

World Net Primary Productivity (Rounded Estimates)				
Ecosystem	NPP (g m <sup>-2</sup> y <sup>-1</sup> )	World NPP (x10 <sup>15</sup> g y <sup>-1</sup> )	Biomass (g m <sup>-2</sup> )	World Biomass (x10 <sup>15</sup> g )
Desert	50	2	720	15
Grassland, etc.	500	25	4000	125
Cultivated Land	1000	10	1000	14
Moist Forest	1000	40	30,000	900
Tropical Forest	2000	40	45,000	750
LAND TOTAL		177		1804
Estuaries	2000	4	1500	2.6
Continental Shelf	500	10	20	.3
Open Ocean	100	40	3	1.0
MARINE TOTAL		54		3.9
World NPP = NPP × ∑Area World Biomass = Biomass × ∑Area				



All photos taken from the National Oceanic and Atmospheric Administration at: http://www.noaa.gov/.







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Figure by MIT OCW.



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## Blue Planet DVD Three weeks in the life of a Marine Food Web

Think About:

- The massive amount of energy and carbon the phytoplankton must be processing to support such a diversity and biomass at higher trophic levels
- How the information in DNA could be controlling all of these complex processes