#0051

## More on the Saricicek meteorite (howardite): shock stage and magnetic signature

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Detailed results of a large consortium study on the Saricicek meteorite fall (Turkey 2015) have been published by Unsalan et al., 2019 [1]. The meteorite was shown to be a howardite, a complex achondritic breccia which belongs to the HED clan.

The shock distribution as obtained by Raman Spectroscopy was found to be quite inhomogeneous which is typical for a regolith breccia. Most plagioclase Raman spectra point to quite low shock stages (S 1–2). However, severely shocked feldspar grains and the presence of ringwoodite indicate local minimum shock values of at least 22 GPa.

Magnetic susceptibility (MS in log 10<sup>-9</sup> m<sup>3</sup>/kg) was measured on several stones and gave a mean value of 3.22 which is within the literature range of 3.06–3.62 for howardites. In addition, new original MS data on a set of HED will be provided. Please see our poster for more details.

## **References:**

[1] Unsalan O. and the Saricicek consortium, 2019. The Saricicek howardite fall in Turkey: Source crater of HED meteorites on Vesta and impact risk of Vestoids. MAPS doi: 10.1111/maps.13258.

Cite abstract as:

Hoffmann, V.H., Wimmer, K., Kaliwoda, M., Hochleitner, R., et al. (2019) More on the Saricicek meteorite (howardite): shock stage and magnetic signature. Paneth Kolloquium, Nördlingen (Germany), abstract URL: http://www.paneth.eu/PanethKolloquium/2019/0051.pdf (abstract #0051).