

[II.]

## ROCK SPECIMENS.

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THE following are brief Notes on the Rock Specimens collected by Mr. C. Hedley :—

*Coarse Sand*.—A specimen of coarse sand from the western sea beach of the Atoll, consists principally of waterworn fragments of coral and coral rock, comminuted or small shells, the tests of the Foraminifera *Orbitolites complanata*, *Tinoporus baculatus*, and to a smaller extent *Polytrema muriaceum*, *Amphistegina lessonii*, and a few fragments of Echinoderms. It is entirely calcareous.

*Calcareous Conglomerate*.—A calcareous conglomerate was obtained from the bore put down at Luamanif, on the southern sea coast of the islet of Funafuti, at a depth of ten feet. The mass is rather loosely cemented together, and the individual particles are similar to those composing the beach sand. Their relative quantities, however, differ somewhat. The tests of *Orbitolites complanata* although numerous, do not form such a large proportion of the mass, while those of *Amphistegina lessonii* are much more numerous represented. It also contains well worn pebbles of coral rock up to one inch and one inch and a half in length. A thin layer of carbonate of lime encrusts all the components and forms the cementing material. This coating has previously been noticed by Mr. J. E. Carne\* to occur on surface sand at Norfolk Island.

*Conglomerate*.—A firmly coherent conglomerate containing similar materials to those of the preceding rock, the tests of *Orbitolites complanata*, however, appearing to be relatively still less numerous. The mass consists more especially of waterworn pieces of coral-rock, with a large proportion of the tests of both *Tinoporus baculatus* and *Amphistegina lessonii*. It is much consolidated by a deposit of carbonate of lime around each separate

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\* An. Rep. Dep. Mines, N.S.W., for 1885, p. 145.