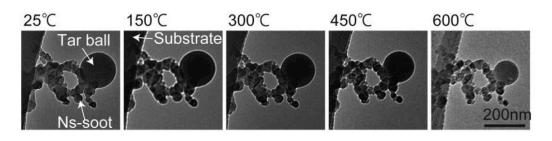
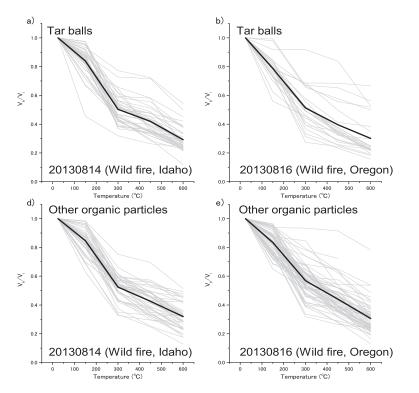


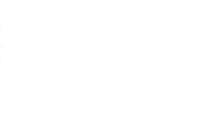
Plume Age (hr)

Volume changes upon heating of aerosol particles from biomass burning using transmission electron microscopy

Kouji Adachi^a, Arthur J. Sedlacek III^b, Lawrence Kleinman^b, Duli Chand^c, John M. Hubbe^c, and Peter R. Buseck^d





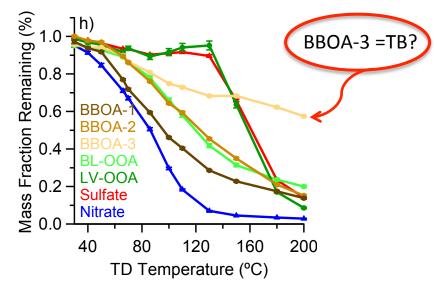


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- The results indicate that individual TB particles retain up to 30% of their volume when heated to 600 C.
- Single-particle results imply that organic particles consist of multiple types of organic Omatter having different thermal stabilities.
- The presence of less-volatile organic particles implies a risk in underestimating the amount of atmospheric OA particles.



TBs should be considered as a unique BrC aerosol class (possibly BBOA-3 of Shan et al,. 2017).