

ANNUAL REPORT ON GEOTRACES ACTIVITIES IN NORWAY

May 1st, 2022 to April 30th, 2023

Outreach activities conducted

- *Popular article:* Climate change may lead to more toxic mercury in the Arctic <https://partner.sciencenorway.no/arctic-ocean-barents-sea-biology/climate-change-may-lead-to-more-toxic-mercury-in-the-arctic/2066235>

Other GEOTRACES activities

- Building Capacity to Crosslink Coastal Pollution with Climate Change (BC5) Project, (funded by Norad - Norwegian Agency for Development Cooperation), focusing on pollution from e-waste and plastic pollution, had both Ghana and Tanzania field works (December 2022 – February 2023) to collect trace elements including Hg and MeHg 2022-2023

New GEOTRACES or GEOTRACES-relevant publications (published or in press)

- Kohler *et al.*, 2022. Arctic Ocean's wintertime mercury concentrations limited by seasonal loss on the shelf. <https://doi.org/10.1038/s41561-022-00986-3>
- Dietz *et al.*, 2022. A risk assessment review of mercury exposure in Arctic marine and terrestrial mammals <https://doi.org/10.1016/j.scitotenv.2022.154445>
- Kohler *et al.*, 2022. Distribution pattern of mercury in northern Barents Sea and Eurasian Basin surface sediment. <https://doi.org/10.1016/j.marpolbul.2022.114272>
- Moreau *et al.*, 2023. Wind-driven upwelling of iron sustains dense blooms and food webs in the eastern Weddell Gyre <https://doi.org/10.1038/s41467-023-36992-1>

Completed GEOTRACES PhD or Master theses

- Laura M Kull MSc thesis (August 2022). Total Mercury Distribution in the Barents Sea and the Arctic Ocean Surface Sediments <https://hdl.handle.net/11250/3028517>

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