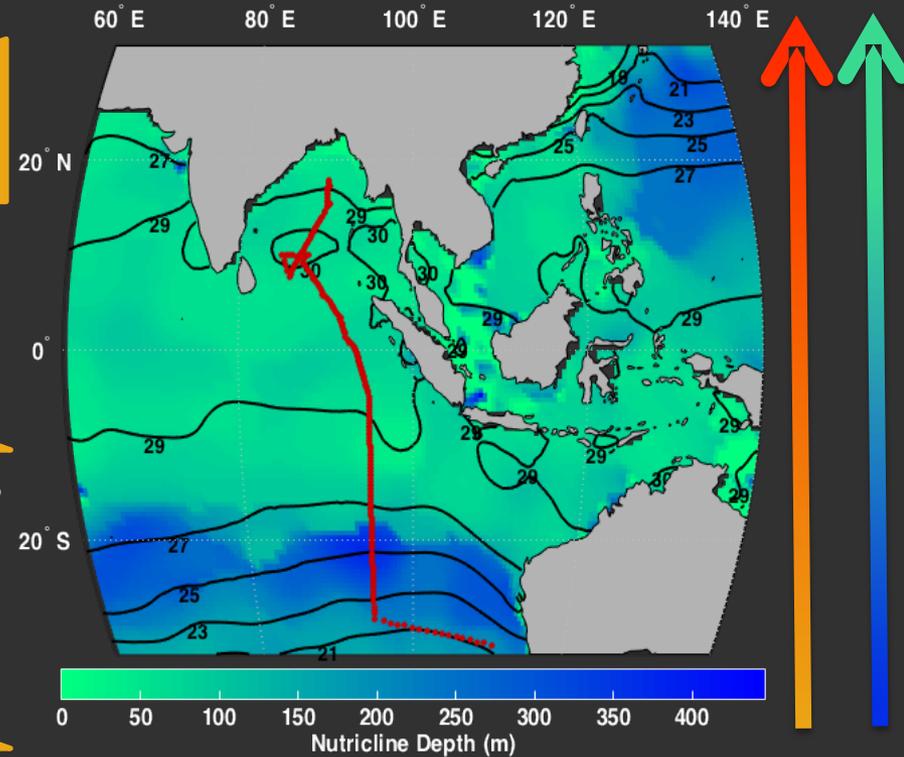
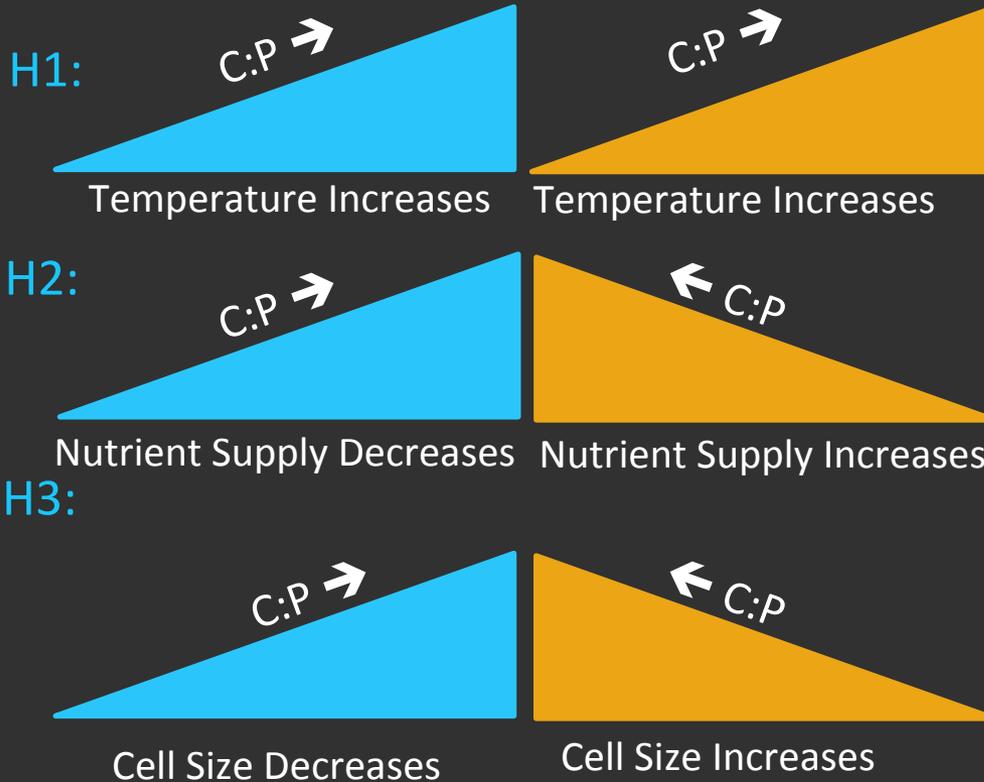


Phytoplankton Particulate Elemental Ratios: Three Competing Hypotheses

106 Carbon to 16 Nitrogen to 1 Phosphorous are modeled at constant Redfield proportions, but the surface ocean has variation in C:N:P along latitudes and between ocean basins.

Global Ocean

Eastern Indian Ocean

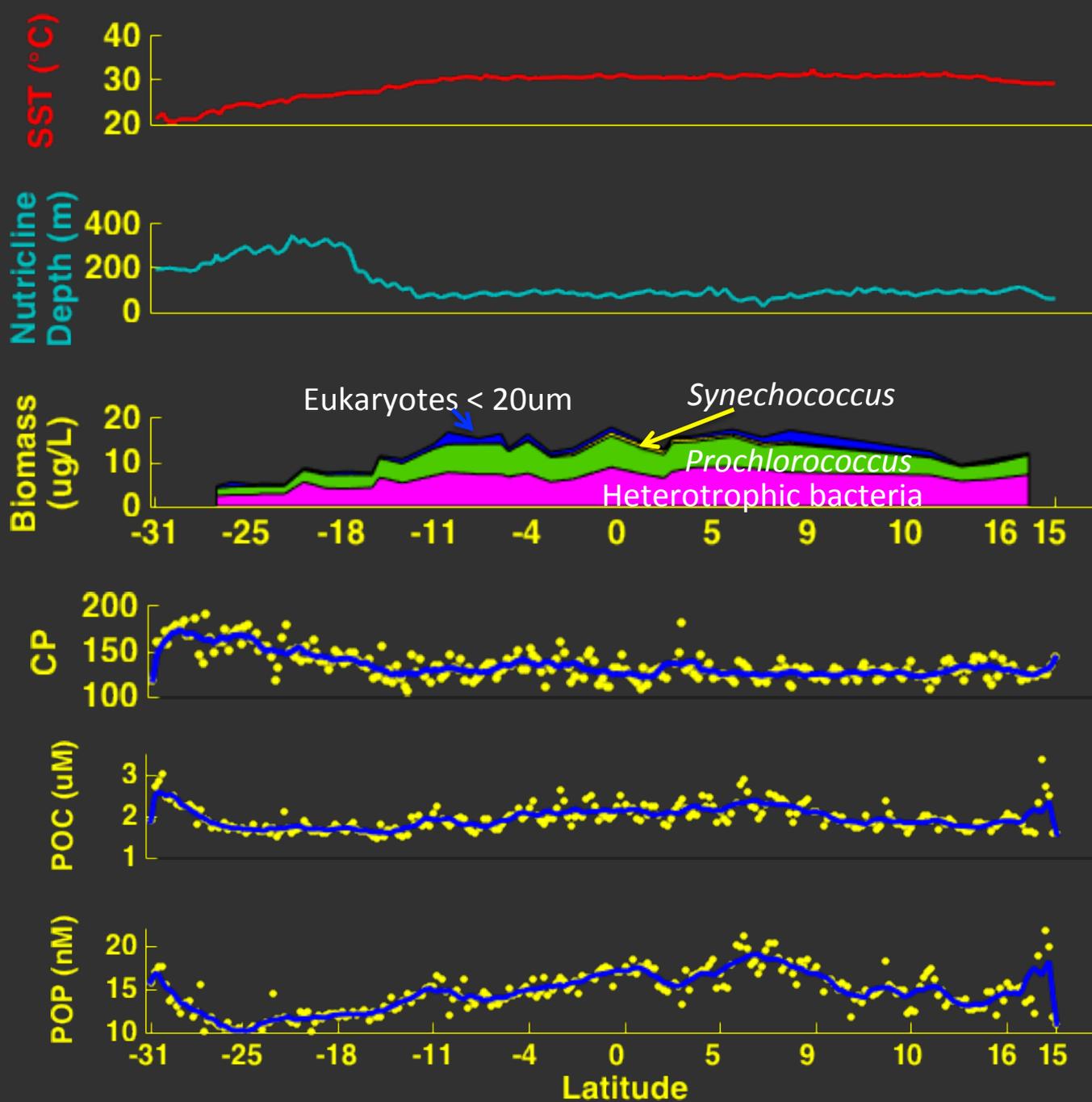


In Eastern Indian Ocean temperature & nutrient supply are both INCREASING

Diatoms

Prochlorococcus

Diatoms



Eastern Indian Ocean



Temperature Increases



Nutrient Supply Increases



Cell Size Increases

Prochlorococcus
everywhere