



## **Vertical Mixing Along The OVIDE Section In North Atlantic**

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The OVIDE project repeats every two years, from 2002 to 2008, a hydrological section between Portugal and Groenland, including for each campaign nearly 100 CTD and LADCP profiles, and 30 microstructure profiles for the 2008 cruise. Microstructure measurements indicate that the vertical mixing is intensified over rough bathymetry and along the Reykjanes Ridge. CTD finestructures are used to calculate Thorpe scales, which allow us to estimate indirectly dissipation rates related to turbulent events. A second estimation is done, with a parameterization of the turbulent mixing due to internal waves activity, following the Garrett and Munk model (1976), with a procedure combining CTD and LADCP data. We compare the results of the two methods to the VMP measurements for 2008. We then extend the calculations to the 2002, 2004 and 2006 CTD and LADCP data to investigate if systematic patterns are found in the mixing distribution along the OVIDE section.