

NEW ZEALAND.

Department of Mines.



NEW ZEALAND GEOLOGICAL SURVEY.

(P. G. MORGAN, Director.)

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DESCRIPTIONS OF
NEW TERTIARY MOLLUSCA OCCURRING IN NEW ZEALAND,

ACCOMPANIED BY

A FEW NOTES ON NECESSARY CHANGES IN NOMENCLATURE.

PART I.

BY

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PART I.

CHAPTER I.

Class PTEROPODA.

Fam. CAVOLINIDÆ.

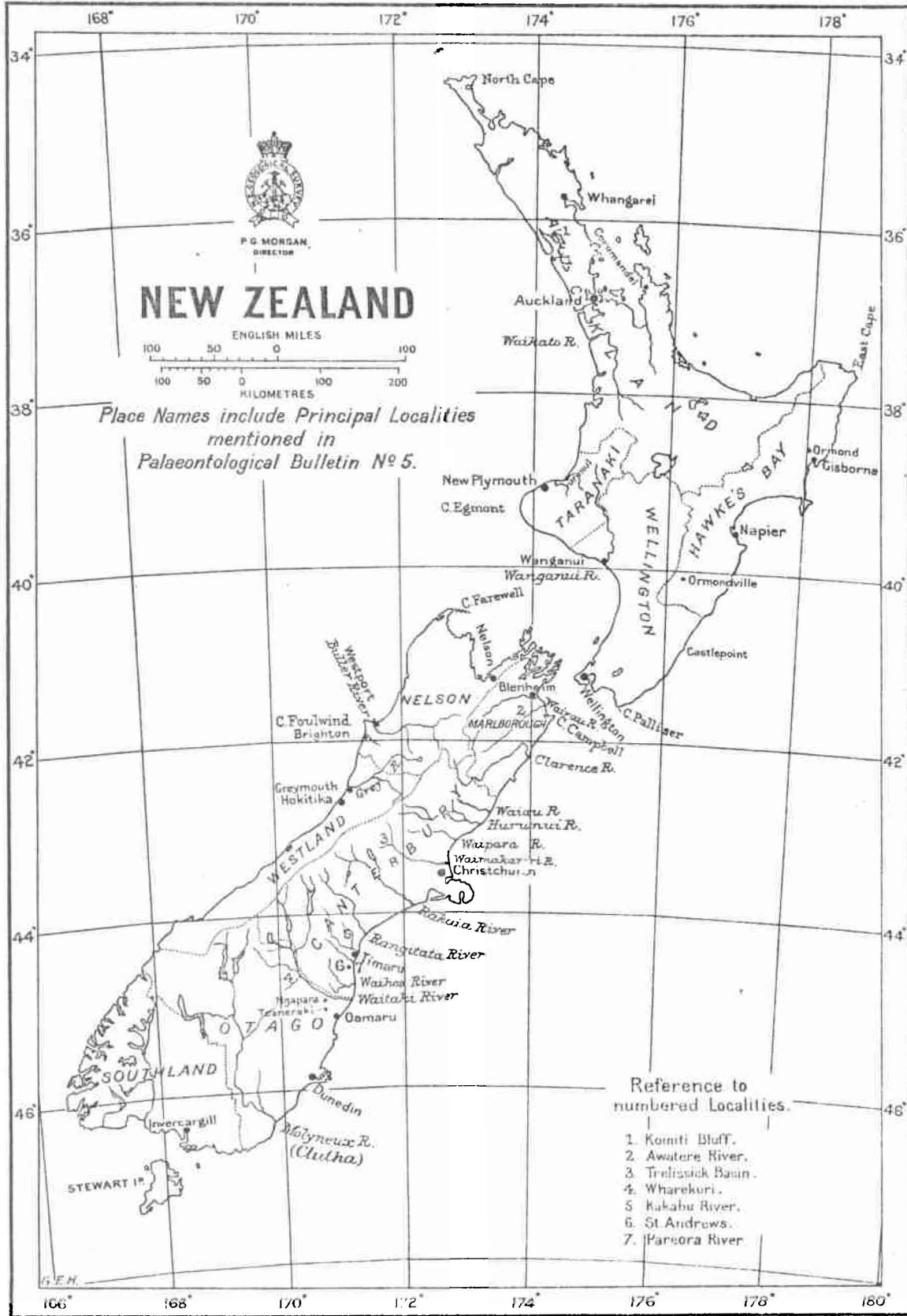
Clio (*Creseis*) *urenuensis* nov. sp. Plate I, fig. 1.

SHELL cylindrically subulate, smooth over the whole surface, straight, gradually tapering towards the embryonic portion, which is not marked off by any constriction, and is terminating in a sharp point.

Length, 14 mm.; greatest diameter, 2.5 mm. (holotype).

Holotype in the collection of the New Zealand Geological Survey.

Loc.—No. 52 - White Cliffs, north of Urenui, Taranaki: Hector, 1874.—Miocene.



Place Names include Principal Localities mentioned in Palaeontological Bulletin No 5.

Reference to numbered Localities.

- 1. Kaiti Bluff.
- 2. Awatere River.
- 3. Trelissick Basin.
- 4. Wharekuri.
- 5. Kakahu River.
- 6. St Andrews.
- 7. Pareora River.

Fam. CONIDE.

Conus (Leptoconus) armoricus nov. sp. Plate XII, fig. 25.

Shell rather small, biconic, with a low, conoidal, gradated spire and elongated tapering body-whorl. *Sculpture*: The spire-whorls have well-pronounced arched growth-lines which descend vertically over the body-whorl, the base of which is adorned with about 12 oblique rounded riblets; in some places there are indications of fine obscure spiral striation. *Spire* low, gradated, conoidal, its height about one-sixth of the whole length of the shell. *Protocoach* lost. *Whorls* 7 to 8, those of the spire strongly keeled a very short distance above the suture, the shoulder excavated; body-whorl elongated, tapering towards the base, where it is slightly contracted. *Suture* not much impressed, simple. *Aperture* narrow, widening a little anteriorly, the margins subparallel. *Outer lip* thin, acute, straight. *Columella* oblique, smooth, rounded.

Height, 23 mm.; diameter, 12 mm. (holotype).

Holotype in the Otago University Museum, Dunedin; presented by Professor P. Marshall.

Loc.—Komiti Point, Kaipara Harbour, North Auckland: Marshall.—Miocene.

Remark.—*C. heterospira* Tate, from Victoria, is a nearly allied form.

Conus (Conospira) deperditus nov. sp. Plate XII, fig. 26.

Shell rather small, elongately biconic, with a high gradated spire, the median angle of the whorls slightly crenate, body-whorl high, conic, narrow, margins of aperture parallel. *Sculpture*: One specimen only shows a small remnant of the shell with the crenation upon the angle, but all others are smooth casts. *Spire* high, gradate, but all the specimens have the upper whorls broken off. *Whorls* of the spire angled at the middle, the last whorl with a steep narrow shoulder, a little contracted below the angle, very little convex and gradually tapering towards the anterior end. *Aperture* narrow, oblique, the margins parallel. *Outer lip* slightly convex, with a deep sinus between suture and angle. *Columella* long and oblique, somewhat convex.

Height, 30 mm.; diameter, 13 mm. (imperfect holotype; a cast).

Holotype in the collection of the New Zealand Geological Survey.

Loc.—No. 44 = Brewery Creek, near mouth of Mokihinui River, South-west Nelson: McKay, 1874.—Miocene.

Conus (Chelyconus) fusellinus nov. sp. Plate XII, fig. 27.

Shell fairly large, ovate biconic, with a rather short conoidal spire and large body-whorl. *Sculpture* cannot be described, as two casts only are available. *Spire* conoidal, its height about two-sevenths the height of the aperture, angle about 85°. *Whorls* 7 to 8, rather slowly increasing, spire-whorls angled at the periphery; body-whorl large, gradually tapering towards the base, with a narrow convex band at the suture, and a slight excavation below it. *Aperture* oblique, high and narrow, somewhat widened below, the margins subparallel.

Height, 37 mm.; diameter, 25 mm. (holotype; a cast with nearly half of the body-whorl lost). Height, 55 mm.; diameter, 23 mm. (a much damaged paratype).

Holotype in the collection of the New Zealand Geological Survey.

Loc.—No. 44 = Brewery Creek, Mokihinui River, South-west Nelson: McKay, 1874.—Miocene.

PLATE XII.

- Fig. 1. *Fasinus bicarinatus* Suter. Holotype. Trelissick Basin. 9.5 × 11 mm.
 Fig. 2. *Fasinus kaiparaensis* Suter. Holotype. Kaipara. 23 × 41 mm.
 Fig. 3. *Fasinus congestus* Suter. Holotype. Pareora. 7 × 11 mm.
 Fig. 4. *Mitra (Cancilla) armorica* Suter. Holotype. Blue Cliffs. 8 × 20 mm.
 Fig. 5. *Vexillum apicicostatum* Suter. Holotype. Waihao. 5 × 12 mm.
 Fig. 6. *Eathria callimorpha* Suter. Holotype. Waitaki. 7.5 × 16 mm.
 Fig. 7. *Eathria (Dennantia?) mystica* Suter. Holotype. Kakahu. 9 × 20 mm.
 Fig. 8. *Trophon (Xanthochorus) pulcherrimus* Suter. Holotype. Awatere. 6.8 × 12 mm.
 Fig. 9. *Rapana neozelanica* Suter. Holotype. Waihao. 17 × 19 mm.
 Fig. 10. *Rapana waihaoensis* Suter. Holotype. Waihao. 30 × 39 mm.
 Fig. 11. *Lapparia hebes* (Hutton). Plesiotype. Kakahu. 22 × 40 mm.
 Fig. 12. *Lapparia hebes* (Hutton). Plesiotype. Kakahu. 14 × 28 mm.
 Fig. 13. *Marginella (Glabella) fraudulenta* Suter. Holotype. Pukeuri. 2.5 × 4.5 mm.
 Fig. 14. *Tarris regius* Suter. Holotype. Waihao. 5 × 14 mm.
 Fig. 15. *Soreula climacota* Suter. Holotype. Kaipara. 8 × 22 mm.
 Fig. 16. *Soreula seminuda* Suter. Holotype. Trelissick Basin. 7 × 15 mm.
 Fig. 17. *Mangilia blandiata* Suter. Holotype. Otiake River. 3.5 × 8 mm.
 Fig. 18. *Mangilia praeophinodes* Suter. Holotype. Oamaru. 3.5 × 8 mm.
 Fig. 19. *Awateria streptophora* Suter. Holotype. Awatere. 5 × 11 mm.
 Fig. 20. *Awateria streptophora evanida* Suter. Holotype. Awatere. 5 × 11 mm.
 Fig. 21. *Bela (Bucorzia) infelix* Suter. Holotype. Pareora. 3.2 × 7 mm.
 Fig. 22. *Borsonia (Condicria) mitromorphoides* Suter. Holotype. Wharekuri. 8 × 18 mm.
 Fig. 23. *Ptychotractus nodosoliratus* Suter. Holotype. Blue Cliffs. 3.5 × 11 mm.
 Fig. 24. *Ptychotractus pukeuriensis* Suter. Holotype. Pukeuri. 3 × 6.5 mm.
 Fig. 25. *Conus (Leptoconus) armoricus* Suter. Holotype. Kaipara. 12 × 23 mm.
 Fig. 26. *Conus (Conospira) deperditus* Suter. Holotype. Mokihinui. 13 × 30 mm.
 Fig. 27. *Conus (Chelyconus) fusellinus* Suter. Holotype. Mokihinui. 25 × 37 mm.

