

UK-GEOTRACES NERC CONSORTIUM: POST-CRUISE MEETING FOR JC068 / GA10W

Department of Earth Sciences, South Parks Road, Oxford, OX13AN, UK

Monday 10th September

10.00 – 10.20 Gideon Henderson: agenda and overview

Distribution of elements

10.20 – 10.40 Malcolm Woodward
Nutrients on JC068

10.40 – 11.00 Maeve Lohan
Dissolved Zn and Co, and particulate trace metals in the Cape Basin

11.00 – 11.20 Christian Schlosser
Trace metal distribution in the water column along 40°S

11.20 – 11.40 *COFFEE (Common Room, Earth Sciences)*

12.00 – 12.20 Jessy Klar
Dissolved Al distribution in seawater along the Atlantic transect 40°S

12.20 – 12.30 Debbie Hembury
REE elements along the 40°S transect

12.30 – 12.40 Maxence Paul
Pb isotopes at 40°S

12.40 – 1.00 Arne Bratkic
Hg water speciation during JC068

13.00 – 14.00 *LUNCH (Common Room, Earth Sciences)*

Fluxes and inputs

14.00 – 14.20 Gideon Henderson
Quantifying trace-metal sources and fluxes in the Cape Basin

14.20 – 14.40 Rosie Chance
Wet and dry deposition fluxes of major ions and trace elements to the S Atlantic

14.40 – 15.00 Roulin Khondoker
The Important natural and anthropogenic sources of aerosols into the S Atlantic

15.00 – 15.20 Katsia Pabortsava
Th-234 derived Particle Fluxes along 40°S

15.20 – 15.50 *COFFEE (Common Room, Earth Sciences)*

15.50 – 16.10 Alan Hsieh
228Ra-derived ocean mixing and nutrient fluxes in the Cape Basin

16.10 – 16.30 Walter Geibert
Deep-sea mixing along 40°S as seen in radium isotopes and actinium

16.30 – 16.50 Kurt Polzin
Diagnosing isopycnal and diapycnal mixing rates from microstructure along 40S

16.50 – 17.10 Will Homoky
Sediment and pore water observations: Implications for micronutrient supply

17.10 – 17.20 Feifei Deng
Preliminary U-series data in Cape Basin sediments

19.00 *DINNER (The Anchor, Polstead Road)*

Tuesday 11th September

Biological responses and tracers

- 9.00 – 9.20 Tom Browning
Phytoplankton data along the transect
- 9.20 – 9.40 Rich Pancost
Lipid biomarker production and preservation.
- 9.40 – 10.00 Amandine Sabadel
Dissolved free amino acids concentrations along the 40°S Atlantic transect
- 10.20 – 10.40 Robyn Tuerena
Nitrogen and oxygen isotopic composition of nitrate at 40°S: biogeochemical signals in South Atlantic water masses
- 10.40 – 11.00 Alex Piotrowski
Carbon isotopic composition of waters in the South Atlantic, tracing water masses and biological activity
- 11.00 – 11.30 *COFFEE (Common Room, Earth Sciences)*

Intercalibration and other shore-based measurements

- 11.30 – 12.00 Intercalibration and cross-over stations with French (Station 3) and Dutch (Station 18) GEOTRACES cruises
- 12.00 – 13.00 Brief reports on other shore-based measurements from those present and on behalf of others
(e.g. Tim Conway; Stefan Winkler; $\Delta^{17}\text{O}$, ^3He , etc.)
- 13.00 *LUNCH (Common Room, Earth Sciences)*

Discussion issues

- 14.00 – 16.00 Afternoon discussion of consortium issues:
- Data management
 - Timescales for data completion and submission to BODC
 - Website review
 - Impacts
 - Publication strategy and timelines
 - Future meetings – international conferences and consortium workshops