Impacts of Reductive Diagenesis on Paleomagnetism in the Ediacaran Doushantuo Carbonates from South China Block

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Reductive diagenesis of magnetic minerals in sediments distorts the magnetic mineralogy and magnetic records. Therefore, it is of great scientific significance to explore the process of magnetic minerals in diagenesis, which directly affects the quantity of magnetic data. Doushantuo period is an important geological period at the end of Precambrian in which the paleoenvironmental conditions dramatically changed, multicellular life evolved, and the Rondinia supercontinent broke up. This makes the Doushantuo period a hotspot of geoscientific research. Our study takes Doushantuo Formation at Yangjiaping Section as an example, combining rock magnetic and geochemical methods, in order to analyze the correlation between remanence characteristic and diagenesis.