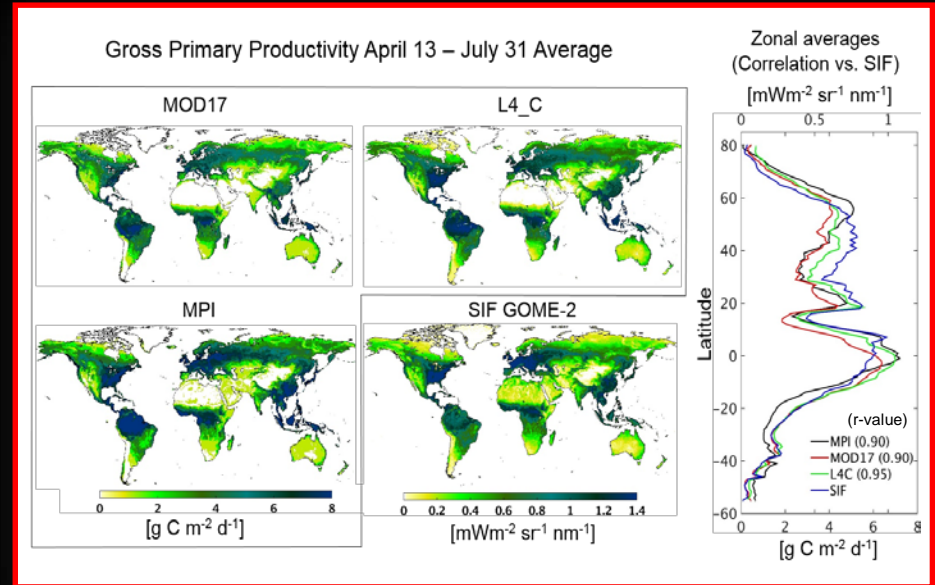
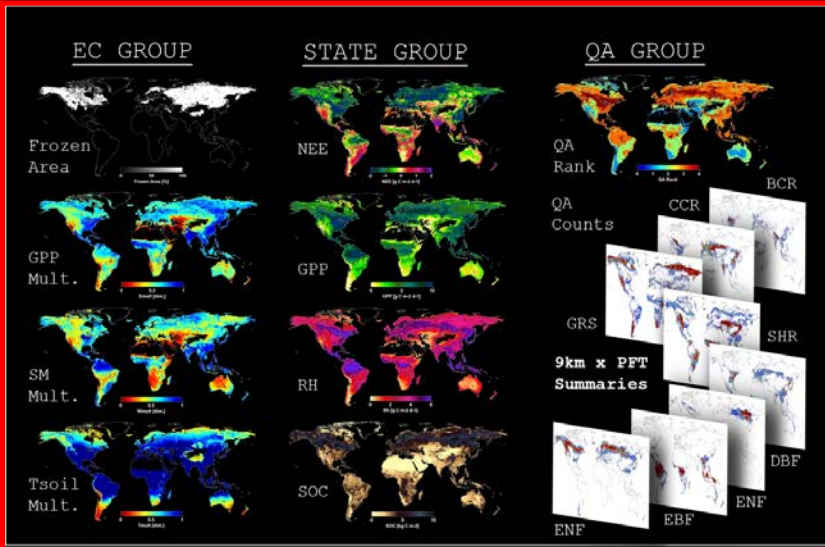


The NASA SMAP Level 4 Carbon (L4_C) Product Suite

Integrating SMAP and other satellite observations with NASA GMAO assimilation system inputs to quantify net ecosystem carbon exchange and underlying environmental controls.

Improved understanding of global carbon and climate interactions enabled by new operational daily estimates of net ecosystem CO₂ exchange and component carbon fluxes, surface soil organic carbon stocks and environmental controls (EC), with detailed data quality diagnostics at 1-9km resolution.



Initial global assessments indicate enhanced L4_C correspondence and synergy with independent carbon observations, including in situ flux towers and satellite based Solar-Induced canopy Fluorescence (SIF), relative to other available products (above).