From: Edward A Boyle eaboyle@mit.edu
Subject: US GEOTRACES planning workshop
Date: January 29, 2020 at 11:11 AM
To: geotraces@ldeo.columbia.edu

EB

Hi Bob,

I would like to request travel support to attend the planning meeting (6 - 8 May, 2020, Old Dominion University, Norfolk VA) for the next US GEOTRACES expedition in the South Pacific Ocean.

1) The individual scientific objectives of the work that you are considering to propose for the expedition,

Depending on some future discussions with Rob Rember and Jessica Fitzsimmons, I may propose measurements at a few stations for Pb concentration intercalibration, and Pb isotopes at several stations depending on what plans the other two labs have. I will also propose measurements of Cr isotopes at several stations.

2) How your individual scientific objectives support the overall goals and mission of the GEOTRACES program, and

Pb and Pb isotopes are one of the key GEOTRACES parameters documenting the penetration and evolution of anthropogenic Pb into the ocean, and allowing us to make estimates of chemical scavenging processes. Cr is an emerging new tracer that is being used to study oxygenation conditions in ancient oceans, but that lacks ground-truthing in the modern ocean.

- 3) Parameters that you are likely to propose to investigate within the context of the expedition.
- Pb concentrations (intercalibration)
- Pb isotope ratios (206/207, 208/207, 206/204)
- d53Cr

Cheers,

Ed