

# **2025 Asia –Pacific Regional Meeting**

05-07 May 2025



## Welcome & Meeting Goals

- **GLOBE Program Updates:** Share regional and country-specific progress and plans.
- **Integrate ESS & STEM:** Connect Earth System Science with GLOBE and improve STEM education.
- **Develop Action Plans:** Create plans for regional and country initiatives, especially for ESS.
- **Strengthen Networks:** Build collaboration among coordinators, scientists, and educators.
- **Enhance Tools & Resources:** Update and train on GLOBE website .

# **AP RCO Update**

**Advancing Earth Science and STEM Education**

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## Objectives & Agenda

- Recap key initiatives & achievements (Sept '24–Apr '25)
- Preview next-year ESS & soil-moisture plans
- Suggested Campaigns, Symposiums, Events, Next Steps



## **Recap key initiatives & achievements**

**(Sept '24–Apr '25)**

### **Soil in Schools Campaign**

- Sept 1–Oct 16, 2024: hands-on soil investigations in 6 countries
- 134 student registrations; 4 expert webinars
- Reporting:
  - Students present research findings with charts and narratives promoting environmental sustainability.
  - 4 presentations from 4 countries (Philippines, Taiwan, Thailand, and India).
- Impact: fostered inquiry & data literacy, innovative student research, raised awareness of micro plastics in soil impact, and set the stage for future regional collaborations and activities.

## Recap key initiatives & achievements (Sept '24–Apr '25)

### 5th Virtual Wetland Symposium Update

- The 5th GLOBE Asia-Pacific Virtual Wetland Symposium was a dynamic platform that brought together students, educators, and environmental advocates from across the region to showcase scientific research, innovative solutions, and conservation efforts for protecting wetlands. With participation from eight GLOBE countries (India, Maldives, Mongolia, Nepal, the Philippines, Sri Lanka, Taiwan and Thailand) and **82 attendees**, the event highlighted the critical role of wetlands in sustaining biodiversity, maintaining water quality, and mitigating climate change.
- A total of 15 student research reports were presented (Sri Lanka – 4 ; Mongolia: 3 ; Thailand: 3 ; Taiwan: 2; Nepal: 2 ; India: 1)
- This event was a powerful demonstration of how youth-led scientific inquiry can drive impactful environmental action, inspiring future generations to take responsibility for preserving our planet's natural ecosystems.

## **Recap key initiatives & achievements** (Sept '24–Apr '25)

### **Asia-Pacific Contributions to Rivers in Spring – Celebrating Water Sustainability**

Participants from AP Region attended The 25th edition of Rivers in Spring on March 21, 2025, in celebration of World Water Day with a focus on Glacier Preservation the International online broadcast hosted by Dakin University experts.

#### **Research Papers Highlights:**

- **Taiwan** – Microplastic Activities at School (2021-2024).
- **Taiwan** – Investigation and Analysis of Water Quality in Xinglong Park.
- **Taiwan** – The Price of Beauty & Microplastic Contamination Study.
- **Thailand** – Study of Microplastic Contamination in soil, Seawater and Seagrass at sikao District, trang Province.

#### **Impact:**

Showcased innovative water sustainability research from the Asia-Pacific region, strengthening international collaboration and community engagement.

## **Recap key initiatives & achievements** (Sept '24–Apr '25)

### **Protecting Greenland: AP RCO Promotes GLOBE Land Cover & Phenology Campaigns in Virtual Address**

**April 18, 2025** — On 18 April 2025, Dr. Sonal Gupta, Project Manager @ IES delivered a virtual keynote address on the theme “Keeping Greenland Clean” at Manav Rachna International Institute of Research Studies in Faridabad, India. In her talk—titled “Protect Greenland and Keeping Greenland Clean”— Dr. Gupta outlined practical strategies for safeguarding Greenland’s fragile ecosystems and highlighted the GLOBE Program’s Phenology Campaign and Land Cover Protocol as models for community-driven environmental monitoring.



## **Recap key initiatives & achievements** **(Sept '24–Apr '25)**

### **GLOBE India - BCM Aryans Celebrate Earth Day with Theme "Our Power, Our Planet"**

On April 22, 2025, BCM Aryans in Ludhiana marked Earth Day under the banner “Our Power, Our Planet,” engaging students in eco-art projects—from vegetable and flower imprints to Nature Mandalas, posters, collages and essays—while the Skill Department showcased up cycled fashion and hosted a sustainable-eating workshop. Through the Eco Club’s Mission LiFE, learners created QR codes for garden plants, then all students and teachers took an Earth Pledge and joined a campus-wide plantation drive. Environment Manager Mrs. Vipra Kale led a session on the UN’s Sustainable Development Goals for conservation, and Principal Dr. Anuja Kaushal urged adoption of small, lasting green habits—leaving everyone inspired to care for the planet.

## Education • Engagement • Impact

The Regional Coordination Office (RCO) remains dedicated to advancing GLOBE initiatives through a robust suite of webinars, strategic social media outreach, and a variety of other communication channels.

- **Accessible Resources** : All webinar materials are permanently archived on the GLOBE website's "GLOBE at Home COVID-19" page, and recordings can be viewed at any time on the AP RCO's YouTube channel.
- **Extensive Webinar Program** : Since May 2024, the AP RCO has delivered ten high-quality webinars and meetings across the Asia-Pacific region, providing a dynamic forum for knowledge exchange and stakeholder engagement.
- **GLOBE STAR Recognition**: Since the last Regional Meeting, the AP RCO has submitted two GLOBE STAR, celebrating exemplary projects that embody the GLOBE program's mission.
- Through these strategic efforts, the AP RCO underscores its unwavering commitment to environmental education and citizen science. By equipping students and communities with the tools to investigate air pollution and conserve wetlands, we are laying the groundwork for a healthier, more sustainable world for future generations.

## **Proposed RCO Initiatives (May '25 – Apr '26)**

- **Enhancing Soil Moisture Data Collection:**
- **Targeted Training Workshops:**
- RCO will conduct virtual workshops focused specifically on GLOBE's soil moisture protocols.
  - Emphasize data quality and consistency.
  - Incorporate the use of the GISN tools for data entry, visualization, and analysis.

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**Soil Moisture Campaigns:** RCO will regional campaigns to collect soil moisture data across the region. This may be linked to Soil in Schools Campaign.

- Promote data sharing and collaboration among schools.

## **Proposed RCO Initiatives (May '25 – Apr '26)**

### **Promoting Earth System Science (ESS) through GLOBE Bundles**

- **Train-the-Trainer Virtual Workshops**
- **Audience:** GLOBE Trainers & Educators
- **Format:** Monthly 90-minute webinars + on-demand recordings
- **Content:**
  - Deep dives into the “Earth as a System” Bundle Protocols (Atmosphere, Hydrology, Land Cover, Soil)
  - Hands-on demos of GLOBE data-collection tools and student-friendly field exercises.
  - Breakout “practice labs” where participants draft mini-lesson plans

## **Proposed RCO Initiatives (May '25 – Apr '26)**

**Data Analysis and Visualization:** Provide training and resources on how to analyze and visualize GLOBE data to understand ESS processes.

- Utilize the Data Viz tools and other platforms.
- Encourage students to present their findings at regional Symposium & webinars.

## Proposed RCO Initiatives (May '25 – Apr '26)

- **Promoting the NISAR Mission: NISAR Awareness Workshops:** Conduct workshops to educate teachers and students about the NISAR mission, its objectives, and its data products.
  - Explain how NISAR data can complement GLOBE observations.
  - Engage with NISAR scientists (if possible) to give presentations or virtual talks.

## **Proposed RCO Initiatives (May '25 – Apr '26)**

### **Capacity Building and Collaboration:**

- **Country Coordinator Collaboration:** Facilitate increased collaboration and knowledge sharing among Country Coordinators in the AP Region.
  - Organize regular virtual meetings for sharing best practices and project ideas.
  - Support the development of joint regional projects.



## **Proposed RCO Initiatives (May '25 – Apr '26)**

**Scientist and Alumni Engagement:** Actively involve scientists and GLOBE alumni in regional activities.

- Scientists can provide expertise and mentorship.
- Alumni can serve as role models and contribute to outreach efforts.

## **Proposed RCO Initiatives (May '25 – Apr '26)**

- **Collaboration with Local Scientists & Scientific Networks**
- **Identify & engage** environmental research partners (e.g., agricultural research institutes, water-resource agencies, meteorological departments) who are already collecting soil-moisture and other ESS parameters.
- **Introduce the GLOBE Program** to these scientists and show how GLOBE's standardized protocols can enhance and complement their own data-collection efforts.
- **Mobilize GLOBE educators & students** to assist professional researchers—through training, joint field campaigns, and student-led mini-projects—that directly feed into ongoing environmental monitoring initiatives.

## Open Discussion

To shares key action plans & refine ideas and identify clear next steps.



Thank You!

**GLOBE  
Asia – Pacific  
Regional Coordination  
Office**

contact  
[ap.region.globe@gmail.com](mailto:ap.region.globe@gmail.com)



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