

## *United Kingdom*

Further details about UK GEOTRACES activity is available at: <http://www.ukgeotraces.com/>

### ***Cruises and analysis***

There have been no dedicated UK GEOTRACES cruises since January 2012. UK scientists have received samples from other GEOTRACES cruises, but the majority of UK effort in the last 12 months has continued to focus on analysis of samples from the two main UK cruises so far (GA06; Tropical Atlantic; and GA10 South Atlantic) and samples recovered from other cruises with significant UK involvement (e.g. Baltic GEOTRACES)

### ***Meetings***

- UK scientists have presented results GEOTRACES results at AGU, Ocean Sciences, and Goldschmidt conferences.
- UK scientists attending the Latin American and Russian GEOTRACES Workshops at the end of 2012.
- UK scientists continue to be involved in planning for future Arctic GEOTRACES efforts through international meetings and dialogue.
- A post-cruise meeting for GA10 was held in September 2012 and demonstrated the wide range of measurements conducted on this cruise, as well as initiating plans for publications.
- A COST and SCOR sponsored meeting focused on trace metal isotopes in seawater was held in September in London, organized by scientists from Imperial College (Mark Rehkamper and Tina van der Fleirdt). The final report of this meeting and lists of participants can be downloaded from:  
<http://www.geotraces.org/meetings/meetings-by-year/eventdetail/121/-/geotraces-cost-workshop-stable-isotopes-of-biologically-important-trace-metals>
- Maeve Lohan (University of Plymouth) attending intercalibration meetings in Hawaii (on particulates) and in Sweden (on cross-over stations).

### ***National and international service***

- The UK continues to host the GEOTRACES Data Assembly Centre at the British Oceanographic Data Centre in Liverpool.
- The UK is represented on the International GEOTRACES SSC and on the International Standards and Intercalibration Committee by Maeve Lohan.

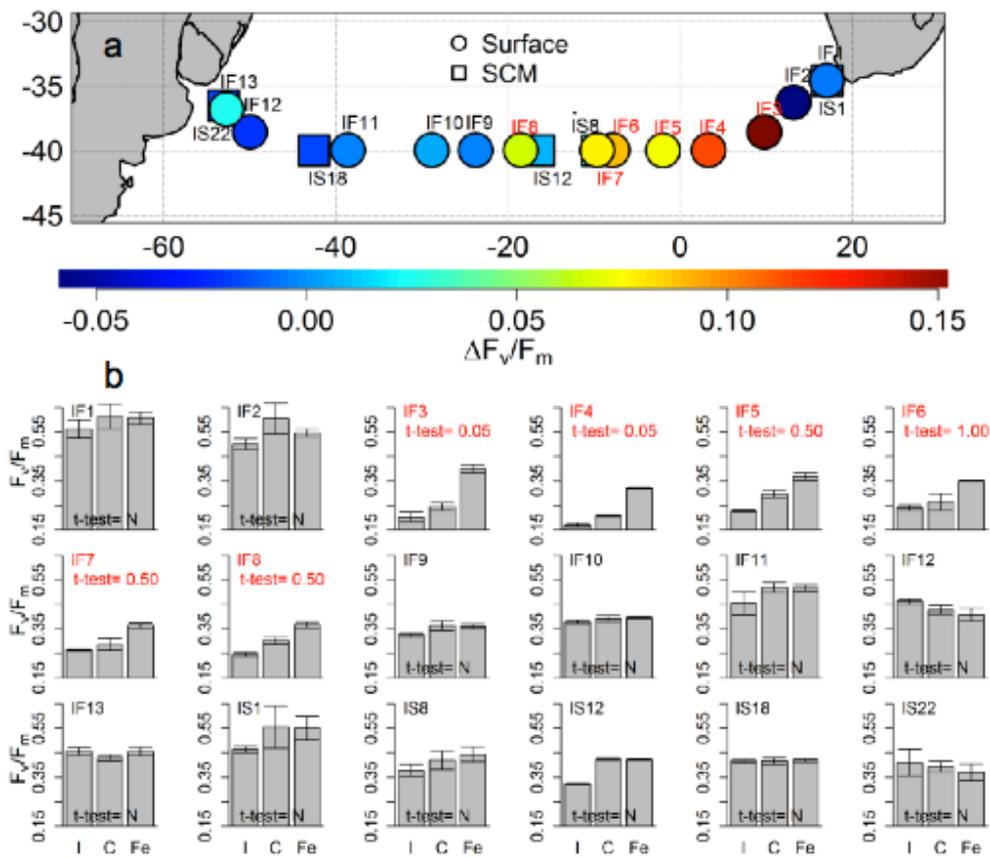
### ***Publications***

A large number of publications from GA06 and GA10 are approaching publication or submission. Two early publications from these cruises are:

- Homoky, W.B., John, S.G., Conway, T.M., Mills, R.A., 2013. Distinct iron isotopic signatures and supply from marine sediment dissolution. *Nature Communications* 4.  
<http://www.nature.com/ncomms/2013/130719/ncomms3143/full/ncomms3143.html>
- T. J. Browning, H. A. Bouman, C. M. Moore, C. Schlosser, G. A. Tarran, E. M. S. Woodward, and G. M. Henderson, “Nutrient regimes control phytoplankton ecophysiology in the South Atlantic” *Biogeosciences*  
<http://www.biogeosciences-discuss.net/10/11969/2013/bgd-10-11969-2013.pdf>

The latter included clear identification of Fe limitation in the eastern South Atlantic through a series of incubation experiments. Red colours on the figure below (Fig 7 from Browning et

al.) are regions where incubations showed a clear increase in phytoplankton growth in response to Fe addition.



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