

low down on the front edge of the scar, at the bottom of the diagonal groove. Pallial sinus incomplete, apparently typical. Posterior adductor muscle scar rather elongate and roundly trigonal, positioned as in *Z. acinaces*.

Dimensions:

	Length	Height	Cardinal Angle
Figured specimen	60.0	23.6	75
Tengawai River	51.2	18.2	—
Tengawai River	57.4	21.8	76
Miller Rd., Duntroon	57+	22+	65
Wharekuri	58.5	26.0	—

The average cardinal angle of 18 specimens = 72.72deg.

Localities

Altonian: Concretion in Kaiwhata River 1 mile below Ngahape, Central Wairarapa district (Beu Colln.).

Awamoan: G.S.951, Target Gully Shellbed, Oamaru; excavation for septic tank, South Oamaru (P. Maxwell Colln.); Awamoa Creek, Oamaru (P. Maxwell Colln.); Awamoa Beach Boulders, Oamaru (Finlay Colln., Auckland Museum); Pukeuri Cutting, north of Oamaru (Finlay Colln., Auckland Museum); G.S.958, Old Rifle Butts, Oamaru; G.S.1958, Ardgowan Shellbed, Oamaru; G.S.5177, three-quarters of a mile below Clelland's Bridge, Tengawai River, Canterbury; G.S.5591, Sutherland's, Tengawai River; G.S.3236, Trig. K., Kakahu River, South Canterbury.

Waitakian: G.S.178, 5637, "*Xenophora* beds", Miller Road, Duntroon; G.S.3600, Brydone, Mataura River, Southland; G.S.5640, behind Otekaieke Special School, Waitaki Valley; G.S.1473, Trig Z, Otiake, Waitaki Valley; G.S.7166, Brothers Stream, Hakataramea Valley, South Canterbury.

Duntroonian: G.S.1821, Wharekuri, Waitaki Valley; G.S.1897, 220 chs. north of Wendon Valley School, Wendon, Otago.

Unidentifiable specimens probably belonging to this species have been seen from: G.S.1260, Pahaoa River, two miles west of junction with Wainuioru River, East-Central Wairarapa (? Waiauian); G.S.1151, Tongaporutu Rd., North Taranaki (Clifdenian or Lillburnian); G.S.908, Tongaporutu Rd., North Taranaki (Altonian to Lillburnian); G.S.7778, North Esk River, North Canterbury (? Southland Series); Clifden band 8a, Southland (Finlay Colln., Auckland Museum) (Waiauian); Clifden band 8, Southland (Laws Colln., Auckland Museum) (Waiauian); Clifden band 7c, Southland (Finlay Colln., Auckland Museum) (Lillburnian); Clifden band 4, Southland (Laws Colln., Auckland Museum) (Altonian); G.S.7700, "*Gari* Sand", Clifden band 7, Southland (Lillburnian); Mt Harris, Waitaki Valley (Suter Colln.) (Awamoan); G.S.2568, Waihaorunga Stream, South Canterbury (? Awamoan); G.S.935, Windmill Creek, Peebles, Waitaki Valley (? Awamoan); Oneroa and Squadron Bay, Waiheke Id. (Auckland Museum; see also Powell, 1938: 363) (Otaian); G.S.999, Waimate Stream, 15 chs. west of Naike P.O., Awaroa S.D., Waikato (Whai-garoan).

This species is distinguished by the small adult size, the shape of the anterior end, the narrow bevelled lunule and the central position of the groove across the anterior adductor scar.

There is a certain amount of variation in the lunule in populations examined. In Landon Series specimens the lunule tends to be more primitive, being narrower