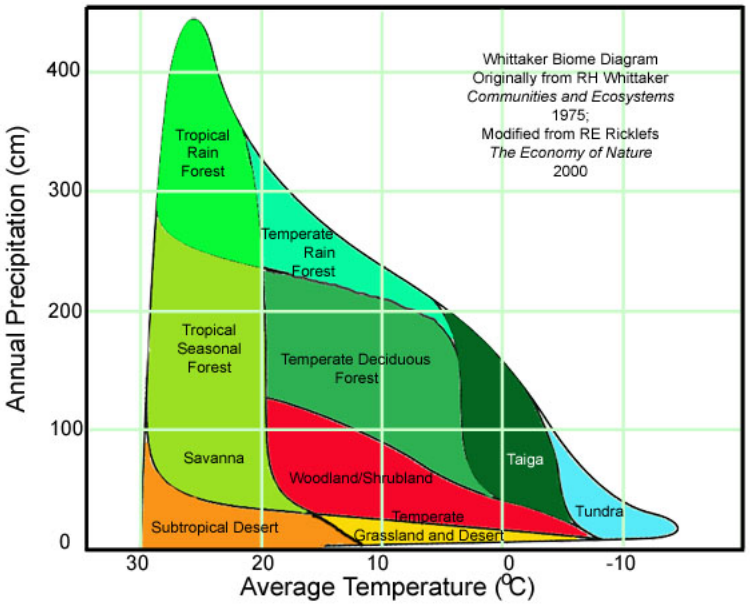
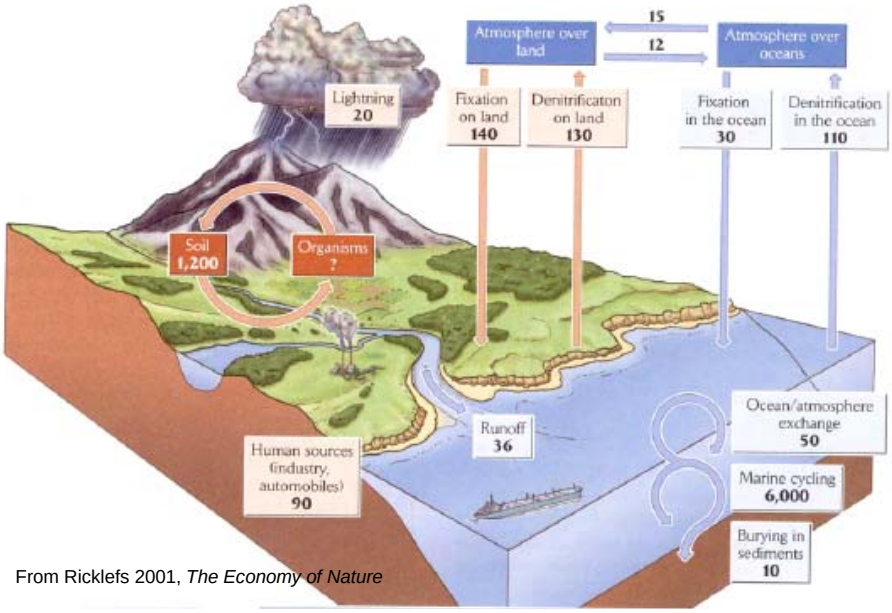
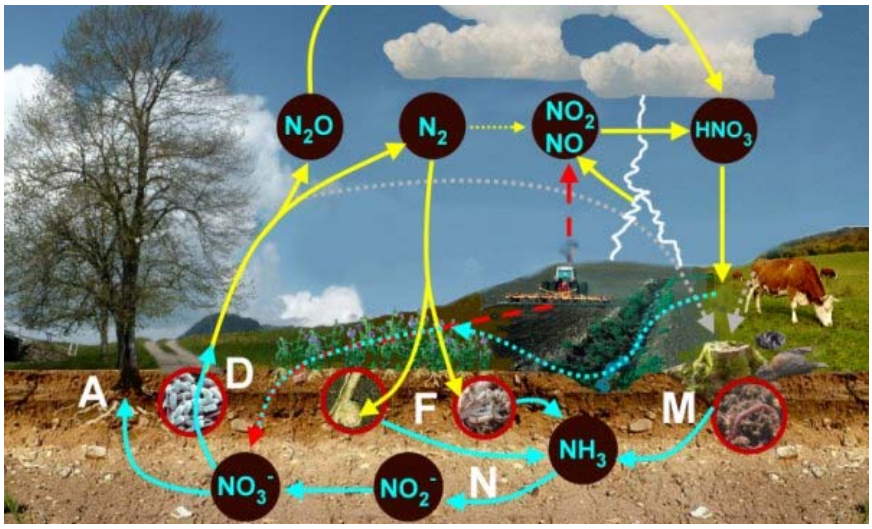


Nitrogen Cycle



From Ricklefs 2001, *The Economy of Nature*



The nitrogen cycle: A = Assimilation by plants, F = Fixation of nitrogen by bacteria either in symbiosis with plants or by free living bacteria in the soil, N = Nitrification, D = Denitrification, M = Mineralisation Scheme: Elmar Uherek

Source: www.atmosphere.mpg.de/media/archive/8279.jpg

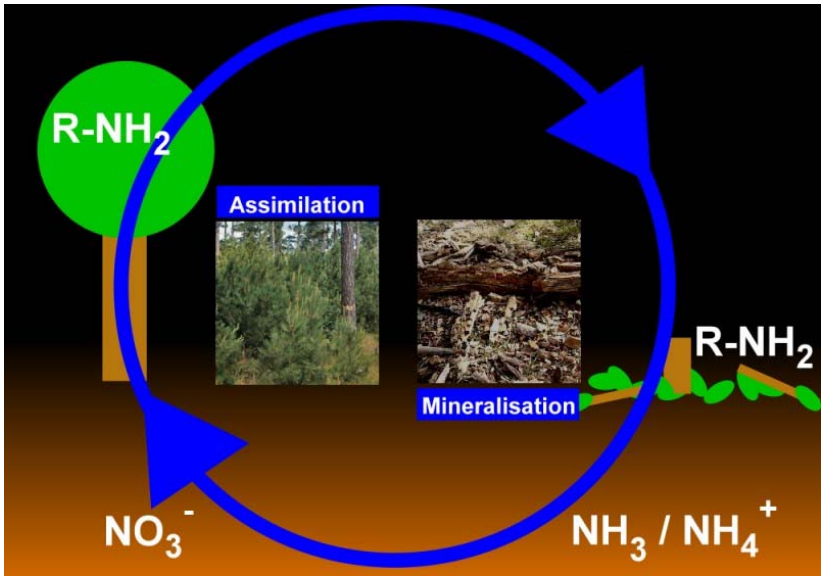


Image: Elmar Uherek www.atmosphere.mpg.de/media/archive/8275.jpg

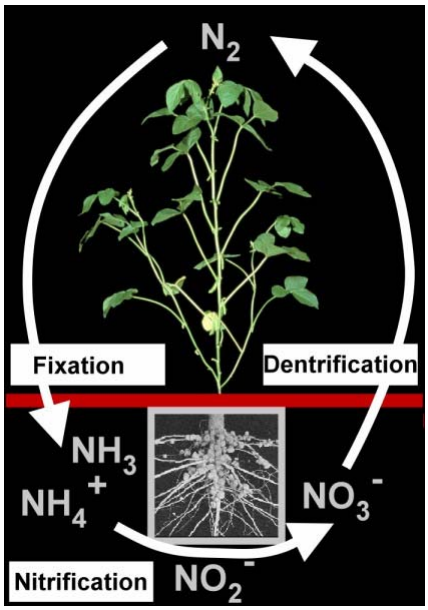


Image: Elmar Uherek www.atmosphere.mpg.de/media/archive/8275.jpg

Phosphorous Cycle

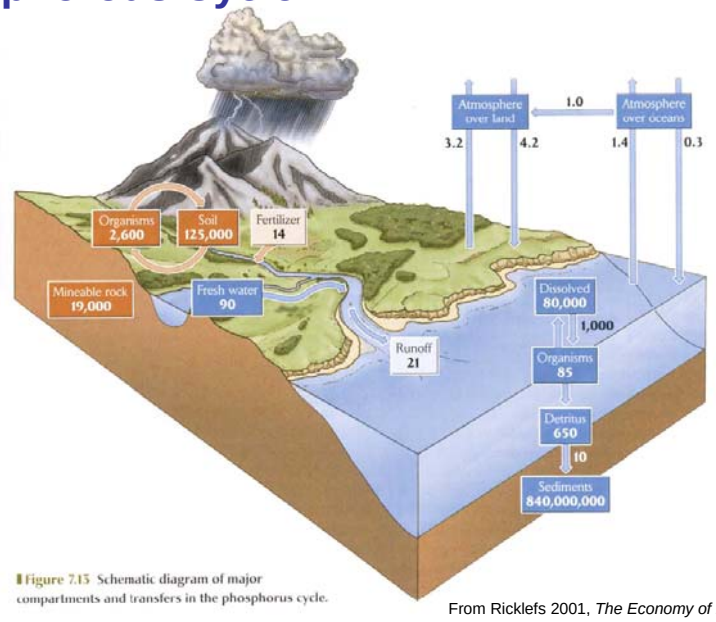


Figure 7.15 Schematic diagram of major compartments and transfers in the phosphorus cycle.

From Ricklefs 2001, *The Economy of Nature*

Eutrophication -
Too much of a good thing!

The dramatic appearance of a red tide algal bloom at Leigh, near Cape Rodney. (Photo: M. Godfrey)