Cruises
August 2018; first cruise in The Nansen Legacy program to Arctic (the Barents sea); Trace metal (including Fe, Hg and others) sampling. Preliminary data collected from an August 2018 cruise indicate an average total mercury concentration of 0.86±0.21 pM in the upper 500m of the water column in the Northern Barents Sea.

New GEOTRACES-related projects and/or funding
Funded projects
- The nature of particulate iron inputs in high Arctic fjord during the spring season (Svalbard)
- SophyCO2: Southern Ocean phytoplankton community characteristics, primary production, CO2 flux and the effects of climate change (Funded by Research Council Norway and South African National Research Foundation as part of the SANOCEAN bilateral research cooperation between Norway and South Africa on ocean research)
- Coast-LaB : Impact of land-based activities to the coastal environment: Seawater desalination and wastewater discharge.(part of SANOCEAN)
- H2O2 dynamic in the coastal system.

Submitted applications
- AtoMS: An Autonomous trace-Metal-clean seawater Sampler to study iron and mercury dynamics in the Arctic (submitted to Research Council Norway, 10 April 2019).

Outreach activities conducted
Sailing for Science cruise (10 students and M. Ardelan) to the Dodecanese islands in the southeastern Aegean Sea: Sailing for Science is a citizen science initiative brainchild of Dr Murat Ardelan at the Norwegian University of Science and Technology in Trondheim. The goal of the project is to facilitate interdisciplinary marine research and offer students the opportunity to take part in hands on science cruises on citizen sail boats. Topics of interest include organic contamination, trace metal analysis, impacts of tourism on marine chemistry, phytoplankton studies and the impacts of microplastics.

New GEOTRACES publications (published or in press)
- Hopwood M, Santana-González, C, Gallego-Urrrea J, Sanchez N, Achterberg E, Ardelan MV, Gledhill M, González-Dávila M, Hoffmann L, Leiknes Ø, Santana-Casiano JM,


Completed GEOTRACES Master theses (at NTNU)

- Andrea Faltynkova, 2018. Mobility of Elements at the Sediment Water Interface in a Simulated Sub-Seabed CO2 Seepage Site.
- Maria Villegas, 2018. Determination of Fe(II) and Fe(III) in Synechococcus sp. PCC 7002 culture.

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