

Description of supplementary data

Supplementary Data 1. Zircon U-Pb geochronologic analyses of granite (BMG1) and gabbro (BMR1) samples of the Emeishan large igneous province intrusions near the paleomagnetic sampling locality.

Supplementary Data 2. Zircon fission track dates of 15 grains from the granite sample (BMG1).

Supplementary Data 3. Hysteresis parameters of the plagioclase and groundmass (gm) specimens from gabbro of the Emeishan large igneous province.

Supplementary Data 4. Hysteresis parameters of a plagioclase grain measured in eight directions.

Supplementary Data 5. Demagnetization results of individual gabbro samples.

Supplementary Data 6. Site-mean characteristic remanent magnetization directions of the eight gabbro sites.

Supplementary Data 7. Fe and Ti contents of plagioclase background (30 spots) and needle Fe-Ti oxide inclusions (257 spots) in representative plagioclase grains determined by energy-dispersive spectroscopy analysis.

Supplementary Data 8. Paleointensity results for the plagioclase grains from gabbro of the Emeishan large igneous province.