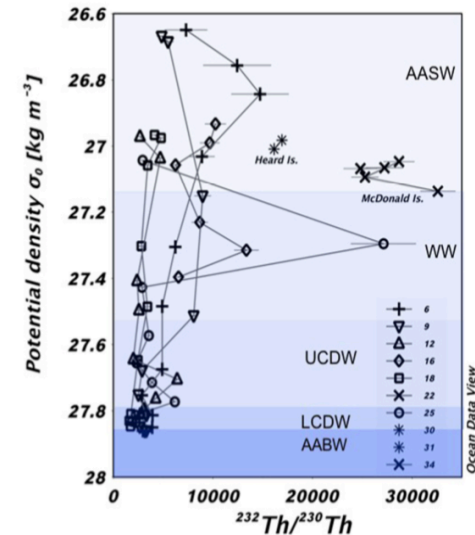
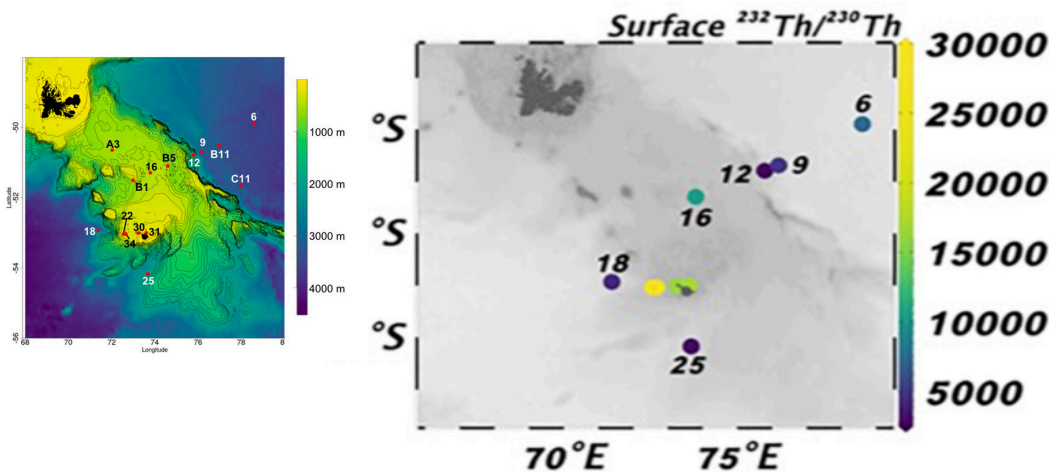


Science highlight



- First seawater Th data from UTAS
- High concentrations of lithogenically derived ^{232}Th near the islands and in subsurface waters influenced by transport from the plateau
- Quantified input of lithogenic material to this region using measurements of dissolved ^{232}Th and ^{230}Th
- Estimated the supply of dissolved Fe from dissolution of lithogenic particles- confirms importance of this source inferred using independent budget methods

Australia 2019 report

Cruises:

The Southern Ocean Time Series (SOTS; G1pr08) 2020 voyage planned for April was postponed due to the COVID-19 pandemic. A reduced-scope SOTS voyage is underway August 2020 to recover and turn around the moorings.

GEOTRACES workshops and meetings organized:

Sept 2019: “Ocean Data View Workshop: Exploring GEOTRACES and other environmental data”, held at the University of Tasmania

Sept 2019: The Institute for Marine and Antarctic Studies at the University of Tasmania hosted the 2019 meetings of the GEOTRACES Data Management Committee and Scientific Steering Committees

Sept 2019: GEOTRACES workshop entitled “Southern Ocean Biogeochemistry” held at the Institute for Marine and Antarctic Studies at the University of Tasmania

Australia 2019 report

Outputs:

20 publications; 2 PhD thesis; 14 presentations; 2 outreach activities

New projects and/or funding:

Australian Antarctic Program Partnership is funded for 10 years. Includes GEOTRACES-relevant work in biogeochemistry and ecosystems, with GEOTRACES CIs (from UTAS) Lannuzel, Boyd, Bowie and Strzepek.

Australian Centre for Excellence in Antarctic Science: A partnership between many Australian and international Universities and institutions including UTAS (GEOTRACES CIs Bowie, Chase, Lannuzel and Boyd) and The Australian National University (GEOTRACES CI Ellwood). Expected to start in January 2021 and run for 3 years. Multidisciplinary centre that includes GEOTRACES-relevant work on Antarctic and Southern Ocean biogeochemistry.

Delphine Lannuzel (University of Tasmania) was awarded an Australian Research Council Future Fellowship for the project “Ocean fertilisation: a positive effect from Antarctica’s great thaw?”

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Up coming voyages (next 12 months, all on R/V Investigator):

- SOLACE - Southern Ocean Large Areal Carbon Export: quantifying carbon sequestration in subpolar and polar waters. CI Philip Boyd. Hobart to Hobart. IN2020_V08, Dec – Jan. TBC
- Southern Ocean Time Series, Glpr08. IN2021_V02. March 2021.

Pending: Assessing change in physics and biogeochemistry of the Southern Ocean and atmosphere at 115°E (I09S). 2021/22. Rintoul/Bowie/Boyd/Chase and others

