

## **Improved meteorological measurements from merchant ships**

Peter K. Taylor

Southampton Oceanography Centre, UK

E-mail: [peter.k.taylor@soc.soton.ac.uk](mailto:peter.k.taylor@soc.soton.ac.uk)

Improved ship's meteorological reports are required for climate studies and verification of numerical model and remote sensed data. The improvement may take a number of forms. Even having a better understanding of the error characteristics of the present reports represents an advance useful, for example, for designing assimilation schemes or identifying climate trends. The quality of the actual observations may be improved through better metadata and quality control (as in the VOS Climate project, VOSCLIM), through improved instrumentation (such as the Canadian AVOS or US IMET systems), or through studies designed to quantify unavoidable bias errors. An example of the latter is the use of Computational Fluid Dynamics modelling to study the degree to which the wind at the anemometer site has been altered by the presence of the ship. This talk will summarise the progress in these activities and outline future plans.