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CORRECTION

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# Correction: Climate-relevant properties of black carbon aerosols revealed by in situ measurements: a review

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**Correction : Progress in Earth and Planetary Science (2023) 10:12**
**https://doi.org/10.1186/s40645-023-00544-4**

The publication of this article (Moteki 2023) unfortunately contain mistakes.

In section 2.2 and 3.3, "Ohata et al. 2018" is cited in the text but not listed in the reference section. The following reference is added:

Ohata S, Yoshida A, Moteki N, Adachi K, Takahashi Y, Kurisu M, Koike M (2018) Abundance of light-absorbing anthropogenic iron oxide aerosols in the urban atmosphere and their emission sources. J Geophys Res Atmos 123(15):8115–8134. https://doi.org/10.1029/2018JD028363

In section 3.3, "Matsui et al. 2018" is cited in the text but not listed in the reference section. The following reference is added:

Matsui H, Mahowald NM, Moteki N, Hamilton DS, Ohata S, Yoshida A, Koike M, Scanza RA, Flanner MG (2018) Anthropogenic combustion iron as a complex climate forcer. Nat Commun 9:1593. https://doi.org/10.1038/s41467-018-03997-0

In Sect. 3.4,

"Liu et al. (2020a, b)" should read as "Liu et al. (2020b)"

In Sect. 3.4,

"a plausible ($m_r$, $m_i$) domain that contains the BC refractive index at 633 nm wavelength: $1.7 \le m_r \le 2.2$ and $0.51 + 0.014 m_r^{5.2} \le m_i \le \min(1.5, 2.5 m_r - 3.5)$." should read as

"a plausible ($m_r$, $m_i$) domain that contains the BC refractive index at 633 nm wavelength:

$$\begin{cases} 0.51 + 0.014 m_r^{5.2} \le m_i \le 2.5 m_r - 3.5 & \text{if} \quad 1.7 \le m_r \le 1.8 \\ 0.51 + 0.014 m_r^{5.2} \le m_i \le 1.5 & \text{if} \quad 1.8 < m_r \le 2.2 \end{cases}." \text{"}$$

The original article can be found online at https://doi.org/10.1186/s40645-023-00544-4.

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The original article has been corrected.

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## Publisher's Note