

*Awamoan*: AM7970, Target Gully, Oamaru, coll. C. R. Laws, H. J. Finlay Collection, Auckland Institute and Museum; GS9520, spillway of earth dam 200yds up Awamoia Creek from its mouth, coll. A. G. Beu and P. A. Maxwell, Oct., 1968; GS9871, Te Pokere, north shore of Parengarenga Harbour, Northland, coll. G. J. Wilson and P. A. Maxwell, Oct., 1967, one juvenile; GS9872, Te Pokere, Parengarenga Harbour, coll. G. J. Wilson and P. A. Maxwell, Oct., 1967, one young shell; also one juvenile coll. A. G. Beu and P. A. Maxwell, March, 1969.

*Altonian*: S167/637, Calamity Point, Clifden, Southland, coll. J. A. Grant-Mackie and P. F. Ballance, Auckland University Geology Department; GS10365, Long Beach, Clifden, Southland, A. G. Beu and P. A. Maxwell, Feb., 1969.

*Clifdenian*: GS2155, North Bank, Clifden, Southland, coll. J. Marwick and R. W. Willett; V572, North Bank, Clifden, Southland, coll. J. Eade, J. Kennett and P. Vella, Victoria University Geology Department.

*Lillburnian*: GS2939, Lill Sand ("Clifden band 7"), Clifden, Southland, coll. J. Marwick and R. W. Willett.

*Waiauian*: Holotype (incomplete very large body whorl, figured by Fleming, 1962: pl. 1, figs. 7, 8), "Clifden 7c, close to band 8" (Finlay, 1930), probably from "a silty sandstone above the fourth [Nissen] shellbed", Park Bluff, Clifden (Fleming, 1962: 111); GS7704, probable topotype, silty sandstone above fourth Nissen Shellbed, Park Bluff, Clifden, coll. C. A. Fleming *et al.* (figured Fleming, 1962: pl. 1, fig. 4); AM8033, Clifden Band 8, Laws Colln., Auckland Institute and Museum; GS10343, Nissen Shellbed No. 1, Park Bluff, Clifden, coll. A. G. Beu and P. A. Maxwell, Feb., 1969; GS5623, stream bank half mile south of Alton Mill, Alton S.D., near Clifden, Southland, coll. B. L. Wood (figured Fleming, 1962: pl. 1, fig. 6).

*Tongaporutuan*: GS1322, near ridge, 126ch ESE of Trig. D, Block 6, Waikohu S.D., north of Gisborne (Marwick, 1931: 42, 118, pl. 12, fig. 226; Fleming, 1962: pl. 1, fig. 5).

*Kapitean*: N63/936552, platform at end of small beach, Pohauturoa, East Cape, coll. G. C. H. Chaponiere, April, 1967, Auckland University Geology Department; GS10342, shore platform one mile east of Te Araroa, near East Cape, coll. A. G. Beu and P. A. Maxwell, Nov., 1966.

HOLOTYPE in Finlay Collection, Auckland Institute and Museum; figured juvenile from North Bank, Clifden, in Victoria University Geology Department (VM885); all other figured specimens of Marwick (1931), Fleming (1962), and this paper in New Zealand Geological Survey.

Time Range: Waitakian (late Oligocene or basal Miocene) to Kapitean (uppermost Miocene).

*Pteropurpura laetifica flemingi* (Beu, 1967). Pl. 2, Figs. 16, 17, 19–26

1967. *Pterynotus* (*Pterynotus*) *flemingi* Beu, Trans. R. Soc. N.Z. geol. 5(3): 102, pl. 1, fig. 9.

1967. *Pteropurpura* cf. *plorator* (A. Adams and Reeve): Powell, Rec. Auckland Inst. Mus. 6(3): 192, pl. 37, figs. 2–4 (not *P. plorator* A. Adams and Reeve, 1850).

Beu (1967: 102) described *Pterynotus flemingi* on the basis of one well-preserved but broken, extremely squat shell (the holotype) and one very poorly-preserved, broken, taller shell, both collected by Mr P. Wellman from Mangapanian siltstone east of Whangaimoana, Palliser Bay, South Wairarapa. Since then Powell (1967: 192) has recorded a living specimen of *Pteropurpura* from the North Cape-Three Kings area, collected by Mr E. Willis of m.v. "Ikaterere" and lodged in the collection of Mr and Mrs N. Gardner, of Auckland, as *Pteropurpura* cf. *plorator* (A. Adams and Reeve, 1850). It is a very small but excellently preserved shell

FIGS. 1–3, 5, 8.—*Pteropurpura laetifica laetifica* (Finlay). Figs. 1, 3.—GS9516, Trig. Z, Otiake, Waitaki Valley (Waitakian); New Zealand Geological Survey, TM4823; 50.1 × 31.7mm. Fig. 2.—GS5623, Alton Mill, Alton S.D., Southland (Waiauian); New Zealand Geological Survey, TM3080; 59.2 × 30.0mm. Fig. 5.—GS10342, shore platform near Te Araroa, East Cape (Kapitean); New Zealand Geological Survey, TM4822; 56.2 × 28.3mm. Fig. 8.—GS9569, Upper Tengawai River, South Canterbury (Waitakian); New Zealand Geological Survey, TM4821; 35.2 × 33.4mm.

FIGS. 4, 6.—*Pteropurpura laetifica waiareka* n.subsp., holotype, GS9481, Lorne, near Oamaru (Kaiatan); New Zealand Geological Survey, TM4825; 40.6 × 23.0mm.

FIGS. 7, 9.—*Pteropurpura bednalli* (Brazier), Port Keats, Northern Territory, Australia; New Zealand Geological Survey, TM4824; 67.2 × 42.5mm.