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Rare meteorites common in the Ordovician period

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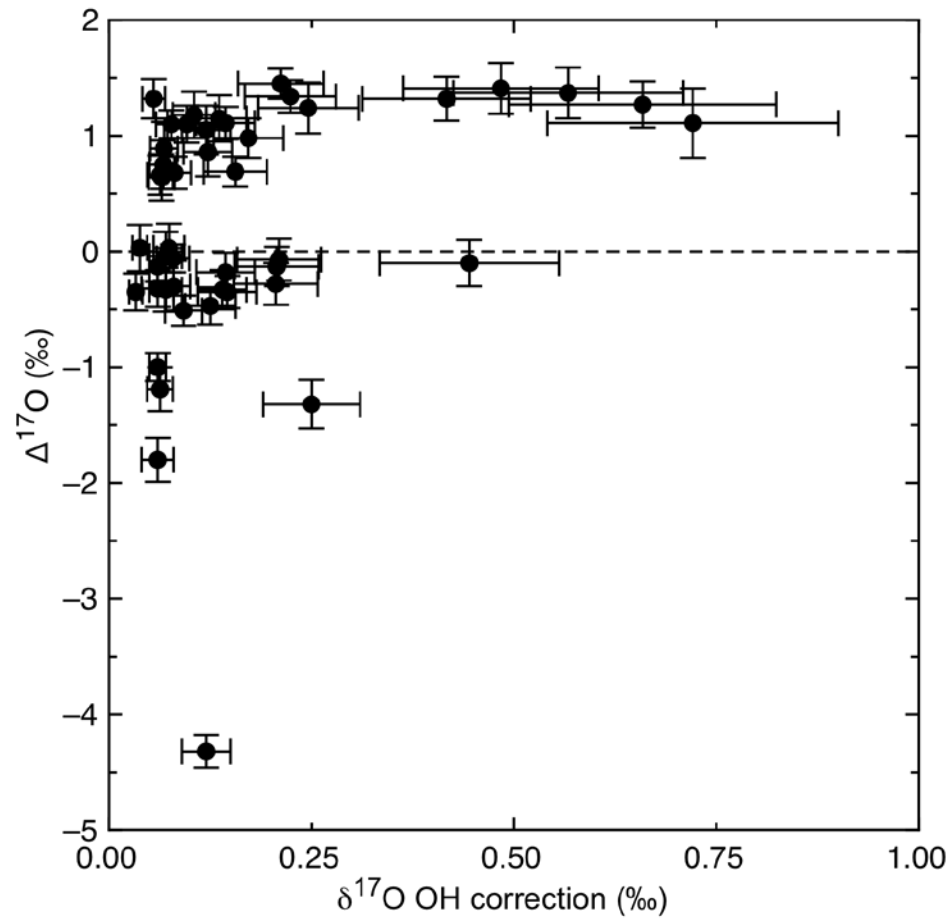
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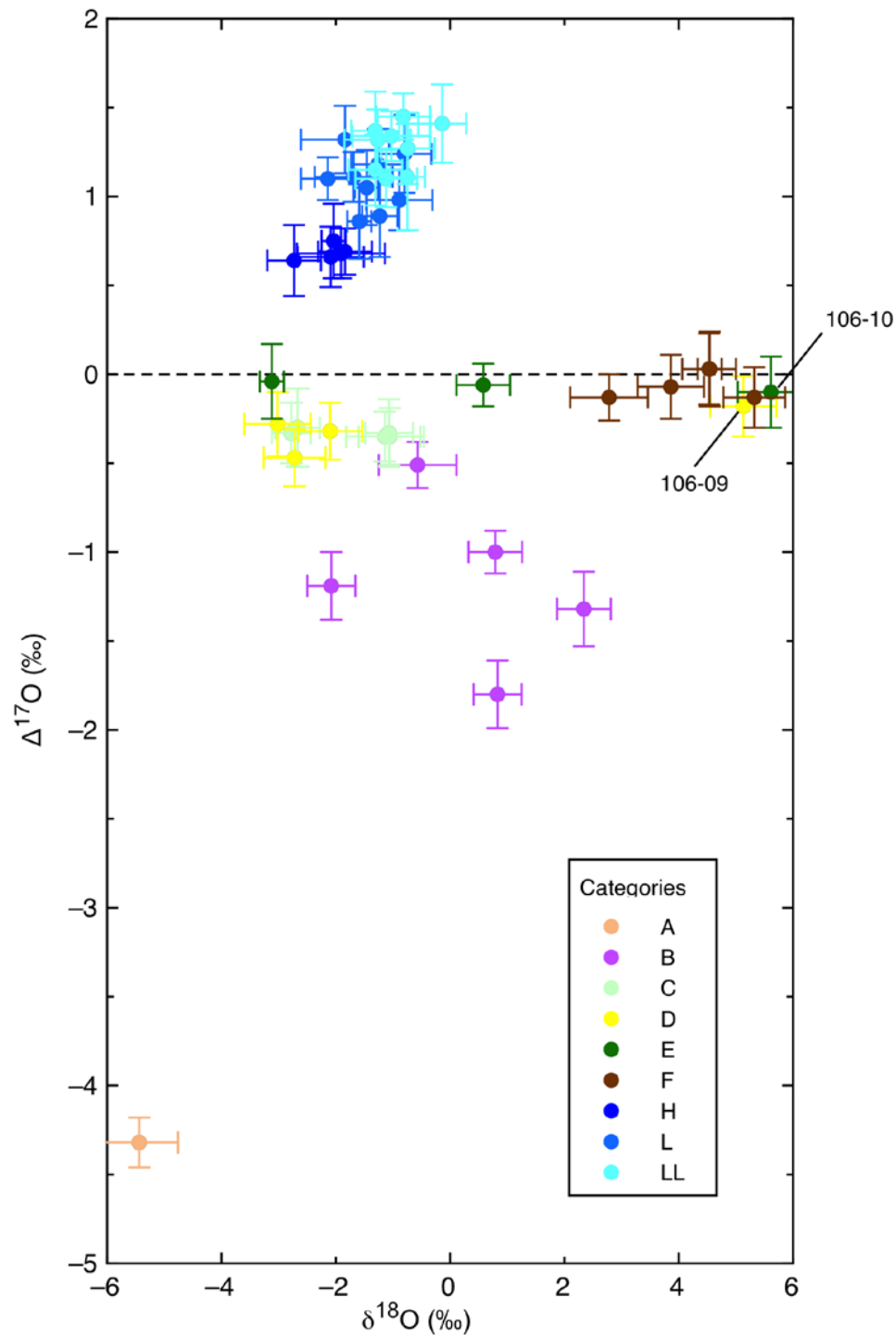
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Supplementary Figure 1. Values of $\Delta^{17}\text{O}$ shown with corresponding $[\text{}^{16}\text{O}^1\text{H}]^-$ correction on $\delta^{17}\text{O}$. Error bars are 2σ .



Supplementary Figure 2. Values of $\Delta^{17}\text{O}$ and $\delta^{18}\text{O}$. Although samples 106-10 and 106-09 have $\Delta^{17}\text{O}$ and $\delta^{18}\text{O}$ values similar to group F grains they have high V_2O_3 contents (1.2 and 0.5 wt%, resp.) which indicates that are likely extraterrestrial.

Classification	Present fall #	Fraction of falls
Ordinary chondrites	897	81%
<i>H</i>	<i>367</i>	<i>33%</i>
<i>L</i>	<i>420</i>	<i>38%</i>
<i>LL</i>	<i>101</i>	<i>9.1%</i>
Other chondrites (C*, E*, R, K* and ungrouped)	69	6.2%
Achondrites	81	7.3%
<i>Primitive</i>	<i>3</i>	<i>0.3%</i>
<i>HED</i>	<i>64</i>	<i>5.8%</i>
<i>Ungrouped</i>	<i>1</i>	<i>0.1%</i>
<i>Other (incl. lunar and martian)</i>	<i>13</i>	<i>1.2%</i>
Iron*, Pallasites*, Mesosiderites*	60	5.4%
Total	1107	100%

Supplementary Table 1. Present-day meteorite fall statistics.

* Meteorite types generally without or with very low contents of $> 63 \mu\text{m}$ Cr-spinel grains.

Data from Meteoritical Bulletin Database, Version June 15, 2016,

<http://www.lpi.usra.edu/meteor/metbull.php>

Supplementary Data

Supplementary Data is available as individual files.

Supplementary Data 1: Data table with $\Delta^{17}\text{O}$, TiO_2 and V_2O_3 values and classification of fossil micrometeorites. Excel format, 16 KB.

Supplementary Data 2: Chrome spinel abundances in different types of meteorites. Excel format, 47 KB.

Supplementary Data 3: Reference data. Excel format, 57 KB.

Supplementary Data 4: Full data table with O-isotopic SIMS data and quantitative elemental EDS data. Excel format, 20 KB.