

Project Title: Ocean Sense(s). A multisensory ocean toolkit for all

Description of the project

Giuliana Panieri (Department of Geosciences and CAGE, UiT The Arctic University of Norway) and Margherita P. Poto have developed the project ‘**Ocean Sense(s). A multisensory ocean toolkit for all**’ (2021-2022), as a complementary and additional outreach activity of the main NRC-funded project **Akma** (<https://akma-project.com/>), as well as of the project **ECO_CARE** (<https://en.uit.no/project/ecocare>).

Aim

The aim of the project to provide a toolkit, co-created by members of both project teams, for dissemination and implementation research in connection with the sustainability goals (water protection, innovation, climate action, education for all) under the umbrella of the Agenda 2030. The toolkit includes lessons on the seabed habitats, learning props and experiential activities developed in connection with the research conducted on the vessel Kronprins Håkon (KPH) in 2022. The toolkit will include 3D printed versions of the seafloor and foraminifera, VR headsets to follow the activities on KPH, didactic materials on the ocean and the work of the researchers on board. The development of the toolkit has been involving scientists (geology, biology, law), researchers and education experts. The toolkit is expected to be further developed with the inputs of community members and school pupils.

Beneficiaries

The target groups for toolkit will be school pupils (age range: 6-18 years) from Italy, Norway, Brazil and Tanzania. In particular, the Strategiske Midler funding 2022 will support research activities connected to 5 classes from the Chiquitano villages in Mato Grosso, Brazil (coordinator: G. Parola), and one class from Songea, Tanzania (coordinator A. Haule).

Project activity

The co-created process of developing toolkit, disseminating and implementing research includes: 1. a series of consultations on the toolkit content with the project partners; 2. one-on-one meetings with community organizations, 3. an expedition of the Kronprins Håkon in May 2022 (11-23 May) with team members from Akma II, ECO_CARE and representatives of the target groups (researchers and teachers)

Expected project results:

1. didactic materials (an illustrated handbook on the ocean experience for school pupils 6-18 years, 3D seabed and foraminifera models printed on sustainable materials, water samples, taste-and-odor testing samples, videos with recorded sea-sounds)
2. n. 1-2 peer-reviewed interdisciplinary co-authored publications
3. n. 2 outreach activities with HE institutions during the expedition (Brazil and Tanzania)
4. kick-off and final seminars organized in cooperation with the partnered institutions (respectively: in May and in autumn 2022)

Funding requested, including budget (specified by activities/institutions/own institutional funding)

Travel and accommodation	20.000 NOK
Learning materials	20000 NOK
Scholarships	10.000 NOK
TOTAL	50.000 NOK

Costs are allocated as follows:

- n. 1 return ticket Tromsø-Longerbyen and 2 nights accommodation at the hotel in Longerbyen prior and after the Akma II expedition on the research vessel Kronprins Håkon in May 2022 (M. Poto)
- editing work, preparation of the materials, printing of learning props for the toolkits
- 2 scholarships for research assistants involved in the activities (Brazil and Tanzania): the research assistants are expected to conduct research on: the Ocean Sense(s) Toolkit impacts on their communities; filling the gaps in further legal and marine environmental education for the 2030 Agenda. The research assistants (Lauicino Mendes and Agnes R. Haule) are respectively based at the Universidade Federal do Estado do Rio de Janeiro and African Center for International and Comparative Law, Songea, Tanzania.

N.B. Please note that in the event of travel disruption due to the current global health crisis, we may consider repurposing the travel expenses (honoraria for speakers, scholarships for young scholars)