

Program Report
(1 June 2023- 31 May 2024)
Citizen Science Program

SI No		
1	Name of the Program	Citizen Science Program
2	Online/Offline	Offline
3	Date	08/11/2023
4	Time	01:30 – 02:30 Pm
5	Organised by	Department of Zoology, The Cochin College in association with CMFRI, Kochi
6	Resource person/persons	Ms. Ancy C Stoy, Research Scholar CMFRI - Kochi
7	Coordinator/convenor	Dr Smitha N R
8	Organising Committee	Department of Zoology
9	Financial Assistance	nil
10	No of students participated	34
11	No of Faculty Participated	2
12	Public Participation (if any)	nil
13	Description of the program	Student of the Department of Zoology is volunteering Citizen Science Program of CMFRI, Kochi. An orientation was done about the program by Ms. Ancy C Stoy, Research Scholar, CMFRI on 08/11/2023

What do you gain from this ?

- An opportunity to familiarize yourself with scientific research, which will support you to shape your career in science.
- An opportunity to participate in global efforts to eradicate cholera by 2030.
- Technical awareness on use of remote sensing tools in environmental monitoring.
- Applicants of the training programme will be offered adequate training on how to manage the data collection process.
- Certificates will be given to successful participants.
- In addition to being a part of a scientific work of high social relevance, the students get a chance to interact with reputed scientists from national and international institutions.
- Citizen science revives critical thinking. Children exposed to such projects become more aware of the perils in store for them as well as how to deal with them in a realistic manner.
- Above all, they will be contributing to the UN's Sustainable Development Goals, which aim to address global challenges ranging from hunger to environmental degradation by 2030.

Details of Training Programme

One day training programme on REVIVAL Citizen Science

Venue: CMFRI Auditorium,
ICAR-Central Marine Fisheries Research Institute,
Post Box No.1603,
Ernakulam North P.O, Kochi-682018

Date: 5th August 2019

Registration starts at 9.30 am.

Admission free. Restricted to 150 participants.
Selection based on first come first serve basis.

For more details, contact:

Dr. Grinson George
Senior Scientist,
ICAR-CMFRI, Post Box No.1603,
Ernakulam North P.O,
Kochi-682018.
Contact. No- 8547857036,
9746866845



CITIZEN SCIENCE PROGRAMME

5th August 2019

ICAR- CMFRI, Kochi

REVIVAL

(RE)habilitation of Vibrio
Infested waters of Vembanad Lake -
Pollution and Solution)



ICAR – Central Marine Fisheries Research Institute
Post Box No. 1603, Ernakulam North P.O.,
Kochi-682 018, Kerala, India



PML



Participate in Our Research

In recent times, scientific research has taken a new course by involving public participation and collaboration to improve scientific knowledge. Citizen Science, as it is popularly called, is gaining momentum as an active and ambitious public network in scientific research. Realizing the importance and potential of public participation in data collection and monitoring programmes, the team REVIVAL has come out of the conventional 'research box' to offer State-of-the-Art technology to non-professionals to be part of a study with great social commitment and relevance.

REVIVAL (REhabilitation of Vibrio Infested waters of VembanAd Lake - Pollution and Solution

REVIVAL is a multi-institutional project funded under the India-UK Water Quality Initiative of the UK's Natural Environment Research Council (NERC) and the Engineering and Physical Sciences Research Council (EPSRC) in partnership with India's Department of Science and Technology (DST). The project, kick-started in 2018, aims to understand the extent of pathogenic Vibrio pollution in the Vembanad Lake, identify their reservoirs in the lake, map distribution of Vibrio carriers using remote-sensing techniques, and develop forecast models that would serve to anticipate hotspots of microbial infection and threats to human health. Scientists from CSIR-National Institute of Oceanography (NIO-RC), Kochi, ICAR-Central Marine Fisheries Research Institute (CMFRI), Kochi, Nansen Environmental Research Centre India (NERCI), Kochi and Plymouth Marine Laboratory (PML), UK constitute the REVIVAL team.

Citizen Science in REVIVAL


The citizen science programme in REVIVAL is an effort to enhance the frequency and spatial extent of data collection, and to promote scientific awareness among the students. The success of any citizen science project depends on the establishment of a well-devised monitoring program and the dedication of its volunteers. In this respect, REVIVAL team members from UK have designed a simple hand-held pocket-sized device to measure the Secchi depth in lake, estuary and near-shore environments. Using this instrument and exploiting smartphone technology, volunteers can readily provide geo-location information about the water quality throughout the lake in real time. Creation of such communities of interested citizen scientists gives an impetus to improve the transparency and accessibility of science.

Who Can Participate ?

Anyone who wishes to contribute to science, who is aspirant in environmental conservation and ardent in pursuing serious and socially responsible research works, can be a part of the programme. Priority is given to college students and residents along the banks of Vembanad Lake. Students can be part of this initiative as groups.

One day enlightenment programme for college students on citizen science is being organized at CMFRI campus, Kochi on 5th August 2019 at 9.30am.

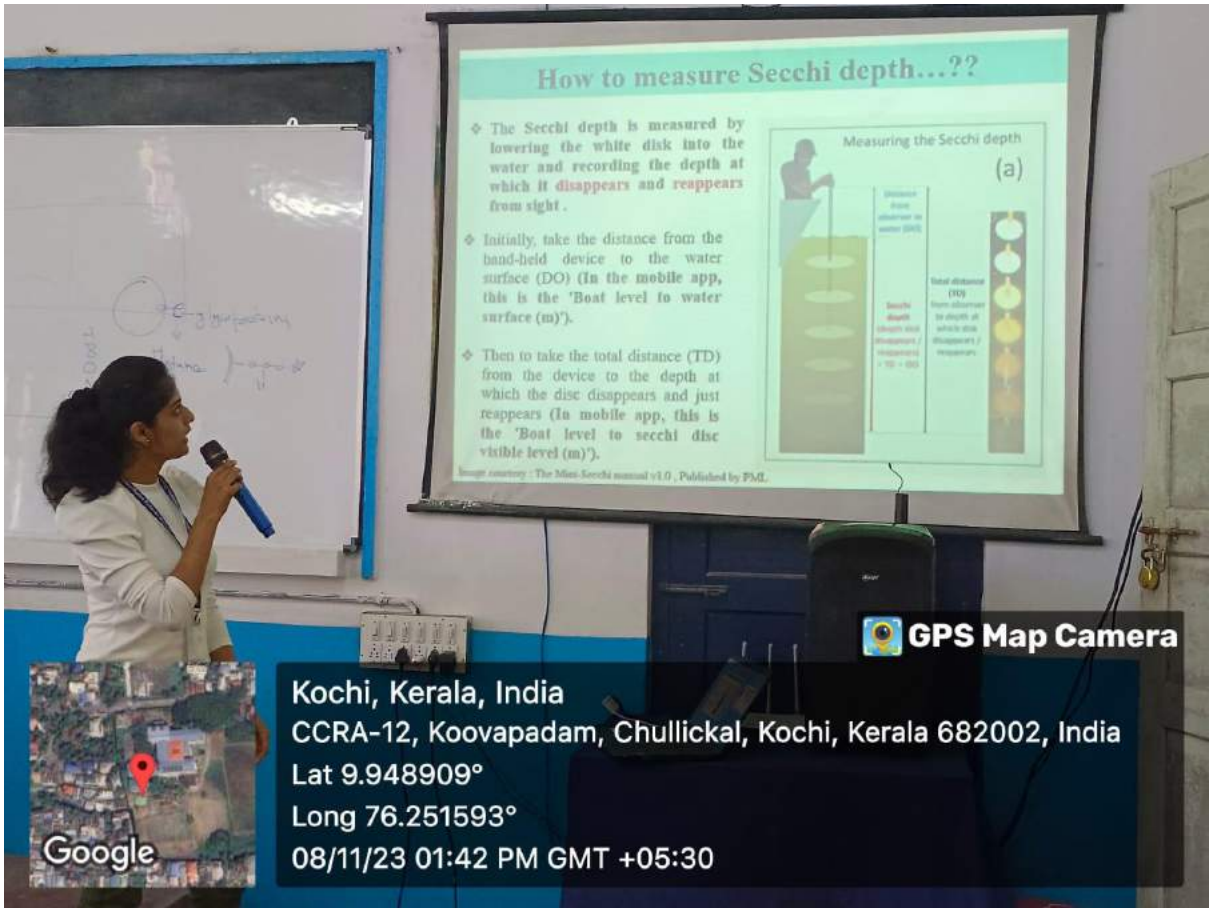


 **GPS Map Camera**



Google

Kochi, Kerala, India
 CCRA-12, Koovapadam, Chullickal, Kochi, Kerala 682002, India
 Lat 9.948906°
 Long 76.251595°
 08/11/23 01:43 PM GMT +05:30



 **GPS Map Camera**



Google

Kochi, Kerala, India
 CCRA-12, Koovapadam, Chullickal, Kochi, Kerala 682002, India
 Lat 9.948909°
 Long 76.251593°
 08/11/23 01:42 PM GMT +05:30

How to measure Secchi depth...??

- ❖ The Secchi depth is measured by lowering the white disk into the water and recording the depth at which it disappears and reappears from sight.
- ❖ Initially, take the distance from the hand-held device to the water surface (DO) (In the mobile app, this is the 'Boat level to water surface (m)').
- ❖ Then to take the total distance (TD) from the device to the depth at which the disc disappears and just reappears (In mobile app, this is the 'Boat level to secchi disc visible level (m)').

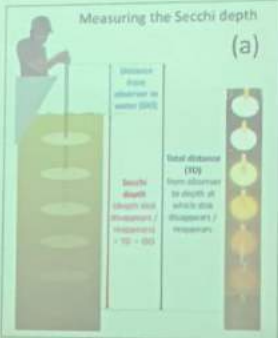
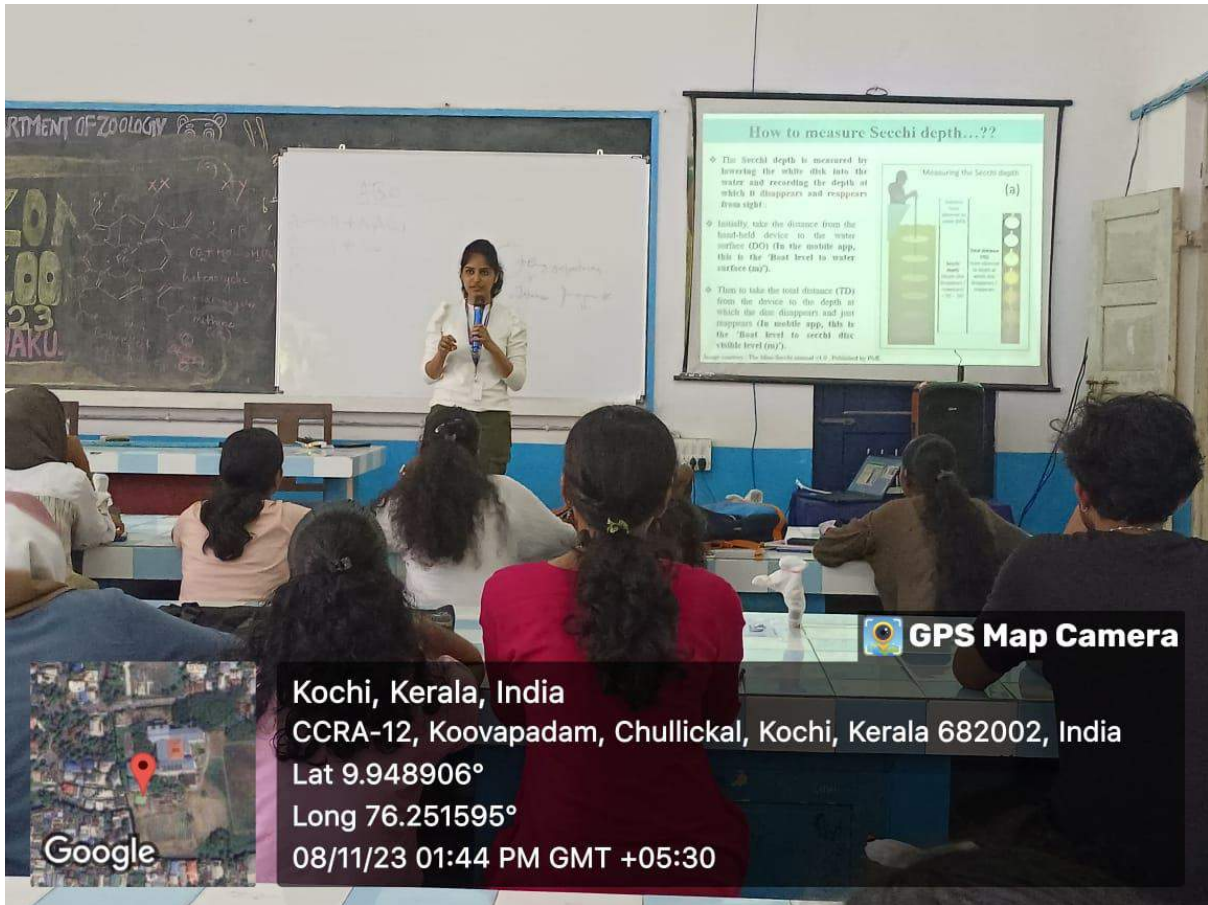
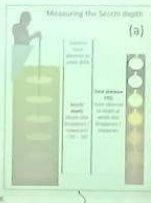


Image courtesy: The Mini Secchi manual v1.0, Published by FMI.



How to measure Secchi depth...??

- ◆ The Secchi depth is measured by lowering the white disk into the water and recording the depth at which it disappears and reappears from sight.
- ◆ Initially, take the distance from the hand-held device to the water surface (DS) (in the mobile app, this is the 'Start level to water surface (cm)').
- ◆ Then to take the total distance (TD) from the device to the depth at which the disk disappears and just reappears (in mobile app, this is the 'Start level to secchi disc (water level (cm)').



 **GPS Map Camera**



Kochi, Kerala, India
CCRA-12, Koovapadam, Chullickal, Kochi, Kerala 682002, India
Lat 9.948906°
Long 76.251595°
08/11/23 01:44 PM GMT +05:30