

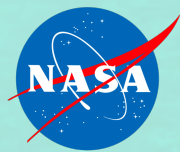
The GLOBE Program (Philippines)

Country Report
2022

Asia-Pacific Regional Meeting
Hanoi, Vietnam

ROD ALLAN A. DE LARA
Country Coordinator

JOAN BILASANO CALLOPE
Asst. Country Coordinator





1999

Joined Globe Community

2014



2015

- Learning the Globe Website

- Awareness + Building Critical Mass of Trained Teachers

2016

2017

2018

- *Mosquito Protocol*

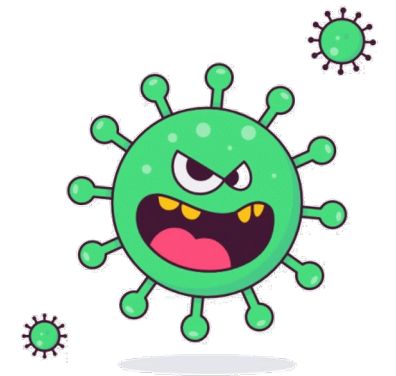
2019

- *Institutional Partnerships*
- *National Recognition*
- *QC Smart City Summit*
- *Big Projects*

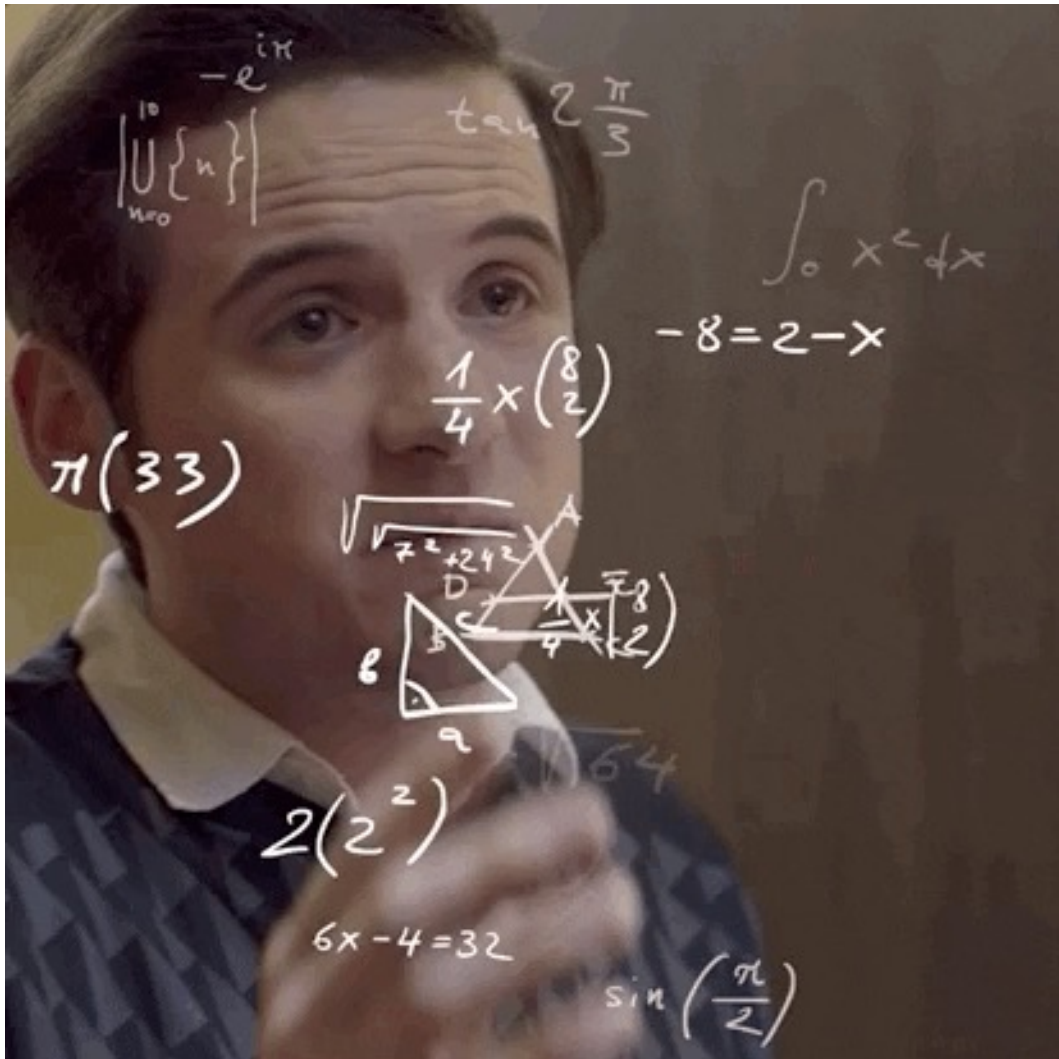
2020

LMS - EduShare

Covid



GLOBE Program (Philippines), By the Numbers



- **No. of Schools:** 283 Schools + 88 not registered in the system
- **Fully trained teachers** = 621+
- **Citizen Scientists** = 2,761
- **No. of Trainers** = 74
- **No. of Master Trainers** = 4
- **No. of Mentor Trainer Candidate** = 3

November 3, 2022

Philippines returned to face-to-face classes





The GLOBE Program, Philippines

A Worldwide Science and Education Program



ANNOUNCEMENTS



Welcome to the **GLOBE Program (Philippines) EduShare** Learning Management System, an initiative of the Philippine Science High School System thru the GLOBE Program (Philippines), and the Science, Technology & Engineering (STE) Program of Batasan Hills National High School.

This LMS is open for use by all GLOBE Teachers and GLOBE Schools in the Philippines, and was built to help them deliver Blended/Distance Teaching and Learning pedagogies and adjust to the new environment brought about by the CoViD-19 situation in the country. For more information, contact the GLOBE Country Coordinator at: www.globe.gov/web/philippines.

About the GLOBE Program

The Global Learning Observation to Benefit the Environment (GLOBE) program (www.globe.gov) is an international science and education program that provides students and the public worldwide with the opportunity to participate in the data collection and the scientific process, and contribute meaningfully to our understanding of the Earth system and the global environment.

GLOBE is jointly sponsored by the USA National Aeronautics and Space Administration (NASA) and the National Science Foundation (NSF), with support from the National Oceanic and Atmospheric Administration (NOOA) and the Department of State. It has 115 country members to date spread throughout 6 regions – Africa, Asia and the Pacific, Europe and Eurasia, Latin America and Caribbean, Near East and North Africa, and North America.

Online users

No online users (last 5 minutes)

CALL FOR PAPERS

GLOBE Program Asia Pacific Journal of Environmental Research

Submission Deadline: August 31, 2022

GLOBE PROGRAM

Research I

Course >

RESEARCH

Research IV

Course >

ADVANCED CHEMISTRY

Advanced Chemistry

Course >

NUMBERS

920+



Teachers and School Administrator Trained

62



School Users
(29 High Schools; 33 Primary Schools)



2



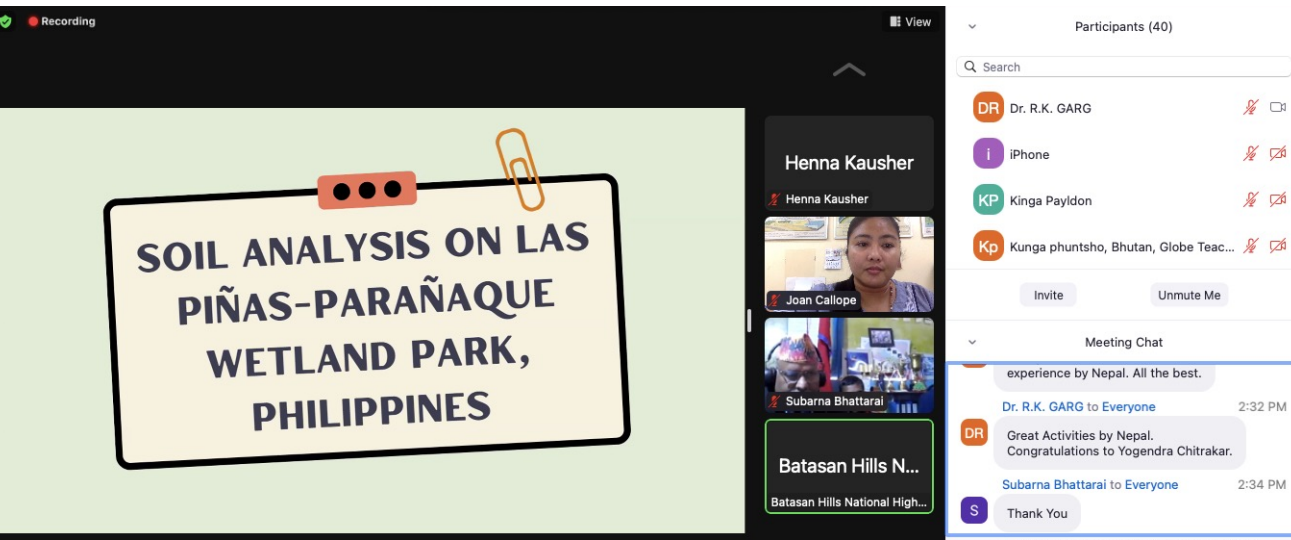
Systems Admin

1,388



User Accounts

Asia Pacific Symposium on Wetlands, 2 February 2023



- Presented two (2) papers, entitled:
 - *Soil Analysis in Las Pinas Wetland Park, Philippines;*
 - *Testing of pH Level, Alkalinity, Water Temperature, and Soil pH at Wetlands Paranaque*
- 94 participants from 10 countries





THE GLOBE PROGRAM
CONNECTING THE NEXT GENERATION OF SCIENTISTS

GLOBE ASIA - PACIFIC REGIONAL COORDINATION OFFICE

SOIL IN SCHOOLS

MAY 27, 2022

1 PM Manila Time



MS. JOAN CALLOPE



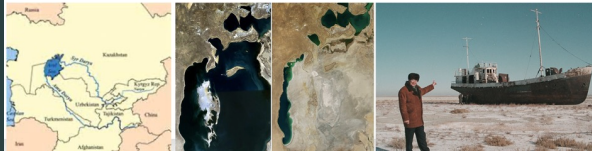
DR. ROD ALAN DE LARAN

www.globe.gov

Soil in Schools, 27 May 2022

EARTH AS A SYSTEM

- With global warming and rising average temperatures, is there less water on Earth now than 10000 years ago?



- Via Zoom, organized by the GLOBE APO
- Attended by : 98 Participants from 9 countries

Join Zoom Meeting
Meeting ID : 84919948714
Passcode : 858372

VIEW FULL AGENDA

CALENDAR VIEW

EXPORT ▾

PRINT ▾

Wednesday, July 27

12:15 AM PST

Learning About Protocols - Session 1: Pedosphere and SMAP (Soil Moisture Active Passive)

This first protocol session participants will focus on learning more about Soil pH and Soil Temperature, and how these P...



Rod Allan A. de Lara

Department of Science and
Technology -- Philippine Science
High School System
Deputy Executive Director



Joan Callope

DepEd, Schools Division Office
of Quezon City, Batasan Hills
National High School



Brian Campbell

NASA
NASA Senior Earth Science
Specialist



Jinyang Du

University of Montana



Lynne Hehr

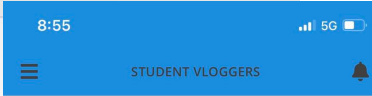
University of Arkansas
Arkansas co-Partner



Todd Toth

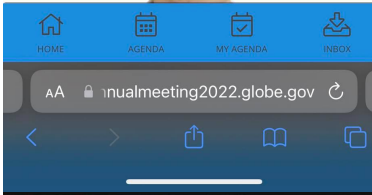
NASA Goddard Space Flight
Center
GLOBE Partner

🕒 12:15 AM - 2:30 AM PST



Name: **Andrei Joshua A. Alayon**
City: **Philippines, Quezon City, Metro Manila**
School: **Batasan Hills National High School**
Age: 16

Bio: I'm a Grade 10 Science, Technology and Engineering Student currently, I'm a GLOBE Student Mentor and I participated in multiple GLOBE projects; one of my most memorable was the 2019 GLOBE Expo, I'm very active in academic activities and recently, I just finished defending my research thesis about studying Air Quality and Urban Heat using GLOBE Protocols to a panel of judges at my school. I also love talking to people all across the globe and The GLOBE Program has definitely improved my skill at communicating. I'm also a holder of multiple IVSS Badges, also with my Air Related research, Assessing the Influence of Urban Heat to Chemical Pollutants in the air in Quezon City.



GLOBE Annual Meeting, 25 - 28 July 2022

- GLOBE Student Vlogger, by **Andrei Alayon**, 28 July 2022
- GLOBE Student Vlogger, **Llyn Escarcha**
- GLOBE Student Presentation, *"GLOBE Experiences"* by **Josiah Myron Diosanta**, 27 July 2022
- Pedosphere Protocol Presentation, **Dr. Rod Allan A. de Lara & Joan B. Callope**, 26 July 2022



LAKE POKHARA EXPEDITION

September 22- 28, 2022
Kathmandu & Pokhara, Nepal



DON'T JUST READ ABOUT SCIENCE, DO SCIENCE...

Lake Pokhara Expedition, 22 - 28 September 2022

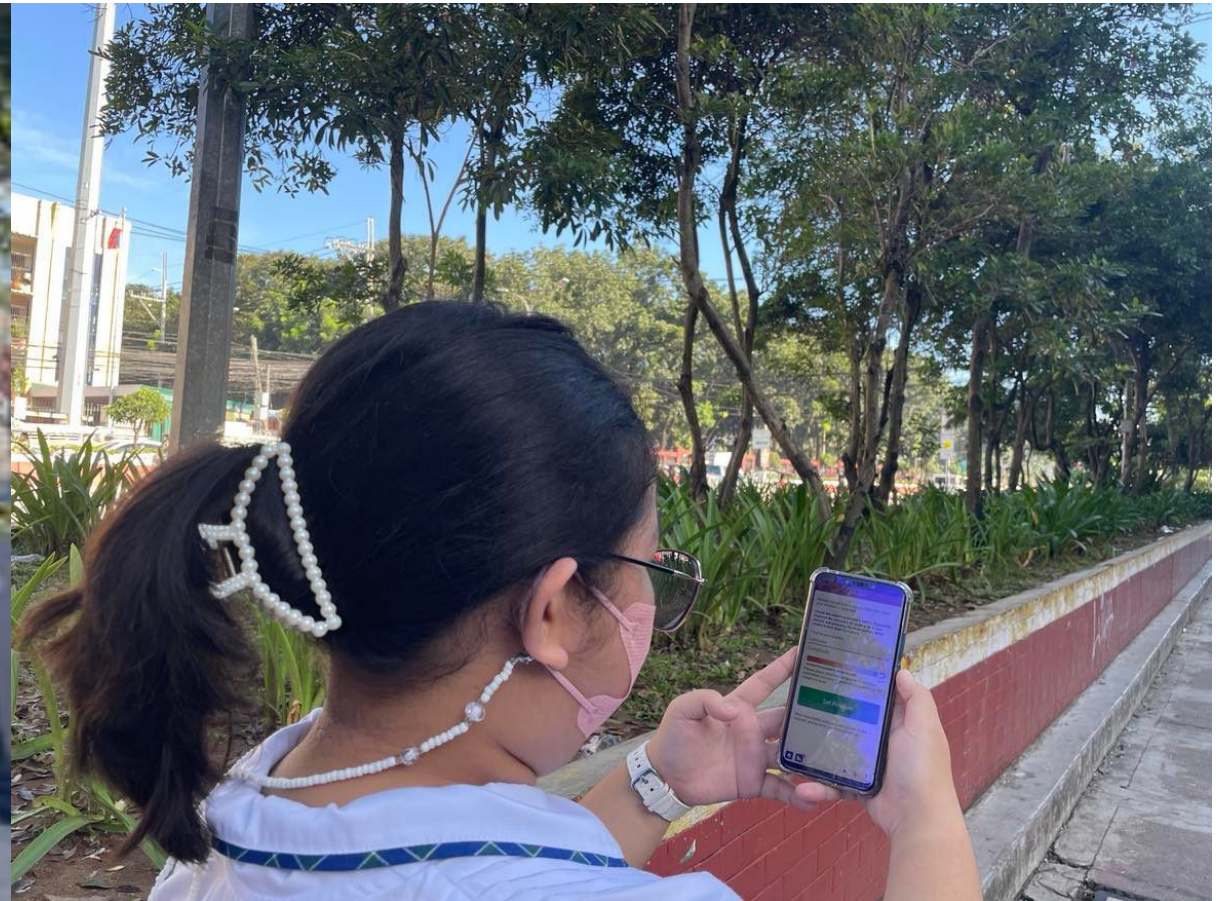
- Participated by Batasan National High School



NASA GLOBE Trees Challenge 2022

"Trees in a Changing Climate", 11 October 2022

➤ 30 STE students from Batasan Hills National High School



GLOBE Program Orientation with Hanawan National High School, 3 December 2022

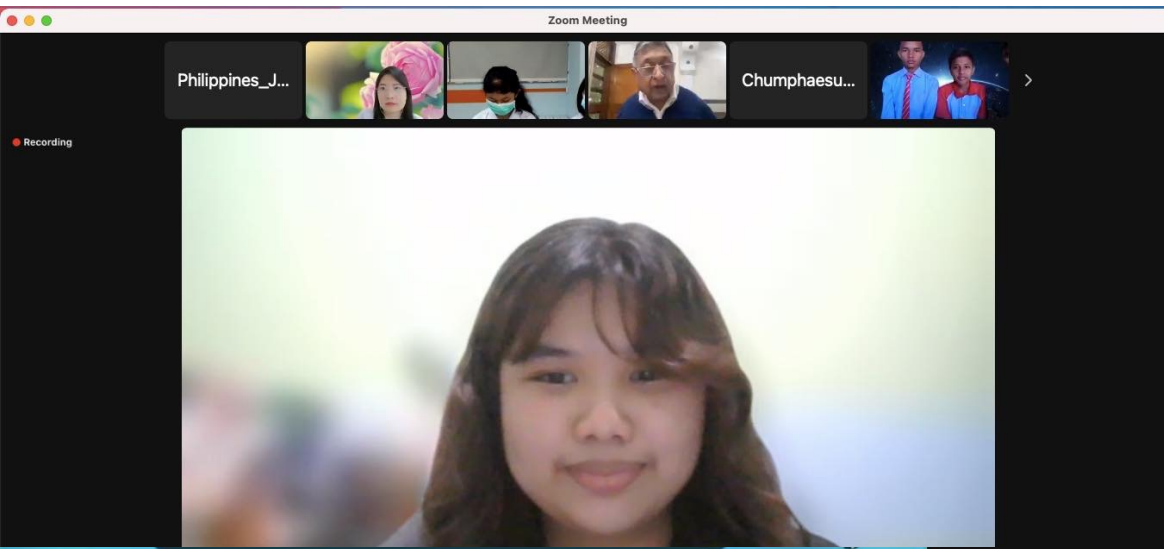


GLOBE ASIA PACIFIC SYMPOSIUM ON WETLANDS, 8 DECEMBER 2022

Zoom Meeting

Philippines_J... Chumphaesu...



Recording



What is a Wetland?

Wetlands are ecosystems that may be natural or man-made and that are perpetually or occasionally wet or flooded with either static or moving water. They describe any hat have waterlogged soil.

- a. Inland habitats
- b. Coastal and marine areas
- c. Human-made wetlands



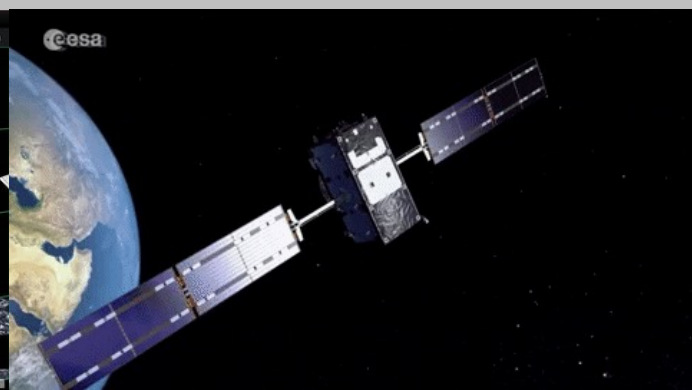
- Presented a paper entitled: *“Wetlands in the Philippines”*
- Symposium organized by the APO



Bhutan Capacity Building "Train-the-Trainers" Pedosphere, 19 December 2022

EarthData Search Results (1 Collection): VIIRS/JPSS1 Imagery Resolution 6 Min L1B Swath 375m NRT

Granule ID	START	END	Granule ID	START	END
VJ02IMG_NRT_A2022352.2354.02 1.2022353019036.nc	2022-12-19 23:54:00	2022-12-19 00:00:00	VJ02IMG_NRT_A2022353.0000.02 1.2022353015214.nc	2022-12-19 00:00:00	2022-12-19 00:00:00
VJ02IMG_NRT_A2022353.0006.02 1.2022353014740.nc	2022-12-19 00:06:00	2022-12-19 00:12:00	VJ02IMG_NRT_A2022353.0012.02 1.2022353020019.nc	2022-12-19 00:12:00	2022-12-19 00:18:00
VJ02IMG_NRT_A2022353.0018.02 1.2022353044304.nc	2022-12-19 00:18:00	2022-12-19 00:24:00	VJ02IMG_NRT_A2022353.0042.02 1.2022353045486.nc	2022-12-19 00:42:00	2022-12-19 00:48:00
VJ02IMG_NRT_A2022353.0048.02 1.2022353026046.nc	2022-12-19 00:48:00	2022-12-19 00:54:00	VJ02IMG_NRT_A2022353.0054.02 1.2022353035801.nc	2022-12-19 00:54:00	2022-12-19 01:00:00
VJ02IMG_NRT_A2022353.0100.02 1.2022353025184.nc	2022-12-19 01:00:00	2022-12-19 01:06:00	VJ02IMG_NRT_A2022353.0106.02 1.2022353042056.nc	2022-12-19 01:06:00	2022-12-19 01:12:00



The GLOBE Program

#GLOBEM Bhutan 2022

GLOBE Hydrosphere protocols

The first three listed must be conducted first! We will focus on the highlighted protocols.

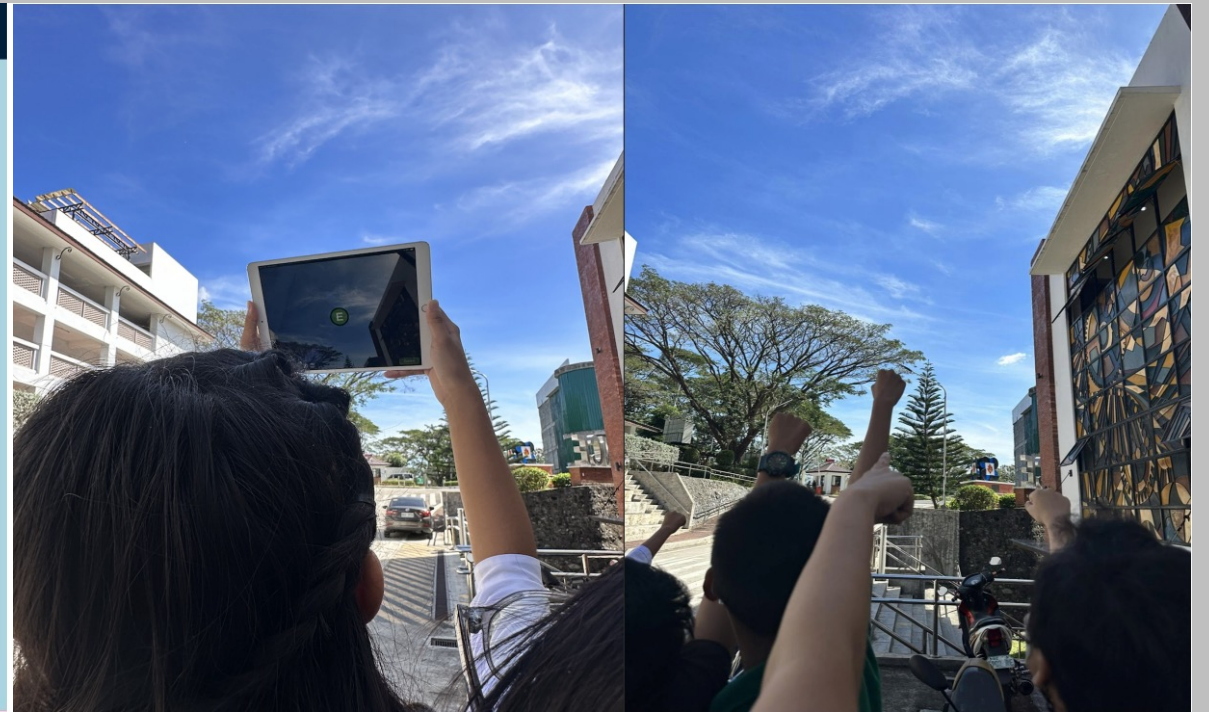
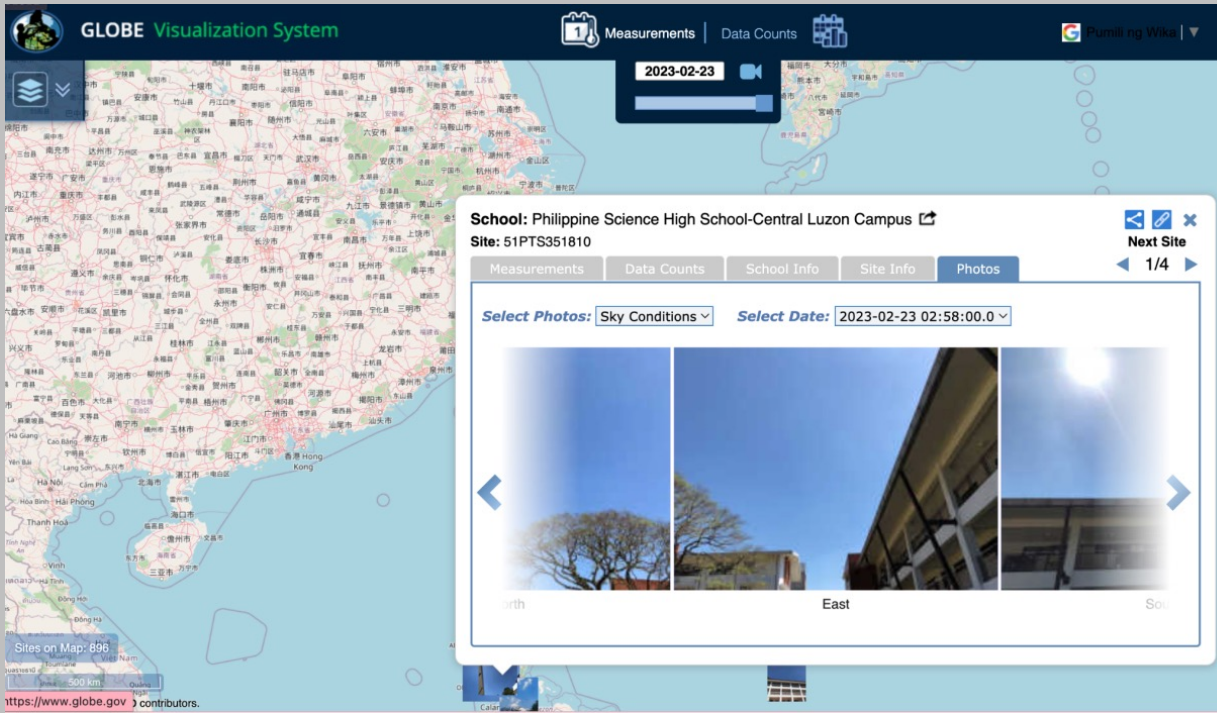
- **Transparency**
- **Water Temperature**
- **Dissolved Oxygen**
- pH
- Electrical Conductivity
- Salinity
- Alkalinity
- Nitrate
- Mosquito Habitat Mapper

HERE IS A LINK TO VIDEOS about [BACKGROUND](#), [CALIBRATION](#), and [CONDUCTING Hydrosphere PROTOCOLS](#)



PSHS-Central Luzon Campus STEM FEST, 23 February 2023

- 120 Grade 8 Students
- Venue: PSHS-CLC, Clark Freeport Zoom, Pampanga
- Facilitated by: Josephine Joy Tolentino



In 2022, GLOBE Program (Philippines) : Working Groups and Committee

- **Diversity, Equity and Inclusion** : Francis Murillo Emralino
- **Science** : Josephine Joy Tolentino-Antalan
- **Technology** : Joan Bilasano Callope
- **Education** : Rod Allan de Lara
- **TWG Technology Accessibility** : Rod Allan De Lara

Philippines is serving in 4 out of 5 Working Groups:

- 3 from the Philippine Science High School
- 1 from the Batasan Hills National High School



GLOBE PHILIPPINES PARTICIPATION IN OTHER GLOBE GROUPS

- **GLOBE Student Vlogger** : Llyn Escharca, Grade 10 STE, Batasan Hills National High School
- **GLOBE Vlogger Mentor** : Andrei Joshua Alayon, Grade 11 STEM, Batasan Hills National High School
- **GLOBE International STEM Network (GISN)** :
 - Joan Bilasano Callope
 - Dexter Laurden
 - Francis Emralino

Future Plans

- Asia Pacific Journal of Environmental Science
- Revival of : “A Million Trees by 2025” GLOBE Philippines in Cooperation with Pili Municipality
- Microplastics Protocol & Technology : Collaboration



THANK YOU

GRACIAS
ARIGATO
SHUKURIA

SHUKRIA
BIYAN
TINGKI

GRAZIE
MEHRBANI
PALDIES
BOLZIN
MERCY

DANKSCHEEN
TASHAKKUR ATU
SUKSAMA
EKHMET
GOZAIMASHITA
EFCHARISTO
KOMAPSUMNIDA
JUSPAXAR

YAQHANYELAY
SUKSAMA
EKHMET
SUKSAMA
EKHMET
SUKSAMA
EKHMET

SPASIBO
TERIMA KASIH
MERCI
DANKS
TERIMA KASIH
MERCI
DANKS

TERIMA KASIH
MERCI
DANKS
TERIMA KASIH
MERCI
DANKS