

Interactive comment on “Satellite Mapping of PM_{2.5} Episodes in the Wintertime San Joaquin Valley: A “Static” Model Using Column Water Vapor” by Robert B Chatfield et al.

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We are extremely grateful for the helpful comments of both reviewers. We expect that they will find that we have addressed all comments, both general and detailed. In fact, the comments alerted us to examine and clarify several other details, for example the meaning of the intercepts and slopes as graphically analyzed, the alphas and the betas (Table 1 and Figure 8). Discussion of the comparison of the intensive Fresno measurements of Young et al. and our mapped valley-wide estimates now describe their results in some more detail. We expect that the inclusion of the Supplementary Material will clarify how the P-3B NASA aircraft studies motivated our approach. Regrettably, the

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task of comparing our estimates to more detailed aircraft measurements would involve considerable additional explanation beyond the limits of a single paper. We have attempted to improve all figures up to the standards requested. Figure 1 has a more recent and descriptive source; it now indicates the position of the San Joaquin Valley.

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