



LAKE POKHARA EXPEDITION REPORT

September 27- October 3, 2022
Kathmandu & Pokhara, Nepal



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

2022 Lake Pokhara Expedition

ABOUT THE EXPEDITION

Phewa Lake is a freshwater lake in Nepal located south of Pokhara valley.

The latitude and longitude of Phewa lake are 28° 12' 55" N and 83° 56' 43" E which falls on a relative subsidence zone in between the greater Himalayas and the Mahabharat range. The Phewa lake is one of the most beautiful places in Nepal and attracts a large number of tourists from all over the world.

The Phewa Lake is an important mountain lake that is ecologically very significant.

They may be considered grey literature. Most jurisdictions require companies to prepare and disclose annual reports, and many require the annual report to be filed at the company's registry. Companies listed on a stock.

The goal of the expedition was to create a platform for culturally diverse participants to engage in a hands-on learning experience centered around understanding the effects of climate change in the region through the use of relevant GLOBE protocols.

The expedition to Phewa lake was to enrich the knowledge of Students and teachers on wetlands.



ACTIVITIES AT THE EXPEDITION

The GLOBE Regional Coordination Office for Asia and Pacific in association with the Indian Environmental Society (IES) and collaboration with Environmental Camps for Conservation Awareness (ECCA) and GLOBE Implementation Office has organized a seven-day GLOBE Learning Expedition in Kathmandu & Pokhara, Nepal.

The expedition welcomed 43 participants from 8 countries (Bhutan, India, Nepal, Philippines, Taiwan, Thailand, and USA (GIO)).

Two officials from US Embassy – Nepal Mr. Patrick Gan - Regional Environmental Officer & Ms. Sulakchana Rai along with Ms. Sivani Rasanayakam, Environment, Science, Technology, and Health Officer at American Embassy in Dhaka, Bangladesh also join us during the expedition.

ACTIVITIES AT THE EXPEDITION

The expedition started in Kathmandu at ICIMOD Knowledge Park in the Godavari, Students, teachers, scientists, and academicians were provided with an opportunity to study the ecosystems inside the knowledge Park. A guide was there with the team who provided the necessary information regarding the plants of the park and other environmental activities going on inside it for sustainable livelihood.

Upon returning from ICIMOD Knowledge Park the group visited Crescent Academy (GLOBE School) in the Godavari where they are welcomed by the Nepali culture, a welcome speech was given by a nature club member, students exchange their views on GLOBE activities in their respective Schools, Nature Club Students gave a presentation on GLOBE program in school.

From Kathmandu, the group traveled by bus to Pokhara, and the following morning the group visited Lake Phewa in Pokhara and took measurements of GLOBE protocols on Hydrosphere (Water Temperature, pH, TDS, and Transparency) Biosphere (Land Cover and Tree Height), Atmosphere (Air Temperature, Clouds, Surface Temperature) and Pedosphere (Soil Temperature and Soil characterization) Participants also conducted the Mosquito Protocol using the GLOBE Observer App. and contributed with data entries to the GLOBE database via the GLOBE Observer App. The team of ECCA and Indian Environment Society facilitated all protocols learning.





ACTIVITIES AT THE EXPEDITION

Participants discussed the importance of these protocols and the impact on the local environment that comes from engaging in a focused study of the water. Biotic life and environmental conditions near the Lake's periphery were also observed and discussed. Participants were also able to observe and learn about topographical variation and the type of vegetation in hilly areas and to observe the impact of the landscape on the lifestyles of the villagers living there. While in Pokhara, Nepal Students also visited White Gumba where they study Cloud Observation using the NASA GLOBE Observer app.

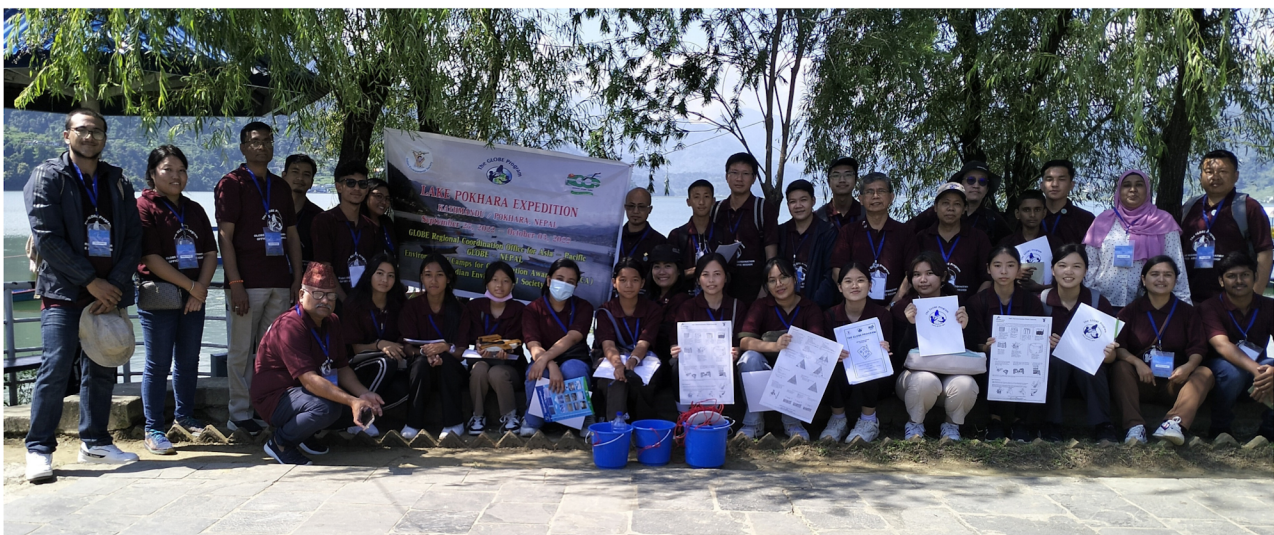
Participants also share their research done on water bodies in their home country with other Participants, which leads to a discussion on future collaboration among different Students. Participants also share the best GLOBE Practices that they have organized to keep their local community motivated and informed about their local environment.

Lake Pokhara Expedition provided an opportunity for the GLOBE schools of India, Bhutan, India, Nepal, Philippines, Taiwan, and Thailand to active participation & understand the GLOBE Protocol with this effort the students, Teacher & researchers got an opportunity to take part and were updated with the advancements GLOBE Protocols.

ACTIVITIES AT THE EXPEDITION

The expedition also provided a large platform for students to share their GLOBE activities and projects, the status of the GLOBE Program in their respective schools, and defining characteristics of their varying cultures and create opportunity for GLOBE Bhutan participants which is the youngest country in the region to take part in its first Face-to-face GLOBE activity.

Participants discussed the importance of these protocols and the impact on the local environment that comes from engaging in a focused study of the atmosphere & Hydrology. Participants were also able to learn how to Upload the data on the GLOBE website.



Participants Views on the Expedition

We don't do soil temperature in our school, but I have learned how to do this protocol during the Expedition and I'm going to share this with my friend back in school I'm very happy that I was part of the Lake Pokhara Expedition. I have learned so much and met new friends from different countries. I hope we will meet again soon.

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Sangay Choden student From Drugyel Higher Secondary School, Bhutan

Thank you for organizing this meaningful event, for the learning shared, for the friendship and for the wonderful experience here in Nepal

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Babie Noreen P. Clemente, GLOBE Teacher from Batasan Hills National High School, Manila, Philippines.

Wonderful experience in Nepal doing GLOBE, I will remember this forever!

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Chen, Cheng-Chang (Neil) GLOBE Teacher from New Taipei Municipal Hsin Tien Senior High School, New Taipei City, Taiwan.

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PARTICIPANTS DETAILS

Participant Name	Country	Name of School / Organization	Participants Type
Dr. Desh Bandhu	India	GLOBE Asia - Pacific Regional Coordination Office	Asia - Pacific Coordinator
Sunita Kapoor	India	GLOBE Asia - Pacific Regional Coordination Office	Assistant Coordinator
Henna Kausher	India	GLOBE Asia - Pacific Regional Coordination Office	Project Lead
Gadde Pulla Rao	India	Winfield High school, Khammam, Telangana, India	Teacher
Nihanth Sai	India	Winfield High school, Khammam, Telangana, India	Student
Vipra Kale	India	B. C. M. Arya Model Sr. Sec. School, Ludhiana, Punjab, India	Teacher
Mrs.Patchara Pongmanawut	Thailand	Princess Chulabhorn Science High School Trang, Thailand	Teacher

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Participant Name	Country	Name of School / Organization	Participants Type
Miss Neungruthai Chaimanee,	Thailand	Princess Chulabhorn Science High School Trang, Thailand	Teacher
Miss Nattagratta Lunda	Thailand	Princess Chulabhorn Science High School Trang, Thailand	Student
Miss Hataipat Karnjanasrimak	Thailand	Princess Chulabhorn Science High School Trang, Thailand	Student
Chen, Cheng-Chang	Taiwan	New Taipei Municipal Hsin Tien Senior High School, New Taipei City , Taiwan	Teacher
Lo, Hsin-I	Taiwan	New Taipei Municipal Hsin Tien Senior High School, New Taipei City , Taiwan	Student
Huang, Yu-Chin	Taiwan	New Taipei Municipal Hsin Tien Senior High School, New Taipei City , Taiwan	Student

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Participant Name	Country	Name of School / Organization	Participants Type
Lee, Yu-Hsien	Taiwan	National Kinmen Senior high School, Kinmen County, Taiwan	Teacher
Lin, Yi-Hao	Taiwan	National Kinmen Senior high School, Kinmen County, Taiwan	Student
Llyn L. Escarcha	Philippines	Batasan Hills National High School, Manila, Philippines	Student
Babie Noreen P. Clemente	Philippines	Batasan Hills National High School, Manila, Philippines	Teacher
Eladio H. Escolano	Philippines	Batasan Hills National High School, Manila, Philippines	Principal
Joan B. Callope	Philippines	Batasan Hills National High School, Manila, Philippines	Teacher

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Participant Name	Country	Name of School / Organization	Participants Type
Tashi Choden	Bhutan	UWICER	Official
Chungdu Tshering	Bhutan	UWICER	Official
Yeshi Lhendup	Bhutan	Ministry of Education	Official
Arun Kumar Chettri	Bhutan	Pelrithang Higher Secondary School	Teacher
Chencho Namgyel Ghalley	Bhutan	Pelrithang Higher Secondary School	Student
Rinchen Khandu	Bhutan	Drugyel Higher Secondary School	Teacher
Sangey Choden	Bhutan	Drugyel Higher Secondary School	Student
Pradika Lama	Nepal	Crescent English Academy School, Godawari, Lalitpur	Student
Unisha Tamang	Nepal	Crescent English Academy School, Godawari, Lalitpur	Student

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Participant Name	Country	Name of School / Organization	Participants Type
Nasala Maharjan	Nepal	Pushpanjali English Secondary School, Taukhel, Lalitpur	Student
Primas Sandyang	Nepal	Pushpanjali English Secondary School, Taukhel, Lalitpur	Teacher
Jenish Bhattarai	Nepal	Amity Public School, Kakarvitta, Jhapa	Student
Subarna Bhattarai	Nepal	Amity Public School, Kakarvitta, Jhapa	Teacher
Banisha Dhakahl	Nepal	Amity Public School, Kakarvitta, Jhapa	Student
Upama Tamla Rai	Nepal	ECCA, Jwagal	partner organization
Yash Chitrakar	Nepal	ECCA, Jwagal	partner organization
Manisha Godar	Nepal	ECCA, Jwagal	partner organization
Janeth Heiderer	USA	GLOBE Implementation Office	Communications Lead, Writer / Editor

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Participant Name	Country	Name of School / Organization	Participants Type
Robert Anton Heiderer	USA	GLOBE Implementation Office	Video Team
Thomas Edward Hyde	USA	GLOBE Implementation Office	Video Team
Sivani Rasanayakam	Bangladesh	US Embassy, Bangladesh	ESTH Officer
Sulakchana Rai	Nepal	US Embassy, Nepal	Official
Patrick Gan	Nepal	US Embassy, Nepal	Regional Environmental Officer for South Asia