

Early Permian sequence from Sungai Itau quarry, Langkawi: its age, depositional environment and palaeoclimatic implication

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A sequence of thickly bedded sandstone, massive mudstone, silty shale and massive sandstone exposed at a quarry in Kampung Sungai Itau, Langkawi is described herein. In the lower part, sandstone with calcareous horizons is rhythmically interbedded massive black pebbly mudstone or diamictite indicates sea level fluctuation influenced by glaciation and deglaciation of the Gondwana supercontinent. The deposition took place in the outer shelf. The silty shale yields an Early Permian (late Asselian-Sakmarian) brachiopod assemblage of strong Gondwanan affinity. The massive sandstone on the top part of the section represents a storm deposit.