



## Dealing with Uncertainties in Estimates of the Ocean Circulation

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Numerical circulation models are being used now on a regular basis to estimate the ocean state over the last decades by bringing them together with all available ocean observations through data assimilation. Uncertainties of models and of data are essential priors that need to be specified and that are essential for determining the solution. The talk will discuss the status of determining data and model errors and will present examples of resulting estimates. The talk will especially also address a comparison of results available from various ocean state estimates to analyze the a posteriori uncertainty of various existing ocean state estimates. Results presented are a contribution to the ongoing CLIVAR GSOP tests of ocean state estimates.