

ATS/CIRA Colloquium

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Hosted by Jeff Collett

**Land-Use and Land-Cover Change Impacts
on Regional Climate**

Friday, September 12, 2014

**ATS room 101; Discussion will begin at 11:15am
Refreshments will be served at 10:45am in the weather lab**

Land-Use and Land-Cover (LULC) change is a forcing factor that is of importance to regional climate. However, LULC change impacts exhibit substantial geographical variation and complex interactions with other forcing factors. This talk will focus on LULC change process studies (observational and numerical modeling analysis) in a variety of settings including isolated mountain in the tropics (Kilimanjaro), semi-arid regions with small terrain variations (Southwest Australia, Niger) and maritime Southeast Asia. Modification of atmospheric circulation ranging from micro scales to synoptic scales, cloud formation and rainfall due to LULC change and complex interactions with other forcing factors will be discussed.

Link to colloquium videos and announcement page: <http://www.atmos.colostate.edu/dept/colloquia.php>