

PlanktonID – combining deep learning and citizen science to identify plankton

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Summary

- In situ ocean optics deliver highly diverse and constantly growing plankton image datasets
- Datasets with millions of images require the development of advanced image identification techniques
- We use deep-learning and Citizen Science to classify plankton images (https://planktonid.geomar.de)
- Already more than 3.5 Million images have been sorted since January 2017 with a high success rate
- Our results show that rhizaria are highly abundant in upwelling regions, possibly because they can tolerate very low oxygen concentrations

