

above the present high water level ; and contains shells now inhabiting the neighbouring sea, as *patelia vulgata*, *patelia lævis*, *trochus ziziphinus*, *littorina littorea*, *turbo retusus*. At Gamrie, celebrated for its ichthyolites, Mr. Prestwich found, in light coloured sands, associated with rolled gravel and dark clay beds, the following recent shells : — *Astarte Scotica*, *tellina tenuis*, *buccinum undatum*, *natica glaucina*, *fuscus turricola*, *dentalium dentalis*, &c. They were extremely friable, but perfect. The deposit attains, in some places, a thickness of 250 feet, and rises to an height of 350 feet. *

On Moel Tryvaen (1450 feet above the sea), the shells (*buccinum*, *natica*, *turbo Venus*) were in fragments, adhering to the tongue, very much as in some tertiary deposits: they lie in sands and gravel, with granite boulders, 1000 feet above the sea, the country between them and the Menai being greatly broken, the rocks below the bed of shells worn and scratched by the drifting of the pebbly masses. †

In Cheshire, the shelly gravel and sands, containing *turritella terebra*, *murex erinaceus*, and *cardium edule*, are covered by the ordinary sandy diluvium of Cheshire, in which are many erratic blocks from the North of England, as well as pebbles from the Welsh border.

In and near the valley of the Ribble, for some miles inland, from its mouth, near Blackpool, by Preston to the base of Longridge fell, and on Whittle hills, from the level of the sea to 300 feet above it, occur beds of marl, sand, and gravel, *under the ordinary diluvium with erratic blocks*, locally full of shells of mollusca now living on the neighbouring coast — such as *turritella terebra*, *cardium edule*, *tellina solidula*, &c. The lamination of these shelly beds is irregular, resembling a modern beach accumulated under the influence of strong currents.

Somewhat different appearances are seen in the opposite parts of Yorkshire, especially in the district of Holderness, where sandy and gravelly beds, full of pebbles and fragments of Cumbrian rocks, contain, at

* Geological Proceedings, 1857

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