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Correction to "History of the Cretaceous Osbourn spreading center"

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[1] In the paper "History of the Cretaceous Osbourn spreading center" by Nathan J. Downey, Joann M. Stock, Robert W. Clayton, and Steven C. Cande (*Journal of Geophysical Research, 112*, B04102, doi:10.1029/2006JB004550, 2007) the tectonic evolution of the Osbourn spreading center was determined based on ship track geophysical measurements. This paper presents a history in which spreading at the Osbourn spreading center began near the beginning of Chron C34 (121 or 115 Ma). The average spreading rate at the center was greater than 7 cm a^{-1} full spreading rate, until spreading slowed shortly before the Osbourn spreading center became inactive. However, the age estimates of the extinction of the Osbourn spreading center, as well as the time before extinction of the change in spreading rate are erroneous due to the confusion of full spreading rates with half spreading rates in the age calculations. Thus the time intervals in the work of *Downey et al.* [2007] were too short by a factor of two.

[2] As discussed in the work of *Downey et al.* [2007], the temporal constraints on the events outlined are relatively poor. Therefore the major conclusions of the paper concerning the geometry of spreading at the Osbourn spreading center remain unchanged. However the following modifications apply:

[3] 1. The slowing of the Osbourn spreading center occurred 4–11 million years prior to extinction, rather than 2–6 million years prior to extinction as stated in paragraphs 47, 55, and 58.

[4] 2. The discussion and calculations presented in the first half of paragraph 57 concerning the extinction age of the Osbourn spreading center are incorrect. Spreading at the Osbourn spreading center could have ceased during Chron C34 after 93 or 87 Ma. The incorrect extinction ages presented in paragraph 59 and the abstract should be disregarded.

[5] We thank Bruce Luyendyk for pointing out the error in our original calculations.

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