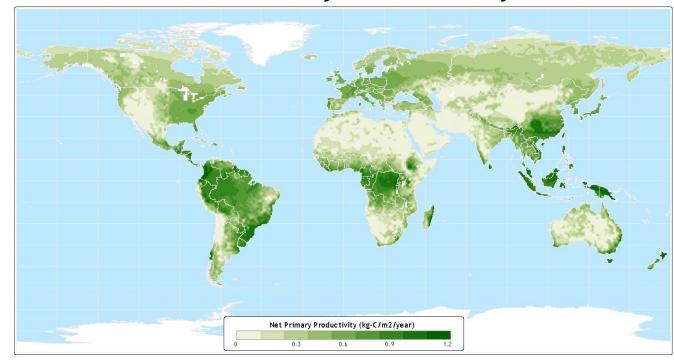
3.3 Nutrient Limitations

<u>Primary Productivity</u>:

the rate at which organic matter is made available by the growth of producers (expressed as biomass)

Net Primary Productivity



Data taken from: IBIS Simulation (Kucharik, et al. 2000) (Foley, et al. 1996)

Atlas of the Biosphere

Center for Sustainability and the Global Environment
University of Wisconsin - Madison

<u>Limiting nutrient</u>: a single nutrient (like N or P) is scare within an ecosystem and limits the growth of organisms



Ecosystems that receive excess amounts of limiting nutrients will become imbalanced.

Algal blooms: the excess growth of algae in freshwater systems which can lead to decreases in oxygen

Nutrient Pollution EPA