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Precambrian metallogeny, tectonics and correlations- Preface

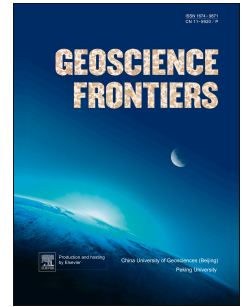
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Editorial

Precambrian metallogeny, tectonics and correlations- Preface

The Precambrian continental nuclei in various parts of the globe preserve the records of important magmatic, metamorphic and tectonic events associated with the secular evolution of the Earth. In this thematic section of “Geoscience Frontiers”, we assemble a set of four key papers that address these topics from four key terranes: Western Australia, North China, north-western India and East Antarctica.

In the first paper, Aitken et al. (2018- this issue) provide a scholarly overview of the tectonics and mineral systems of Western Australia and explore their relationship with several key events in the evolution of Earth including global oxidation events and glaciations, as well as the assembly, accretionary growth, and breakup of the Proterozoic supercontinents. The authors illustrate that the Proterozoic mineral systems evolved in response to the coupled evolution of the atmosphere, hydrosphere, biosphere and lithosphere. They adopt a matrix-based approach that considers two components: the “global secular likelihood” and the “tectonic setting likelihood”. They also identify systemic

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