

Southern Ocean hydrography and circulation - CLIVAR Repeat Hydrography Program

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The Repeat Hydrography Program entails the systematic reoccupation of ocean observation lines worldwide, taking hydrographic sections to quantify changes in the storage and transport of heat, fresh water, carbon dioxide and other related parameters. The program builds on the earlier baseline established by WOCE and JGOFS, which produced full water column datasets during the 1990s. The centralized coordination of the Repeat Hydrography Program ensures data collection is efficient, and data quality consistent, between sections maximizing the benefits to researchers, stakeholders and society at large. The program has successfully operated since 2003 and further expeditions are currently being scheduled up to 2014. At-sea operations will take hydrographic sections to address research in 5 key areas: (1) Calibration and Validation of ocean and global climate models; (2) The Carbon System; (3) Storage and flux of heat and freshwater; (4) Deep and shallow water mass ventilation; and (5) Calibration of Autonomous Sensors. Opportunities: The committee co-chairs welcome contact from individuals interested in participating. Further information is provided on the website: <http://ushydro.ucsd.edu>.