

SYNERGIES IN EARTH SYSTEM ASSIMILATION

SPEAKER: DR. KEVIN BOWMAN
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DECEMBER 14, 2011
11.00 AM-12.00 PM, 233-305E

We have completed a successful Climate Center colloquium series that has increased the visibility of data assimilation at JPL and its application to oceans, ice-sheet, hydrology, meteorology and atmospheric composition. This wrap-up Colloquium will bring together what we have heard in previous talks and involve a round-table discussion about potential collaborations and future developments. The three main areas for discussion are: 1) Assimilation across Earth System "boundaries"; 2) Assimilation methods; and 3) Multi-scale and nested assimilation/modeling.



Dr. Kevin Bowman is Deputy Principal Investigator of the Tropospheric Emission Spectrometer onboard NASA's AURA satellite. His research uses satellite data to constrain general circulation and chemical transport models through the use of optimal state estimation (data assimilation) techniques. Dr. Bowman is focused on the development of these techniques to better understand processes controlling ozone and their impact on air quality and climate, providing "top-down" constraints on carbon dioxide fluxes, and creating a framework to reduce uncertainty in the climate response to anthropogenic forcing.



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