Adjective Influence on BGC In Situ Influence on BGC Eddy-pumping Stirring Mixed Layer Modulation Mixing **Ekman Pumping** Advection Iron ([dFe])MLD **Bottom-up Controls** Top-down Controls Iron limitation Grazing Pop. Specific Division Rate Population Specific Loss Rate

Biomass Inventory

 (ΣC_{phyto})

Light Limitation

 (μ_{Σ})

Net Population Growth Rate

 $(L_{\Sigma}^{I_{PAR}})$