

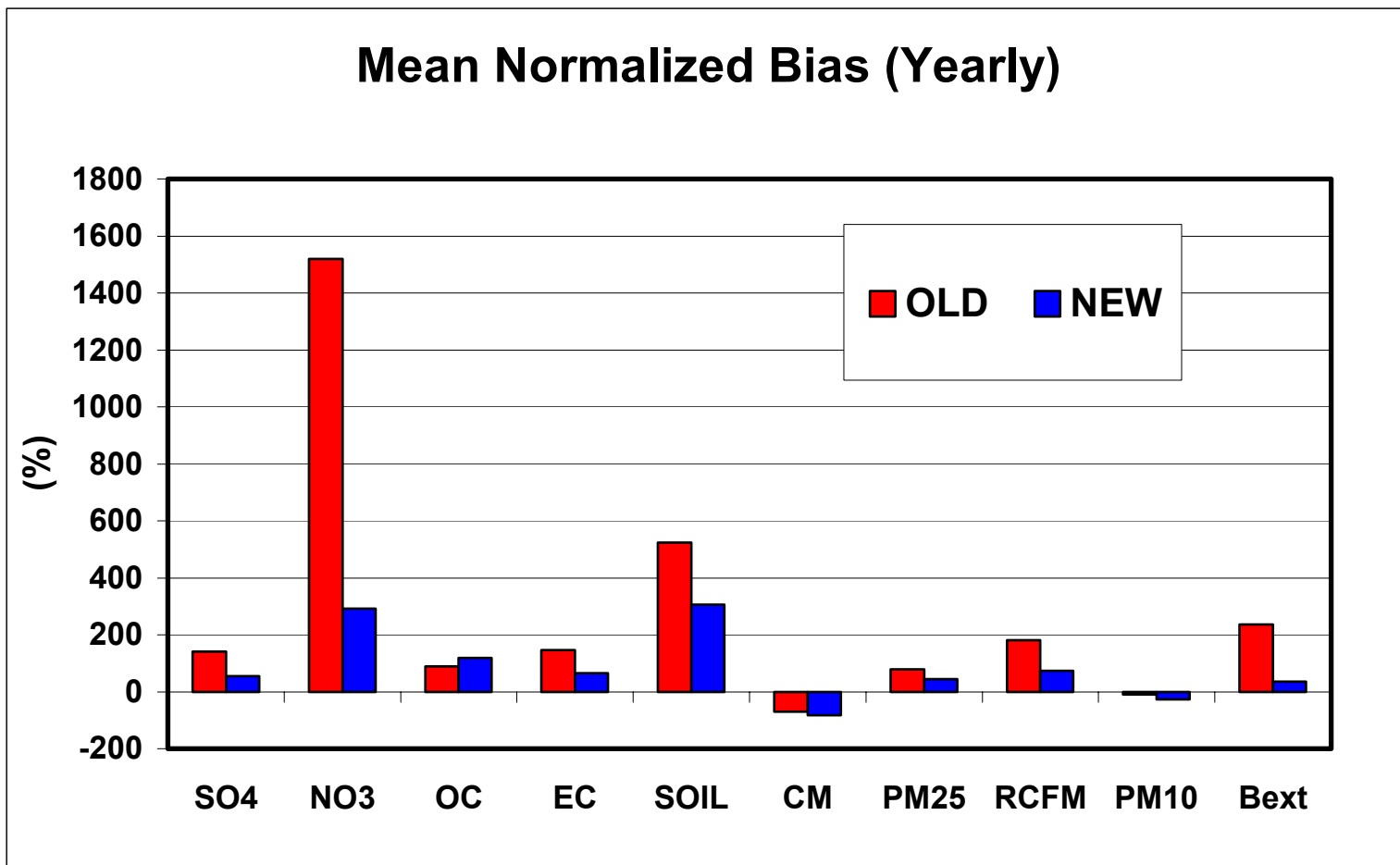
WRAP CMAQ 1996 revised annual modeling Comparison of July 2003 to Jan 2002 results

These are preliminary results, as of August 18, 2003

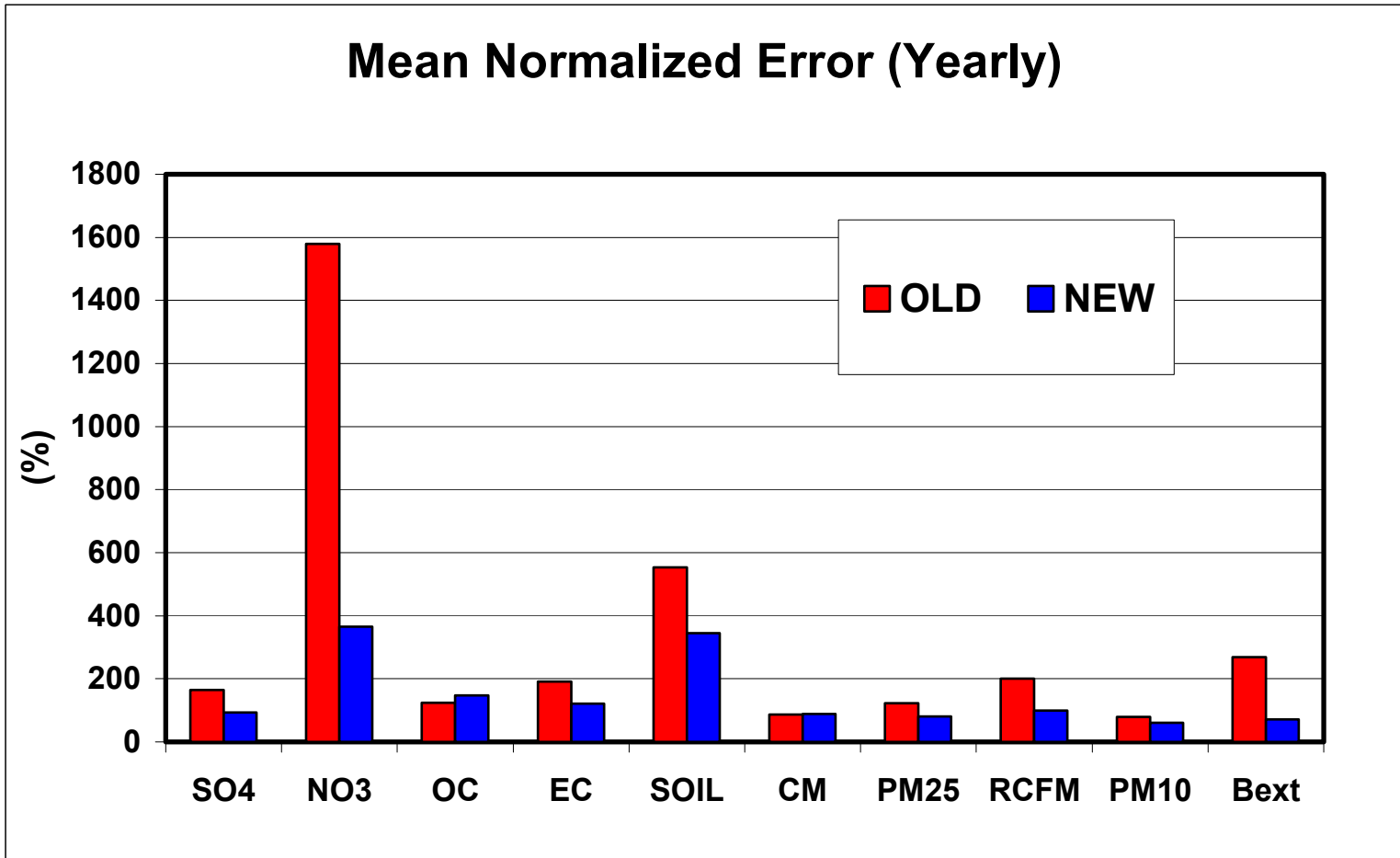
Includes all updates and corrections for CMAQ and input data sets made during the last two years:

- CMAQ v4.2.2 (March 2003 release)
- MCIP v2.2 corrected layer averaging bug
- Monthly adjusted NH₃ emissions
- Corrected NH₃ deposition velocity
- Many emissions updates & corrections

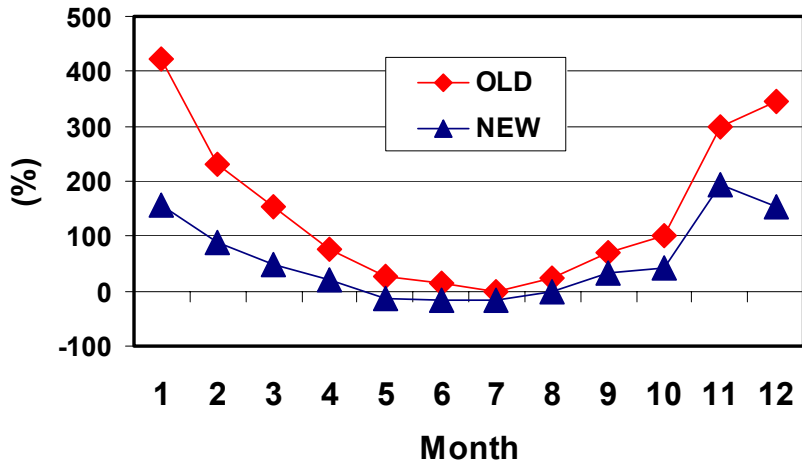
Old = Jan 2002, New = July 2003



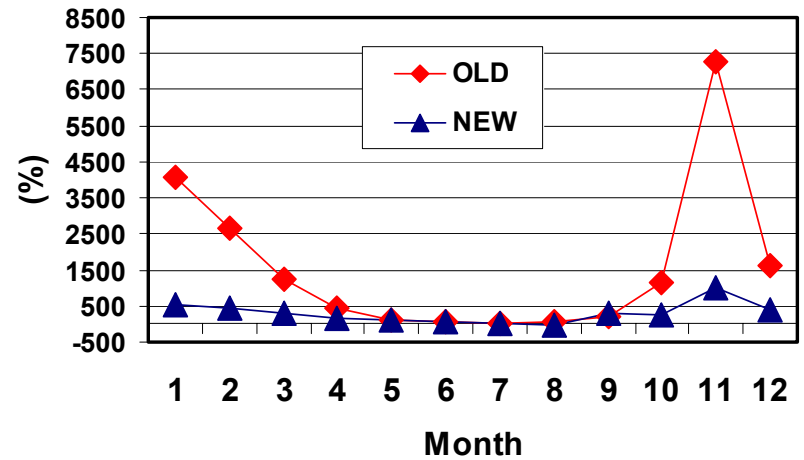
Old = Jan 2002, New = July 2003



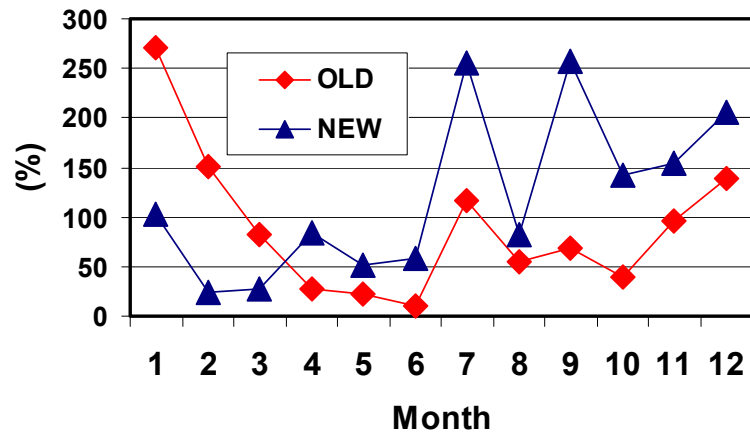
Mean Normalized Bias _ SO4



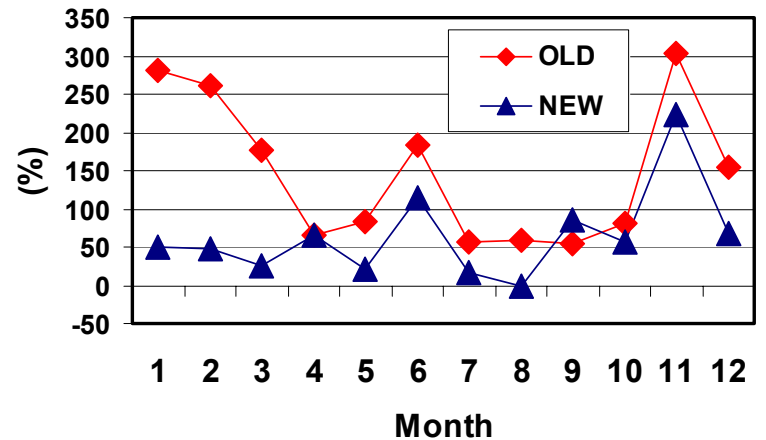
Mean Normalized Bias _ NO3



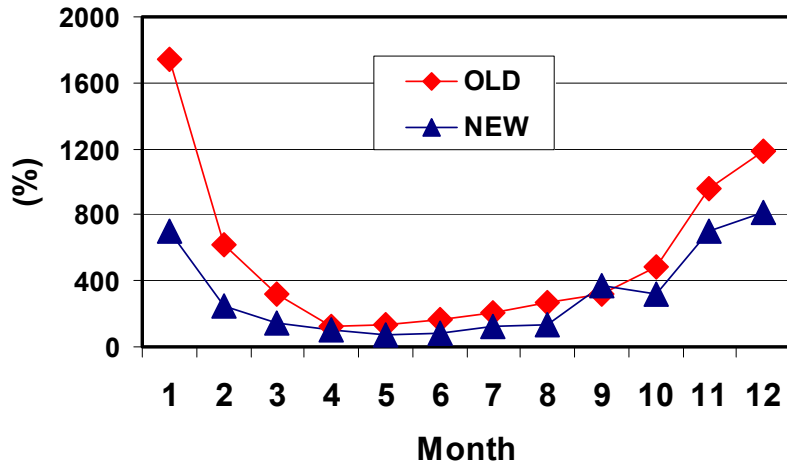
Mean Normalized Bias _ OC



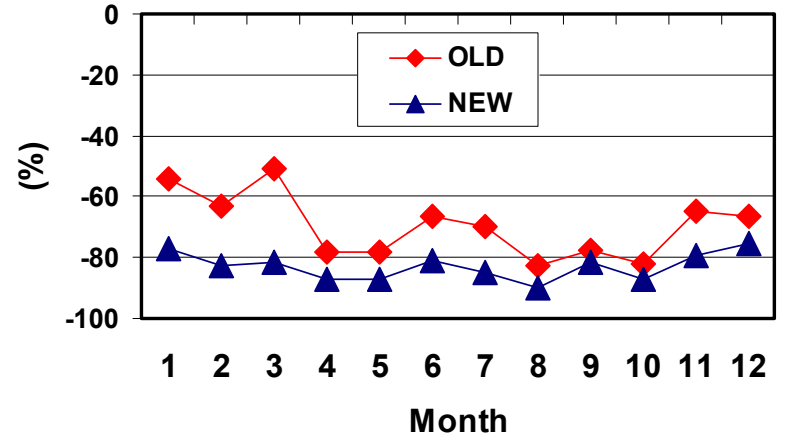
Mean Normalized Bias _ EC



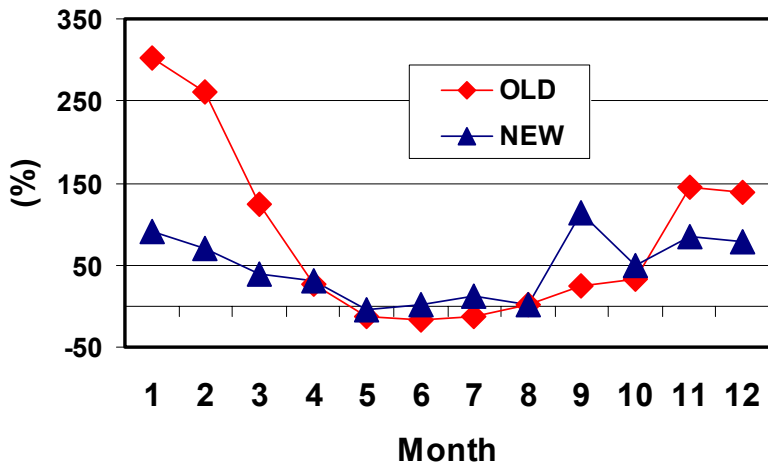
Mean Normalized Bias _ SOIL



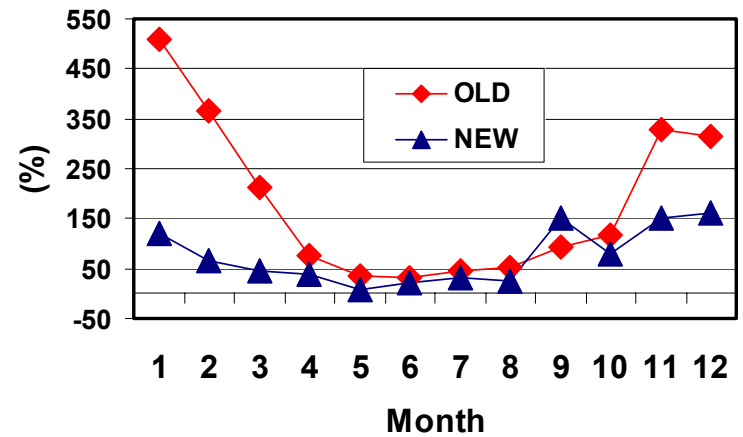
Mean Normalized Bias _ CM



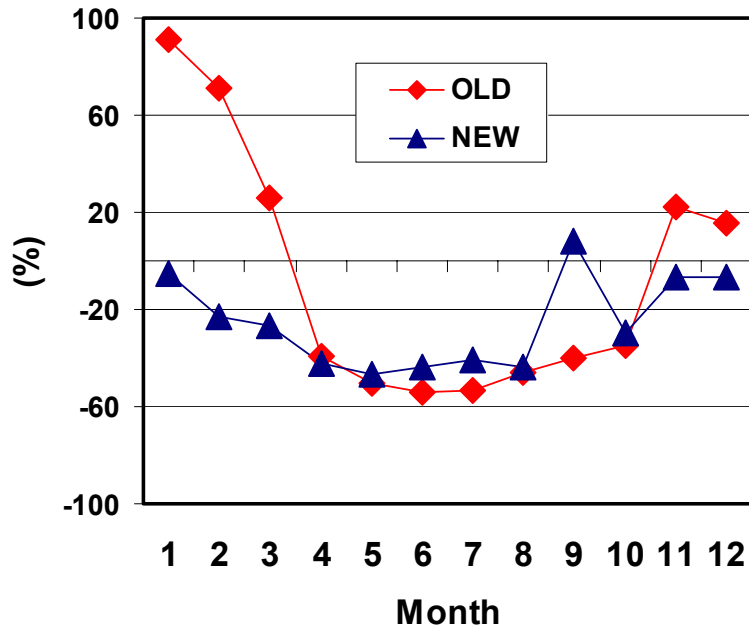
Mean Normalized Bias _ PM25



Mean Normalized Bias _ RCFM



Mean Normalized Bias _ PM10



Mean Normalized Bias _ BEXT

