

The depositional environment of the Mid-Palaeozoic red beds at Hutan Aji, Perlis and its bearing on global eustatic sea level change

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Late Devonian – Early Carboniferous red coloured mudstones and sandstones are widely distributed in northwest Peninsular Malaysia. A relatively complete and well preserved sequence is exposed at Bumita Quarry, Hutan Aji, Perlis, and is described herein. The facies associations observed are indicative of a marine prodelta-delta front depositional environment for the Mid-Palaeozoic red beds. A thin (9m) black mudstone facies in the middle of the Bumita Quarry sequence may represent the Latest Devonian Hangenberg Anoxic Event. The occurrence of a Mid-Palaeozoic orogeny is refuted. The major regression just after the global Hangenberg Event transgressive episode is proposed as the cause of the major, pre-Carboniferous paraconformity observed in mid-Palaeozoic successions of the Sibumasu/Shan-Thai Terrane.