Flux = $F_{100}(z/100)^{-0.858}$

$F_{100} = 1.53 \text{ mol/m}^2\text{/yr}$

$PP = 22.2 \text{ g/m}^2\text{/yr}$

Martin et al. (1987)
FIG. 7. The seasonal depth profile of chlorophyll a (mg/m³).

MEUZEL + RYTHEM (1960)
Along Isopycnal trends at $\sigma_\theta = 37.0$ in the West Atlantic
A post JGOFS view of the upper ocean

New Production (f) is now NO$_3$ and N$_2$ fixation

Different size classes associated with New and 1° Prod

Role of Bacteria is important in remineralization (and 1° prod?)

Export Production (e) is now both sinking of POM and mixing of DOM
Figure 11. Horizontal distribution of $N^*$ at 200 m in the Pacific Ocean based on the 1° gridded nutrient data of Conkright et al. [1994].
\[ \text{Eff}_{\text{BioPump}} = \frac{C_D - C_S}{C_D} \]