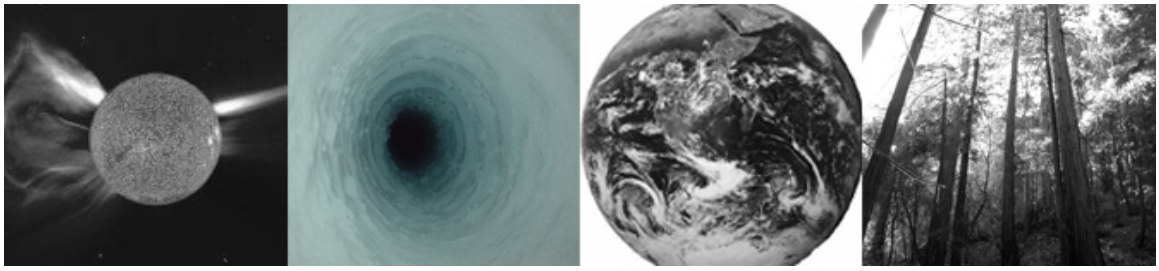
Environmental Sciences And CREATE Seminar Series



Cross-cutting networks for carbon-cycle monitoring

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Carbon dioxide monitoring networks (NCAR's RACCOON, Penn State's Ring2, Wisconsin's ChEAS) provide near real-time monitoring of the North American landscape. These collective stations make high-precision, high accuracy measurements of well-mixed CO_2 representing much larger footprints than eddy covariance towers. Over the past few decades CO_2 observations from these networks have been used to study large domain changes in the terrestrial biosphere. Recently environmental threats caused by known and unexpected agents (diseases, wildfires) have become a priority that has intensified interest in high-precision atmospheric CO_2 networks, which are one of few ways to monitor carbon-cycle effects at large domain scale.

This talk is a description of how these large-scale CO_2-monitoring networks function as well as a discussion of how a new study is quantifying the effects of disturbances on the carbon cycle in the U.S. Mountain West by fusing observations with back trajectory modeling

All are welcome.
Thursday, **October 3rd,** 2013
1:15 – 2:05PM
Physical Sciences Centre 2045

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