

Importance of ocean observations in ECCC's Global Ocean Analysis GLOPS: The SynObs Project

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The Synergistic Observing Network for Ocean Prediction (SynObs) project (<https://oceanpredict.org/synobs>) seeks to find synergies between ocean observations and ocean prediction through a multi-system approach to an Observing System Experiment (OSE). Best estimates and predictions of the location of eddies, ocean sound speed profiles, ocean currents and ocean water masses are important ocean diagnostics for a variety of ocean and/or coupled NWP applications. Skillful estimates of these diagnostics is presumably determined by the quantity and quality of ocean observations used in the ocean state estimation, but the exact value of the observations, and in particular, which observations are most crucial is unknown. Through OSE experiments performed by Environment and Climate Change Canada's (ECCC's) system the Global Ice Ocean Prediction System (GIOPS) for the SynObs project, we will investigate the effect of observation withholding experiments on these diagnostics. Particular attention is paid experiments withholding ARGO observations, but other experiments withholding altimeter, or only assimilating SST observations also prove interesting.

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