

## **Dissolved iron along the GEOVIDE section (GEOTRACES section GA01)**

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One of the objectives of the GEOVIDE cruise (GEOTRACES GA01; May-June 2014) was to provide a better understanding on trace metals biogeochemical cycles in the North Atlantic. This region plays a key role on the Earth climate, as it represents a major overturning area of the Meridional Overturning Circulation (MOC).

Among trace metals, iron is the most important one, since it is essential for phytoplankton growth. During GEOVIDE, sampling was undertaken at 31 stations including the West European Basin, Reykjanes ridge, Irminger Sea, Greenland margin and the Labrador Sea.

Samples have been analyzed by Flow Injection Analysis (FIA) coupled with chemiluminescence detection using a commercially available resin, the Toyopearl AF-Chelate-650 M. First results will give the first insights on dissolved iron spatial distribution, sources and sinks in the North Atlantic.