

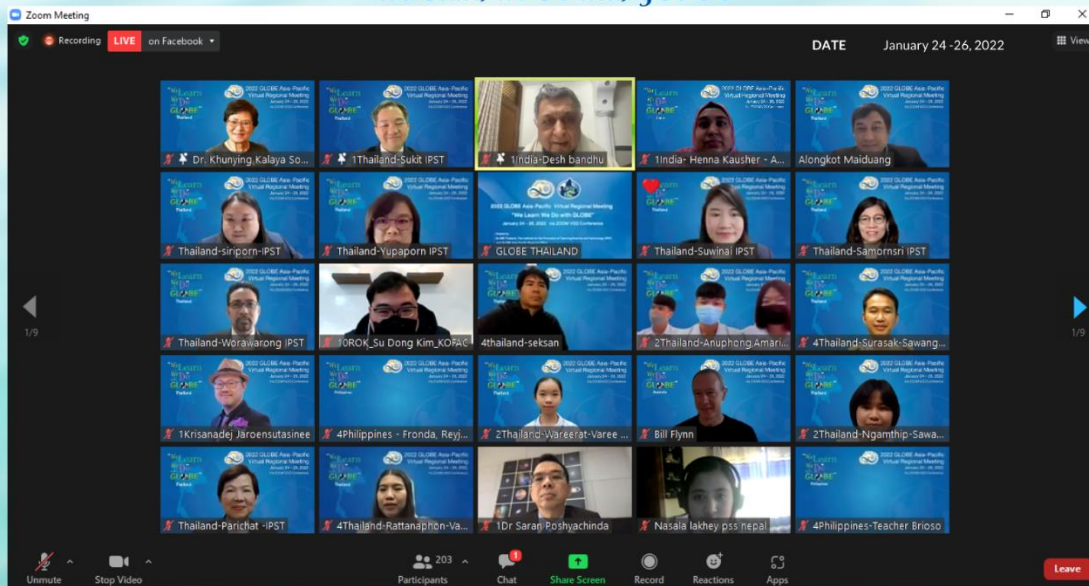


The GLOBE Program Regional Meeting for Asia and Pacific

Virtual Meeting through Zoom, January 24 - 26, 2022

2022 GLOBE Virtual Regional Meeting Asia - Pacific Region

We Learn we Do with GLOBE



Submitted By
GLOBE Asia-Pacific Regional Coordination Office

Submitted To
GLOBE Implementation Office-USA



Implemented by: UCAR

2022 GLOBE Virtual Regional Meeting for Asia - Pacific Region

RCO organized an online Zoom event that stretched over 3 days. The first-day agenda (Virtual Students Research Presentation) was for Students in the region and the other two days for CCs/ACCs (GLOBE Community meeting) were open to any member of the GLOBE community, therefore attracting teachers, students, trainers, scientists, and other members. Altogether, 56 individuals registered for the event. The participation at the sessions was changing as not everyone could or wanted to follow the meeting for the full agenda. The maximum number of users connected at a session was around 48.

The event was organized by Asia and Pacific Region Coordination Office in cooperation with the GLOBE Program & GLOBE Thailand, The Institute for the promotion of teaching science and technology (IPST).

GLOBE Asia - Pacific regional Coordination office in association with GLOBE Thailand, The Institute for the promotion of teaching science and technology (IPST) organized **Virtual Annual Regional Meeting for Asia & Pacific Community** during **24 - 26 January 2022**, sponsored by GLOBE Implementation office which brought together **12 GLOBE Country Coordinators**, Director & Assist. Director from GLOBE Implementation Office, Coordinator of Asia - Pacific Regional Coordination Office, GLOBE Web Managers from SSAI, GLOBE Working Group Members, Assistant Country Coordinator & GLOBE Trainers from the region. The Theme for this year's annual regional meeting was **"We Learn we Do with GLOBE"**.

The meeting was held in two parts:

- 2022 GLOBE Asia - Pacific Virtual Students Research Presentation

The Virtual Students Research Presentation was attended by **280 participants who joined the session through the Zoom VDO Conference link, 68 watched live on Facebook Streaming, and 9,000 views post-screening on 24th January'22**

- Country Coordinators (CCs) Meeting

Following activities were planned and accomplished before & during the Regional Meeting :

GLOBE Regional Coordination Office for Asia - Pacific organized the **"GLOBE Annual Regional Meeting of Country coordinators"** which was supported by the GLOBE Implementation Office, GIO Wherein we have 48 Participants from 12 Asia - Pacific Countries.

The technical part was prepared and facilitated by RCO and included:

- Online registration and participant approval process
- Creating the event website: <http://www.globeasiapacific.org/2022APRM/>

- Instructions for participants on how to use zoom application
- Call for student videos and call for presentations
- Rehearsals with speakers/speaker teams
- Post-production of the video submissions for selected videos
- Setting up interactive online tools for sessions such as Padlet board, or collecting questions in Google docs
- Technical support during the meeting
- The role of moderator and facilitator of Q&A
- Making recordings and notes of the sessions
- Compiling a video summary (Highlights) of the meeting for the Closing session
- Uploading the materials and videos to cloud storage/stream after the meeting

Recordings: <https://youtube.com/playlist?list=PLjWi1BxKtv8aMMDS1wJCDo8bna3SLKjca>

The highlight of the Meeting video: <https://youtu.be/dotxBYcPwhA>

Presentations: available at the [Documents section of the Asia and Pacific Region](#) page at globe.gov.

Day 1: 24th January - Monday – Asia & Pacific Virtual Students Research Presentation

Opening

Welcome by organizers.

The GLOBE Asia – Pacific Virtual Students research Presentation was hosted online for the students in the region. Mr. Alongkot Maiduang of IPST moderated the session. The session started with Introduction and Welcome Remarks by Prof.Dr. Sukit Limpijumnong, President of IPST and Country Coordinator, GLOBE Thailand in which he said “ *GLOBE Program is an international collaborative program that provides students, teachers, scientists & Communities to explore the environment through their scientific processes in order to create a society of collaborative learning and understand the natural environment system leading to the sustainable development of environment at a local, regional & global level*”. Following Dr. Sukit Limpijumnong’s remarks, **Dr. Desh Bandhu**, Coordinator, GLOBE Regional Coordination Office for Asia-Pacific addressed the participants, in which he thanked the Country Coordinator – GLOBE Thailand & IPST for organizing the Virtual Students Research Presentation & Regional Meeting, and welcome all the participants. He also congratulated & thanks students for participating in the event. After Dr. Desh addressed Mr. Alongkot Maiduang ask **Dr. Tony P. Murphy**, Director, GLOBE Implementation Office, USA to gave his address in which he said “*it’s wonderful to start the meeting off with student presentation because they are the reason we are all doing this is really to encourage students to become interested in STEM and even in not those areas it’s self then they have a scientific understanding of the processes that govern the planet and that we also need to recognize the impact of Human society*”. Dr. Tony Concuratluate Asia – Pacific RCO & GLOBE Thailand for organizing a wonderful Virtual Students Research Presentation.

Dr. Khunying Kalaya Sophonpanich, Deputy Minister of Education gave an opening speech to open the 2022 GLOBE Asia - pacific Virtual Regional Meeting. in her statement Dr.Khunying Kalaya said that the "GLOBE Program encourages Youth, scientists, educators and citizens around the world to work together to achieve the United Nations Sustainable Development Goals (SDGs) by encouraging young people to learn about environmental science through GLOBE Activities."

The Opening Session marks the beginning of the 2022 Virtual Students research Presentation & Regional Meeting.

The session was organized in the two parts first session on plenary talk by Scientists, and a second session on Virtual Students Research Presentation for students in the AP Region.

Dr. Saran Poshyachinda, Executive Director, of the National Astronomical Research Institute of Thailand gave a plenary talk on "*Space Science and Technology for All*" in which he explained to the participants the overview of the development of past and present in space science and technology and space science and technology activities in Thailand.

Assoc. Prof. Dr.Krisanadej Jaroensutasinee of Walailak University, Thailand gave his plenary talk on "*Sensor and Smart Farming Implementation for Student Project*" in which he explain to the participants the scope of IVSS using practical application and implementation of IoT and sensors in GLOBE students Projects. He also explains to the participants about the GLOBE agriculture Bundle in relation to GLOBE API.

The second session was organized in the format of a virtual science symposium, combined with student research presentations and student video submissions. The Virtual Students Research Presentation session was on collaboration around the topic of GLOBE Protocol and Campaign promoted in the region during the pandemic and what students have learned new while doing GLOBE Virtually with presentations by students.

10 Students team from, **India**, the **Philippines**, **Nepal**, **Republic of Korea**, **Taiwan**, & **Thailand** participated in the Virtual Students Research Presentation. During the Virtual SRP **280 participants** joined the session through the Zoom VDO Conference link, **68 watched live on FaceBook** Streaming. And **9,000 views** post-screening.

Presentation submissions from GLOBE schools that focus on various GLOBE protocol observations:

- **The Effect of Different Soil Characteristics between Burned Soil and Plowed Soil on Growth of Rice** - Winfield High School, Khammam, Telangana- India
- **Mosquito Larva Studies** - Amity Public School, Nepal.
- **Impact of Chemical waste on the environment**, Pushpanjali Secondary School, Nepal.
- **Assessing the Correlation of the Air Pollution and Meteorological Conditions of San Mateo in a COVID-19 Setting**, Batasan Hills National High School, Philippines.
- **Finding Microplastics In Campus**, New Taipei Municipal Hsin Tien Senior High School, Taiwan.

- **Microplastics Monitoring in two main rivers of central Taiwan**, Feng Yuan Senior High School, Taiwan.
- **The Study of How the Amount of Clouds in the Sky Affects the Difference of Temperatures during Daytime and Nighttime**, Varee Chiangmai School, Chiang Mai Province, Thailand.
- **The study of physical factors of dung beetles for the development of an automated artificial nest system**, Sawang Daendin School, Sakon Nakhon Province, Thailand.
- **Technique to increase the yield of Pan Phichit lime (Citrus aurantifolia Swingle) by applying soil properties data together with an automation system**, Donchanwittayakom School, Kalasin Province, Thailand.
- **3-year-Navigating Environmental Indices around Jungil High School**, Daejeon, South Korea, Jungil High School, Republic of Korea.

After the presentations, there was a discussion and Q&A Session and a discussion on creating opportunities for Student exchange & international collaboration. The conclusion was that AP RCO will follow & promote more Students' research Presentations, exchange Programs & Campaigns in the region to motivate schools to focus on GLOBE protocol-related projects and to make a connection to other schools in the region. The conclusion was that RCO will follow & promote more SRP, exchange & campaign programs in the region to motivate schools to focus on GLOBE Basic protocol-related projects and to make a connection to another school in the region.

Day 2: 25th January - Tuesday – Country Coordinator Meeting

“We Learn we Do with GLOBE”

The Country Coordinator meeting started by welcome address by Prof. Dr. Sukit Limpijumng, President of IPST and Country Coordinator, GLOBE Thailand in which he welcomes all the country coordinators and participants to the 2022 AP RM and said that IPST is an honor to co-host with AP RCO for this meeting and with attendance of all the CCs we will be able to develop ideas and exchange program to implement the GLOBE Program in our Region. After Prof. Dr. Sukit Limpijumng Comments, Dr. Tony Murphy, Director, GIO give the participants an update on the GLOBE Program, in which he introduces GLOBE -Bhutan a new member country in Asia - the Pacific Region, He also share the detail of the upcoming IVSS submission & drawing deadline & celebration of Earth Day which is also the Birth Day of The GLOBE Program. After that Dr. Desh Bandhu, RCO gave his presentation on the activities carried out / webinar organized since the last regional Meeting and how it has benefitted the regional Community followed by Q&A from participants.

Presentation by GLOBE Country Coordinators

The theme of this Year Asia and Pacific Regional Meeting was **“We learn we do with GLOBE”** to showcase best practices & exchange of the experience with digital learning, distant learning, online cooperative learning approaches, and other lessons learned from the partial or full close down of the schools due to the pandemic that we are still learning about the Earth through GLOBE. Discussion

based on the examples of GLOBE good practice that CCs shared during the presentation. CCs reacted to each other's presentation - finding similarities, asking questions, adding their own ideas and experience. RCO will follow up on selected examples of good practice: We will ask CCs to prepare a Star article about their events/achievements, we plan to focus more on the topic that more countries had in common (Air Quality, Hydrosphere, Mosquitoes & Microplastic). Country Coordinators also discussed creating opportunities for Student exchange & international collaboration.

Participants

Representatives of the following Asia and Pacific countries attended the CC Meeting:

Australia, India - GLOBE Trainers & Master Trainer, Bhutan, Japan, Maldives, Nepal, Palau, Philippines, Republic of Korea, Sri Lanka, Taiwan, Thailand, Vietnam.

Day 3: 26th January - Wednesday – Country Coordinator Meeting

GLOBE Working Group

A discussion was organized with the new GLOBE working group members in the region to help the regional community on how to disseminate information to the Region about the working group and what is best suited to the community and how the community can benefit from that be more engaging. This was the first time they have participated in an event in the region as all 3 out of 5 members are appointed in January 2022. Discussion followed.

What is new at the GLOBE website

New development of the GLOBE website such as a new Data Entry system on Observer App, Data Visualizations, and use of GLOBE website as an educator was presented and explained by Mr. David Overoye & Cornell Lewis from Science Systems and Applications, Inc. Q&A followed.

Proposed Plans for promoting the GLOBE program in 2022 (Jan'22 – Dec'22)

The focus of this topic was to develop some GLOBE activities incl. Training, students' expedition, & Campaign which we will be focusing on during 2022. The Regional Campaigns, Expedition, Students Research & Exchange program in the region links students, teachers, and the scientific research community in an effort to learn more about the environment through student data collection and observation. Asia and Pacific's region are very actively promoting these activities because it has benefited the regional Community significantly and has helped the student in our region learn, research & to adapt to the new ecosystem which strengthens and expands their knowledge and skills on STEM education as well as on the cultural side. Followed by Q&A from participants.

After the presentations, there was a discussion on the opportunities for conducting virtual expeditions if the pandemic still continues and to continue the Campaign which was done in the previous year such as Mosquito Campaign, GLOBE Asia - Pacific Air Quality Campaign, Waterbodies

Collaboration Including Awareness of Microplastic in Water Bodies, Tree Around Us & Soil Campaign. The conclusion was that RCO will follow the topic together with CCs and motivate schools to focus on these Campaigns & related projects to increase school participation and collaboration among schools. RCO also proposed to hold GLOBE Asia – Pacific Science festival – 2022 in person if the Pandemic situation improves if not then virtual. AP RCO also shares the Plan of Capacity building training with the CCs and welcomes their inputs and remarks.

Discussion on GLOBE Strategic Plan (2018 – 2023)

Dr. Tony Murphy, Director, GIO also had a discussion with CCs in the Region about the status of the GLOBE Strategy Plan (2018- 2023) and how the program responded during the COVID -19 Pandemic. The implementation of the GLOBE Strategic Plan during the COVID -19 Pandemic was discussed and how RCO created the specific webpage for learning & Doing GLOBE as well as organizing webinars to keep the community engage and be productive to accomplish our Strategic Goals. It was also emphasized by RCO & GIO that taking part in the GLOBE survey (CC, Teachers & Community) is important as it shows us how close we are to achieving our Strategic Goal.

Closing of the Regional Meeting

AP RCO wrapped up the 3 days of the meeting and showed an overview of the audience – 46 participants from 12 countries.

A short 5 min long video of the event best moments was shown at the end:

<https://youtu.be/dotxBYcPwhA>