Atmos. Chem. Phys. Discuss.,
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Atmospheric Chemistry and Physics Discussions

Interactive comment on "Long-range transport patterns into the tropical northwest Pacific during the CAMP^{2}Ex aircraft campaign: chemical composition, size distributions, and the impact of convection" *by* Miguel Ricardo A. Hilario et al.

Anonymous Referee #1

Received and published: 3 November 2020

This paper covers airmass origin and aerosol composition in support of the CAMP2Ex campaign in Southeast Asia. The methods are sound and the paper is very well written indeed. While the location for the measurements is an area that has not received much attention over the years, I find this paper somewhat lacking in that it only presents results without any scientific implications to speak of. Specifically, I would regard none of the conclusions listed (a change in synoptic transport with monsoon onset, changes in emissions with geographic region and evidence of scavenging) to be particularly novel from a scientific perspective when presented on their own. As such, I do not

find this paper publishable in its current form; I recommend that it should either: 1) Be reclassified as a 'measurement report' or 2) Present new findings relevant to current atmospheric science in the discussion and conclusions.

Besides this fundamental issue, I could only find very minor points as follows:

Section 2.1: Please give information on the inlet system used for the aerosol instruments.

Line 121: What elevation data is the Google API using? USGS?

Line 136: Where does the uncertainty of 10% come from? Authors should also specify the calibrant used for the SP2, as this differs between groups.

Line 155: Presumably the NCEP reanalysis was used. If so, it should be specified as such.

Section 3.2: Not enough detail is given regarding the motivation and approach taken to perform the sensitivity analysis. This needs expanding on.

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