

## **Global Ocean climatological studies**

### Research objectives

New advanced techniques of mapping such as variational data objective analysis have never been applied to global temperature and salinity fields from historical observational archives. Two are the major aims of the present work: 1) to devise a Nonlinear Quality Control (NQC) methodology to account for representativeness errors in the historical observations; 2) application of the nonlinear variational objective analysis to the NQC data set and analysis of results in terms of climate indicators.