Comparison Between Oceanic Phosphate (PO4) levels in Model Data from 1861-1880 and Measured Data From the World Ocean Atlas

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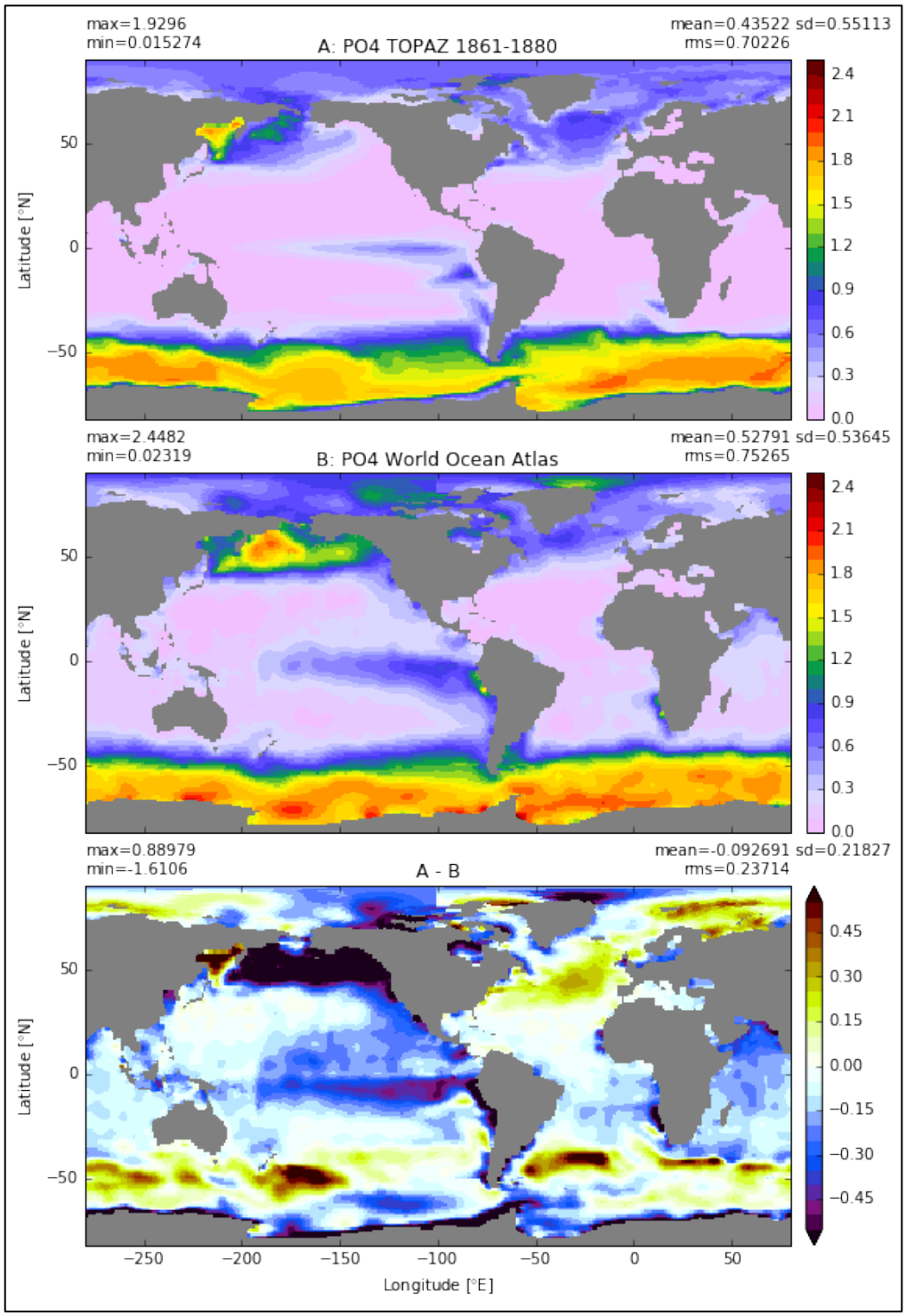
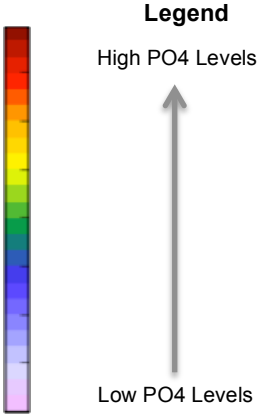
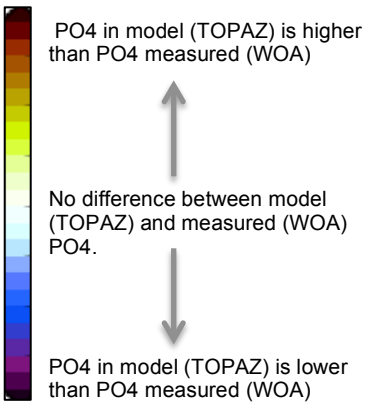


Background

The maps depicted in this document aim to illustrate differences in oceanic phosphate (PO4) levels from the period of 1861 to 1880 in GFDL's TOPAZ Model and phosphate levels from the same period obtained through experimental data collection and published in the World Ocean Atlas (WOA). The goal of this comparison is to verify the accuracy of GFDL's TOPAZ model in representing global ocean phosphate levels.

Legend





Note: The maps presented in this document are part of a research study conducted by Maria Pulido-Velosa at NOAA's Geophysical Fluid Dynamics Laboratory (GFDL) titled "Benchmarking Ocean Biogeochemical Fields in GFDL's Earth Systems Model". This work included the analysis of phosphate (PO4), Nitrate (NO3), Oxygen (O2), Silicate (SiO4) and alkalinity in the global ocean.