

**Earth's Energy Balance: Climate Change Workshops**

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We are developing a progressive series of workshops for calculating Earth's radiative energy budget in a climate change classroom. A solar physicist and a biological oceanographer will co-teach an integrated undergraduate program in fall 2006. In "Fire and Water", teams of students will analyze classical and open questions to better understand mechanisms regulating Earth's climate. What would Earth's equilibrium temperature be without a greenhouse effect? What is the effect of clouds on the atmospheric radiation budget? How does inclusion of ocean and ice albedo change this equilibrium? How do variables such as plankton and temperature contribute to changes in albedo? How can effects of the biosphere be quantified for radiation budget calculations? We hope to include data and methods from this meeting in some of our more advanced workshops.