

The present paper describes *Tripneustes gratilla* (Linnaeus)—a tropical echinoid hitherto unknown from New Zealand—collected by skin-divers at the Bay of Islands and Poor Knights Islands, and gives new distributional data for *Phormosoma bursarium* A. Agassiz, *Centrostephanus rodgersii* (A. Agassiz), and *Brisus gigas* Fell. Twenty-nine echinoids which are now known from New Zealand waters north of East Cape are listed with accompanying distributional and bathymetric data in Table I.

NEW RECORDS

Super-order DIADEMATACEA Duncan, 1889

Order ECHINOTHURIOIDA Claus, 1880

Phormosoma bursarium A. Agassiz

Mortensen, 1935, p. 135; Pls. II, fig. 20; III, figs. 1-2; LXXIV, figs. 11-15. (Complete synonymy.)

MATERIAL EXAMINED: 30/9/62, 8mls E of White Island, Bay of Plenty, 177° 20' E, 37° 30' S, 550m, two specimens collected by Dr R. B. Pike, Victoria University of Wellington.

REMARKS: The specimens agree in most respects with Mortensen's (1935) description. Their measurements are:

	Horizontal Diameter	Peristome	Apical System	No. of Aboral IA Plates
1.	82mm	25	17	12-13
2.	60	22	13	11-12

I found no trace of the coarse, densely thorny marginal fringe spines mentioned by Mortensen as one of the features distinguishing *P. bursarium* from the Atlantic species *P. placenta*. However, many of aboral and marginal spines are missing on the present specimens; the delicate nature of the spines and the flexibility of the test make the species particularly prone to damage during capture.

Two specimens of this widely distributed Indo-Pacific species were first recorded from the Chatham Rise and Islands by Fell (1958). The present record is the first from the New Zealand mainland.

Order DIADEMATOIDA Duncan, 1889

Centrostephanus rodgersii (A. Agassiz)

Mortensen, 1940, p. 320, figs. 162-163; Pls. XXXV, figs. 6, 13-15; XXXVII, figs. 3-8; XXXVIII, figs. 1-4; LXXVII, figs. 1-12, 15-18, 21. (Complete synonymy.)

MATERIAL EXAMINED: 23/10/67, Mayor Island, Bay of Plenty, 176° 15' E, 37° 16' S, 6m, two specimens collected alive by skin-diver Mr R. C. Jones, Victoria University of Wellington.

REMARKS: The specimens are typical examples of this large deep purple echinoid. One specimen is probably near maximum size for the species; its dimensions are as follows: Horizontal diameter, 110mm; height, 46mm; peristome, 40mm; apical system, 25mm; longest spine, 85mm.

The species was previously known from near Little Barrier Island (36° 14' S) northwards (Fell, 1949), and the present extension of its range into the Bay of Plenty was not unexpected. *C. rodgersii* is also known from eastern Australia, Lord Howe Island, and the Kermadec Islands.

Super-order ECHINACEA Claus, 1876

Order TEMNOPLEUROIDA Mortensen, 1942