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Comment

Interactive comment on “SAGE version 7.0 algorithm: application to SAGE II” by R. P. Damadeo et al.

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The reviewers both make comments asking for greater detail regarding the time-series analysis done on the SAGE II data. While we have added some minor details to this section (including the number of harmonics used in the latitudinal fit and the origins of the various terms used), we decided not to go into the finer details of this process. The motivation for performing this analysis was to see what kind of results users of the data would expect when attempting their own time-series analysis. Since, for this paper, we cared mostly just to see what quality fits could be made to each data set (and not necessarily the results of the fits themselves such as the resulting trends), we did not include some of the higher order corrections typically applied (e.g. an altitude-

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dependent phase-lag for the QBO or an age of air correction for the EESC). At the time of this writing, however, the authors are still developing this new analysis method in preparation for another paper, which will include these and other corrections. As such, we do not wish to extend the length of this paper with details that we believe are out of its scope. However, this preliminary look revealed some interesting results regarding the residuals (discussed in the paper) and we felt we owed it to the users of the data to present these preliminary findings in this paper, as they pertain to the overall quality of the newer dataset.

Interactive comment on Atmos. Meas. Tech. Discuss., 6, 5101, 2013.

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