



HAL
open science

Erratum: “Inward Radial Mixing of Interstellar Water Ices in the Solar Protoplanetary Disk” (2016, ApJL, 827 L1)

Lionel G. Vacher, Yves Marrocchi, Maximilien J. Verdier-Paoletti, Johan Villeneuve, Matthieu Gounelle

► To cite this version:

Lionel G. Vacher, Yves Marrocchi, Maximilien J. Verdier-Paoletti, Johan Villeneuve, Matthieu Gounelle. Erratum: “Inward Radial Mixing of Interstellar Water Ices in the Solar Protoplanetary Disk” (2016, ApJL, 827 L1). 2017, 10.3847/2041-8213/836/1/L16 . insu-03619405

HAL Id: insu-03619405

<https://insu.hal.science/insu-03619405>

Submitted on 13 Jun 2023

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L’archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d’enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.

Erratum: “Inward Radial Mixing of Interstellar Water Ices in the Solar Protoplanetary Disk” (2016, ApJL, 827, L1)

Lionel G. Vacher¹, Yves Marrocchi¹, Maximilien J. Verdier-Paoletti², Johan Villeneuve¹, and Matthieu Gounelle^{2,3}

¹ CRPG, CNRS, Université de Lorraine, UMR 7358, Vandoeuvre-lès-Nancy, F-54501, France; lvacher@crpg.cnrs-nancy.fr

² IMPMC, MNHM, UPMC, UMR CNRS 7590, 61 rue Buffon, 75005 Paris, France

³ Institut Universitaire de France, Maison des Universités, 103 boulevard Saint-Michel, 75005 Paris, France

The bulk D/H value of the CM chondrite Paris (i.e., $(167 \pm 0.2) \times 10^{-6}$) reported in the published article is incorrect (Vacher et al. 2016). The D/H_{SMOW} value used for the D/H calculation was 149×10^{-6} (i.e., D/H ratio of the Bulk Silicate Earth; Lécuyer et al. 1998) instead of 155.76×10^{-6} (i.e., D/H ratio of the Standard Mean Ocean Water). It implies that (i) all the bulk D/H values of Paris displayed in the Letter must be replaced by 174.5×10^{-6} and (ii) our previous estimation of the contribution interstellar water ice in Paris should be reevaluated to 20.6% (instead of 19%; page 5). However, the histogram distribution of bulk D/H ratios of CM chondrites (Figure 1) is correct, and the new bulk D/H value of Paris does not change the interpretations of the Letter.

References

Lécuyer, C., Gillet, Ph., & Robert, F. 1998, *Chem. Geol.*, 145, 249

Vacher, L. G., Marrocchi, Y., Verdier-Paoletti, M., Villeneuve, J., & Gounelle, M. 2016, *ApJL*, 826, L1