

Atmospheric Sciences 5700

Exercise #5

This exercise is about severe weather parameters.

1. Pick one of the four types of parameters described on EXPLANATION OF SPC SEVERE WEATHER PARAMETERS:
 - (a) Instability Parameters
 - (b) Deep Layer Wind Shear Parameters
 - (c) Storm-Relative Winds
 - (d) Composite CAPE/Shear Parameters
2. For your set of parameters, describe:
 - (1) the various parameters that are relevant (and listed),
 - (2) the results of statistical studies for indicating the likelihood of various levels of severe weather using a subset of these parameters and presented in graphical form on the web page,
 - (3) your own conclusions about the usefulness of parameters considered predicting severe weather.
3. Locate and present an example from an operational page on the SPC site that presents maps of the parameters considered, for current or forecast conditions.
4. Present your results to class on Tuesday, March 23 (parameter sets 1 and 2) or Thursday, March 25 (parameter sets 3 and 4).