

Genus *Unio*.

UNIO WAIKARENSE. Shell, oblong, or oblong-ovate, concentrically and irregularly sulcated, sub-diaphanous, inflated; anterior side produced, obtuse, slightly compressed; posterior slope, keeled, sharp: base, slightly depressed; umbones, decorticated, flattish, much worn; primary tooth, large crested; epidermis, strong, overlapping at margin, wrinkled on anterior slope; colour, brownish-yellow on posterior side, shading into dusky-green on the anterior, with alternate light-coloured lateral stripes; $3\frac{1}{2}$ inches broad, $2\frac{1}{2}$ inches long.

Hab. Waikare Lake, mountains, interior of the North Island of New Zealand.

The largest and handsomest of all the known New Zealand species of the genus.

ART XXIII.—Notes on New Zealand Mollusca.

By Mr. Justice GILLIES, Auckland.

[Read before the Auckland Institute, 11th July, 1881.]

DURING my recent trip to England I took with me the late Dr. Sinclair's collection of New Zealand shells, mostly collected in the North Island, and had them named according to the specimens in the British Museum by the aid of Mr. G. B. Sowerby, junr., and Mr. E. A. Smith, of the British Museum, to both of whom my best thanks are due for their kindness. On my return to the colony I have compared these with Professor Hutton's type specimens, in the Colonial Museum, Wellington, and in the Dunedin Museum. The following is the result of my researches, which may probably prove useful to those interested in New Zealand conchology. The pages given refer to the new edition of the "Catalogue of New Zealand Mollusca," by Professor Hutton; Wellington, 1880.

PAGE

16. *Helix reinga*—Doubtful if ever found in New Zealand.
41. *Conus aplustre*—Add to catalogue. I have a single specimen from the Bay of Islands, but it is doubtful whether either this or *Conus zealandicus* really belong to New Zealand. They may have been dropped from some South Sea whaler, of which many visit the Bay of Islands.
42. *Acus kirki* is *Terebra tristis* of Deshayes and *T. antarctica* of Smith.

PAGE

43. *Pleurotoma zealandica*—Amend description as follows: instead of “tapering gradually” read “gradated,” and instead of “caudal keel small, set round with dusky,” read “cauda set round with small brown keel.”
44. *Drillia cheesemani*—Omit, as this is the same as *Pleurotoma zealandica*, Smith.
45. *Defranchia luteo-fasciata*—Substitute *Drillia sinclairi*, Smith, manuscript. *D. luteo-fasciata* is a very small West Indian shell described by Reeve.
48. *Trophon stangeri* is clearly the same as *Fusus cretaceus* of Reeve.
54. *Cominella lurida* and *huttoni* are the same, and are the *quoyana* of the British Museum.
54. *Cominella funerea* is *C. costata*.
55. *Nassa rutilans*, etc., are not New Zealand. I have *N. cancellata*, A. Adams, *N. semigranosa*, and *Strombus variabilis*, all found at Bay of Islands, but all doubtful, as before remarked as to *Conus*.
59. *Fasciolaria trapezium*—Add to catalogue. I have one specimen collected by the late Dr. Sinclair.
60. *Mitra rubiginosa*, Hutton—Should be changed as there is a *M. rubiginosa* of Reeve, Proc. Z. Soc., 1844.
62. *Marginella albescens* can hardly be distinguished from *M. australis*, although a little smaller.
63. *Marginella muscaria*, Lam.—Substitute for *Erato lactea*, Hutton.
66. *Cypræa*—I have a specimen of *Cypræa* found on the beach at the Bay of Plenty in _____, by Rev. Mr. Chapman, but I fear that both this and *C. punctata* are dropped shells, not New Zealand.
68. *Struthiolaria inermis* is the same as *australis*.
70. *Scalaria lyra* is not the *lyra* of Sowerby. It is most like *rubrolineata*, but the band is on the middle of the whorl of the latter.
70. *Scalaria jukesii*—Add to catalogue. I have specimens; also of another new species.
- Scalaria wellingtonensis*—Add to catalogue. Described in “Trans. N. Z. Inst.,” vol. xii., p. 307.
73. *Eulima chathamensis* is *Rissoa variegata*, Angas.
92. *Calcar cookii* is *Cookia cookii* of the British Museum.
- Calcar imperialis* is *Imperator heliotropium* of the British Museum.

PAGE

95. *Diloma athiops* is not *Monodonta reticularis* of Gray; the latter ought to be replaced in catalogue, as I have both.
96. *Diloma gaimardi* is same as *D. sulcatus*, Wood.
96. *Trochocochlea mimetica*, Hutton, is *M. reticularis*, Gray.
98. *Zizyphinus granatus*, Chemnitz, is not the same as *Z. tigris*, Martyn; the *granatus* of Dunedin Museum is *tigris*.
103. *Margarita fulminata* should be a *Gibbula*.
Margarita, nov. sp.—Add to catalogue. Perhaps *Gibbula inconspicua* of Hutton, p. 102.
106. *Emarginula candida*, A. Adams—Add.
Emarginula tenui-costata—Add.
Tugalia ossea—Add.
107. *Tectura pileopsis*—Add.
Tectura fragilis—Add.
110. *Patella stellaris*—Add. Like one named *corticata* in Dunedin Museum, but not quite.
113. *Lepidopleurus crocinus*, Reeve—Add. This is probably *L. empleurus*, Hutton.
118. *Ischnochiton antiquus*, Reeve—Add.
121. *Haminea zealandiæ* and *obesa* are the same.
136. *Anatina tasmanica* is *A. angasii*.
143. *Tellina disculus* is not the same as *sublenticularis* of Sowerby.
159. *Cardita zealandica* is the same as *compressa* of Reeve.
167. *Mytilus edulis* is neither *edulis* nor *dunkeri* of Reeve.
171. *Pecten vellicatus*, Hutton, is the same as *convexus*, Q and G, and *roseapunctatus*, Reeve.
Adamsia typica—Add.

ART. XXIV.—Additions to the New Zealand Crustacea.

By CHARLES CHILTON, B.A.

[Read before the Philosophical Institute of Canterbury, 13th October, 1881.]

Plate VIII.

THIS paper contains the descriptions of three new species of Crustacea; two belonging to the *Brachyura* and one to the *Isopoda*. I also describe the male of a species of *Amphipoda*, the female only having been hitherto known.