



Paleointensity.org: a new web-application to analyse paleointensity data

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Paleointensity.org is an online application to analyse paleointensity data produced by different methods and experiments. Ultimately, the website will support four different paleointensity methods: Thermal-Thellier, Microwave Thellier, pseudo-Thellier, and Multispecimen techniques. For each of these methods data files can be uploaded, visualized, interpreted and exported, also to the MagIC database. For sites that were subjected to multiple techniques, the results are gathered in a single overview, and the final average with its associated uncertainty can be determined.

The data is visualized by the applicable graphs, and can be interpreted on sample level with easy to use key-board controls. Beyond the manual interpretation of data, we support an automated interpretation for the Thellier-type experiments on sample-level based on pre-defined selection criteria. It is possible to export your local storage containing all data and saved interpretations. This exported file can be shared among researchers or attached to your paper as supplementary information, and can later be imported to the application to visualize all data and interpretations. Although the application runs in a web browser, all data is stored locally and is not sent over the internet for its interpretation.

With paleointensity.org we present an open-source platform to ease and standardize the interpretation of the most common paleointensity techniques. More paleointensity techniques can be added if desired by the community.