

Paleomagnetic study of middle Triassic red sandstones from Nanjing area and Nanzhang area, China

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Middle Triassic red sandstones were collected for paleomagnetic study from Nanjing area (32N,119E), Jiangsu Province and Nanzhang area (31.5N,111.7E), Hubei Province, China. After detailed thermal demagnetization analysis of 352 samples (22 sites), the high temperature components (HTC) with an unblocking temperature of 675 degree C were identified. The mean direction of HTC is recognized as the characteristic direction of the middle Triassic of Nanjing area for the presence of both normal and reversed polarities, and yields a pole at 224.6E, 52.5N, A95=5.0. The directions of HTC from the Nanzhang area passed the fold test and giving a mean paleopole at 214.8E, 50.6N, A95=10.1. This would seems that little tectonic rotation occurred between Nanjing and Nanzhang area since middle Triassic.