Response to reviewer #3

The authors thank reviewer #3 for their comments and support for publication. In the following, we restate the reviewer comments and follow with our response in “bold” font.

Fahey et al. presents an implementation of two new cloud aqueous phase chemistry options (AQCHEM-KMT and AQCHEM-KMTI) for the CMAQ model. The paper is well written and will be of interest to the readers of GMD, I therefore support its publication in GMD after issues raised Referees #1 and #2 have been addressed.

We have attempted to address all of the comments/suggestions from reviewers 1 and 2. One can find additional details in the posted responses to those reviewers.

Minor issues: - Page 9, Line 29: Should "in-line calculation of photolysis rates" be "online calculations of photolysis rates"?

To be consistent with descriptions of the CMAQ photolysis module published elsewhere (e.g., Appel et al., 2016), we refer to these as “in-line” calculations. We have updated the other references to “inline” processes in this section to “in-line” as well.

References: