Society Update

Heritage Matters

y TAG 206 column outlined the criteria for the first 100 sites of global geoheritage significance published by the International Union of Geological Sciences (IUCN 2022). It noted the listing of the Uluru Inselberg as one of the globally significant sites. Further to this, the outcrop of the Ediacaran fossil site in South Australia was also recognised and listed.

The Ediacara Hills is an iconic and internationally significant fossil locality preserving early multicellular life, and is the namesake of the Ediacaran period. The area contains a Global Boundary Stratotype Section and Point (GSSP). The GSSP is defined by the IUGS International Commission on Stratigraphy (ICS) as an internationally agreed upon reference point on a stratigraphic section that defines the lower boundary of a stage on the geologic time scale. The boundary is marked by a 'Golden Spike'.

The GSSP in the Flinders Ranges, located in Enorama Creek within the Flinders Ranges National Park, was ratified by the ICS in 2004. It pinpoints the lower boundary of the then newly recognised Ediacaran Period. The base of the Ediacaran Period is defined by a Golden Spike at the base of the Nuccaleena Formation cap carbonate, which is composed of laminated to well-bedded dolomicrite (Dalgarno & Johnson 1964), directly above glacial diamictites and associated facies.

The new Ediacaran Period encompasses a distinctive interval of Earth history that is bounded both above and below by equally distinctive intervals. The history of this site, fossil studies, and the GSSP selection process for the site are outlined in more detail by Preiss (2005) and Knoll et al. (2006). Precambrian fossils in the region include the iconic Dickinsonia, Sprigging and Tribrachidium.

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Location of the 'Golden Spike' in lower part of photograph showing the lower boundary of newly recognised Ediacaran Period. Image courtesy Peter Neaum and Geological Survey of SA

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