

PRINT ONLY: ASTROBIOLOGY

Horner J. Mousis O. Petit J.-M. Jones B. W.

[*Differences Between the Impact Regimes of the Terrestrial Planets*](#) [#1179]

We present detailed results on the similarities and differences between the impact regimes experienced by Venus, the Earth and Mars, taking into account populations of asteroidal and cometary impactors.

Ivarsson M. Lindgren P. Neubeck A. Broman C. Holm N. G. Henkel H.

[*Filamentous Structures in a Hydrothermal System of the Dellen Impact Structure, Sweden — Putative Microfossils?*](#) [#1260]

This is a report on the occurrence of putative microfossils in a hydrothermal system of the Dellen impact structure, Sweden.

Méndez A.

[*Standard Planetary Habitability \(SPH\) of Global Land Areas*](#) [#2333]

This work presents the Standard Planetary Habitability (SPH), a quantity that measures and compares the potential for life of global land areas for primary producers. The SPH provides a simpler and complimentary method to NDVI, faPAR, and NPP to assess the biosphere.

Thomas-Keprta K. L. Clemett S. J. McKay D. S. Gibson E. K. Wentworth S. J.

[*Thermal Decomposition of an Impure \(Roxbury\) Siderite: Relevance to the Presence of Chemically Pure Magnetite Crystals in ALH84001 Carbonate Disks*](#) [#2116]

Thermal decomposition of Roxbury siderite resulted in the formation of impure (Mg,Mn)-ferrites. These findings, which are supported by kinetic and thermodynamic equilibrium modeling studies, are in stark contrast to the chemically pure ALH 84001 magnetite.