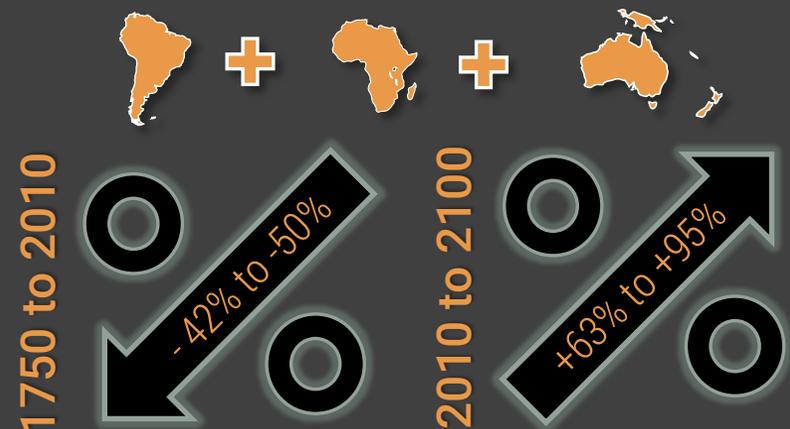
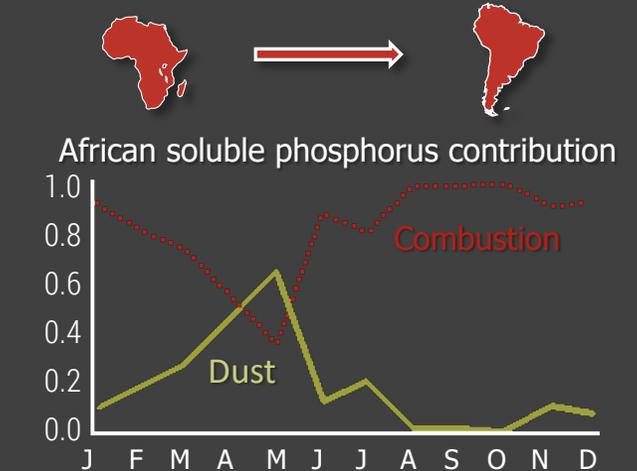


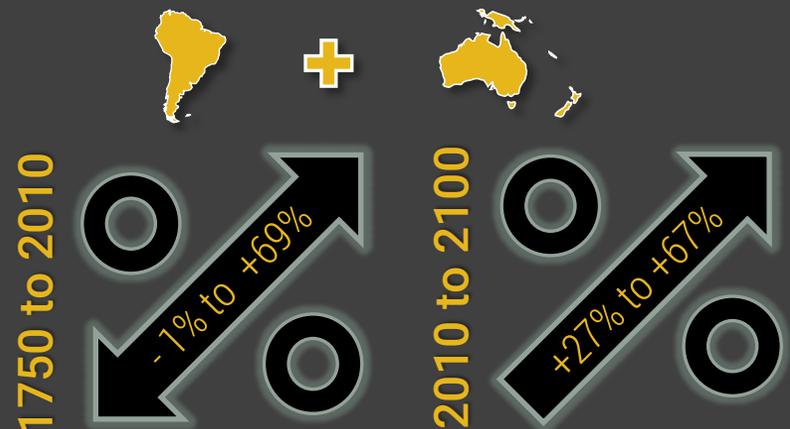
Southern Ocean soluble iron dep.¹
 driven mainly by altered fire regimes in:



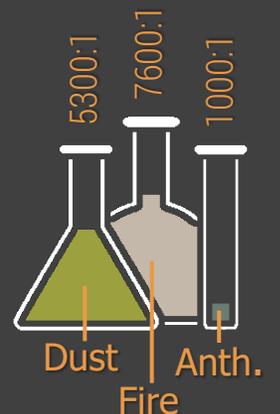
Amazon soluble phosphorus²
 combustion > dust transport



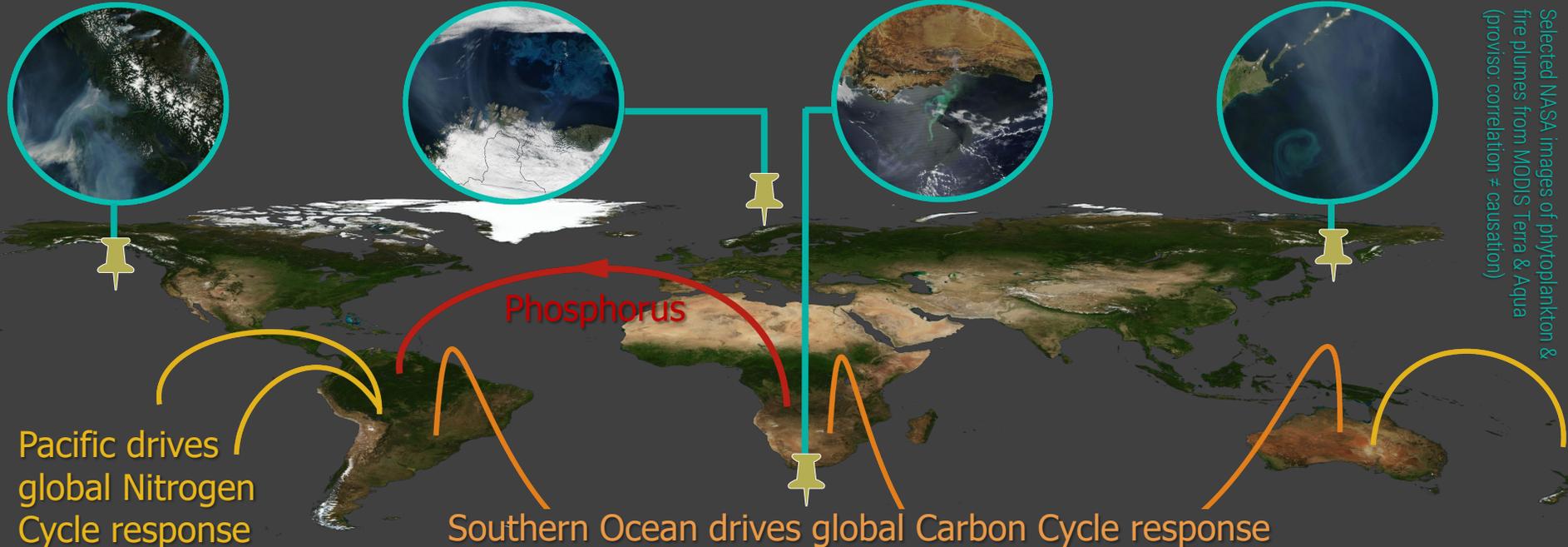
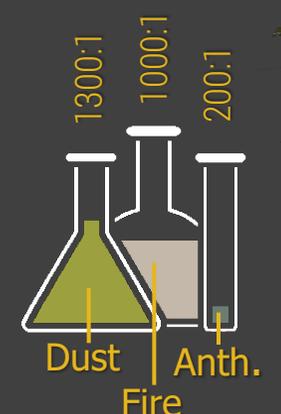
Pacific Ocean soluble iron dep.¹
 driven by altered dust & fire regimes in:



Southern Ocean Carbon Export Efficiency
 gC sequestered per gFe_{soluble}



Pacific (30S-30N) N-Fixation
 gN fixed per gFe_{soluble}



Selected NASA images of phytoplankton & fire plumes from MODIS Terra & Aqua (proviso: correlation ≠ causation)

Fires in biogeochemical cycles:

(1) Hamilton et al. (2020) Impact of Changes to the Atmospheric Soluble Iron Deposition Flux on Ocean Biogeochemical Cycles in the Anthropocene
 (2) Barkley et al. (2019) African biomass burning is a substantial source of phosphorus deposition to the Amazon, Tropical Atlantic Ocean, and Southern Ocean

