

from New-Zealand seas, 48 from either New-Zealand or Australian waters, and 28 have been found fossil in Australia. Judging from these alone, it would seem that some authors have assigned too remote an age to the deposits. The new forms described were:—

<p><i>Membranipora occultata</i>  <i>Monoporella capensis</i>, var. <i>dentata</i>.      ——— <i>waipukurensis</i>.  <i>Micropora variperforata</i>.  <i>Mucronella tricuspis</i>, var. <i>waipukurensis</i>.      ———, var. <i>minima</i>.      ——— <i>firmata</i>.</p>	<p><i>Porina grandipora</i>.  <i>Lepralia semiluna</i>, var. <i>simplex</i>.      ——— <i>bistata</i>  <i>Schizoporella cinetipora</i>, var. <i>personata</i>.      ——— <i>tuberosa</i>, var. <i>angustata</i>.  <i>Cellepora decepta</i>.      ———, sp.</p>
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### CORRESPONDENCE

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#### ON THE OCCURRENCE OF PHOSPHATIC NODULES IN THE LOWER GREENSAND, EAST OF SANDOWN.

SIR,—When working near Sandown, in company with Mr. H. Keeping, we observed several beds of phosphatic nodules in the Lower Greensand; these do not appear to have been previously noticed, no mention being made of them in the Survey or other memoirs on the district. Mr. Bristow describes some “concretionary masses or bodies” which occur in Fitton’s bed No. xvi. at Rocken End, near Black Gang: these may represent some of the nodule beds at Sandown.

The phosphates are of a light brown colour, and occur at four horizons. The three lowermost are very distinct, and come between 160 and 200 feet from the top of the Lower Greensand, whilst the fourth is some distance higher up. The second band from the bottom is about seven inches in thickness, and from it the following fossils were obtained:—*Ammonites bplex*, Sow. *A. cordatus*, Sow. *Pleurotomaria* sp. *Cardium striatulum*? *Lucina* sp. *Myacites* sp. *Cytherea rugosa*? *Arca contracta*, Phill. They are all much rounded, and difficult to determine. In this bed there are also fragments of various rocks, such as quartzite, lydian stone, etc., the first of which greatly resembles those in the Budleigh Salterton pebble bed. The nodules in the upper band are much smaller, and are associated with a great many quartz pebbles.

The phosphates and fossils of the lower beds are very similar to those of Brickhill and Potton in Bedfordshire, Wicken in Cambridgeshire, and Tealby in Lincolnshire. The second bed noticed above is sufficiently thick to be worked for commercial purposes, but the strata dip at such a high angle, that but little of the phosphates could be profitably obtained.

The Geological Survey is now engaged in the district, and the exact horizons at which the nodules occur will no doubt be given in their sections.

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#### THE PEA GRIT OF LECKHAMPTON HILL.

SIR,—The letter of my friend, Mr. E. Wethered, in the last number of the MAGAZINE, requires some notice from me. Mr. Wethered takes exception to a remark in my paper on the basement-beds of the Inferior Oolite, that the beds between the Pea Grit proper and the