



Asia Pacific Mercury  
Monitoring Network



National Atmospheric  
Deposition Program



Ministry of  
Environment

14<sup>th</sup> Annual Asia-Pacific Mercury Monitoring Network (APMMN) Partners Meeting, 2025-12-10, Taiwan

# Status of Mercury Monitoring Activities in Sri Lanka

Anurudda Karunaratna

University of Peradeniya, SRI LANKA

*In Collaboration with*

Environmental Pollution Control & Chemical Management Division, Ministry of Environment,  
SRI LANKA

# National mercury monitoring center of Sri Lanka established in 2019



Asia-Pacific Mercury  
Monitoring Network

[About](#)

[News & Events](#)

[The Network](#)

[Education](#)

[Publications](#)

[Workshops](#)

[Contact](#)

[Login](#)



## Central Province, Sri Lanka

Site: **APLK01**

Site Name: **U of Peradeniya**

Latitude: **7.2518**

Longitude: **80.5946**

Elevation: **481**

Status: **Active**

Type: **Wet**

[Site Photos](#)

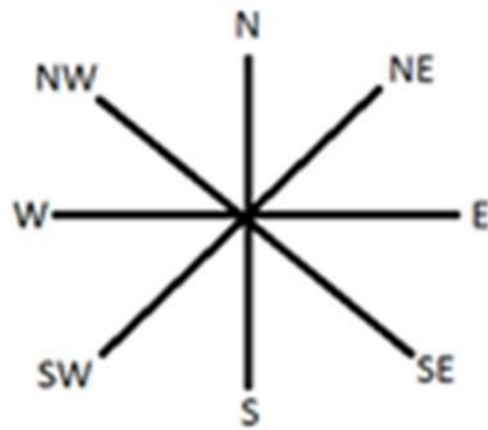


# Progress of atmospheric mercury monitoring activities in Sri Lanka

- Wet deposition sampler was installed at University of Peradeniya 2019 April. 24Hr Gold Amalgamation Trap air sampling started from 2020 October and MerPAS sampling at the same location

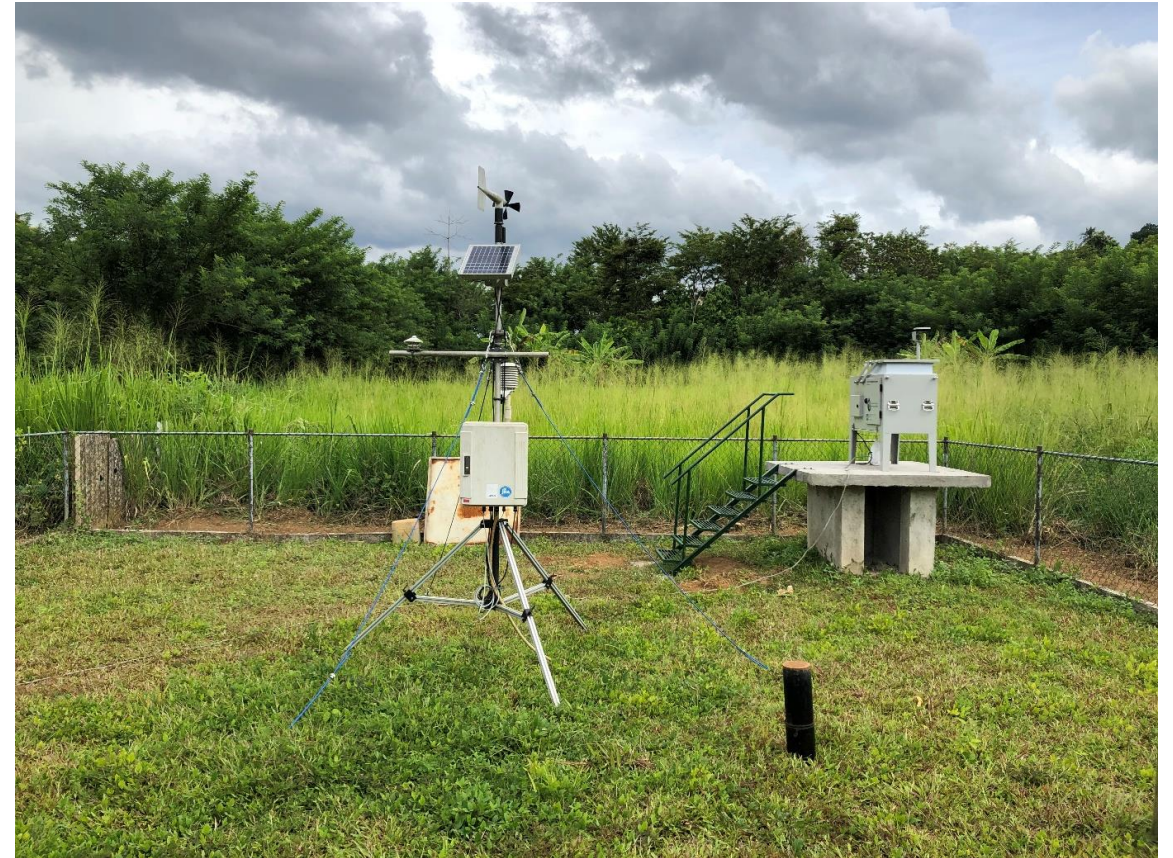


# Wet deposition sampler and Air Sampling Location at University of Peradeniya



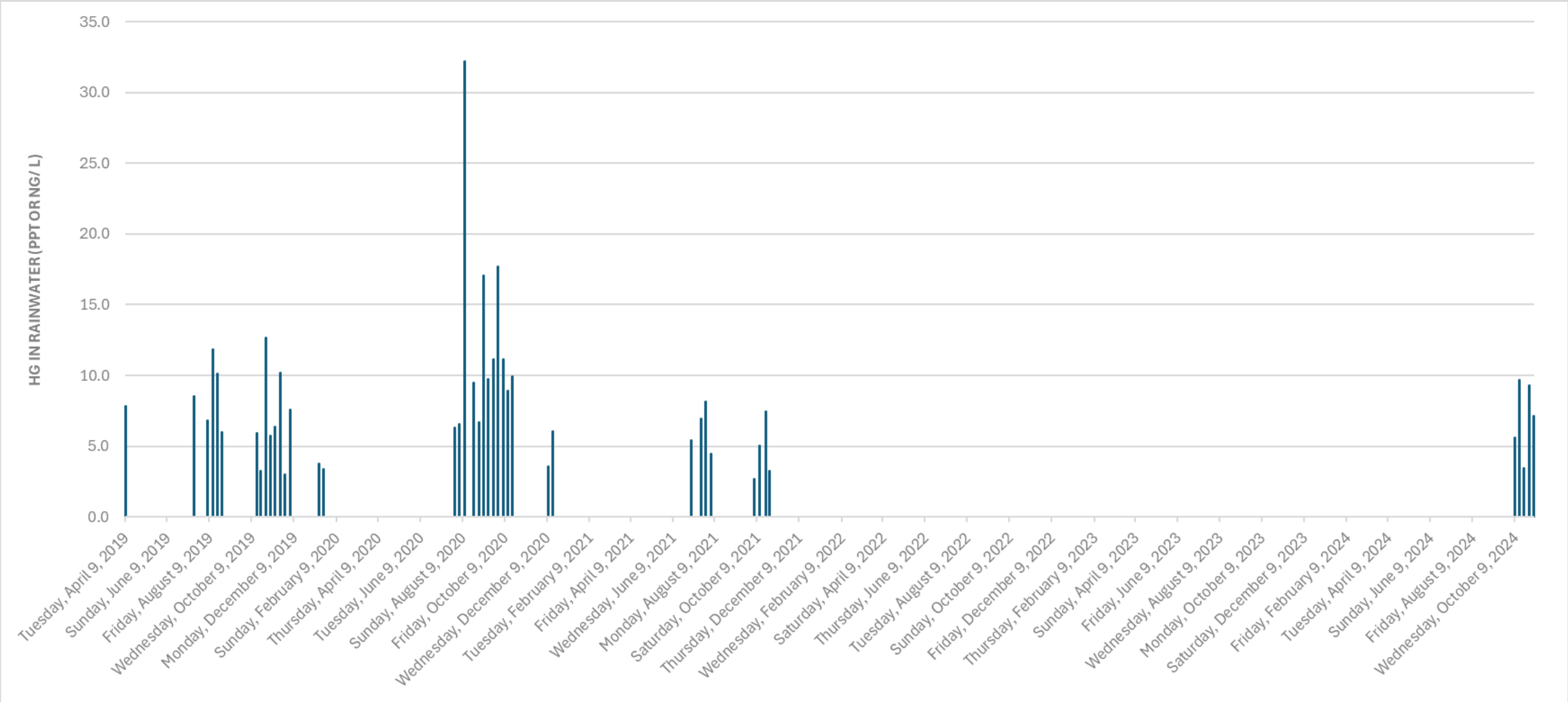
# Atmospheric Air monitoring

- Atmospheric air sampling equipment from MoEJ
- Collected samples are analyzed at (Gold cartridge) at Institute of Environmental Ecology, IDEA Consultants, Inc. Japan.



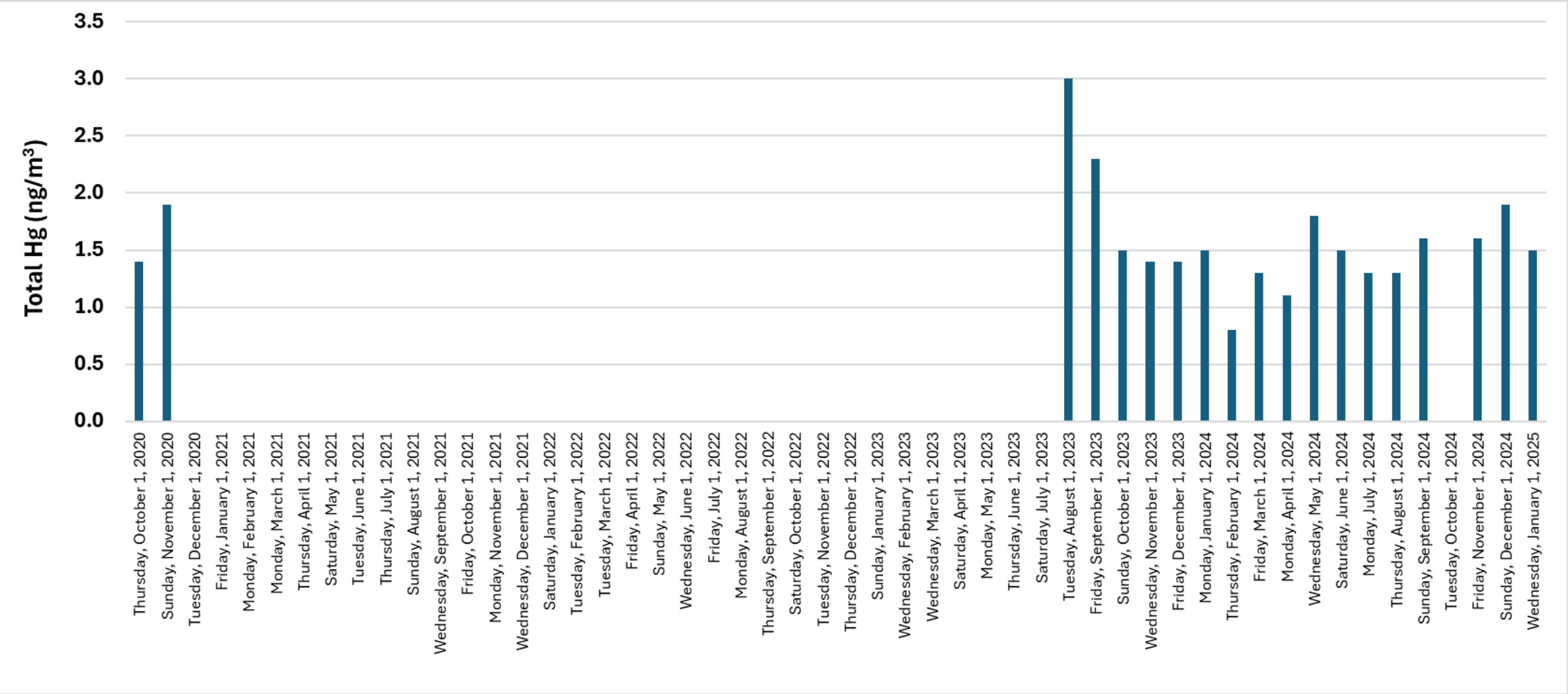
# Progress of wet deposition (Mercury in rainwater) monitoring at UoP

*Analyzed at Central Analytical Lab, National Central University, Taiwan*



# 24-hour atmospheric air sampling

*Institute of Environmental Ecology, IDEA Consultants, Inc. Japan*

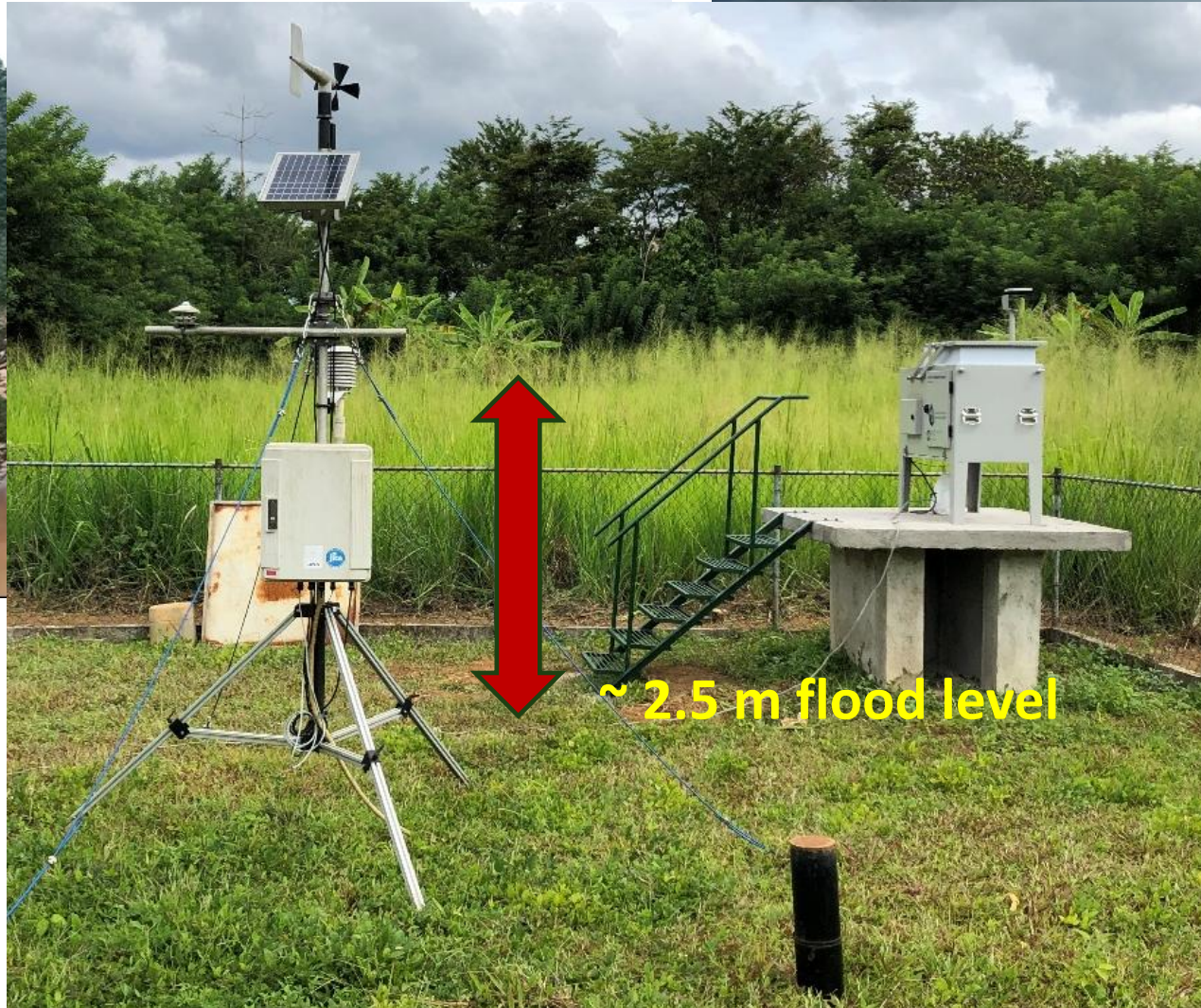


## Samples to be analyzed

- We have collected and stored wet deposition samples for 6 months ( 2 samples for a month)
- Six atmospheric air samples to be sent for analysis

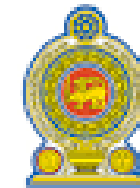
|    |                             |        |        |
|----|-----------------------------|--------|--------|
| 18 | Tuesday, May 20, 2025       | LKR 02 | LKR 01 |
| 19 | Tuesday, June 17, 2025      | LKR 04 | LKR 03 |
| 20 | Tuesday, July 15, 2025      | LKR 06 | LKR 05 |
| 21 | Tuesday, August 19, 2025    | LKR 08 | LKR 07 |
| 22 | Tuesday, September 16, 2025 | LKR 10 | LKR 09 |
| 23 | Tuesday, October 21, 2025   | LKR 12 | LKR 11 |

## Flood damage (27-11-2025)



## Future works

- Assess the damage caused by the flood (The wet deposition sampler, optionally the weather station)
- Resume wet deposition sampling using alternative collection method (Manual sample collection ?)
- Send the collected atmospheric air samples for analysis
- A small research grant has been secured to assess the mercury (plastic/microplastic bound heavy metals) in debris, sediments, and water in sensitive environments (Agricultural lands, water bodies, coastal areas). The research is to be started in January 2026.



Ministry of  
Environment



Asia Pacific Mercury  
Monitoring Network

Thank you.