

STANFORD UNIVERSITY
DEPARTMENT OF STATISTICS
DEPARTMENTAL SEMINAR

4:15 p.m., Tuesday, October 12, 1999
Sequoia Hall Rm. 200
(Cookies at 3:45 in 1st Floor Lounge)

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CHALLENGES IN UNDERSTANDING THE ATMOSPHERE

Atmospheric science provides a rich area for statistics due to the range of temporal and spatial scales of geophysical processes. This overview gives examples of three different areas where statistics is important: developing parameterizations and analyzing output of general circulation models, combining data and model output for weather forecasts and using model output to predict clear air turbulence. This range of problems also suggest some new areas for statistical research in nonlinear times series, high dimensional models, and flexible discriminant analysis.