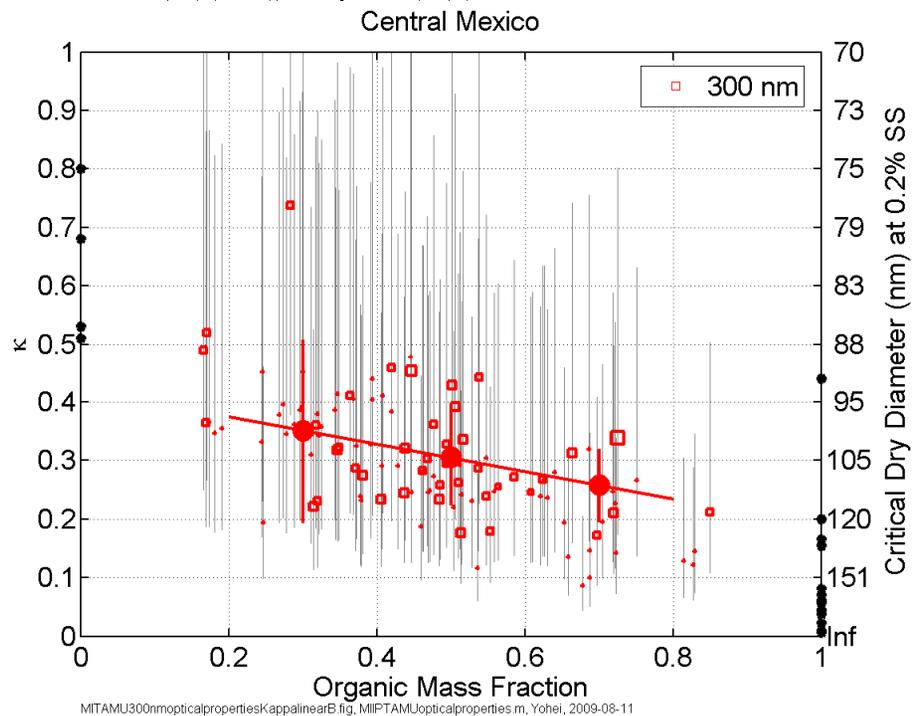
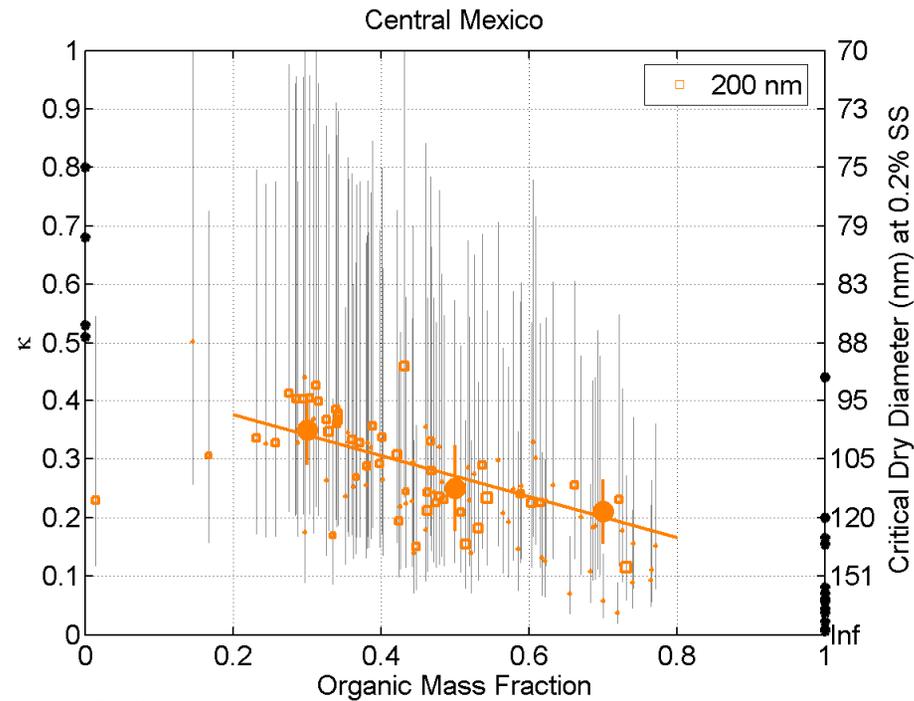
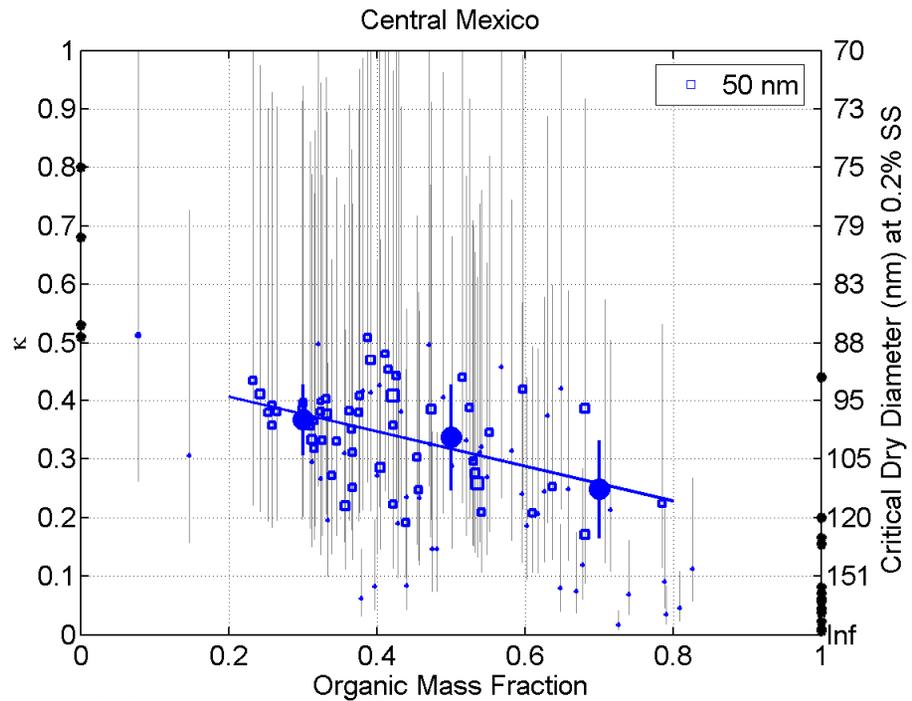
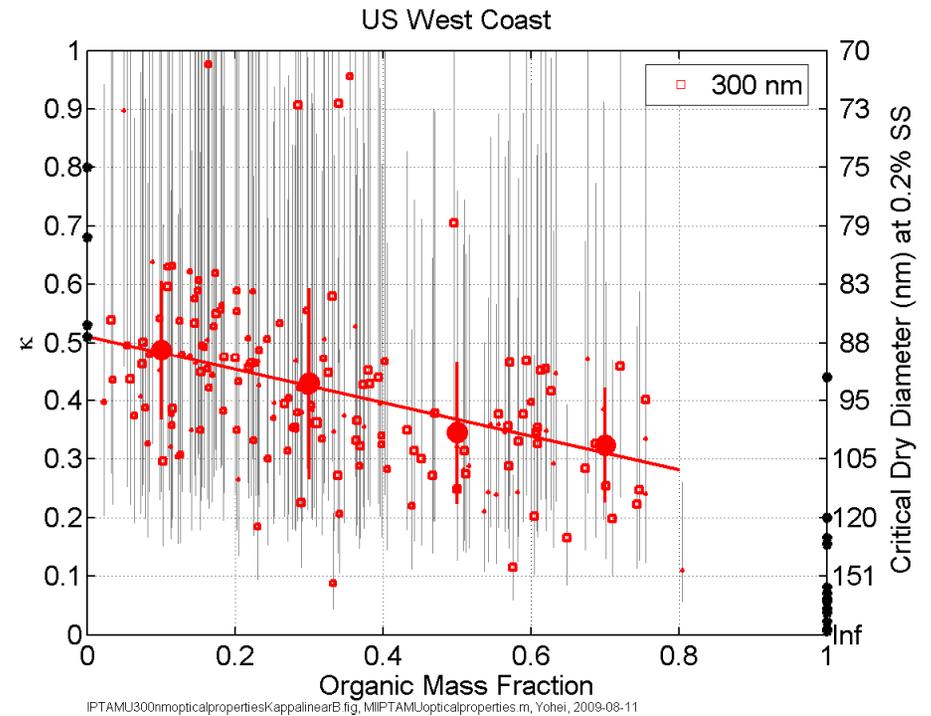
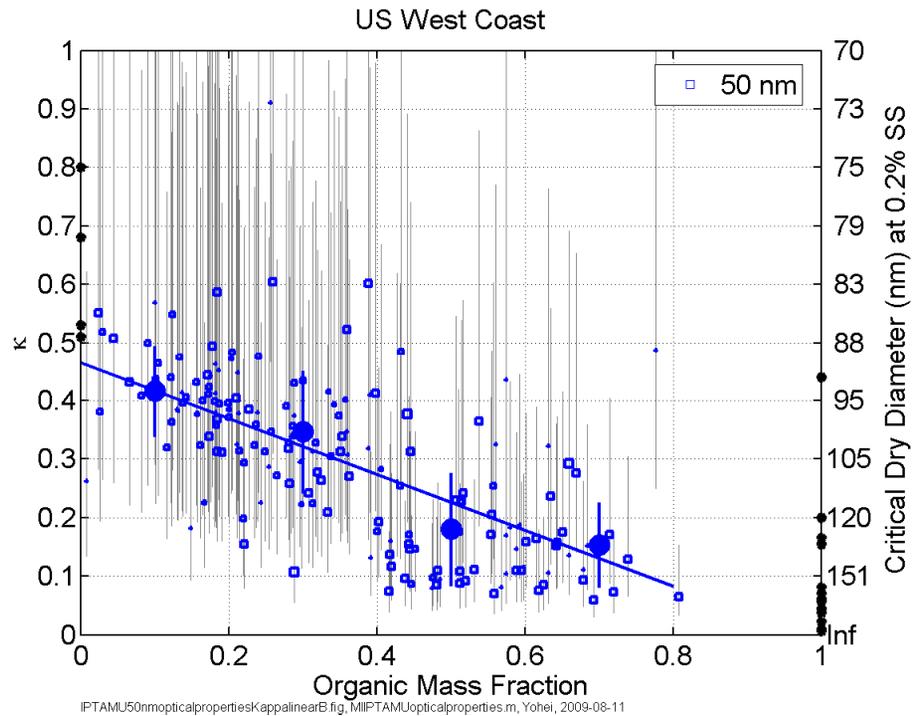


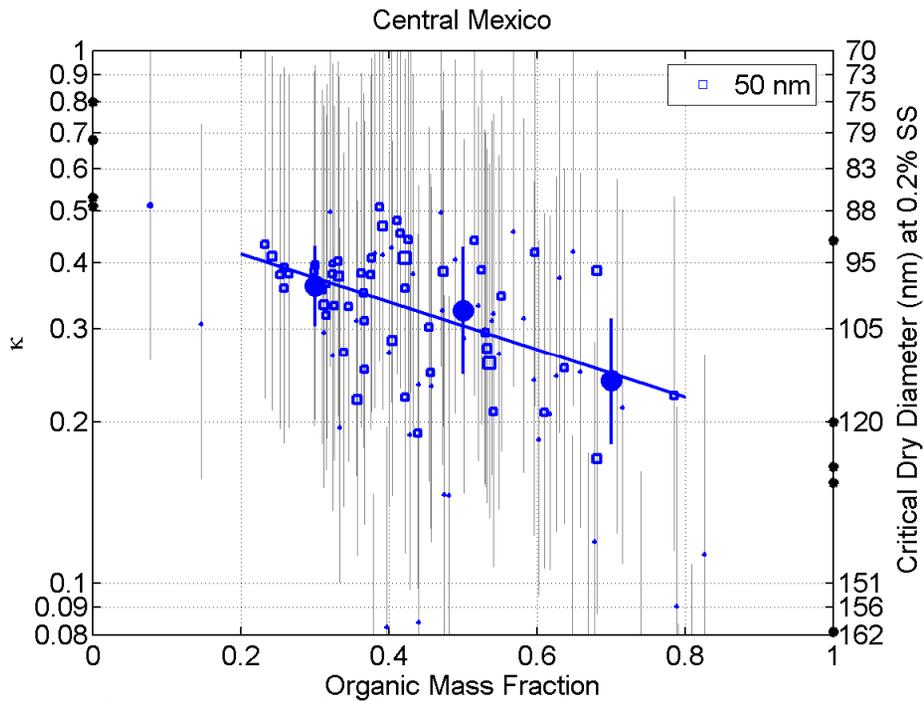
**Supplement Figure 1. Comparison of the scattering coefficient at 550 nm between the OPC and the nephelometer over 7 - 170°, averaged over 30 seconds, for Central Mexico (left panel) and the US West Coast (right). The dashed lines represent the linear regression:  $y = 1.11x - 1.14$  ( $R^2 = 0.85$ ) and  $y = 0.96x + 0.16$  ( $R^2 = 0.86$ ) for the two regions respectively.**



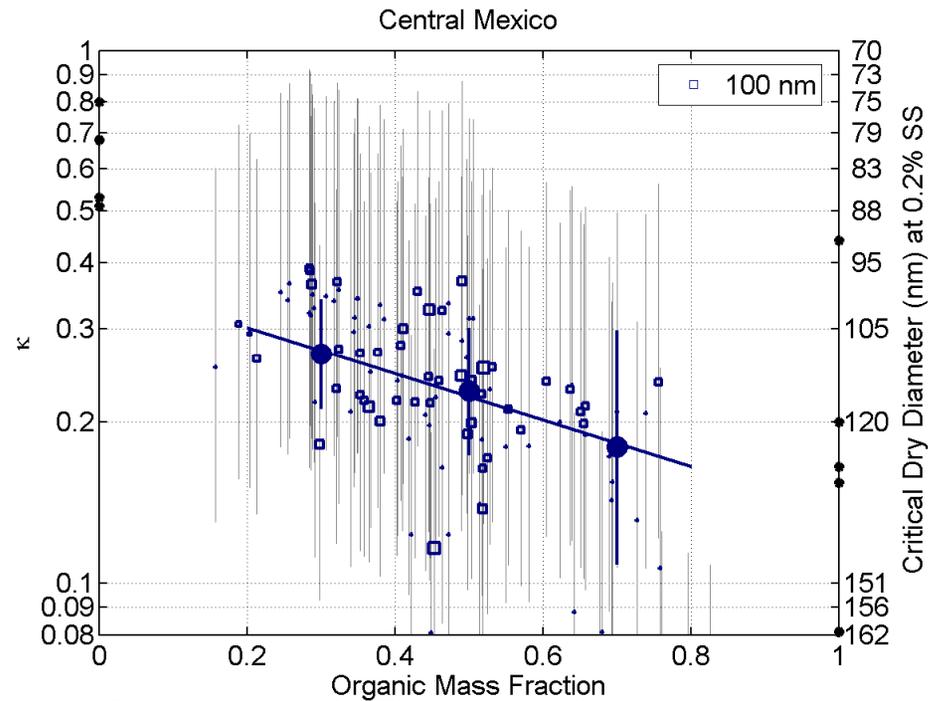
Supplement Figure 2. Same as Figure 3c but for the other TDMA dry diameters.



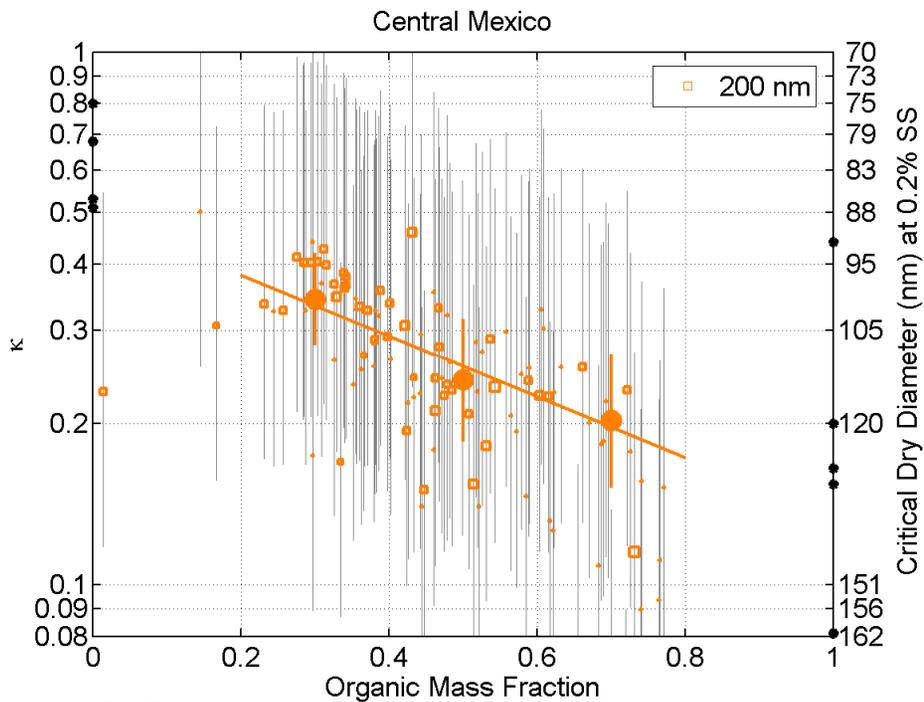
Supplement Figure 3. Same as Figure 3d but for the other TDMA dry diameters. Note the different vertical scales. The 200-nm scans, scarcely made over the US West Coast, are not shown.



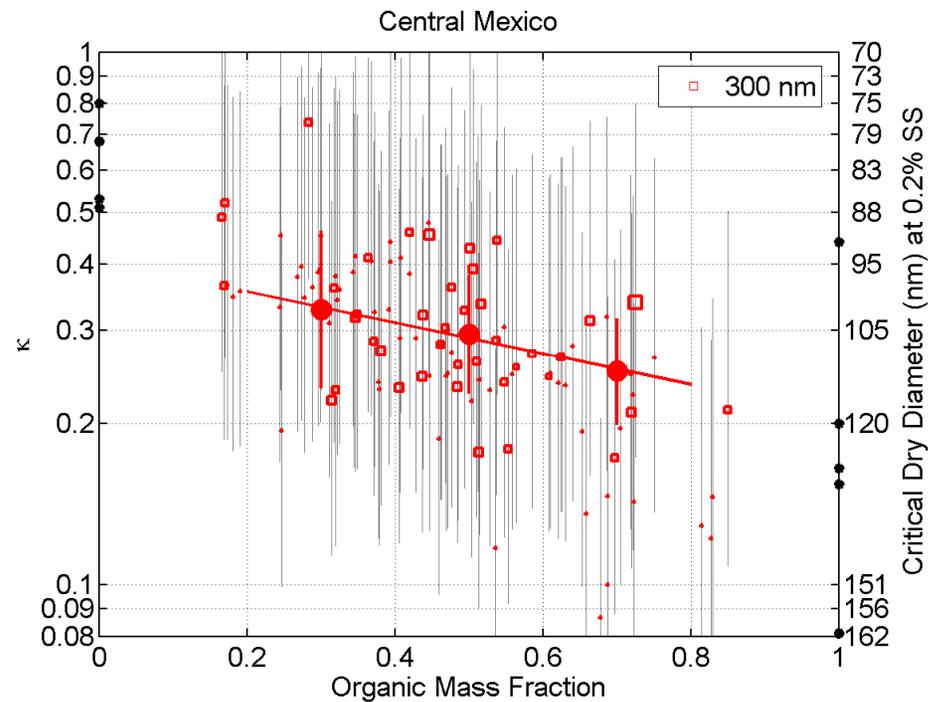
MITAMU50nmopticalpropertiesKappelgB.fig, MIPTAMUopticalproperties.m, Yohei, 2009-08-11



MITAMU100nmopticalpropertiesKappelgB.fig, MIPTAMUopticalproperties.m, Yohei, 2009-08-11

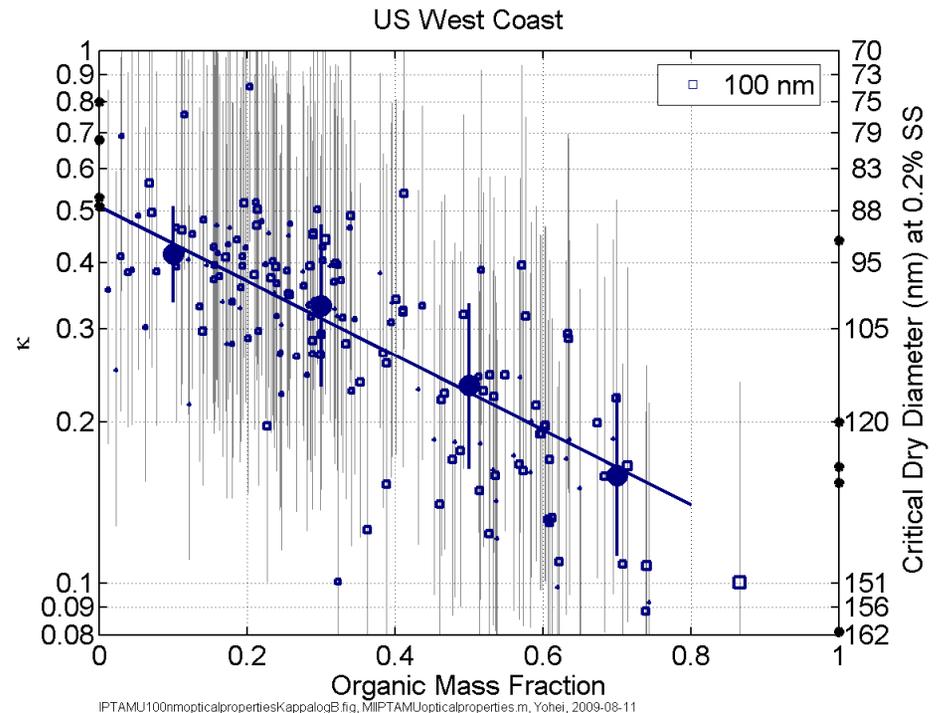
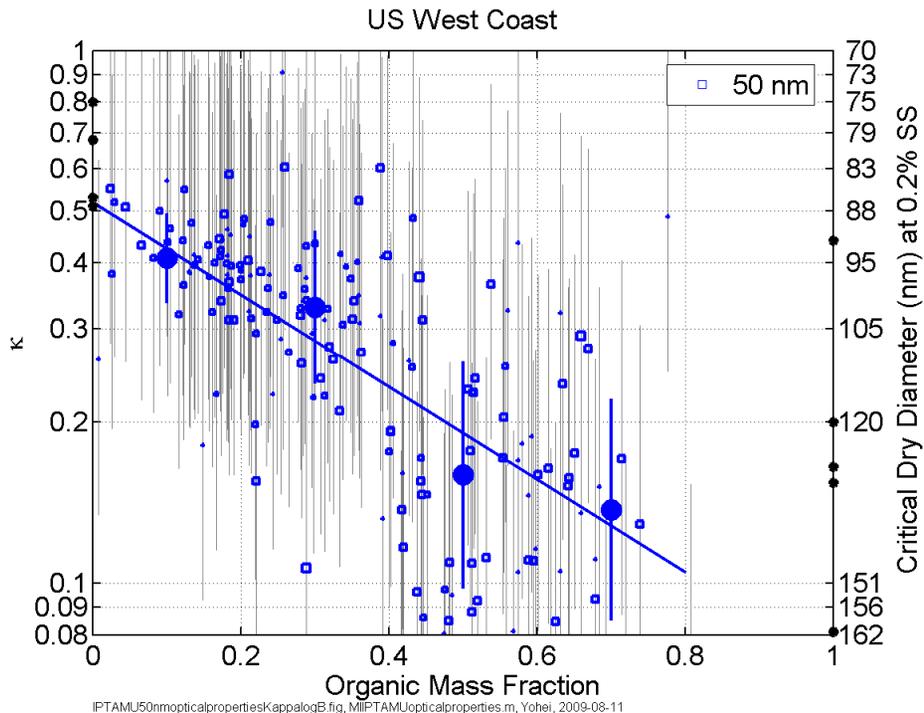


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MITAMU300nmopticalpropertiesKappelgB.fig, MIPTAMUopticalproperties.m, Yohei, 2009-08-11

Supplement Figure 4. Same as Supplement Figure 2 but with a logarithmic scale for  $\kappa$ .



Supplement Figure 5. Same as Supplement Figure 3 but with a logarithmic scale for  $\kappa$ .

