1. A tree is made of air, mostly. Discuss

2. The accompanying figures show (1) ocean surface color (for August 1997, exaggerated color, with greens and reds showing high chlorophyll; from the SeaWiFS satellite) and (2) ocean surface height.

   Describe the relationships between these figures: how does ocean circulation relate to plant life in the sea? How might the steady increase in carbon dioxide in air and sea affect this picture?

3. Describe some of the ways that the water molecule makes plant life on Earth possible, including the specific process of photosynthesis. (Give some specific detail.)

4. “An idea, a relationship, can go extinct just like an animal or plant. The idea in this case is nature…the world apart from man.” Is McKibben saying here that humans are now so strong and numerous that they manage nature as one domesticates cows and cats? Explain.
Figure 1. 1992–2002 mean absolute sea level $\eta_0$ obtained as described in this paper. Contour interval is 10 cm. Sea level is computed from the values of $\nabla(\eta)$ estimated according to (2) on 1° spatial grid with the condition of zero global mean.