



## Corrigendum to

## "Spectro-microscopic measurements of carbonaceous aerosol aging in Central California" published in Atmos. Chem. Phys., 13, 10445–10459, 2013

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In our original manuscript, measurements of the organic carbon and elemental carbon (OCEC) were erroneously utilized in Coordinated Universal Time (UTC) instead of Pacific Daylight Time (PDT). The OCEC data was used for comparison with the microscopy data throughout the manuscript. Affected figures were Figs. 3, 7, and 10b. The corrected text and figures are included below. This correction does not affect the conclusions reported in the manuscript. Additionally, there was an error in the statistical analysis displayed in Fig. 7 for the T0 6/27 12:27 sample. This error has been corrected in the updated figure.

In Sect. 3.5, paragraph 6 (page 10455 of the original manuscript, left column of text) is corrected as follows:

Insight into how organic carbon is mixed over all particles can be elucidated by comparing the STXM classifications to bulk measurements of organic carbon mass. Figure 10b shows the relationship between total organic carbon per particle determined by STXM and the bulk organic carbon mass concentration determined by the Sunset OCEC field analyzer at the corresponding TRAC sampling times. The relationship between bulk carbon mass concentrations and single-particle carbon concentrations shows a weak ( $R^2 = 0.14$ ) positive correlation. This analysis was carried out for the Mexico City data set; however, OCEC measurements were not available for T0 and the number of particles was lower. As was found here, the measurements showed a weak positive ( $R^2 = 0.03$ ) correlation.

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**Figure 3.** Organic carbon mass concentrations for particles smaller than 2.5 µm diameter as determined with the Sunset OCEC analyzer. Times for samples selected for STXM/NEXAFS analysis (red vertical lines) and for CCSEM/EDX analysis (green vertical lines) are indicated in the figure.



Figure 7. Fractions of STXM-derived particle types for different sites (T0 and T1), dates, and times. White dots show organic carbon mass concentration determined by the Sunset OCEC analyzer.



Figure 10. (B) Relationship between organic carbon optical density per particle and bulk organic mass concentration measured by Sunset OCEC analyzer.