

SEQUENCE OF STRATAS OVER THE IRON BOUND RANGE

All stratas over the Iron Bound Range dipping to the east and south east, form a western limb of a syncline, extending on both sides of the New River Lagoon.

The following sequence have been observed from the Western Iron Bound Ranges to the New River Lagoon:-

(1) The quartzitic schists (silicified schists) over the top of the western and north-western Iron Bound Ranges with its in places conglomeratic schists with stretched pebbles dip N.N.E. approximately 45° , are overlain disconformably by the Prion Bay formation made of (2) Breccia conglomerates and the reddish quartzites with some traces of worm tracks, forming an unconformity between the oldest quartzitic schists and the Breccia conglomerates. The average thickness of the breccia conglomerates do not exceed 150 Ft.

The reddish quartzites pass conformably into grey yellowish white weathering (3) quartzitic sandstones (porous) interbedded with gritty quartzitic sandstones and conglomerates of grey greenish colour. These quartzitic sandstones are interbedded upwards with dark grey phyllitic slates, passing into (4) greywacke's (compact steel grey if fresh, weathering greenish siltstones), interbedded with greywacke sandstones (if fresh greenish) with worm tracks. These rocks pass into a series of (5) grey quartzitic sandstones weathering white and yellowish, interbedded with dark grey phyllitic slates, passing into (6) soft greenish shales with load casts, slump structures etc. (graded beddings), interbedded with grey porous sandstones and grits. Over these soft series of rocks are lying still conformably the thick bedded greenish grey and grey gritty (7) sandstones and conglomeratic sandstones interbedded with fine conglomerates.

This (2 - 7) formation of rocks (Prion Bay) from the basal breccia conglomerates, conglomerates and reddish quartzites to the thick bedded (7) sandstones is overlain unconformably by the Owen conglomerate dipping S.E.

Proceeding along the Prion bay beach eastwards, grey and dark grey phyllitic schists and graphitic schists have been found all the way along the beach in the roots of the lying Kelp. These rocks are much older than the Prion Bay formation and it being in the middle of the syncline suggest a Horst, over the Long Bay Lagoon.

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