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Circulation and water masses across the GEOVIDE section

Pascale Lherminier (1), Herlé Mercier (2), Géraldine Sarthou (3), Fiz Perez (4), and Maribel I. García-Ibáñez (4)

(1) IFREMER, LPO, PLOUZANE, France (pascale.lherminier@ifremer.fr), (2) CNRS, LPO, PLOUZANE, France (herle.mercier@ifremer.fr), (3) CNRS, LEMAR, IUEM, UBO, PLOUZANE, France (geraldine.sarthou@univ-brest.fr), (4) CSIC, IIM, VIGO, Spain (fiz.perez@iim.csic.es)

In May-June 2014, the GEOVIDE cruise gathered scientists from the GEOTRACES program and from the OVIDE team. The OVIDE section, from Portugal to Greenland, was sampled for the 7th time, measuring the parameters related to the circulation and carbon cycle, and adding measurements of the Trace Elements and their Isotopes (TEI). A section in the Labrador Sea was also carried out, showing evidence of recent deep convection, down to at least 1500m depth.
After presenting the context of the decadal variability using the Meridional Overturning Circulation (MOC) index built for the Ovide section, the circulation patterns and watermasses encountered during the GEOVIDE cruise are described and analyzed at the light of the previous OVIDE cruises, emphasizing the peculiar eastward position of the Subarctic Front and the structure of the MOC in summer 2014.