

**SSEC/CIMSS
Seminar**

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**UAV observations of the wintertime boundary
layer over the Terra Nova Bay polynya**

In September 2009, eight unmanned aerial vehicles (UAVs) were flown over Terra Nova Bay, Antarctica, with the purpose being to collect three dimensional measurements of the boundary layer overlying a wintertime open water polynya. The UAV flights over Terra Nova Bay have provided the first ever measurements of the convective layer during the crucial winter time period, which has led to the first examination of the ice surface state through digital photographs, as well as the first calculated sensible, latent, and momentum fluxes over the Terra Nova Bay polynya from in situ measurements. This presentation will provide an overview of the flights as well as a discussion of the ice surface state and preliminary flux calculations in the region.

Friday, 20 May 2011

10:00 a.m.

Room AOSS 351