Interactive comment on “Comparison of measurements of peroxyacyl nitrates and primary carbonaceous aerosol concentrations in Mexico City determined in 1997 and 2003” by N. A. Marley et al.

Anonymous Referee #1

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The paper reviews the potential atmospheric influences of 'megacities' using Mexico City as a model and black carbon, peroxyacetyl nitrate (PAN), and ozone as the most important species. The authors compare concentrations found in 1997 to those found in 2003 and find substantial decreases in concentrations of PAN and ozone but not black carbon attributing vehicle fleet replacement to much of the decrease. High levels of black carbon reflect the high use of diesel vehicles. This study points out that significant positive changes can be attained in a relatively short time period. Is it possible that some of the decrease in PAN levels from 1997 to 2003 are due to the 2003 study?
being in April and the 1997 study being in February-March with lower temperatures? PAN’s are temperature dependent.

The paper was well-written. One correction on line 14: is it 10-15 years?