

Interactive comment on “Measurements of the timescales for the mass transfer of water in glassy aerosol at low relative humidity and ambient temperature” by H.-J. Tong et al.

H.-J. Tong et al.

j.p.reid@bristol.ac.uk

Received and published: 21 April 2011

Response to the comments by Anonymous Referee 4 on Atmos. Chem. Phys. Discuss., 11, 4843-4879, 2011

We thank the anonymous referee for taking their valuable time to review our manuscript and to make constructive comments. We have addressed the comments in our revised manuscript as specifically outlined below.

1. The dispersion refers to the wavelength dependence of the refractive index. This is now explicitly stated in the manuscript.

C2164

2. The referee is correct, we have incorrectly used ρ_w for both densities. We now have used ρ_{wet} to denote the density of the wet solution aerosol in equation 2 with ρ_w representing the density of water.

3. We have removed all references to the 'ETH model' as suggested and now just refer to the 'kinetic model'.

4. The grey shaded area, now defined in the text, is shown only in parts (c) and (d) as these are the only panels for which it holds relevance.

5. We now explicitly say that Figures 2 and 3 refer to sucrose solution aerosol in the captions for the figures.

Interactive comment on Atmos. Chem. Phys. Discuss., 11, 4843, 2011.

C2165