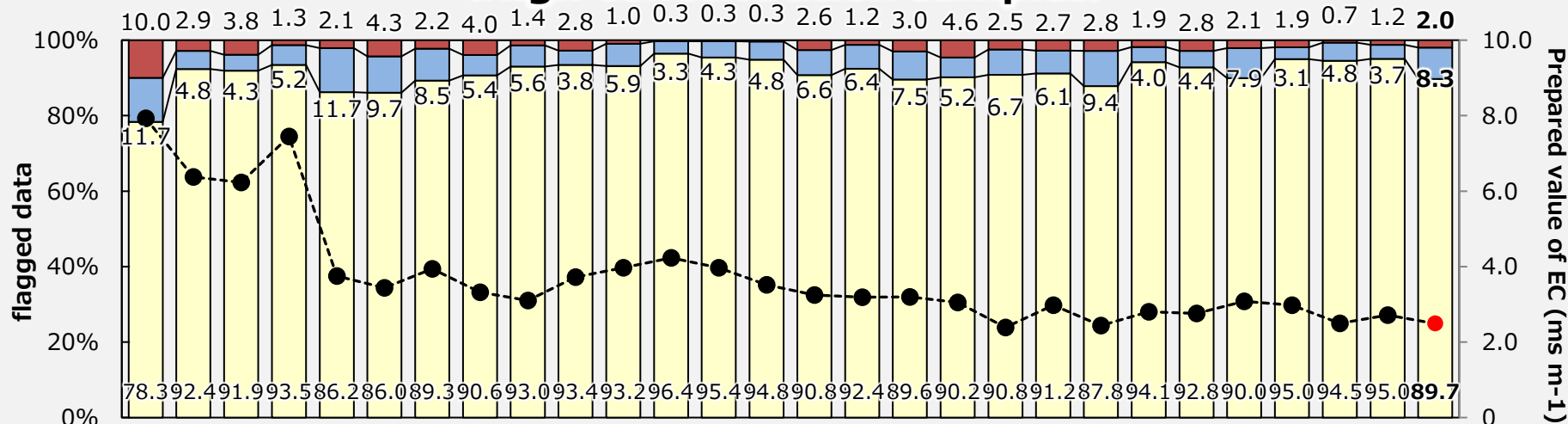


Lab. code is indicated as "***" in case that percentage of the data within DQO is below 80%.

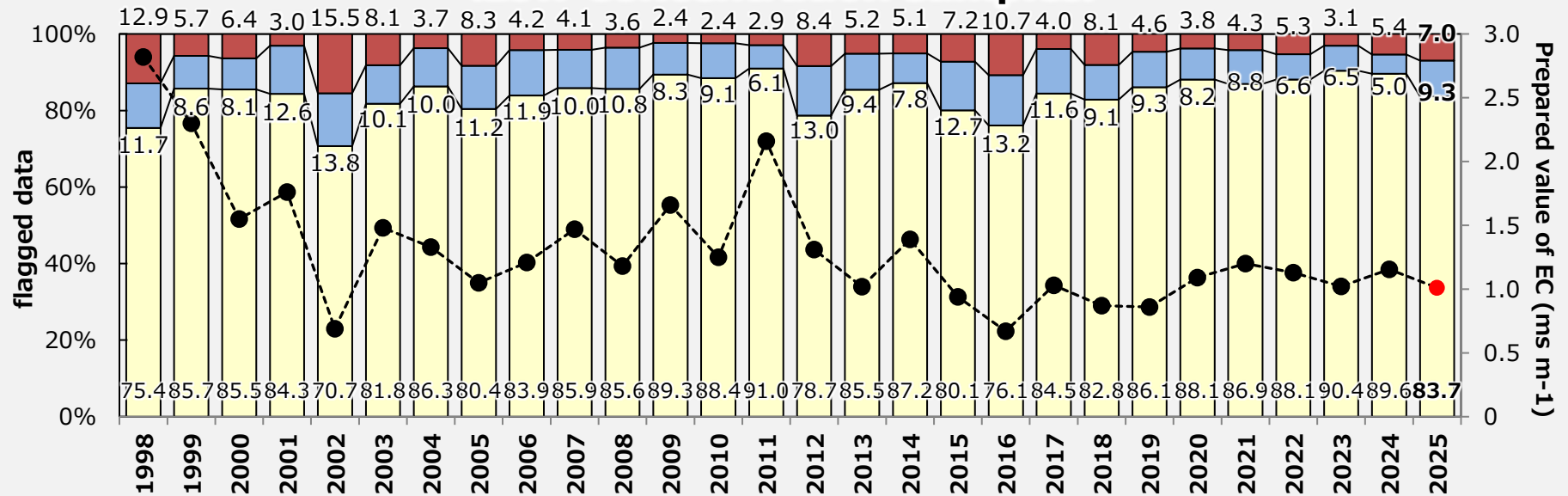
Comparison to past surveys

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<High concentration samples>

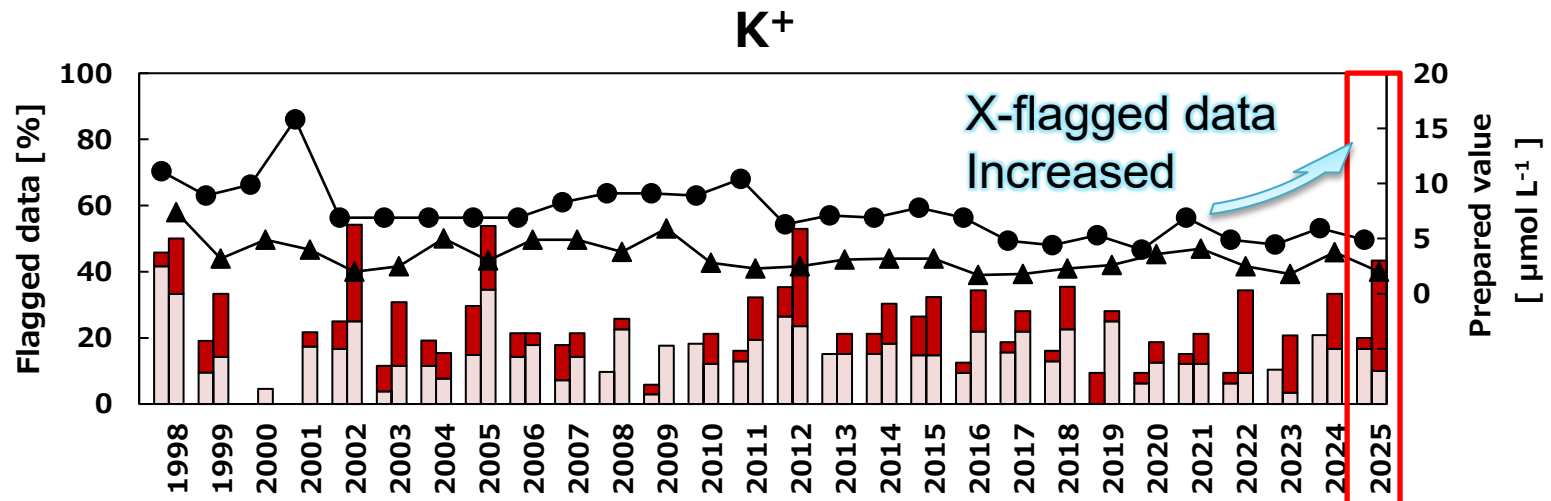


<Low Concentration samples>



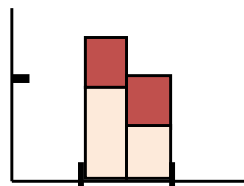
Comparison to past surveys

—Most flagged item (K^+)—



parameter of X axis; year of project

parameter of primary Y axis; the percentage of flagged data (%)



■ "X" Flag percentage
 ■ "E" Flag percentage

Left bar: percentage of flagged data in high concentration sample

Right bar: percentage of flagged data in low concentration sample

parameter of secondary Y axis; concentration of prepared samples ($\mu\text{mol/L}$)

● Prepared value of high concentration sample
 ▲ Prepared value of low concentration sample

**Thank you for
your attention.**



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