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New palaeomagnetic data from the Brunhes-Matuyama reversal: A global perspective

M. C. Brown (1), M. N. Gratton (1), V. Soler (2), L. L. Brown (3), C. L. Johnson (4), J. Shaw (1)

(1) Geomagnetism Laboratory, Department of Earth and Ocean Sciences, University of Liverpool, UK (m.c.brown@liv.ac.uk), (2) Estacion Volcanologica, Instituto de Productos Naturales, La Laguna, Tenerife, Spain, (3) Department of Geosciences, University of Massachusetts, Amherst, Massachusetts, USA, (4) Scripps Institution of Oceanography, University of California at San Diego, La Jolla, California, USA

We present our most recent palaeointensity and palaeodirectional results from the Brunhes-Matuyama geomagnetic field reversal. We look at seven dated volcanic sequences from four global locations: Chile, Guadeloupe, La Palma and the Azores. These sections sample the BM boundary, possible precursors and fluctuations in the magnetic field prior to the main polarity reversal. Absolute palaeointensity values were determined using the 14GHz microwave system, and a combination of published directional data and new directional results from thermal demagnetisations were used to define the full vector of the field during the reversal. We use these results to explore the differences and similarities between the sites, and attempt to provide a clearer picture of reversal behaviour.