

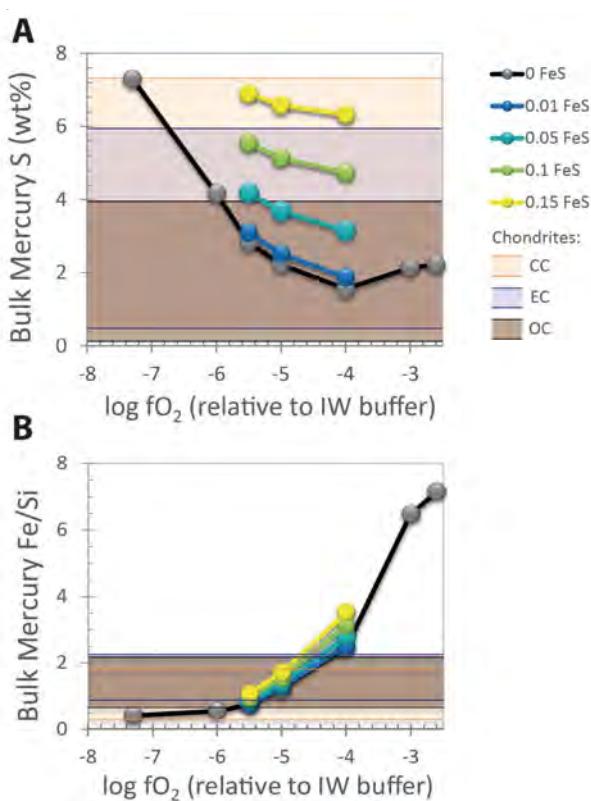
## Erratum

**U, Th, and K partitioning between metal, silicate, and sulfide and implications for Mercury's structure, volatile content, and radioactive heat production** by A. Boujibar, M. Habermann, K. Righter, D.K. Ross, K. Pando, M. Righter, B.A. Chidester, L.R. Danielson (September, vol. 104, p. 1221–1237, 2019). Article DOI: <https://doi.org/10.2138/am-2019-7000>. Erratum DOI: <https://doi.org/10.2138/am-2020-E105513>.

The  $f_{O_2}$  data reported for some samples in Table 2 are incorrect. The new Table 2 below gives corrected values for these  $f_{O_2}$ . In all models presented in the manuscript, we used correct  $f_{O_2}$  values. Our results on the thermodynamic model and bulk Mercury composition are therefore still correct. The colored curves in Figure 7b underestimate Fe/Si for models with a FeS layer. These curves are corrected in the updated figure below. (Complete Table 2 is available as a supplemental file<sup>1</sup>.)

**TABLE 2.** Oxygen fugacity of experimental charges

K-bearing samples		U-Th-bearing samples	
Run no.	$\log f_{O_2}$ (relative to IW)	Run no.	$\log f_{O_2}$ (relative to IW)
#922	-3.82	#924	-3.52
#925	-3.51	#923	-3.82
#306	-3.25	#910	-3.23
#921	-3.93	#907	-3.14
#919	-3.95	#974	-3.16
#916	-3.83	#904	-3.2
#1027	-2.84	#909	-4.19
#1026	-2.98	#975	-3.59
#999	-3.83	#420	-3.89
#1001	-4.44	#305	-3.9
#1029	-5.52	#967	-4.29
#1000	-5.22	#1030	-5.4
PR1577	-6.46	#972	-5.39
PR1578	-6.05	PR1527	-5.37



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<sup>1</sup> Deposit item AM-20-5E105513, Supplemental Materials. Deposit items are free to all readers and found on the MSA website, via the specific issue's Table of Contents (go to [http://www.minsocam.org/MSA/AmMin/TOC/2020/May2020\\_data/May2020\\_data.html](http://www.minsocam.org/MSA/AmMin/TOC/2020/May2020_data/May2020_data.html)).