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Corrigendum: “Antarctic on fire”: Paleo-wildfire events associated with volcanic deposits in the Antarctic Peninsula during the Late Cretaceous

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KEYWORDS

Campanian, coniferous wood, King George Island, macroscopic charcoal, pyroclastic flows

A Corrigendum on

“Antarctic on fire”: Paleo-wildfire events associated with volcanic deposits in the Antarctic Peninsula during the Late Cretaceous

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In the published article, an author name was incorrectly written as Ré Jasper in the ORCID ID list. The correct spelling of the author’s name is André Jasper.

In the published article, the reference for [Scott and Glasspool \(2007\)](#) was incorrectly written as Glasspool and Scott, 2007. The reference for [Smellie et al. \(1984\)](#) was incorrectly written as ‘Smellie et al., 984’. These have now been corrected.

In the published article, references that are properly cited in the text were not included in the list of references due to a layout problem. The references in question are: [Belcher and McElwain \(2008\)](#), [Belcher et al. \(2010\)](#), [Dutra \(1997\)](#), [Galloway and Hobday \(1983\)](#), [Glasspool and Scott \(2013\)](#), [Kuhlbusch and Crutzen \(1996\)](#), [Lima et al. \(2021\)](#), [Lupia et al. \(1999\)](#), [Pfuhl and McCave \(2005\)](#), [Schmidt and Noack \(2000\)](#), [Smellie et al. \(1984\)](#), [Scott and Glasspool \(2005\)](#), [Scott and Glasspool \(2007\)](#), [Tokarski \(1991\)](#), [Wang and Shen Yanbin \(1994\)](#). These have now been added.

The authors apologize for these errors and state that this does not change the scientific conclusions of the article in any way. The original article has been updated.

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References

- Belcher, C. M., and McElwain, J. C. (2008). Limits for combustion in low O₂ redefine paleoatmospheric predictions for the Mesozoic. *Science* 321, 1197–1200. doi:10.1126/science.1160978
- Belcher, C. M., Yearsley, J. M., Hadden, R. M., Mc Elwain, J. C., and Rein, G. (2010). Baseline intrinsic flammability of Earth's ecosystems estimated from paleoatmospheric oxygen over the past 350 million years. *PNAS* 107 (52), 22448–22453. doi:10.1073/pnas.1011974107
- Dutra, T. L. (1997). *Composição e história da vegetação do Cretáceo e Terciário da ilha Rei George, Península Antártica. Porto Alegre*. Universidade Federal do Rio Grande do Sul. Thesis, 481.
- Galloway, W. E., and Hobday, D. K. (1983). *Terrigenous clastic depositional systems*. New York: Springer-Verlag, 423p.
- Glasspool, I. J., and Scott, A. C. (2013). "Identifying past fire events," in *Firephenomena and the Earth system: An interdisciplinary guide to fire science*. Editor C. M. Belcher (Chichester: John Wiley and Sons, Ltd.), 179–205.
- Kuhlbusch, T. A. J., and Crutzen, P. J. (1996). in *Black carbon: the global carbon cycle, and atmospheric carbon dioxide in Biomass Burning and Global Change*. Editor J. S. Levine (Cambridge: MIT Press), 161–169.
- Lima, F. J. de., Sayão, J. M., Ponciano, L. C. M. de O., Weinschütz, L. C., Figueiredo, R. G., Rodrigues, T. M., et al. (2021). Wildfires in the campanian of James Ross Island: A new macro-charcoal record for the Antarctic Peninsula. *Polar Res.* 40, 1–10. doi:10.33265/polar.v40.5487
- Lupia, R., Lidgard, S., and Crane, P. R. (1999). Comparing palynological abundance and diversity: Implications for biotic replacement during the Cretaceous angiosperm radiation. *Paleobiology* 25, 305–340. doi:10.1017/s009483730002131x
- Pfuhl, H. A., and McCave, I. N. (2005). Evidence for late oligocene establishment of the antarctic circumpolar current. *Earth Planet. Sci. Lett.* 235, 715–728. doi:10.1016/j.epsl.2005.04.025
- Schmidt, M. W. I., and Noack, A. G. (2000). Black carbon in soils and sediments: Analysis, distribution, implications, and current challenges. *Glob. Biogeochem. Cycles* 14, 777–793. doi:10.1029/1999gb001208
- Scott, A. C., and Glasspool, I. (2007). Observations and experiments on the origin and formation of inertinite group macerals. *Int. J. Coal Geol.* 70, 53–66. doi:10.1016/j.coal.2006.02.009
- Scott, A., and Glasspool, I. (2005). Charcoal reflectance as a proxy for the emplacement temperature of pyroclastic flow deposits. *Geol. Soc. Am.* 33 (7), 589–592. doi:10.1130/G21474.1
- Smellie, J. L., Pankhurst, R. J., Thomson, M. R. A., and Davies, R. E. S. (1984). "Stratigraphy, geochemistry and evolution," in *The geology of the south shetland islands* (Cambridge: British Antarctic Survey scientific reports), 1–85.
- Tokarski, A. K. (1991). "The late Cretaceous-Cenozoic structural history of King George Island, South Shetlands, and its plate-tectonic setting," in *Geological evolution of Antarctica*. Editors M. R. A. Thonnson, J. A. Crame, and J. W. Thonnson (Cambridge University Press), 493–498.
- Wang, Y. X., and Shen, Yanbin. (1994). "Rb-Sr isotopic dating and trace element, REE geochemistry of Late Cretaceous volcanic rocks from King George Island, Antarctica," in *Stratigraphy and palaeontology of Fildes Peninsula, King George Island, Antarctica*. Editor Y. B. Shen (Monograph), 109–131.