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ASSESSMENT OF THE ECCO2 HIGH RESOLUTION GLOBAL-OCEAN AND SEA-ICE DATA SYNTHESIS USING THE CLIVAR/GODAE GLOBAL SYNTHESIS AND OBSERVATIONS PANEL METRICS

The Estimating the Circulation and Climate of the Ocean, Phase II (ECCO2) project aims to produce an increasingly accurate global-ocean and sea-ice data synthesis at resolutions that start to resolve ocean eddies and other narrow current systems, which transport heat, carbon, and other properties within the ocean. ECCO2 data syntheses are obtained by least squares fit of a global full-depth-ocean and sea-ice configuration of the Massachusetts Institute of Technology general circulation model (MITgcm) to the available satellite and in-situ data. This presentation assesses the first ECCO2 data synthesis versus a series of metrics established by the CLIVAR/GODAE Global Synthesis and Observations Panel. These metrics include misfits from sea surface height observations, climatological and in situ temperature and salinity profiles, meridional transports, heat and salt content, sea level changes, transports through key regions, water masses, sea surface temperature and transport indices, and surface fluxes.

Poster presentation

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