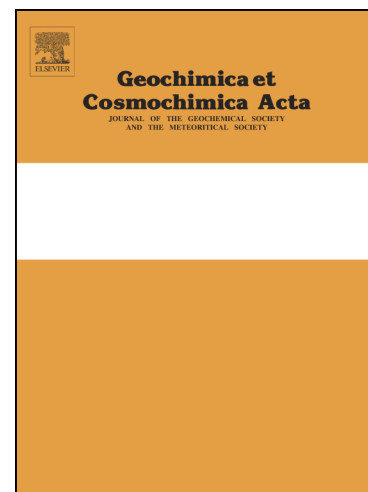


Accepted Manuscript



The Northwest Africa 8159 Martian Meteorite: Expanding the Martian Sample Suite to the Early Amazonian

Christopher D.K. Herd, Erin L. Walton, Carl B. Agee, Nele Muttik, Karen Ziegler, Charles K. Shearer, Aaron S. Bell, Alison R. Santos, Paul V. Burger, Justin I. Simon, Michael J. Tappa, Francis M. McCubbin, Jérôme Gattacceca, France Lagroix, Matthew E. Sanborn, Qing-zhu Yin, William S. Cassata, Lars E. Borg, Rachel E. Lindvall, Thomas S. Kruijer, Gregory A. Brenneka, Thorsten Kleine, Kunihiko Nishiizumi, Marc W. Caffee

PII: S0016-7037(17)30539-2
DOI: <http://dx.doi.org/10.1016/j.gca.2017.08.037>
Reference: GCA 10442

To appear in: *Geochimica et Cosmochimica Acta*

Received Date: 3 November 2016

Please cite this article as: Herd, C.D.K., Walton, E.L., Agee, C.B., Muttik, N., Ziegler, K., Shearer, C.K., Bell, A.S., Santos, A.R., Burger, P.V., Simon, J.I., Tappa, M.J., McCubbin, F.M., Gattacceca, J., Lagroix, F., Sanborn, M.E., Yin, Q-z., Cassata, W.S., Borg, L.E., Lindvall, R.E., Kruijer, T.S., Brenneka, G.A., Kleine, T., Nishiizumi, K., Caffee, M.W., The Northwest Africa 8159 Martian Meteorite: Expanding the Martian Sample Suite to the Early Amazonian, *Geochimica et Cosmochimica Acta* (2017), doi: <http://dx.doi.org/10.1016/j.gca.2017.08.037>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**The Northwest Africa 8159 Martian Meteorite:
Expanding the Martian Sample Suite to the Early Amazonian**

Christopher D. K. Herd¹, Erin L. Walton^{1,2}, Carl B. Agee³, Nele Muttik³, Karen Ziegler³, Charles K. Shearer³, Aaron S. Bell³, Alison R. Santos³, Paul V. Burger³, Justin I. Simon⁴, Michael J. Tappa⁵, Francis M. McCubbin⁴, Jérôme Gattacceca⁶, France Lagroix⁷, Matthew E. Sanborn⁸, Qing-zhu Yin⁸, William S. Cassata⁹, Lars E. Borg⁹, Rachel E. Lindvall⁹, Thomas S. Kruijer¹⁰, Gregory A. Brennecke¹⁰, Thorsten Kleine¹⁰, Kunihiro Nishiizumi¹¹, Marc W. Caffee^{12,13}

¹Department of Earth and Atmospheric Sciences, University of Alberta, Edmonton, Alberta, T6G 2E3, Canada

²Department of Physical Sciences, MacEwan University, Edmonton, Alberta, T5J 4S2, Canada

³Institute of Meteoritics, Department of Earth and Planetary Sciences, University of New Mexico, Albuquerque, NM 87131, USA

⁴NASA Johnson Space Center, Mailcode XI2, 2101 NASA Parkway, Houston, Texas 77058

⁵Jacobs Technology, NASA Johnson Space Center, Houston, TX, 77058, USA

⁶CNRS, Aix Marseille Univ, IRD, Coll France, CEREGE, Aix-en-Provence, France

⁷Institut de Physique due Globe de Paris, Paris, France

⁸Department Earth and Planetary Sciences, University of California-Davis, One Shields Avenue, Davis, CA 95616

⁹Lawrence Livermore National Laboratory, 7000 East Avenue (L-231), Livermore, CA 94550

¹⁰Institute for Planetology, Westfälische Wilhelms-Universität Münster, Wilhelm-Klemm-Str. 10, 48149 Münster, Germany

¹¹Space Sciences Laboratory, University of California Berkeley, Berkeley, CA, 94720-7450, USA

¹²Department of Physics and Astronomy, Purdue University, West Lafayette, IN 47907-2036, USA

¹³Department of Earth, Atmospheric, and Planetary Sciences, Purdue University, West Lafayette, IN 47907-2036, USA

Revised in response to AE comments

Geochimica et Cosmochimica Acta

Version of: August 22, 2017

Download English Version:

<https://daneshyari.com/en/article/5783296>

Download Persian Version:

<https://daneshyari.com/article/5783296>

[Daneshyari.com](https://daneshyari.com)