

03 May 2021



The GLOBE Program in Asia – Pacific Region

Highlight & achievements of doing GLOBE Virtually in 2020

Dr. Desh Bandhu, Ph.D Coordinator, GLOBE Asia – Pacific Regional Coordination Office

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Summary of Programs in the Region

- Due to the COVID 19 Pandemic all the face to face GLOBE activities were cancelled due to country wise lockdown & social distancing, and as a precaution for the community GLOBE Program also suspended all face to face meeting or data collection, as a result of this all the activities in the region was done virtually to keep the community engaged and to continue promoting the GLOBE Program in the region.
- Since May 2020 to March 2021 AP RCO has organized 18 Webinars for GLOBE community in the Region.
- Some of the Regional highlight is mention in this presentation.









Webinar to increase regional engagement in **GLOBE** Program





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Webinar on The GLOBE Program - New Trainer / Mentor Trainer Certification Process

- Asia-Pacific regional Office host webinar on **11th May 2020** for Country Coordinators and trainers in the region to explain to them the new GLOBE Certification Progress,
- Dr. Rod Allan De Lara, GLOBE Country Coordinator- Philippines & Member GLOBE Working Group explains why the new Trainer / Mentor Certification Process, he gave insight about the lack of community input and communication about the earlier process & The community not being aware of previous process (including qualifications and rubrics).
- Dr. De Lara explains the goals of new Trainer and Mentor Trainer Process. To Refine the process to be more streamlined, flexible, transparent, and accessible Guarantee the quality of Trainers throughout the GLOBE community.
- He also explain that by setting up the Mentor Trainer Certification procedure GLOBE Program will be able to Define Mentor Trainers as a resource to aid and advance the community of GLOBE trainers and can create a system for Mentor Trainers to communicate with each other to ensure the quality of mentorship throughout the GLOBE community.









Dr. Rod Allan De Lara, CC- GLOBE Philippines & Member GLOBE Education Working Group explaining to the participants the New Trainer / Mentor Trainer Certification Process

21 participants joined the webinar.





Webinar on review of The Role of GLOBE Teachers

- AP RCO hosts webinar on 22nd May 2020 for Country Coordinators, trainers & Teachers in the region to review the Role of GLOBE Teachers and how they can help their students engaged in the GLOBE Program during the ongoing COVID 19 pandemic.
- During the webinar and we shares how we can encourage teachers to do GLOBE by putting emphasis on the benefit & advantage of becoming a GLOBE Teacher.
- By training them to use GLOBE website its data base and other feature including GLOBE Observer App.
- By teaching them how to access and use GLOBE's Teaching & learning material and other resources. And also by training them by how to access and use GLOBE data for research purposes.







Ms. Joan. B. Callope presenting the role of GLOBE Teachers during the COVID – 19 Pandemic

24 participants from 9 countries joined the webinar





Webinar on June 02, 2020

- Asia Pacific Regional Coordination Office organized a webinar on **2nd June 2020** for all the Countries in the region along with trainers and teachers during which two topics were discussed.
- 1. GLOBE Mosquito Habitat Mapper (ZIKA Project) presented by Dorian Janney from NASA. Ms. Janney explains the habitat mapper app in great detail along with Mission Mosquito Campaign and measurement campaign. Ms. Janney encourage students IVSS reports on Mosquito and encourage them to participate more and & collecting data to help communities from threats of mosquito borne diseases.
- 2. Social Media Tips & Tricks for GLOBE Countries in the Region presented by Ms Autumn Burdick from SSAI Inc. She share Tips and Tricks to promote The GLOBE Program through Social Media in the region. The presentation was very informative and CCs learn a few new and interesting things.





Mission Mosquito

Chose your protocol

Mosquito Habitat Mapper

Four Steps (You do not have to do them all!)

- Identify potential mosquito breeding habitats (pictures)
- Sample how many eggs, larvae, pupae, and/or adults
- Use cell phone magnifier/microscope to identify larvae genus
- Eliminate water if you can

Ms. Dorian Janney from NASA explain to the participants the GLOBE Mosquito Habitat Mapper (ZIKA Project) & the Mission Mosquito Campaign.

Get to Know the GLOBE Social Team

Ms Autumn Burdick from SSAI Inc. shares Tips and Tricks to promote The GLOBE Program through Social Media in the region to the attendees





Kristen Weaver

NASA GO



Amy Barfield

- GLOBE and GLOBE Instagram







Holli Kohl

- NASA GO



āssia Owen 🛛 Brian Campbell NASA GO - NASA GO





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Webinar on Students IVSS Project Presentation

• The GLOBE Asia - Pacific Regional Coordination Office hosts a webinar on *June 16th 2020* for 3 winner schools in the region who were the winner of 2020 GLOBE IVSS Projects on "GLOBE 2020 IVSS Projects Presentation".

Here's the school wise presentation topics:-

1. Swmsenwittayalai School, Bangkok, Thailand - Winner GLOBE IVSS Project Students from Swmsenwittayalai School, Bangkok, Thailand explain their project on Mosquito breeding using Drone imagery and GLOBE Observer, Habitat Mapper App.

2. Philippine Science High School, Western Visayas Campus, Philippines - Winner IVSS DOS Zika Project

Students From Philippine Science High School, Western Visayas Campus, Philippines, and winner of GLOBE Department of States ZIKA Project IVSS present their project on Mosquito breeding site characterization – density, water Quality, Natural Attractants of Barangays Igang Pototan Philippines.







3. Princess Chulabhorn Science High School, Trang, Thailand - Winner IVSS DOS Zika Project

Students from Princess Chulabhorn Science High School, Trang, Thailand wins the GLOBE Department of State ZIKA Project grant in the Region for their project on Mosquito Larvae Diversity & Abundance Relation to Land Cover in Coastal Area in Trang Province, Thailand.

Students from Swmsenwittayalai School, Bangkok, Thailand presenting their Research paper during the IVSS Webinar









Students from PSHS, Western Visayas Campus, Philippines presenting their Research paper during the IVSS Webinar



Students from Princess Chulabhorn Science High School, Trang, Thailand presenting their Research paper during the IVSS Webinar









Webinar on status of women empowerment through GLOBE Program

- Asia-Pacific regional Office hosts webinars on *30th June 2020* for Country Coordinators, Trainers & Teachers in the region to share with them the status of women empowerment through GLOBE Program.
- During the webinar GLOBE Partner Taiwan shares with other countries in the region about status of women empowerment through GLOBE Program in their country.
- GLOBE Taiwan share that have 5 girls GLOBE school in the country. Out of that 5, Hao Hisiung Girl's Senior High School 2019 submitted two 4 star GLOBE Project in 2019 & 1 four star GLOBE Project in 2020.
- Tzu-Ying Yang Student of Taichung Girls high School submitted a GLOBE STEM story in 2017 in GLOBE community and also participated on 2017 GLOBE Annual Meeting.









CLOBE Prop

• There are 5 girls schools in total. Taichung Girls' Senior High School

2018 GLOBE International Virtual Science Symposium

The Effect of Indoor and Outdoor Humidity on PM2.5



Tzu-Ying Yang - STEM Stories: GLOBE Taiwan

Jun 15, 2017

Too in ity tang was first introduced to The Sci200 Program as a 10th given student as the functional fairburg starts tomor high school in Saching Czig, Towart, site can still remember the day when the towner this introduced first to SCI000, and relating weather observation.

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Webinar on GLOBE Thailand Activities during COVID-19 Pandemic

- Asia-Pacific regional Office host webinar on **24th July 2020** for regional community to share GLOBE Thailand activities to engage their community in GLOBE activities during the COVID -19 Pandemic.
- Dr. Nisakorn Saengprachum share two main GLOBE activities that they have undertaken during the pandemic to engage their community to promote students, teachers, and general public to participate in data collection and the scientific process at home during covid-19 pandemic .
- 1. Student Research Competition
 - GLOBE SRC Research
 - Thailand Junior Water Prize research
- 2. GLOBE Campaigns
 - GLOBE live in the time of COVID-19
 - Data entry (cloud observation)









Dr. Nisakorn Saengprachum showing the regional community the new normal for Competition





Webinar on GLOBE Students Research and Exchange Program in AP Region

- Asia-Pacific regional coordination office host webinar on August 12th 2020 for the regional community to share the experiences of Past Expedition, Students Research & Exchange Program, and also to share about the proposed programs for upcoming year.
- Expeditions, Students Research & Exchange programs 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.
- It also engaging students with exciting material and experiences from meeting different students from our region.
- AP RCO also share information about the GLOBE Regional Campaign
 The aim of these regional campaign is to encourage participation of School for data collection of identified water bodies, Soil Sites & Mosquito Breeding Sites.









Dr. Desh Bandhu presenting the regional community the new objective of the expedition, student research, Campaign & Exchange program

24 participants joined the webinar.





Webinar by 27th August 2020

- Asia-Pacific regional Office host webinar on 27th August 2020 for CCs in the region to share The **Progress made by GLOBE Australia** after rejoining the GLOBE Community.
- GLOBE Country Coordinator Australia Mr. Bill Flynn presented the progress made since rejoining in July 2020.
- During the Presentation Mr. Flynn shares the process to keep in touch with the teachers & how GLOBE Australia disseminate information about GLOBE activities in the Country.
- Mr. Flynn also share the Priorities of GLOBE Australasia for 2020 2021 under the GLOBE Program.









Mr. Flynn Showing the Audience of the webinar is plan to engage Teachers to The GLOBE Program In Australia









Webinar on Lake Pokhara Expedition

- Asia-Pacific regional Office hosts a webinar on 11th September 2020 for Country Coordinators and Trainers in the region to share the experiences of the Lake Pokhara Expedition which was presented by Mr. Yogendra Chitrakar – Country Coordinator Nepal, and also to share about the proposed programs for 2021.
- During the Presentation Mr. Chitrakar share the details about the past expedition which the Asia Pacific Regional Coordination Office is Organizing since 2015.
- During the webinar Participants also discuss about the next possible date for the expedition seeing the current Pandemic Situation & how to create more opportunities for the Students in the region for expedition & Exchange Program



GLOBE Lake Pokhara Expedition

YEAR	Particip ants	Countries
2015		Srilanka, India, Nepal
2017	38	Thailand, Oman, India, Nepal
2018	44	Taiwan,India, Oman, Thailand, Nepal





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Webinar on GLOBE Hydrology Protocol in relation to Wetlands

- Asia-Pacific regional coordination office host webinar on **October 02nd 2020** for the regional community to to share information about Inter & Intra Regional collaboration on Water bodies which was presented by Dr. R.K. Garg, Master Trainer - India, and also to share about the proposed programs for 2021 and related activities.
- Dr. Garg shares with the participants the importance of wetland and role of GLOBE Hydrology Protocol for getting to know your local wetland.
- He also give ideas to the students on preparing their future research report with GLOBE Hydrology data.
- To engage students with GLOBE Hydrology Protocol AP RCO announce for students research Presentation on water Bodies under the regional Campaign.









Virtual group photograph of Participants of Webinar on 02nd October 2022

Dr. R.K.Garg, GLOBE Master Trainer sharing with the Participant the importance of wetlands & GLOBE Hydrology Protocol.



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Webinar on Construction of Instrument Shelter Workshop

- Asia-Pacific regional Office host webinar on *16th October 2020* for Country Coordinators, Trainers and GLOBE Teacher's in the region to train them on how to Create GLOBE Instrument Shelter from waste wood laying in the School Premises.
- GLOBE Partner Taiwan share their experience that due to Humid and severe weather in Taiwan make GLOBE instruments broken frequently so, they need to find out the solution & to collect data.
- To help teachers to implement GLOBE more successfully they organize a 2 day workshop on construction of instrument shelter from old chairs, desk, and wood at schools to use it for a recycled Instrument Shelter for Atmosphere protocol and also to encourage & engage in knowledge sharing form other countries in the region.







Student showcasing the final constructed Instrument Shelter for GLOBE Atmosphere Protocol



Virtual group photograph of Participants of Webinar on 16th October on Construction of Instrument Shelter Workshop







Webinar on "Trees Around the GLOBE: Students research Campaign "

- The GLOBE Asia Pacific Regional coordination Office host webinar on October 30th 2020 on "Trees around the GLOBE: Students research Campaign " that is presented by Brian Campbell (NASA)
- The webinar was for teachers and students from various GLOBE schools in the Region.
- During the webinar Mr. Campbell talk in detail about the Tree height with the trees around the GLOBE Student research Campaign: Observing Tree Height & comparing GLOBE and space based tree data.
- 89 Students & Teachers participated in the webinar from AP Region.





Webinar on GLOBE Mosquito Awareness Campaign

- The GLOBE Asia Pacific Regional coordination Office hosts a webinar on **November 18th 2020.** Ms. Mindi DePaola, Program Specialist at GIO was the Presenter for the webinar for teachers and students from various GLOBE schools in the Region.
- The webinar for trainer, teachers and students from various GLOBE schools in the Region..
- During the webinar Ms. DePaola talk in detail about the mosquito protocol and GLOBE zika education and prevention project. Ms. DePaola also shares with Students & Teachers resources on GLOBE website for students to use to strengthen their Research Projects.
- 78 Students, Teachers & community member along with Country Coordinators participated in the webinar from AP Region.

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The GLOBE Program



- Mosquitoes are common insects that live various environments around the world, particularly in warm, tropic, and sub-tropic regions
- As temperatures increase in many areas the world, presence of disease-carryin mosquitoes should be closely monitored to prevent future outbreaks of Zika and other vector-borne diseases
- Over 40 genera and 3,500 known species of mosquitoes
- Three of these genera, Anopheles, Aedes, and Culex, have species that transmit diseases
- These diseases include malaria, dengue fever, West Nile virus, and Zika

Ms. Mindi DePaola sharing with the Participant the importance of Studying Mosquitoes.





Webinar on Soil Awareness

- GLOBE Asia Pacific Regional coordination Office host webinar on *December 3rd 2020*, for teachers and students from various GLOBE schools in the Region, on the occasion of World Soil Day.
- Dr. R.k. Garg, GLOBE Master Trainer share his views on why to study soil and some ideas on IVSS projects based on GLOBE Soil Protocol.
- Ms. Nisakorn Saengprachum from GLOBE Thailand shares her view on GLOBE Soil Campaign and what GLOBE Thailand has been doing under this campaign.





Zoom Meeting Recording Webinar on December 3, 2020. Topic: SOIL AWARENESS AND IVSS PROJECTS 🔏 Rod Allan de Lara Dr. R.K. GARG Desh, RCO Regional. slaow@ipst.ac.th 🚺 🔊 Lalida Umbua GLOBE Taiwa Yupaporn Lapla Babie Noreen 🔏 Gayatri Nay 🔏 I am Nihanth Iam... GADDE PULLA R B GLOBE THAILAND -H-🚪 yogendra chitrak.. 🔏 kalpana prusty Suwinai Mongko Henna Kausher Samornsri Kanph. Peter Falcon **NEN** G P. Divya Winfield Office Giridhari Panda 🗶 Dr. Sonal Gupta 🔏 Pay-Liam LIN padmaja pati Joan Callope challapallisathw... 🗶 Victoria Metc

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Virtual group photograph of Participants of Webinar on 03rd December 2020 on Soil Awareness & IVSS Projects.





Webinar on GLOBE in Philippines and Students IVSS Projects

- The GLOBE Asia Pacific Regional coordination Office host webinar on *December* **17**, **2020**, for teachers and students from various GLOBE schools in the Region to give them more insight about the upcoming GLOBE IVSS & AP region Students research Project.
- Dr. Rod Allan De Lara, GLOBE Country Coordinator share ideas, experiences and initiatives of the GLOBE Program –Philippines during the Covid-19 Pandemic.
- He gave insight about the GLOBE EduShare Program which is the moodle® based online learning management system & is open for GLOBE Teachers & students in the Community. The goal of this learning system ins to serve as online learning platform for GLOBE Protocols & Convert GLOBE Protocols into Modules or Modular Form for easy integration to School Curricula.
- Dr. Rod also Shares about the GLOBE Philippines participation in Tree Challenge 2021: Planting, Monitoring and Mapping Tree. He shares that instead of just measuring the tree, GLOBE Philippines is planning to plant 5 million trees by 2025 and will be monitoring the Growth, height & cover and will be mapping the trees by GLOBE observer & database







Objective of Presentation

• To share ideas, experiences and initiatives of the GLOBE Program (Philippines) during the Covid-19 Pandemic

"Like the Coronavirus, Ideas are Contagious... The Good Ones Spread..."

> Dr. Rod Allan Sharing to the participants the Objective of the webinar on 17th December 2020



2025 goal ONE MILLION TREES

GLOBE Program Philippines in partnership with Pili LGU







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Webinar on IVSS Trends Specific to the Asia Pacific Region

- The GLOBE Asia Pacific Regional coordination Office host webinar on 14th January 2021, for teachers and students from various GLOBE schools in the Region to give them more insight about the GLOBE IVSS trends in AP region to help the Regional Students Community in making their Students research Project.
- The Webinar was presented by **Ms. Amy Barfield** from GIO.
- Ms. Barfield explain to the Participants about the IVSS statistic & Trends, GIO Triage Process & Resources for Students to create impactful research Project.







Ms. Barfiled Showing the Participants the most used Protocol in the Region by Students for IVSS Projects.





Webinar on Water Collaboration Project Symposium

- The GLOBE Asia Pacific Regional Coordination Office hosts a webinar on the occasion of World Wetland day on *February 02, 2021* for Students to showcase their research work of GLOBE hydrology Protocol & Water Bodies.
- The webinar was also for GLOBE trainers to teach students about GLOBE Hydrology Protocol in different type of water bodies & help them with their IVSS research report.
- Students from India, Philippines, Taiwan & Thailand presented their research paper. GLOBE Master Trainer for Hydrology Protocol
- Dr. R.K.Garg also shares his presentation Regional Collaboration Project on water bodies.
- 96 Participants including Students, Teachers, Trainers & Country Coordinator Participated in this webinar.





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Virtual group photograph of Participants of Webinar on 02nd February 2021 on Water Collaboration Project webinar/ Symposium

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Students from Princess Chulabhorn Science High School, Trang, Thailand presenting their Research paper during Water Collaboration Project webinar/ Symposium

Students from Batasan Hills National High School, Philippines presenting their Research paper during Water Collaboration Project webinar/ Symposium



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- In 2018 GIO launch the GLOBE Zika Education & Prevention Project by Organizing the 1st Regional Mosquito Training in Asia – Pacific Region.
- In the last Two and a half years the 10 initial implementation countries in Asia & Pacific Region that are supported to do CMTs and LMWs have tremendous progress, by working as a community to collect data to help track mosquitoes and fight Zika and other mosquito-borne diseases.
- Asia- Pacific Region has completed **35 CMTs** in which the participating countries have trained **1678 T2 Trainers**.
- The region has also completed **77 LMWs** and have trained **6749 LMW Participants.**
- In the GLOBE Asia Pacific Region the Zika Education & Prevention Project implementing countries have entered more that 80,000* (*78300 as of January 2021) Data points into the GLOBE Database

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Great Success!







THANKS!

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