

GEOTRACES

MONTHLY ONLINE SEMINAR

shared theme, cross generation, cross region

Organised by:



seminar #1

Data synthesis, modelling & integration

April 28, 2026 @ 15:00 CEST

By Zoom:



Meeting ID: 636 5773 3493

Passcode: 651026

<https://geomar-de.zoom.us/j/63657733493?pwd=6Uman0pQaKQ56P9SkXoUfz55XqqO7a.1>



Senior Scientist
Dr. Gregory De Souza
ETH Zurich, Switzerland

Bringing it all together: using models to build process understanding

"In this talk, I will give an overview of the diversity of approaches that have used conceptual and/or numerical models to synthesize GEOTRACES observational data into an understanding of TEI cycling in the sea and at its interfaces."

Mapping ocean trace metal distributions: A global data-driven view of lead and its isotopes

"In this talk, I will present my work to develop the first global maps of lead (Pb) concentrations and isotope compositions from surface to depth using the tree-ensemble algorithm XGBoost and explainable machine learning (ML) tools."



Early Career Scientist
Dr. Arianna Olivelli
Flanders Marine
Institute, Belgium