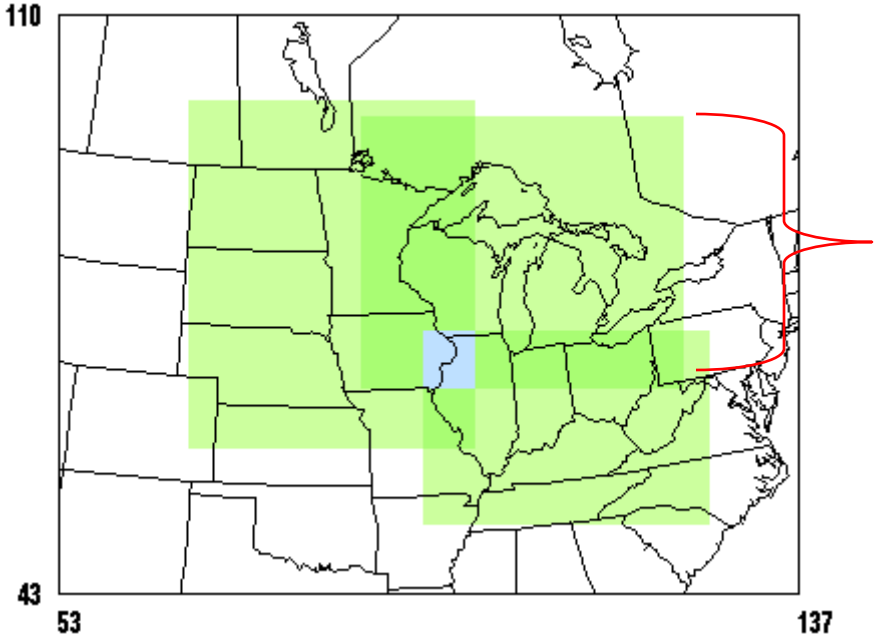
MM5v3.5 Modeling for PM/Haze

Kirk Baker
Midwest RPO / LADCO

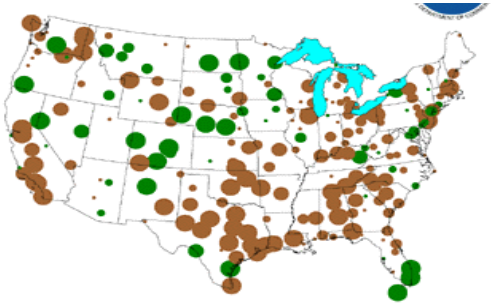


Metrics based on Great Lakes model performance sub-region (~280 stations)

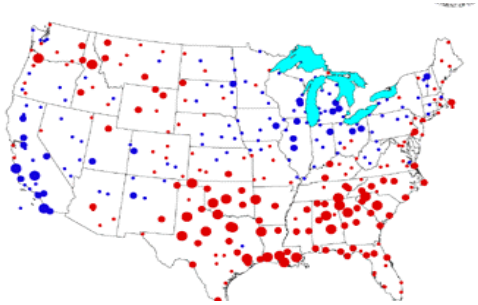
- PX LSM, RRTM, Simple Ice, Kain-Fritsh
- ETA 3 hourly initialization
- FDDA on above PBL

1999 Episode Problems

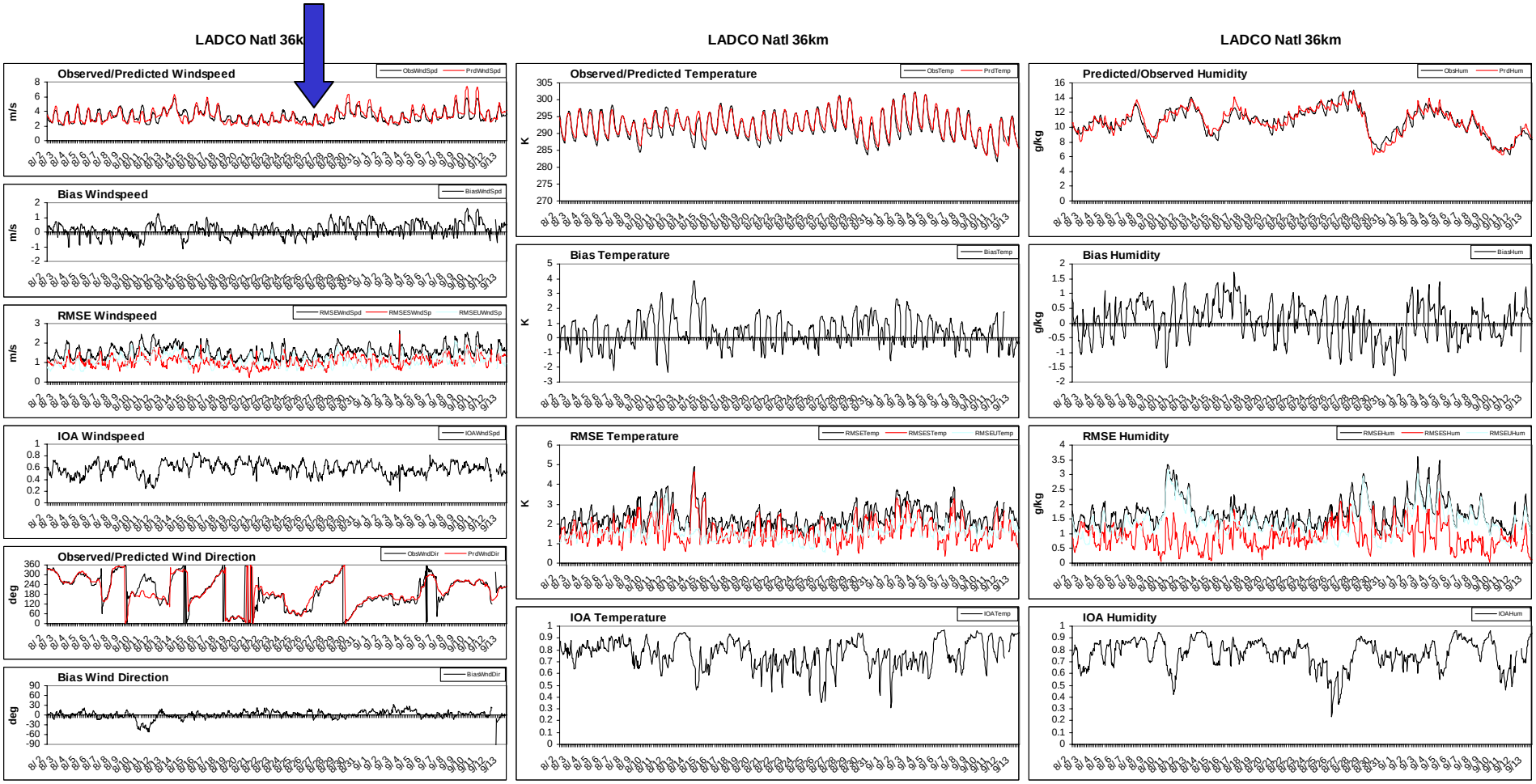
- Fire destroyed ETA data archives for September 1999
- Apparently this fire corrupted data into late August 1999 (because most of it is missing)
- NNRP (6 hourly) subsituted for ETA (3 hourly) starting at August 25th 0Z

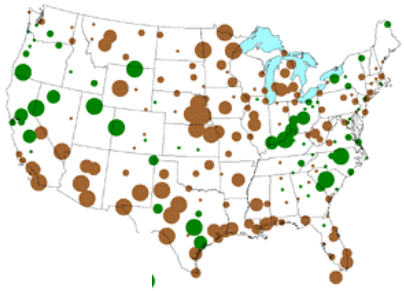


Aug 2 to Sept 13, 1999



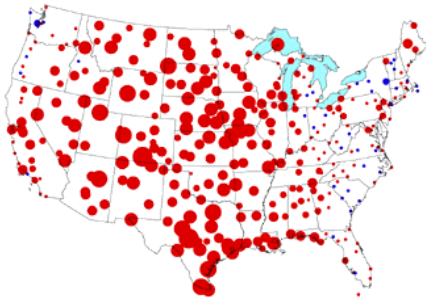
Great Lakes: temps = cool, precip = dry



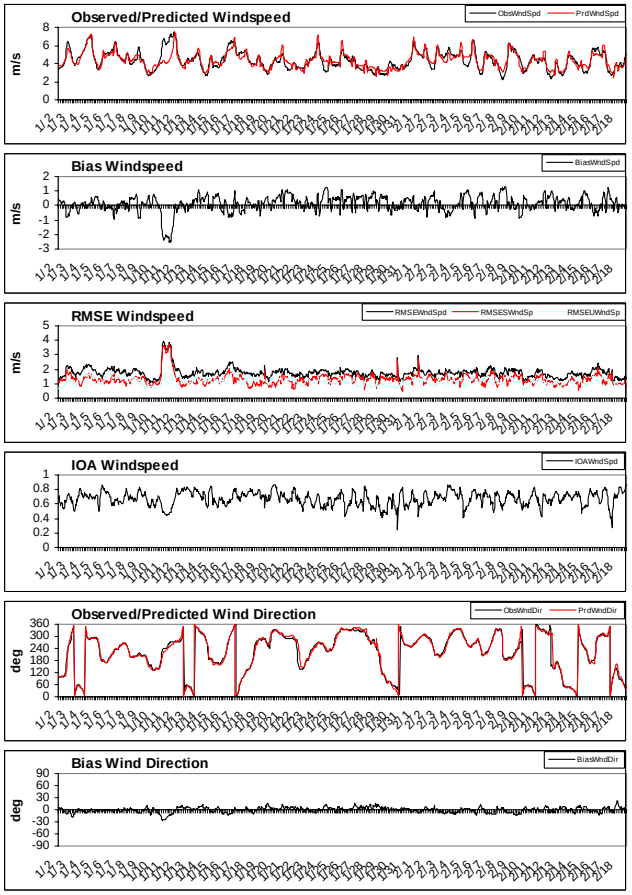


Jan 2 to Feb 18, 2000

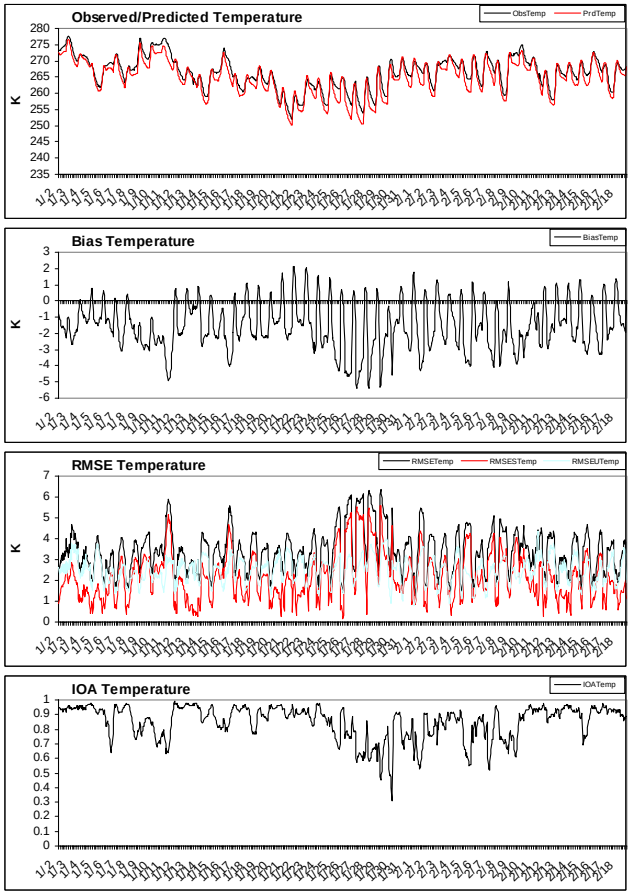
Great Lakes: temps = warm, precip = dry



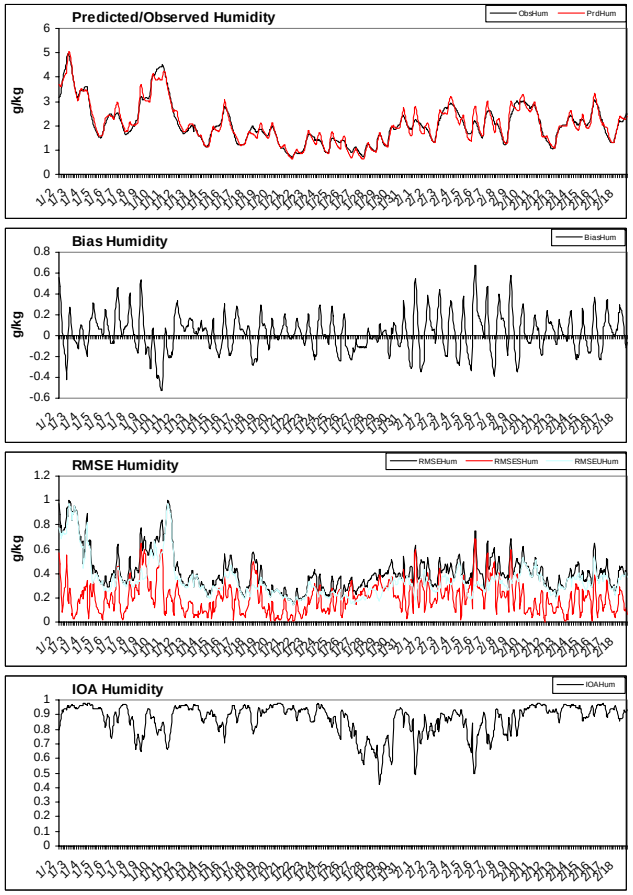
LADCO Natl 36km

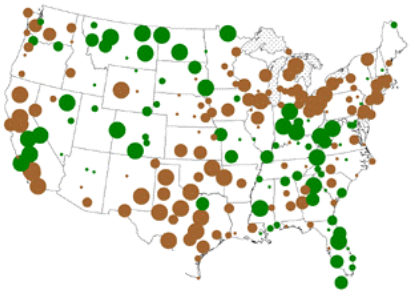


LADCO Natl 36km



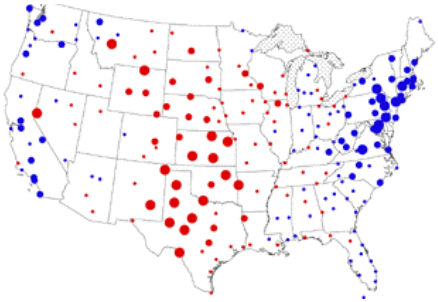
LADCO Natl 36km



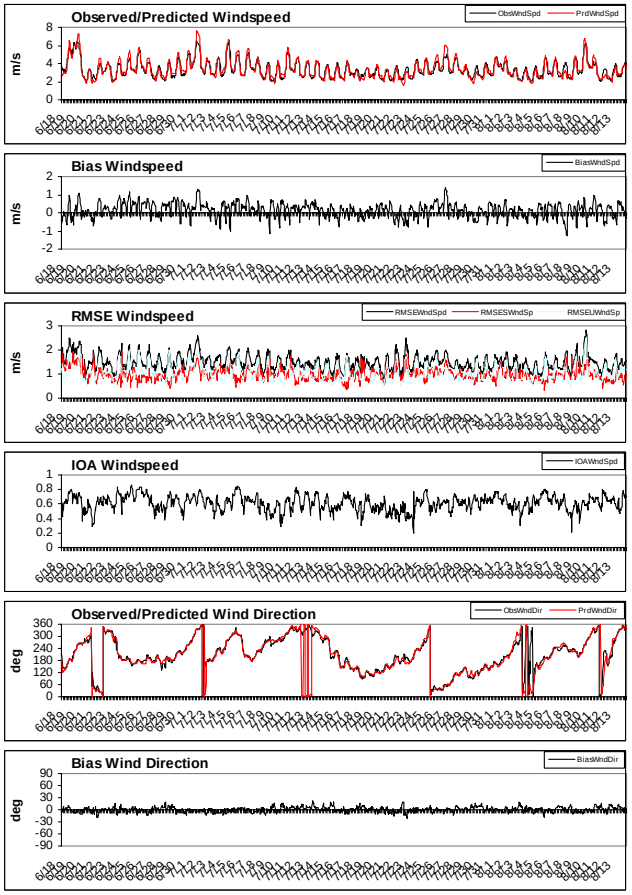


June 18 to August 13, 2001

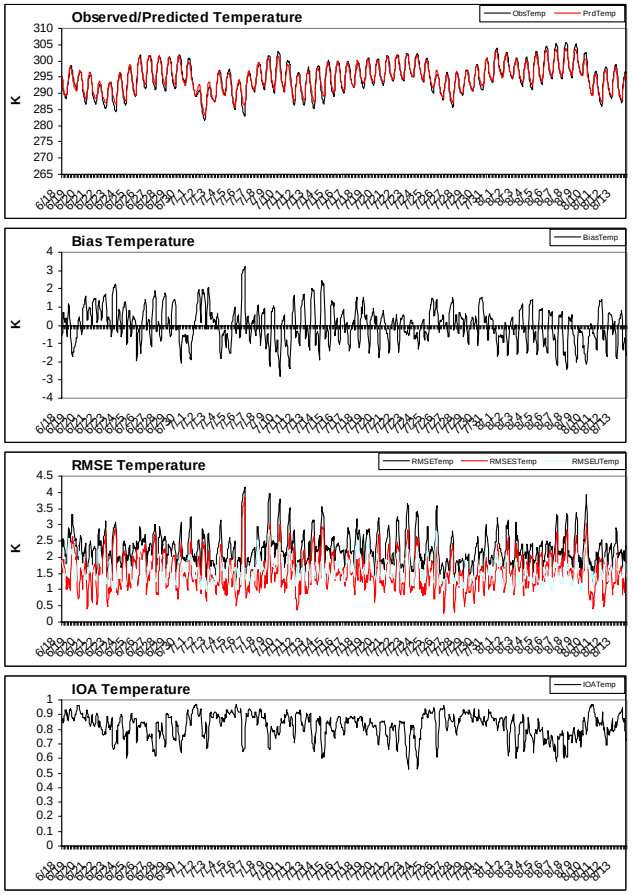
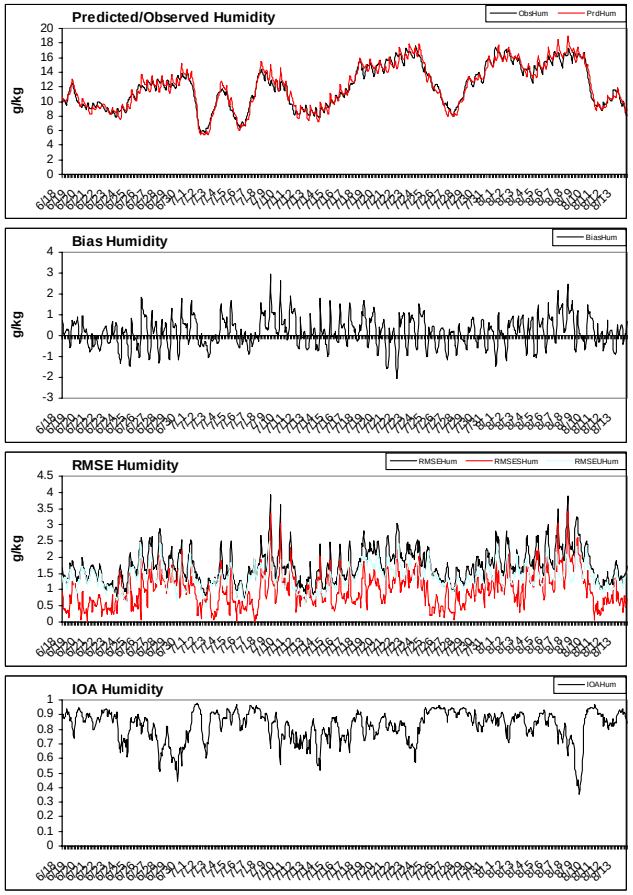
Great Lakes: temprs = normal, precip = dry



LADCO Natl 36km



LADCO Natl 36km



LADCO Natl 36km