



## **Assessment metrics for the TOPAZ monitoring and prediction system**

**L. Bertino**<sup>1</sup>, K.A. Lisæter<sup>1</sup>, F. Høydalsvik<sup>1</sup>

<sup>1</sup>Mohn-Sverdrup Center / Nansen Environmental and Remote Sensing Center, Bergen, Norway

The TOPAZ system is a real-time ocean forecasting system based on a hybrid vertical coordinate ocean model (HYCOM) and an advanced data assimilation method (the Ensemble Kalman filter EnKF). TOPAZ is running in near real-time since 2003 and is undergoing an upgrade with a doubling of its horizontal resolution (from 18-36 km in TOPAZ2 to 11-16 km in TOPAZ3).

The validation of TOPAZ follows the lines of Crosnier and Le Provost (2005) addressing the issues of consistency, accuracy and performance of the system.

The results are assessed against a control run in order to evaluate the impact of assimilation shocks and other possible indirect effects.