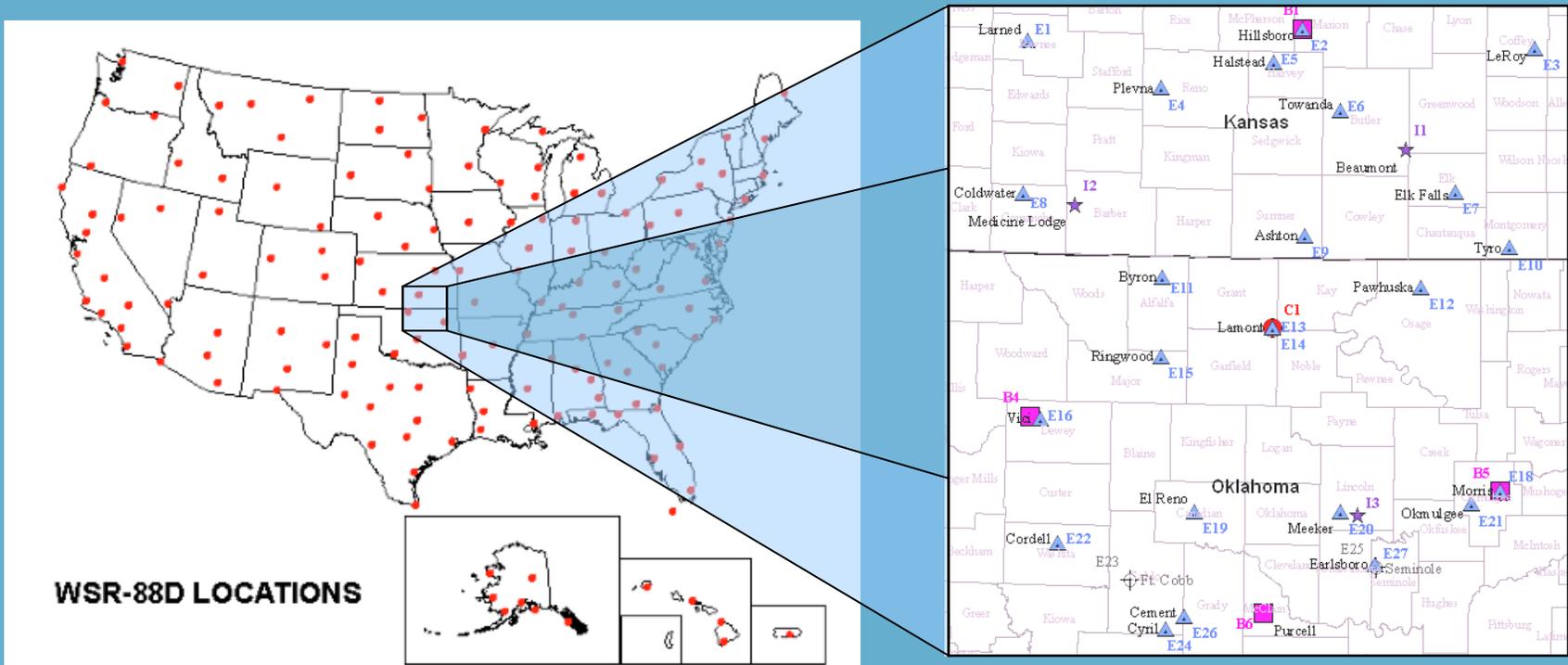


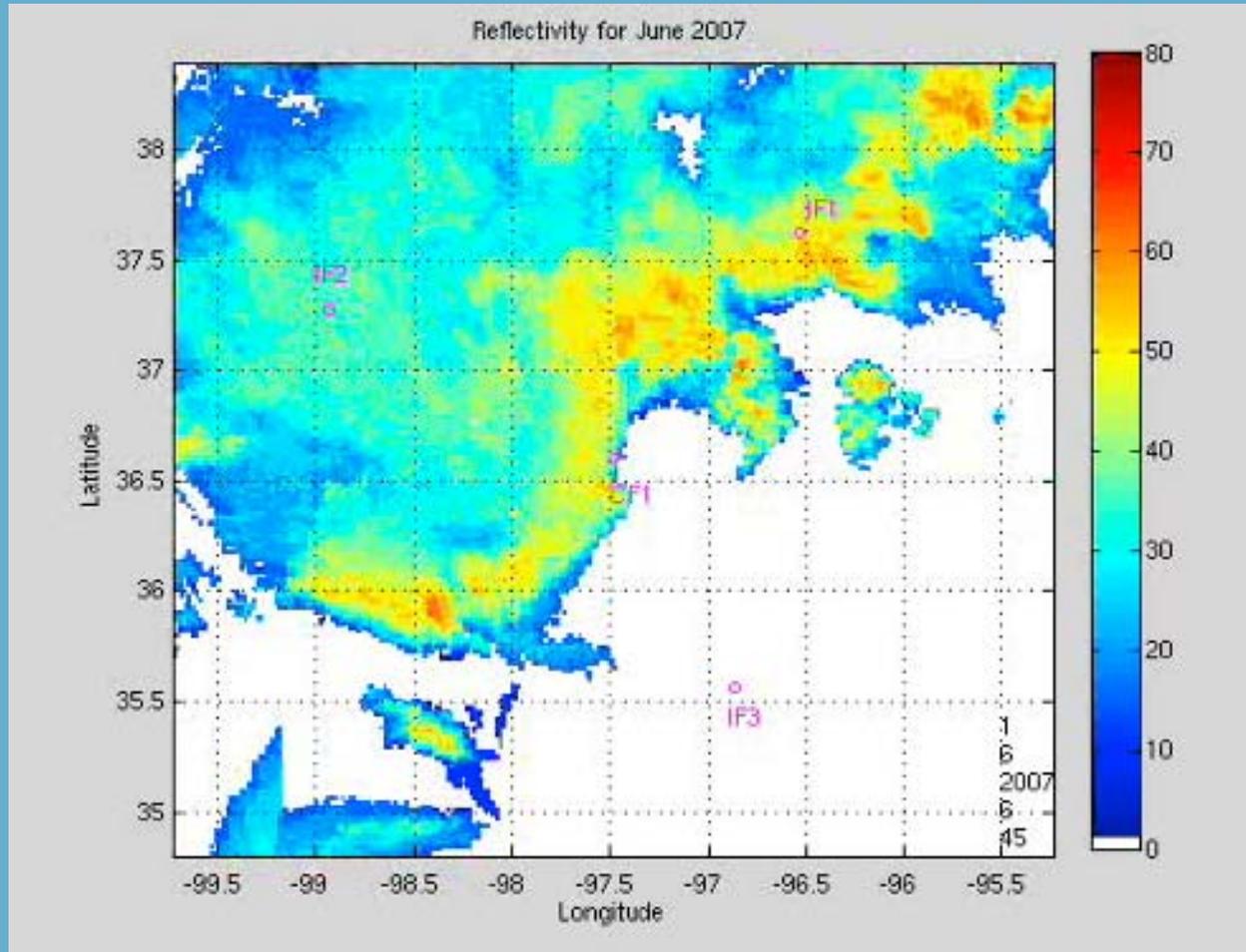
Gridded WSR-88D data over the ARM SGP central facility



Samuel Lindauer and Pavlos Kollias
McGill University

Gridded WSR-88D data during CLASIC

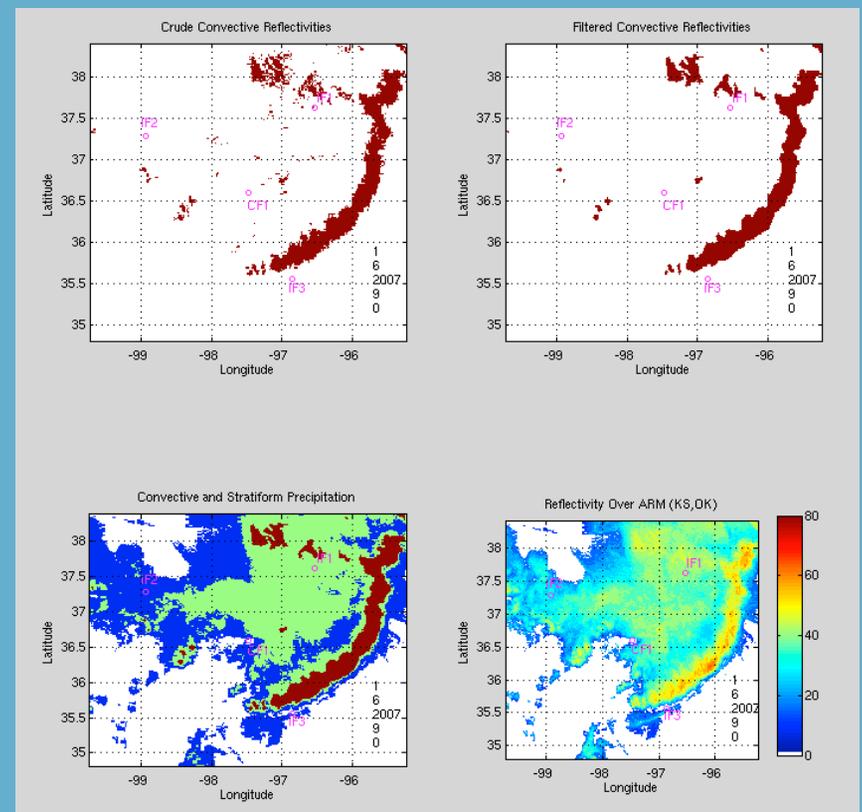
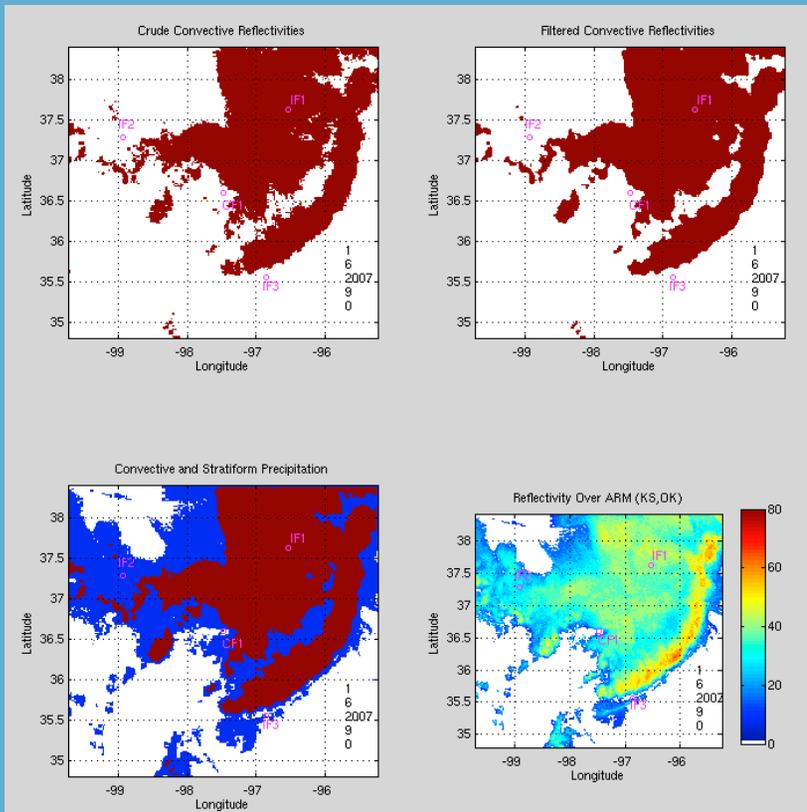
2X2 km
15 min
1-level



Simple classification of the radar echoes

35 dBZ

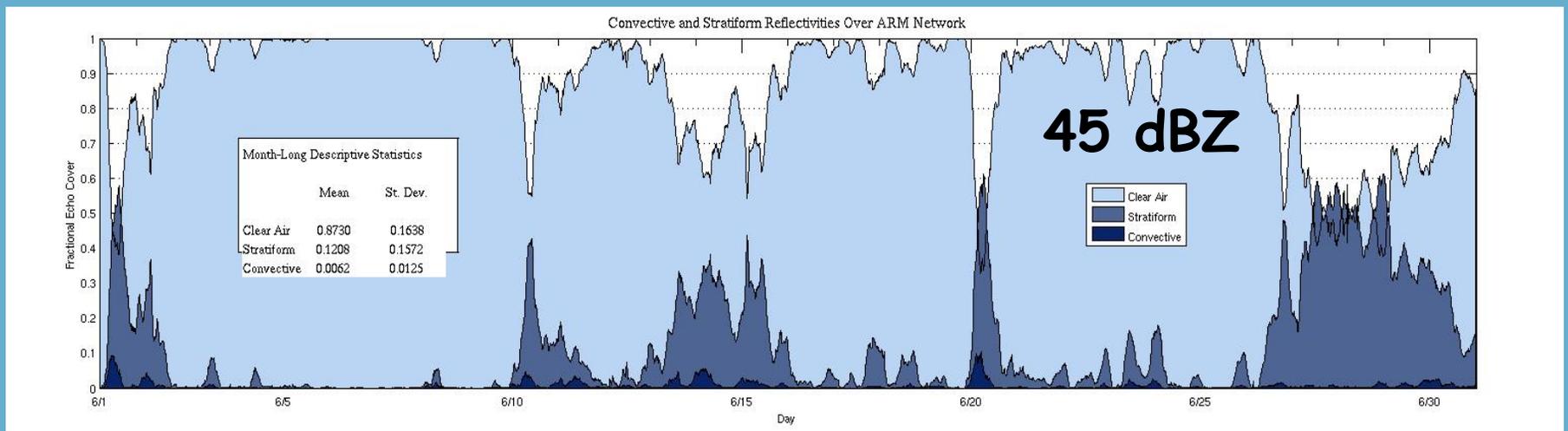
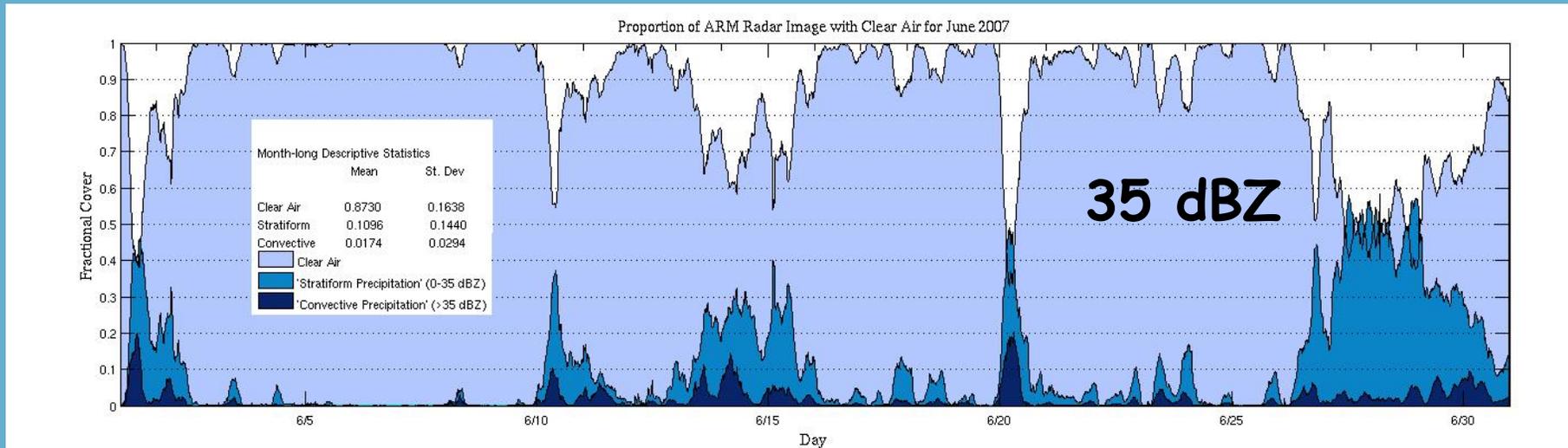
45 dBZ



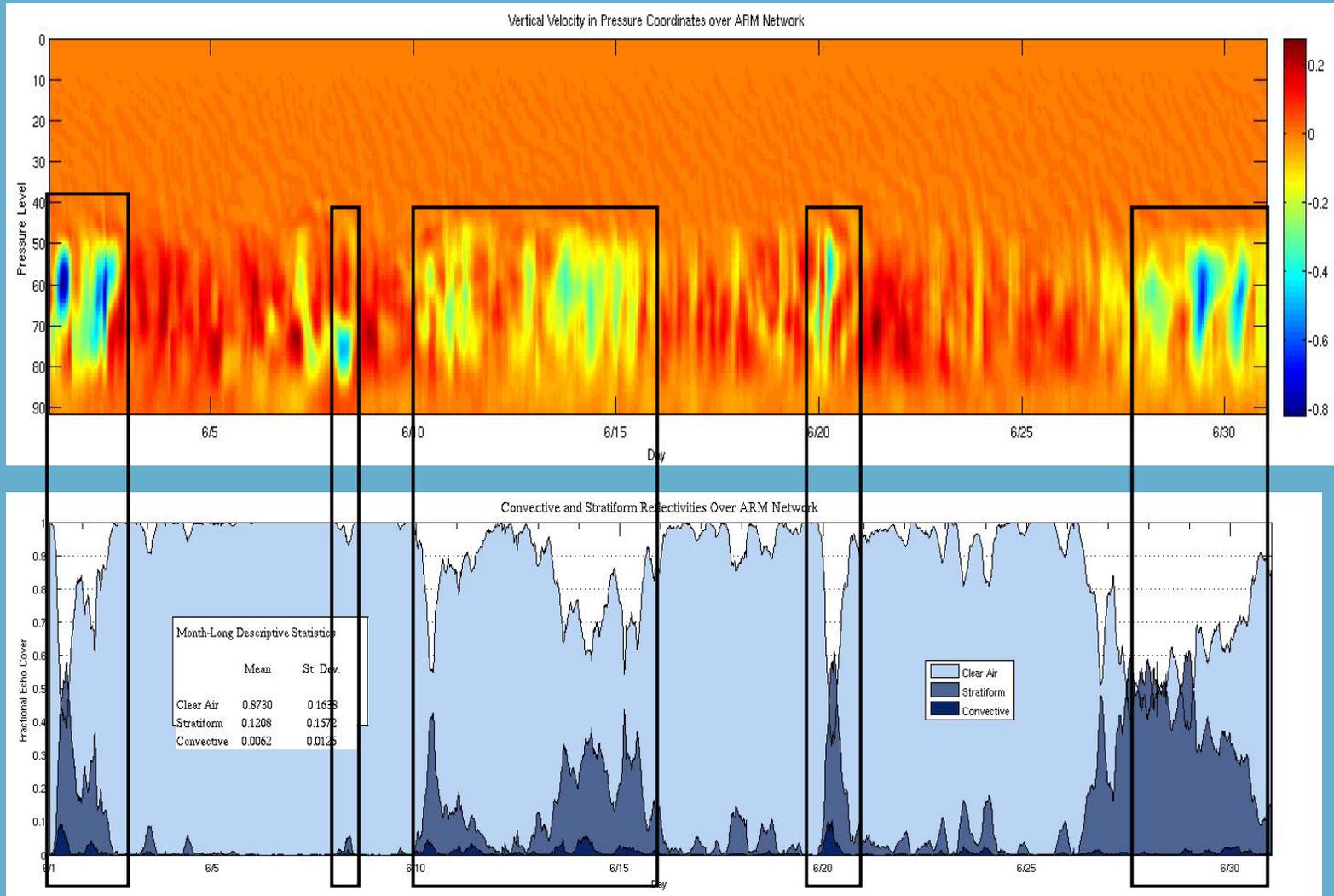
Fractional coverage of precipitation echoes

Above 35 dBZ: 13.7%, Below 35 dBZ: 86.3%

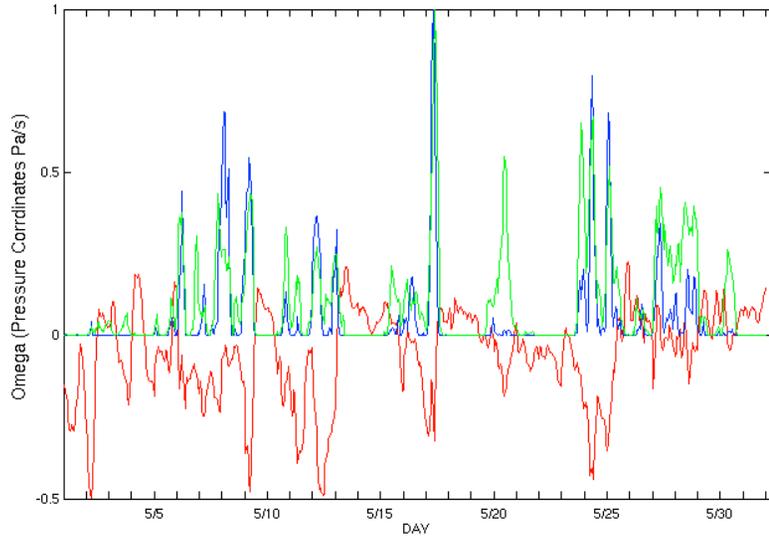
Above 45 dBZ: 4.9%, Below 45 dBZ: 95.1%



Comparing with Omega from ECMWF Forecast Model

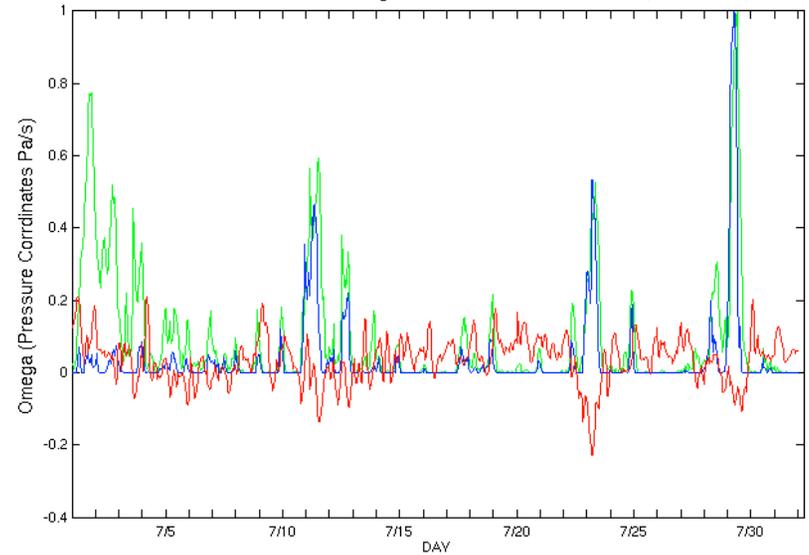


ECMWF Modeled Omega and Rain Presence for May 2002

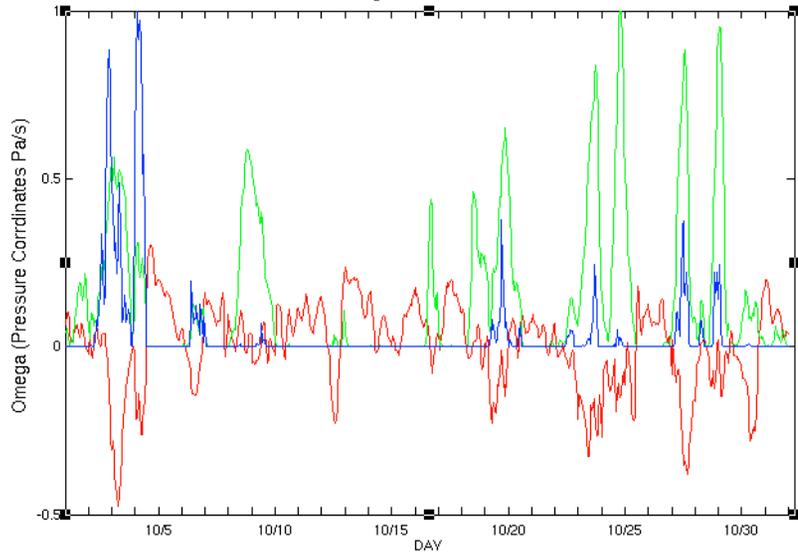


Yearly Variation in Omega, Rain

ECMWF Modeled Omega and Rain Presence for July 2002

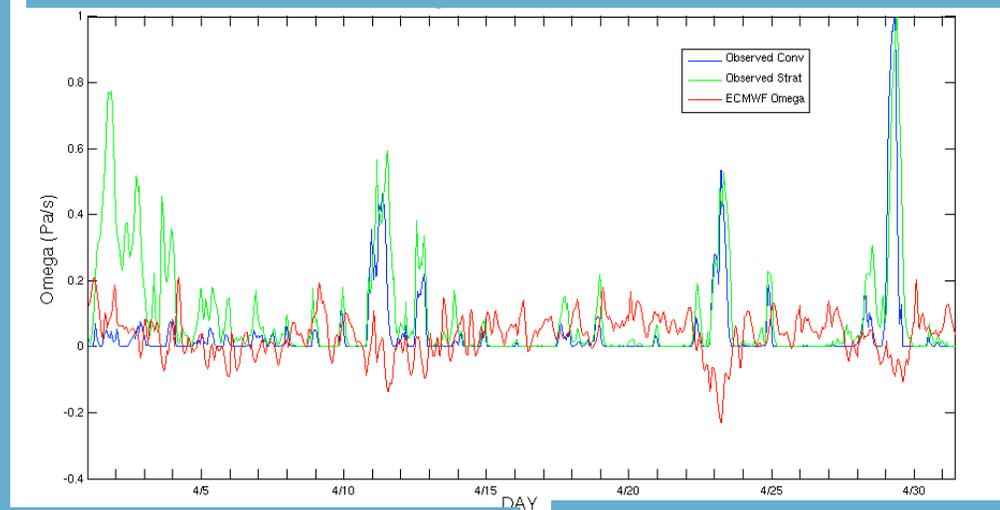


ECMWF Modeled Omega and Rain Presence for Oct 2002

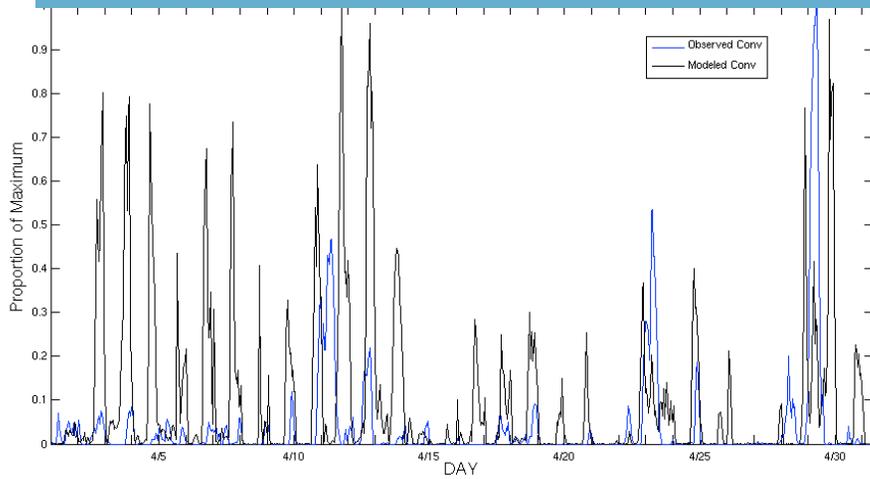


Week correlation during the summer

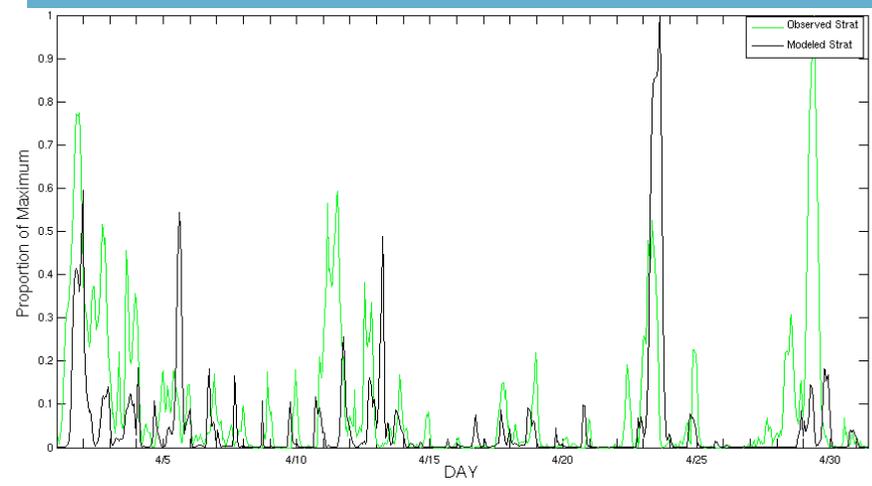
ECMWF Modeled Omega and Actual Presence of Rain for July 2002



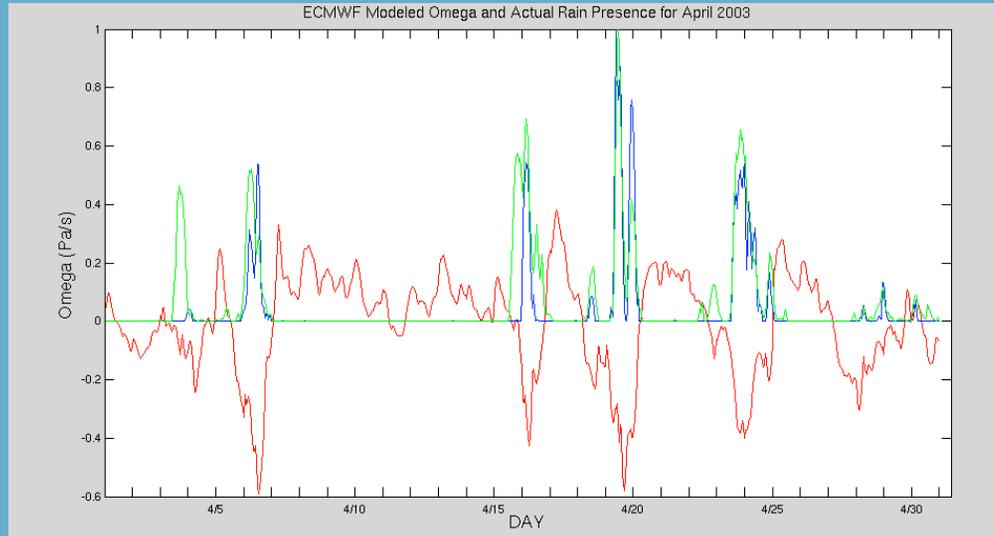
Relative Modeled and Observed Convective Rain for July 2002



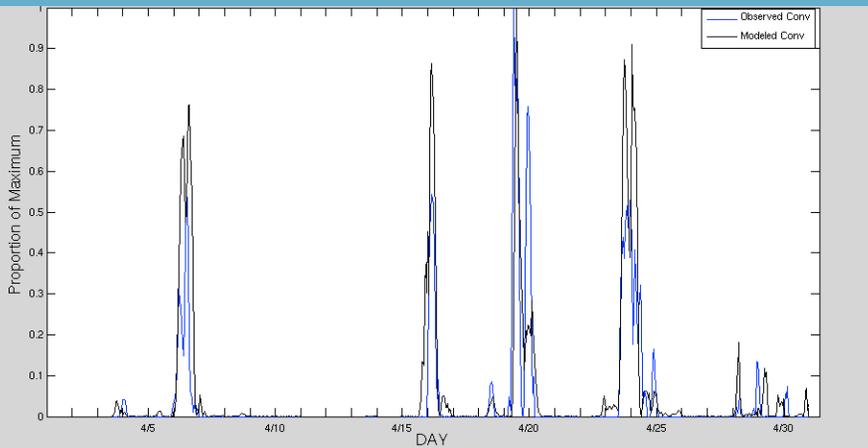
Relative Modeled and Observed Large-Scale Rain for July 2002



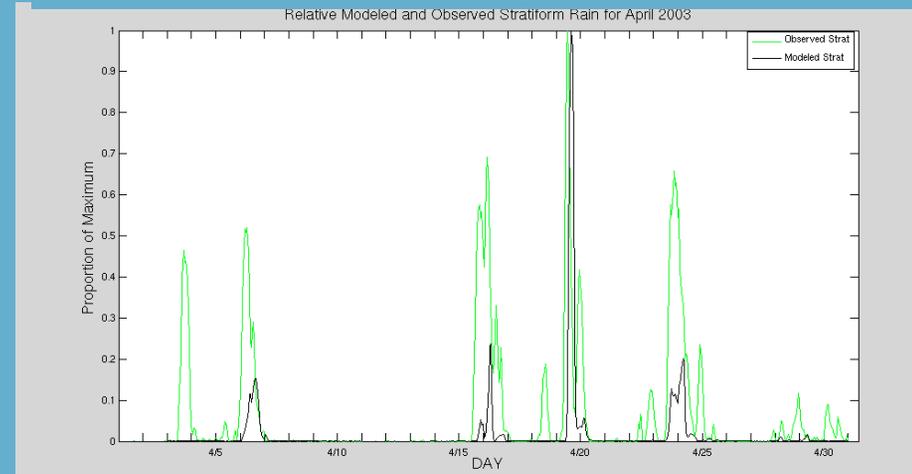
Better correlation in Winter/Spring Months



Relative Modeled and Observed Convective Rain for April 2003

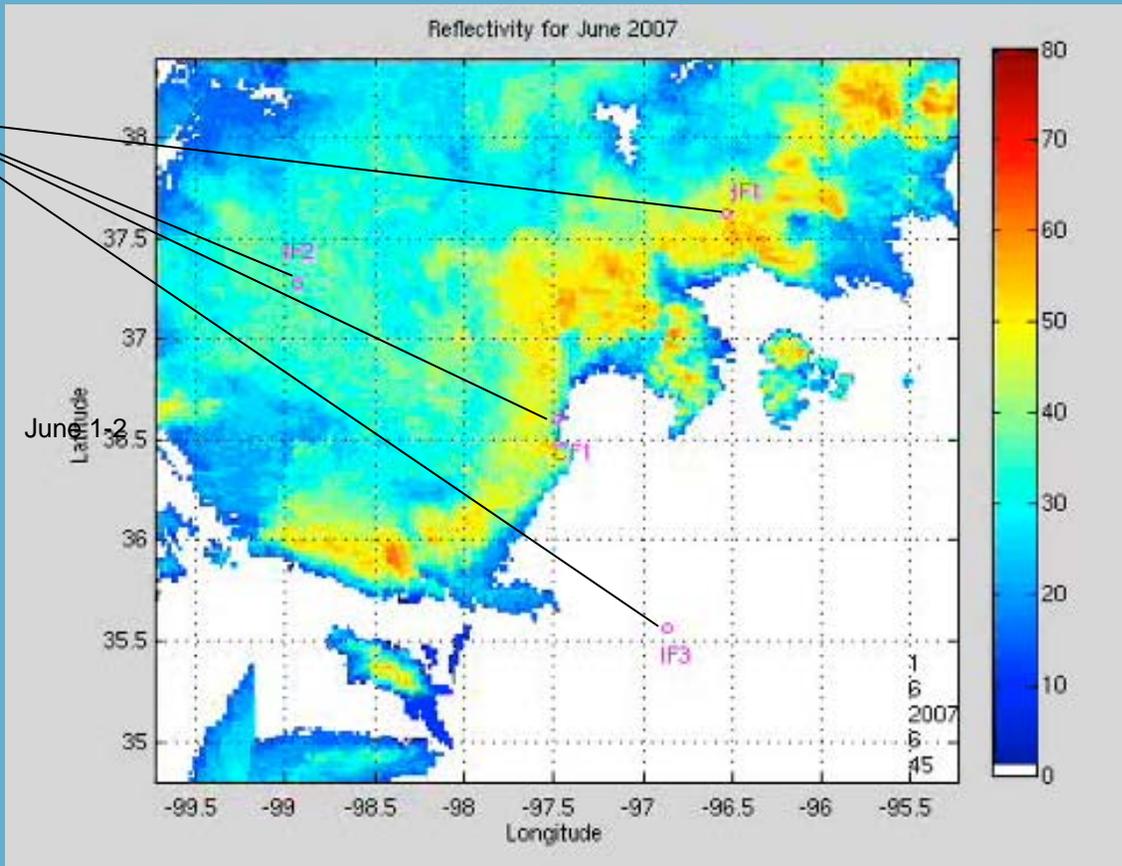


Relative Modeled and Observed Large-Scale Rain for April 2003

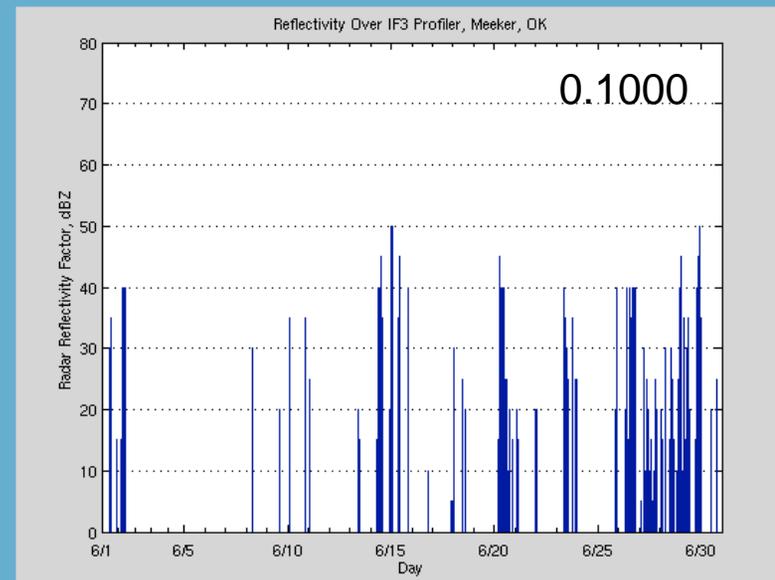
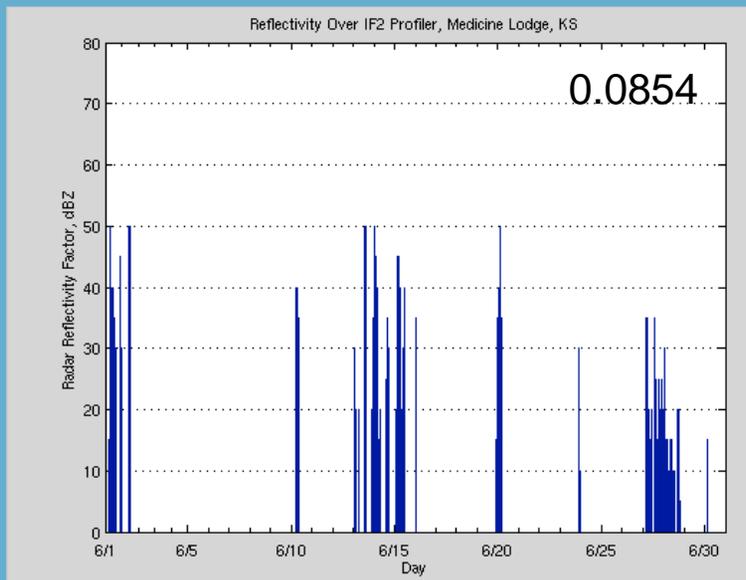
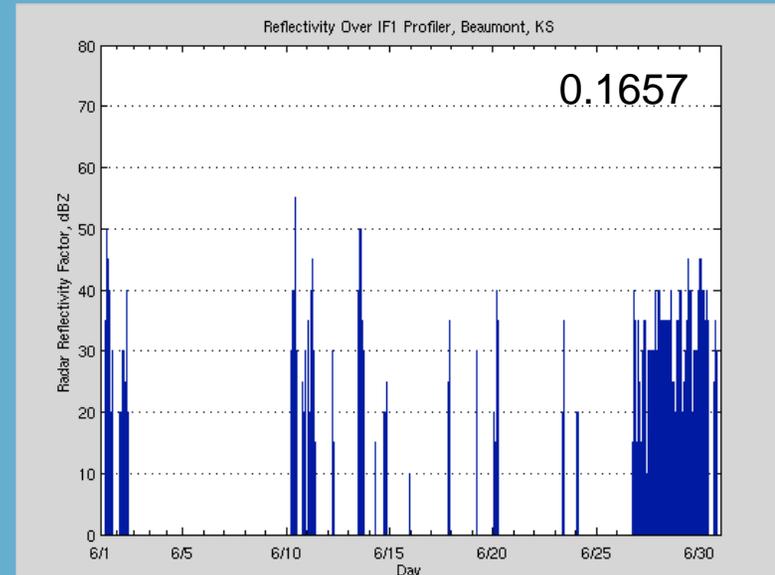
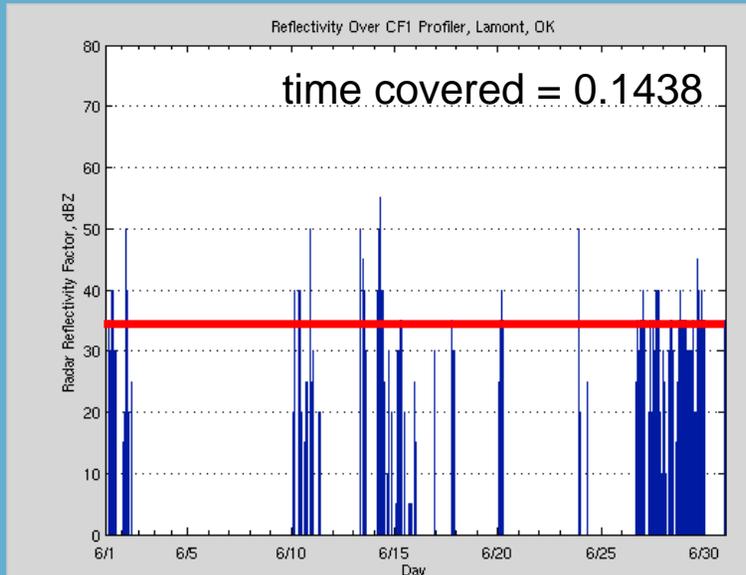


Extract the WSR-88D over the ARM wind profilers locations

Profiler Sites:
Lamont
Beaumont
Medicine Hat
Meeker



Reflectivity Time-Series Over Four Southern Great Plains Profilers



Summary

- Data set available from 1996
- Netcdf files with the gridded data have been produced - ready for submission as PI product
- 300 MB/month
- Continue work on model evaluation using the data set.