



## **Palaeointensity of the Plio-Pleistocene Boring Volcanic Field**

Florian Lhuillier (1), Valeriy Shcherbakov (2), Stuart A Gilder (1), and Jonathan T Hagstrum (3)

(1) Department of Earth and Environmental Sciences, Ludwig-Maximilians-Universitaet, Munich, Germany, (2) Borok Geophysical Observatory, Russian Academy of Sciences, Yaroslenskaya Region, Russia, (3) U.S. Geological Survey, 345 Middlefield Road, Menlo Park, CA 94025, USA

The Boring Volcanic Field of the Pacific Northwest, USA, consists of more than 80 eruptive units ranging in age from 3200 to 60 ka. We carried out in this study absolute (Wilson + Thellier-Coe) and relative (pseudo-Thellier) palaeointensity experiments. We managed to determine robust palaeointensity estimates for 12 independent cooling units, whereas the pseudo-Thellier analysis yielded estimates for 47 out of the 137 investigated sites, giving an insight into the relative variability of the Earth's magnetic field during this period. We would like to compare the present results with the existing database for the last 3 myr and discuss their implications in terms of geodynamo process. From a methodological point of view, we would also like to comment on the reliability of the pseudo-Thellier method on volcanic rocks.