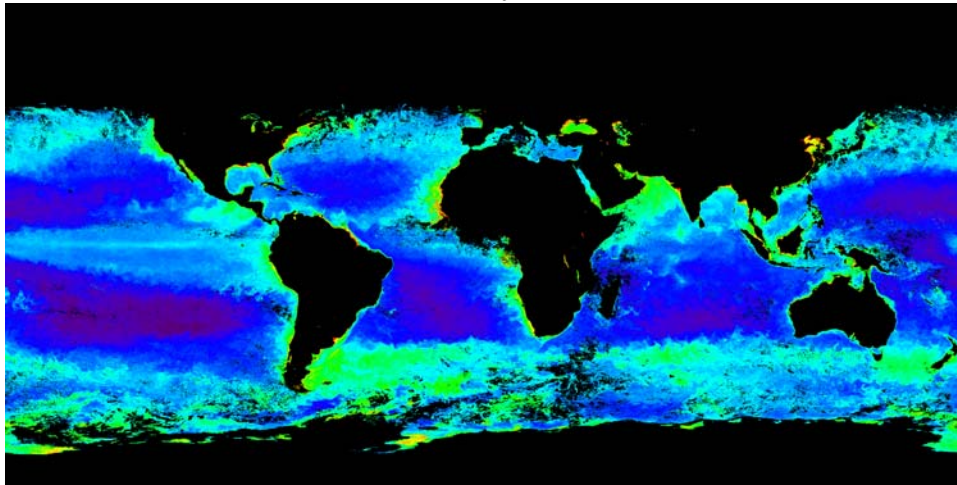
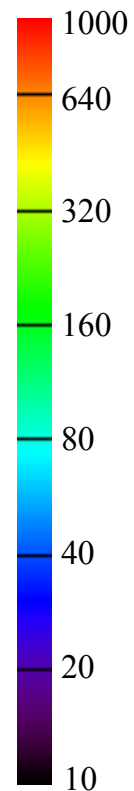


PARTICULATE ORGANIC CARBON (POC) IN THE OCEAN FROM SATELLITE REMOTE SENSING

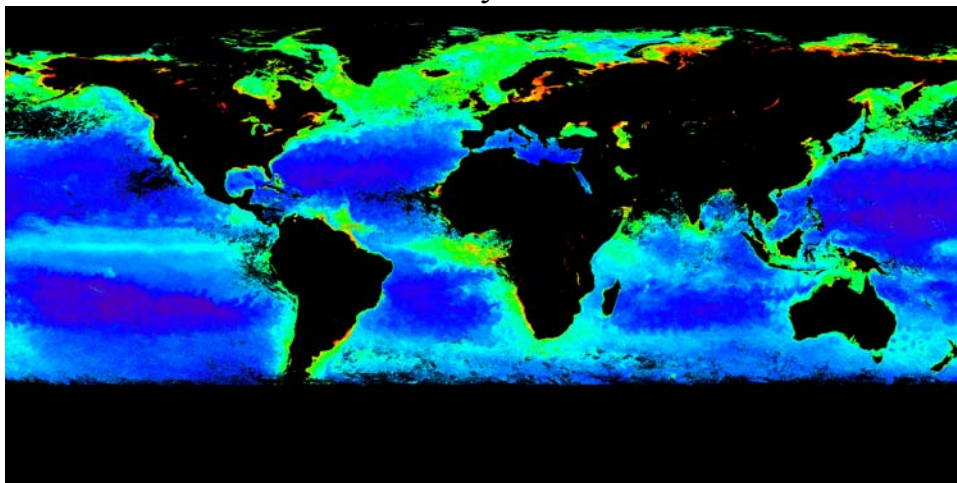
January 2005



POC
 mg m^{-3}



July 2005



Examples of first global images of surface concentration of POC in the world's oceans derived from the newly developed ocean color algorithm (Stramski et al., Biogeosciences, 2008, in press). The lowest particulate carbon pool is clearly seen in the subtropical gyres, such as the South Pacific Subtropical Gyre. The enhanced carbon pool is seen, for example, in the Southern Ocean during the austral summer (January) and in the North Atlantic during the boreal summer (July). This new satellite capability provides a unique tool that will revolutionize our ability to monitor dynamics of POC pool in the global ocean, and will improve research in carbon cycle processes and their links to climate change.