

## Correction to “Isotopic characterization of aerosol organic carbon components over the eastern United States”

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[1] In the paper “Isotopic characterization of aerosol organic carbon components over the eastern United States” (Wozniak et al., 2012, D13303, doi:10.1029/2011JD017153, 2012), the Table 2 column headings “Millbrook” and “Harcum” were published incorrectly. The correct Table 2 appears here.

**Table 2.** Isotopic Signatures and Carbon Contents of Large-Volume Aerosol Samples Collected for Detailed Isotopic Analyses<sup>a</sup>

| Aerosol OC Component | Parameter                    | Millbrook       |           |                 |        | Harcum    |             |         |       | Overall Mean |
|----------------------|------------------------------|-----------------|-----------|-----------------|--------|-----------|-------------|---------|-------|--------------|
|                      |                              | March 7–10      | May 14–16 | Aug 10–12       | Mean   | Feb 19–21 | April 10–12 | Aug 6–8 | Mean  |              |
| TOC                  | $\delta^{13}\text{C}$ (‰)    | −25.3           | −25.8     | −24.7           | −25.3  | −26.2     | −26.5       | −24.4   | −25.7 | −25.5        |
|                      | $\Delta^{14}\text{C}$ (‰)    | −448            | −39       | 25              | −154   | −252      | −388        | −165    | −268  | −211         |
| WSOC                 | $f_{\text{OC}}$              | 0.134           | 0.228     | 0.281           | 0.214  | 0.179     | 0.169       | 0.154   | 0.167 | 0.191        |
|                      | $\delta^{13}\text{C}$ (‰)    | nd <sup>b</sup> | −25.1     | −24.4           | −24.7  | −26.1     | −24.8       | −25.2   | −25.4 | −25.1        |
| WIOC <sup>d</sup>    | $\Delta^{14}\text{C}$ (‰)    | nd              | −17       | 6               | −6     | 26        | 11          | 22      | 20    | 10           |
|                      | $f_{\text{WSOC}}^{\text{c}}$ | nd              | 0.22      | 0.47            | 0.34   | 0.29      | 0.16        | 0.26    | 0.24  | 0.28         |
| TSE <sup>c</sup>     | $\delta^{13}\text{C}$ (‰)    | nd              | −26.0     | −25.1           | −25.6  | −26.7     | −26.8       | −24.2   | −25.9 | −25.8        |
|                      | $\Delta^{14}\text{C}$ (‰)    | nd              | −45       | 42              | −1     | −367      | −461        | −231    | −353  | −212         |
| Aliphatic            | $f_{\text{WIOC}}$            | nd              | 0.78      | 0.53            | 0.66   | 0.71      | 0.84        | 0.74    | 0.76  | 0.72         |
|                      | $\delta^{13}\text{C}$ (‰)    | −27.0           | nd        | −26.2           | −26.6  | nd        | −27.3       | −28.2   | −27.6 | −27.2        |
| Aromatic             | $\Delta^{14}\text{C}$ (‰)    | −476            | nd        | −90             | −283   | nd        | −430        | −119    | −190  | −227         |
|                      | $f_{\text{TSE}}$             | 0.67            | nd        | 0.90            | 0.79   | nd        | 0.43        | 0.74    | 0.59  | 0.69         |
| Polar                | $\delta^{13}\text{C}$ (‰)    | −28.6           | −27.7     | nd <sup>f</sup> | −28.2  | nd        | −27.3       | −28.9   | −28.1 | −28.1        |
|                      | $\Delta^{14}\text{C}$ (‰)    | −794            | −820      | −961            | −858   | nd        | −834        | −858    | −846  | −853         |
| Aromatic             | $f_{\text{aliphatic}}$       | 0.007           | 0.001     | 0.003           | 0.0039 | nd        | 0.007       | 0.002   | 0.004 | 0.004        |
|                      | $\delta^{13}\text{C}$ (‰)    | −27.8           | −29.6     | −28.3           | −28.6  | −28.3     | −28.4       | −27.8   | −28.2 | −28.4        |
| Polar                | $\Delta^{14}\text{C}$ (‰)    | −692            | −77       | −446            | −405   | −466      | −540        | −446    | −484  | −444         |
|                      | $f_{\text{aromatic}}$        | 0.015           | 0.009     | 0.004           | 0.009  | 0.009     | 0.007       | 0.003   | 0.007 | 0.006        |
| Polar                | $\delta^{13}\text{C}$ (‰)    | −27.8           | −26.1     | −28.0           | −27.3  | −28.6     | nd          | −26.2   | −27.4 | −27.3        |
|                      | $\Delta^{14}\text{C}$ (‰)    | −750            | 24        | −93             | −273   | −168      | nd          | −240    | −204  | −245         |
|                      | $f_{\text{polar}}$           | 0.24            | 0.039     | 0.25            | 0.18   | 0.063     | nd          | 0.066   | 0.065 | 0.13         |

<sup>a</sup>All reported  $\delta^{13}\text{C}$  and  $\Delta^{14}\text{C}$  values were corrected for blank contributions following procedures outlined in the text.

<sup>b</sup>nd<sup>f</sup> denotes samples for which values were not determined.

<sup>c</sup>Values represent the fraction of TOC accounted for by the parameter of interest ( $f_{\text{WSOC}}$ ,  $f_{\text{WIOC}}$ ,  $f_{\text{TSE}}$ ,  $f_{\text{aliphatic}}$ ,  $f_{\text{aromatic}}$ ,  $f_{\text{polar}}$ ).

<sup>d</sup>WIOC (water-insoluble organic carbon) values were calculated by mass balance using values for TOC and WSOC (WIOC = TOC-WSOC):

$$X_{\text{WIOC}} = \frac{(X_{\text{TOC}} * f_{\text{TOC}} - X_{\text{WSOC}} * f_{\text{WSOC}})}{f_{\text{WIOC}}}$$

where X represents either  $\delta^{13}\text{C}$  or  $\Delta^{14}\text{C}$  for the component of interest (TOC, WSOC, WIOC).

<sup>e</sup>TSE = Total Solvent Extract.

<sup>f</sup>Sample was too small for measurement of both  $\delta^{13}\text{C}$  and  $\Delta^{14}\text{C}$ . A value of −25.0‰ was assumed for  $\Delta^{14}\text{C}$  fractionation corrections.