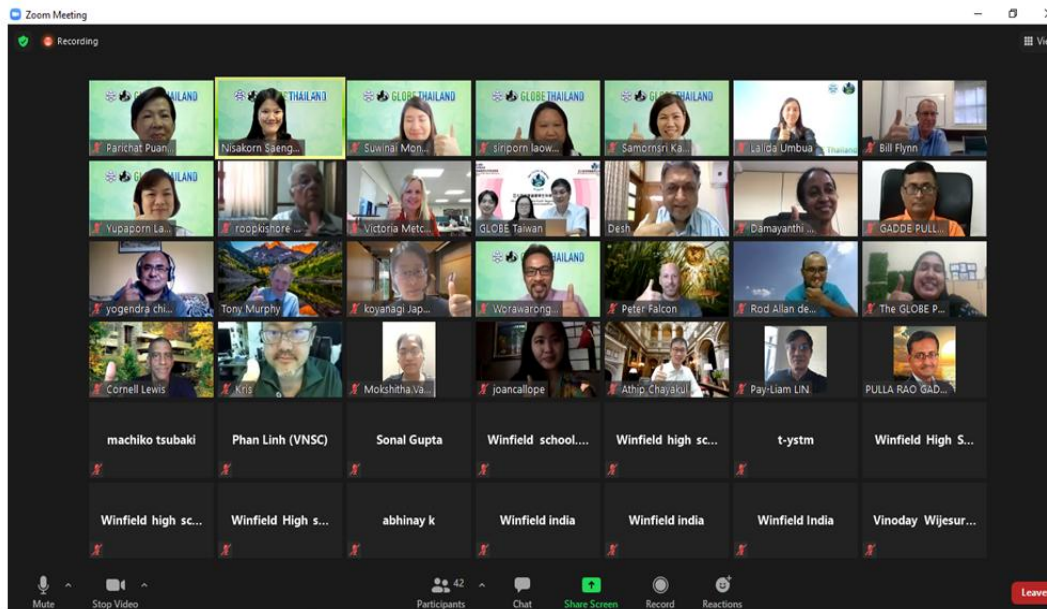




GLOBE Program Regional Meeting Asia and Pacific

Virtual Meeting through Zoom, May 2 - 4, 2021

Theme: Challenges & Achievements of “Doing GLOBE Virtually”



Submitted By
GLOBE Asia-Pacific Regional Coordination Office

Submitted To
GLOBE Implementation Office-USA



GLOBE Asia – Pacific Regional Meeting of Country Coordinators

Initially, the Regional Meeting was planned to take place in Taiwan, however, due to the pandemic situation it was shifted to online settings. RCO organized an online Zoom event that stretched over 3 days. The first day agenda (Regional GLE) 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, scientist and other members. Altogether, 60 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 49.

The event was organized by Asia and Pacific Region Coordination Office in cooperation with the GLOBE Program & GLOBE Partner - Taiwan.

The GLOBE Virtual Regional Meeting of Country Coordinators, during 02-04 May 2021, which brought together 14 GLOBE Country Coordinators, Dr. Tony .P. Murphy, Director - GIO, Dr. Desh Bandhu, Coordinator- RCO, Dr. Ying-Hwa Kuo, Director of UCAR Community Programs Assistant, Dr. Chih-Peng Chu, Director General, Department of International Cooperation & Science Education, Ministry of Science and Technology, Ms. Rhiannon Bramer, Environment, Science, Technology and Health officer, American Institute in Taiwan, Assistant Country Coordinator, Scientists, GLOBE Trainer's & Students from Asia & Pacific Region to discuss GLOBE achievements in schools & students activities science the last Regional Meeting & *Challenges & Achievements of "Doing GLOBE Virtually" and* ways to strengthen the GLOBE Program in Asia – Pacific region and further prepare GLOBE students for more active participation on different GLOBE activities.

The meeting was held in two parts:

- Asia & Pacific Regional GLE
- Country Coordinators (CCs) Meeting

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

GLOBE Regional Coordination Office for Asia – Pacific organize “*GLOBE Annual Regional Meeting of Country coordinators*” which was supported by GLOBE Implementation Office, GIO Wherein we have to 59 Participants from 13 Asia – Pacific Countries.

Technical part was prepared and facilitated by RCO and included:

- Online registration and participant approval process
- Creating the event website: <http://globeasiapacific.org/2021APRM/index.html#>
- Instructions for participants on how to use zoom application
- Call for student videos and call for presentations

- Rehearsals with 20 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=PLjWi1BxKtv8YAm91FNsFewckrrUG3A2uU>

The Best Moments video: <https://youtu.be/L6uiEywHvlM>

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

Day 1: 02nd May - Sunday – Asia & Pacific Regional GLE

Opening

Welcome by organizers.

The GLOBE Asia - Pacific Regional GLE was hosted both online for the students in the region & offline for Students in Taiwan. **Dr. Pay Liam Lin**, Country Coordinator, **GLOBE Partner – Taiwan** moderated the session. The session started with online keynote speech by **Dr. Ying-Hwa (Bill*) Kuo**, **Director** of UCAR Community Programs on the topic **Taiwan-US Cooperation in COSMIC-3 & FORMOSAT-7 (TBC)**. The Presentation was very interesting and students enjoyed the topic a lot.

After Dr. Bill Kuo, presentation Dr. Pay Liam then ask **Dr. Chih-Peng Chu**, Director General Department of International Cooperation & Science Education, Ministry of Science and Technology to address the participants, during Dr. Chu address he encourage the students to continue their research under GLOBE and appreciate the students efforts to engage in hands-on activities during pandemic. After that **Ms. Rhiannon Bramer**, Environment, Science, Technology and Health officer, American Institute in Taiwan address the participants both off-line & online and inform them about the support of AIT for the GLOBE program in Taiwan. After that Dr. Pay Liam request **Dr. Desh Bandhu**, Coordinator, GLOBE Regional Coordination Office for Asia-Pacific to address the participants, Dr. Bandhu thank the Country Coordinator - GLOBE Partner Taiwan & MOST for organizing the Regional GLE and congratulate them for holding the onsite (offline) GLE for the GLOBE students in Taiwan and congratulate & thanks students for participating in the event. After Dr. Desh address Dr. Pay Liam ask **Dr. Tony P. Murphy**, Director , GLOBE Implementation Office, USA to give his address Dr. Tony said that after “*seeing all the students in a hall to engage in GLOBE activities & sharing their research that they have conducted during these difficult time it lift his heart and make him hopeful for the future GLOBE Activities in the region*”. Dr. Tony Congratulate Asia - Pacific RCO & GLOBE Taiwan for organizing a wonderful regional GLE.

The session was organized in the format of virtual science symposium, combined of student research presentations and student video submissions. The Regional GLE session was on collaboration around the topic of GLOBE Protocol used during the pandemic and what students have learned new while doing GLOBE Virtually with presentations by students.

10 Students team from, **India, Philippines, Sri Lanka, Taiwan, Thailand & Vietnam** participated in the online Regional GLE & approx **150 students** on the **offline setting** (onsite - in Taiwan). During the Regional GLE **548 participants** joined the session through the webex meeting link.

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

- **Relationship between weather and air quality** - Winfield High School, Telangana- India
- **Improper land management - Impact on environmental resources in Khammam city - India**, Winfield High School, Telangana- India
- **Larvicidal activity of banana peel extract to mosquito larvae**, Winfield High School, Telangana- India.
- **Utilizing whorled pennywort (hydrocotyle verticillata thunb) to accumulate the dirty particles on Batasan Hills - San Mateo River** - Batasan Hills National High School, Philippines
- **Assessing the influence of urban heat to chemical pollutants in the air in Q.C.** - Batasan Hills National High School, Philippines
- **pH value and electrical conductivity of soils in wetlands of Colombo-Sri Lanka** - Thurstan College Colombo, Sri Lanka.
- **Discussing the Relationship Between in-vehicle Circulation and Carbon Dioxide Concentration** - New Taipei Municipal Dan Feng High School, Taiwan
- **Soil pH observation at the campus** - New Taipei Municipal Hsin Tien Senior High School, Taiwan
- **Trees measurement, exploring the connection between sunshine and foliage varies** - National Kinmen Senior High School, Taiwan
- **The study of the physical characteristics of the area and the PM 2.5 concentrations in Chiang Mai Province** - Dara Academy, Thailand
- **Study of Using Physical Factors to Decrease Pest Activities of Rice Field Crab, Somaniathelpusa Germaini, in the Paddy Field Ecosystem** - Bangkok Christian College, Thailand
- **Study of environmental factors affecting the sprouting of local vegetables. For application** - Donchanwittayakhom school, Thailand
- **Thuc Nghiem Secondary's GLOBE club's activities** - Vietnam

After the presentations, there was a discussion and Q&A Session and discussion on opportunities for Student exchange & international collaboration. The conclusion was that RCO will follow & Promote more GLE, exchange & Campaign Program in the region to motivate schools to focus on GLOBE Basic protocol related project and to make a connection to another schools in the region.

Day 2: 03rd May - Monday – Country Coordinator Meeting

Challenges & Achievements of “Doing GLOBE Virtually”

The Country Coordinator meeting started by GLOBE Program updates - presentation by Tony Murphy, GIO and an Introduction to Ms. Denise “Skye” Yost, Assistant Director, GIO and presentation by Dr. Desh Bandhu, RCO on the activities carried out / webinar organized in since the pandemic started and how it has benefitted the regional Community and Q&A from participants.

What is new at GLOBE website

New development of the Data Entry, Visualizations and GLOBE website and apps upgrade was presented by Mr. Cornell Lewis, SSAI. Q&A followed.

Presentation by GLOBE Country Coordinators

The theme of this Year Asia and Pacific Regional Meeting is Challenges & Achievements of “doing GLOBE virtually” 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. Discussion based on the examples of GLOBE good practice that CCs shared during the presentation. CCs reacted on 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).

Participants

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

Australia, India - GLOBE Master Trainer, Trainers & Teachers, Japan, Maldives, Micronesia, Nepal, New Zealand, Palau, Philippines, Sri Lanka, Taiwan, Thailand, Vietnam,

Day 3: 04th May - Tuesday – Country Coordinator Meeting

GLOBE Working Group

A discussion was organized with the GLOBE working Group Member in the region to help the regional community on how to disseminate information to the Region about the working group and what best suited to the community and how the community can benefit from that be more engaging. Q&A followed.

GLOBE Student Exchange and GLOBE Regional Campaigns

The focus of this topic was to develop a spirit of scientific learning, adventure and discovery by organizing Regional Campaigns, Expedition, and Students Research & Exchange program in the Region. Asia and Pacific region is very actively promote these activities because it has benefited the regional Community significantly and has helped the student in our region learn, research & to adapt and 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 international campaign on Air Quality. The conclusion was that RCO will follow the topic together with CCs and motivate schools to focus on Air Quality Campaign & related project to increase school participation and collaboration among schools.

Discussion on GLOBE Strategy Plan

RCO also had a discussion with CCs in the Region about the status of GLOBE Strategy Plan (2018-2023) and how far we are in our goals for 2022. The implementation of GLOBE Strategic Plan was also discussed in light of the Current COVID -19 Pandemic and how to reach our Strategic Goals.

Closing of the Regional Meeting

RCO wrapped up the 3 days of the meeting and showed overview of the audience - 60 participants from 13 countries.

A short 4 min long video of the event best moments was shown at the end:

<https://youtu.be/L6uiEywHvIM>