## Title: "Submerged and sensing – a multipurpose toolbox array for understanding ecological processes in the shallow subtidal of an arctic fjord"

Authors: **Bernabé Moreno**<sup>1,3</sup> bmoreno@iopan.pl, Klaudia Kosek<sup>1</sup>, Laural Morales-Luna Hadryś<sup>1</sup>, Anna Sowa<sup>1</sup>, Kamil Reginia<sup>1</sup>, Weronika Patuła<sup>1</sup>, Maciej Chełchowski<sup>1,3</sup>, Fernando Aguado Gonzalo<sup>2</sup>, David K.A. Barnes<sup>4</sup>, Marta Ronowicz<sup>1,3</sup>, Piotr Bałazy<sup>1,3</sup>, Piotr Kukliński<sup>1,3</sup>

## Affiliations:

<sup>1</sup>Marine Ecology Department, <sup>2</sup>Marine Biogeochemistry Laboratory, <sup>3</sup>Scientific Diving Team – **Institute of Oceanology Polish Academy of Sciences, Poland** 

## Scientific output presented on the poster:

- Balazy P et al. (2018) Diver deployed autonomous time-lapse camera systems for ecological studies. Journal of Marine Engineering & Technology, 17(3), https://doi.org/10.1080/20464177.2017.1357164
- Kosek K & Kuklinski P (2023) Impact of kelp forest on seawater chemistry a review. *Marine Pollution Bulletin*, 196, 115655, <a href="https://doi.org/10.1016/j.marpolbul.2023.115655">https://doi.org/10.1016/j.marpolbul.2023.115655</a>
- Kuklinski P *et al.* (2022) Experimental apparatus for investigating colonization, succession and related processes of rocky bottom epifauna. *Continental Shelf Research*, 233, https://doi.org/10.1016/j.csr.2021.104641
- Moreno B *et al.* (*in press*) Temperature and light intensity at high-Arctic subtidal shallows 16 years perspective. *Scientific Data*.
- Moreno B et al. (2023) Temperature and light intensity at hard-bottom high-Arctic shallow subtidal fjord locations. Figshare, <a href="https://figshare.com/articles/dataset/Temperature\_and\_light\_intensity\_at\_hard-bottom\_high-Arctic\_shallow\_subtidal\_fjord\_locations/21881460">https://figshare.com/articles/dataset/Temperature\_and\_light\_intensity\_at\_hard-bottom\_high-Arctic\_shallow\_subtidal\_fjord\_locations/21881460</a>
- Romero-Ramirez A *et al.* (2023) Image analysis and benthic ecology: Proceedings to analyze in situ long-term image series. *Limnology and Oceanography: Methods.* <a href="https://doi.org/10.1002/lom3.10537">https://doi.org/10.1002/lom3.10537</a>
- Sowa A *et al.* (2023) Factors shaping epibionts recruitment in the high Arctic (Isfjorden, Spitsbergen): A year-round investigation using experimental plates. *Estuarine, Coastal and Shelf Science*, 283. https://doi.org/10.1016/j.ecss.2023.108281
- Weydmann-Zwolicka A et al. (2021) Meroplankton seasonal dynamics in the high Arctic fjord: Comparison of different sampling methods. Progress in Oceanography, 190: 102484; <a href="https://doi.org/10.1016/j.pocean.2020.102484">https://doi.org/10.1016/j.pocean.2020.102484</a>

<sup>&</sup>lt;sup>4</sup> British Antarctic Survey, United Kingdom