

***Conradconfusus*, a replacement name for *Buccinofusus* Conrad, 1868, *non* 1866 (Mollusca, Gastropoda)**

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The new genus *Conradconfusus* n. gen., type species *Fusus parilis* Conrad, 1832, is proposed as a replacement name for *Buccinofusus* Conrad, 1868 (*non* 1866). Twenty-three (sub)species, from Upper Cretaceous and Cainozoic strata worldwide, may be assigned to this genus.

KEY WORDS: Mollusca, Gastropoda, Cretaceous, Cainozoic, replacement name, lectotype.

Introduction

Conrad (1866, p. 17) validly introduced the genus *Buccinofusus* by the combination *Buccinofusus diegoensis* (Gabb); the type species, by monotypy, being *Tritonium diegoensis* Gabb, 1864 (p. 95, pl. 18, fig. 44) from the Eocene of California. The nearly complete holotype, which is 14.3 mm in height and 8.5 mm in width, was reported by Stewart (1927, p. 430) to be in the Museum of Paleontology at Berkeley, California (registration number 11980). The genus was noted by Stewart (1927, p. 430) but overlooked by Neave (1939-1966). Vaught (1989, p. 50) listed the genus *Buccinofusus* with the date 1866. This probably is an error for 1868 since she listed *Boreofusus* Sars, 1878 as a synonym, and that genus is a probable synonym of *Buccinofusus* Conrad, 1868. Hanna (1927, p. 319) erroneously reassigned *B. diegoensis* to *Latirus* de Montfort, 1810, without comment. An additional species, *Buccinofusus turneri* Weaver, 1942 (p. 440, pl. 89, figs 1, 2; pl. 101, fig. 13), was described from the Eocene of Oregon.

Two years later, Conrad (1868, p. 264) again introduced the same genus name *Buccinofusus* (within the Muricidae), with type species *Fusus parilis* Conrad, 1832 (p. 18, pl. 4, fig. 2), from the St. Mary's Formation (Miocene) of Maryland. Moore (1962, p. 83) reported that there were nine syntypes of *F. parilis* in the Academy of Natural Sciences of Philadelphia (registration number ANSP 13842). Richards (1968, p. 169) described the same lot as a holotype and paratype [*sic*]. An examination of this lot reveals a lectotype that is based upon the specimen originally figured by Conrad in 1832; the other eight specimens are paralectotypes. However, *Tritonium*

diegoensis and *Fusus parilis* are not congeneric, and the latter use of the genus name *Buccinofusus*, probably in the neogastropod family Fasciolaridae, requires replacement.

A replacement name

When Conrad (1868) introduced *Buccinofusus*, he suggested four possible species as members of this genus, in addition to *F. parilis*, *viz.*

- *Buccinum balteatum* Reeve, 1846 (Recent, Australia);
- *Buccinum fusoides* Reeve, 1846 (Recent, Japan);
- *Fusus berniciensis* King, 1846 (Recent, NE Atlantic);
- *Fusus sulcatus* Lamarck, 1816 (Pleistocene-Recent, New Zealand).

None of these species is congeneric with *F. parilis*. *Fusus sulcatus* was placed in the buccinid *Penion* Fischer, 1884 by Ponder (1973, p. 416), while *B. balteatum* was synonymised with *Cantharus cecilli* (Philippi, 1844) (Buccinidae) by Tryon (1881, p. 157). This is undoubtedly incorrect, but *B. balteatum* is assuredly not assignable to *Buccinofusus*. *Buccinum fusoides* was transferred to the buccinid *Siphonalia* A. Adams, 1863 by Kuroda *et al.* (1971, p. 260), whereas *F. berniciensis* was selected, by original designation, as type species of *Troschelia* Mörch, 1876 (Buccinidae).

Cossmann (1901, p. 33), Fischer (1884, p. 615), Tryon (1880, p. 48), Wenz (1943, p. 1240) and Glibert (1963, p. 150) all considered *Troschelia*, and its junior subjective synonym *Boreofusus* Sars, 1878, to be (proba-

bly) synonymous with *Buccinofusus* Conrad, 1868. *Troschelia*, however, is not a synonym of *Buccinofusus* Conrad, 1868 (see Dall, 1909, p. 38; Bouchet & Warén, 1985, p. 193), and hence is not available as a substitute name for Conrad's genus, contrary to what was proposed by Glibert (1963, p. 150). I here propose *Conradconfusus* n. gen. as a replacement name for *Buccinofusus* Conrad, 1868, non 1866.

Currently, there are twenty-three species and subspecies that may be assigned to *Conradconfusus* n. gen., as follows:

- *Buccinofusus ageri* Abbass, 1967 (Eocene, Egypt);
- *Buccinofusus aquitanicus* Peyrot, 1928 (Miocene, France);
- *Buccinofusus asiaticus* Djalilov, 1977 (Cretaceous, Tadzhikistan);
- *Fusus auerbachii* von Koenen, 1868 (Eocene, Germany);
- *F. (Hemifusus) auerbachii* var. *crebrilinea* von Koenen, 1889 (Eocene, Germany);
- *F. (H.) auerbachii* var. *dispersa* von Koenen, 1887 (Eocene, Europe and Asia);
- *Buccinofusus chesapeakeensis* Petuch, 1988 (Miocene, Maryland);
- *Buccinofusus dautzenbergi* Koperberg, 1931 (Pliocene, Timor);
- *Buccinofusus d. niasensis* Koperberg, 1931 (Pliocene, Nisa Island);
- *Buccinofusus d. timorensis* Koperberg, 1931 (Pliocene, Timor);
- *Fusus devexus* Conrad, 1843 (Miocene, eastern USA);
- *Turbinella ilocana* W.D. Smith, 1913 (Neogene, Philippine Islands);
- *Buccinofusus julianae* Koperberg, 1931 (Pliocene, Timor);
- *Buccinofusus landanensis* Vincent, 1913 (Paleocene, Congo);
- *Fusus nodifer* S.V. Wood, 1879 (Pliocene, England);
- *Fusus parilis* Conrad, 1832, **type species** (Miocene, Maryland);
- *Buccinofusus? parvus* Ravn, 1933 (Paleocene, Denmark);
- *Buccinofusus patuxentensis* Petuch, 1993 (Miocene, eastern USA);
- *Fusus requienianus* d'Orbigny, 1843 (Cretaceous, Europe and North Africa);
- *Buccinofusus? subglaber* Ravn, 1933 (Paleocene, Denmark);
- *Murex tuberosus* J. Sowerby, 1819 (Eocene, England);
- *Fusus (Buccinofusus) tubuktensis* Ilina, 1955 (Paleogene, Asia);
- *Fusus verticillatus* Stoliczka, 1867 (Cretaceous, India).

The present author does not know definitively whether or not all these assignments are correct; only the Miocene

species from the eastern USA are assuredly in *Conradconfusus* n. gen.

Five species originally placed in *Buccinofusus* Conrad, 1868 have subsequently been reassigned by various authors; these do not belong in *Conradconfusus* n. gen. These taxa are the following:

- *Buccinofusus bezanconi* Cossmann, 1889; reassigned to *Euthriofusus (Wrigleya)* Glibert, 1963 by Le Renard & Pacaud (1995, p. 117), from the Eocene of France;
- *B. hemigymnus* Cossmann, 1885, transferred to *Ptychatractus* Stimpson, 1865 (Turbinellidae) by Cossmann (1889, p. 165), from the Eocene of France;
- *Fusus (B.) portolaensis* Arnold, 1908, reassigned to *Lirabuccinum* Vermeij, 1991 (p. 269; Buccinidae), from the Miocene of California;
- *Fusinus (B.) propeparilis* Mansfield, 1929, transferred to *Fusinus* Rafinesque, 1815 by Campbell *et al.* (1975, p. 112), from the Pliocene of Virginia;

and

- *B. surinamensis* Okutani, 1982, synonymised with *Metula fusiformis* Clench & Aguayo, 1941 (Buccinidae) by Bouchet & Warén (1986, p. 485), a Recent species from the southern Caribbean.

Twenty-four other species and subspecies have subsequently been assigned to *Buccinofusus* Conrad, 1868 but belong to other genera.

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