

Response summary

Below is a list of changes made to the paper as requested by each referee.

Referee 1

Pg. 2526 Ln. 24 : Inserted the following text:

“We acknowledge that the presented parameterisations are likely to only be representative of emissions at the site studied. We recommend that further studies are performed at other sites to inform improved parameterisations.”

Pg. 2501 Ln. 23: Inserted reference Tack et al. (2014).

Pg. 2503, Ln. 15: Inserted reference Morris et al. (2014).

Pg. 2506, Ln. 25: Changed “ L^{-1} ” to “ $L \text{ min}^{-1}$ ”

Pg. 2513, Ln. 3: Changed “between clusters “ to “between the clusters”.

Pg. 2517, Ln. 13: : : Changed “greatest “ to “the greatest”.

Pg. 2517, Ln. 25: : : Changed “greatest “ to “the greatest”.

Figure 2-6, 8: Changed I to L in figure labels

Figure 14: Corrected spelling of concentration.

Referee 2

Pg. 2514, Ln. 6: Inserted the following text:

“We have indentified clusters B3 andB4,1&2to be behavioural consistent with fungal spores, and clusters C3 andC4 to be behavioural consistent with bacterial aerosol, which is discussed in detail in later sections. “

Pg. 2516, Ln. 12: Inserted the following text:

“This may suggest a sensitivity to UV radiation. Cazorla et al. (2003) showed the colony forming units of *P. syringae* to be significantly reduced after 4 hours exposure to UV radiation. As this cluster is likely to be bacterial in nature(as discussed later) this may explain the minimum.”

Figures 10, 11, 12 & 15: Included goodness of fit estimates in figure captions.