

Crustaceana 96 (8) 791-796



GOSSEA SPENCE BATE & WESTWOOD, 1862 (AMPHIPODA) AND GOSSEA AGASSIZ, 1862 (CNIDARIA, HYDROZOA): REVERSAL OF PRESUMED PRECEDENCE AND REVIEW OF THE COMPLICATED NOMENCLATURAL HISTORY

ΒY

CHRISTOPHER B. BOYKO^{1,2}) and SAMMY DE GRAVE^{3,4})
¹) Department of Biology, Hofstra University, Hempstead, NY 11549, U.S.A.
²) Division of Invertebrate Zoology, American Museum of Natural History, New York, NY 10024, U.S.A.
³) Oxford University Museum of Natural History, Parks Road, Oxford, OX1 3PW, U.K.

ORCID iDs: Boyko: 0000-0002-2205-1488; De Grave: 0000-0002-2820-4158

ABSTRACT

Gossea Agassiz, 1862 (Cnidaria: Hydrozoa) and *Gossea* Spence Bate & Westwood, 1862 (Crustacea: Amphipoda) are homonyms and Agassiz's genus has long been considered the senior name. Discovery of copyright information for Agassiz's book shows that the presumed order of precedence is incorrect and that Spence Bate & Westwood's genus name is the senior homonym. A detailed history of both genera is given with the recognition that *Apherusa* Walker, 1891 is an unnecessary replacement name for *Gossea* Spence Bate & Westwood, 1862 and that *Octobulbacea* Zamponi, 1983, as the only available junior synonym, is the name that should be used for *Gossea* Agassiz, 1862.

Key words. - Nomenclature, priority, Amphipoda, Cnidaria

ZUSAMMENFASSUNG

Gossea Agassiz, 1862 (Cnidaria: Hydrozoa) und Gossea Spence Bate & Westwood, 1862 (Crustacea: Amphipoda) sind Homonyme und die Gattung von Agassiz gilt seit langem als der älteste Name. Die Entdeckung von Urheberrechtsinformationen für das Buch von Agassiz zeigt jedoch, dass die vermutete Rangfolge nicht korrekt ist, und dass der Gattungsname von Spence Bate & Westwood das älteste Homonym ist. Eine detaillierte Geschichte beider Gattungen wird dargestellt, mit der Erkennung dass *Apherusa* Walker, 1891 ein unnötiger Ersatzname für *Gossea* Spence Bate & Westwood, 1862 ist, und dass *Octobulbacea* Zamponi, 1983 als einziges verfügbares jüngeres Synonym für *Gossea* Agassiz, 1862 verwendet werden sollte.

Schlüsselwörter. — Nomenklatur, priorität, Amphipoda, Cnidaria

⁴) Corresponding author; e-mail: sammy.degrave@oum.ox.ac.uk

Published with license by Koninklijke Brill NV | DOI: 10.1163/15685403-bja10308 © CHRISTOPHER B. BOYKQAND SAMMY DE GRAVE, 2023 access article distributed under the terms This is an open access article distributed under the terms of the CC BY 4.0 license. of the CC BY 4.0 license. https://creativecommons.org/licenses/by/4.0/

The generic name *Gossea* Agassiz, 1862 (Cnidaria: Hydrozoa) has been considered a senior homonym of *Gossea* Spence Bate & Westwood, 1862 (Crustacea: Amphipoda) since Walker (1892) recognized that *Gossea microdeutopa* Spence Bate & Westwood, 1862 was a junior subjective synonym of *Apherusa jurinii* [sic] (H. Milne Edwards, 1830). Walker (1892) noted that both *Gossea* names were published in the same year and stated that it was "obviously more convenient that Agassiz's genus should be retained" which meant that *Apherusa* Walker, 1891b was, in Walker's opinion, the correct name for the amphipod genus. It may have been more convenient for Walker to maintain the usage of his own name, but this contravenes the ICZN's principle of priority (ICZN, 1999: Article 23). Walker (1892) did not determine the order in which Agassiz and Spence Bate & Westwood's works were published within 1862. In the present contribution, we show that *Gossea* Agassiz, 1862 and should be reinstated for the genus of amphipods currently called *Apherusa* Walker, 1891.

Spence Bate & Westwood (1862: 276) erected the genus *Gossea* Spence Bate & Westwood, 1862 (Crustacea: Amphipoda) for a single species *Gossea microdeutopa* Spence Bate & Westwood, 1862, described on page 277 (type species by monotypy). Subsequently, Spence Bate (1863) also indicated the genus (p. 159) and species (p. 160, pl. 29 fig. 6) names as new, but used the spelling *microdentopa* on the plate, which is herein considered to be an incorrect subsequent spelling sensu ICZN (1999: Art. 33.3). *Gossea* and *G. microdeutopa* were thus both validly published in volume I, part 6 of "A History of British Sessile-Eyed Crustacea in Two Volumes" with part 6 published on 1 April 1862 fide Holthuis (1977).

Walker (1891a) discussed the confusion around the identity of *Pherusa fucicola* Leach, 1814 (currently *Gammarella fucicola* (Leach, 1814)) and synonymized *Pherusa* with *Gammarella* Spence Bate, 1857 but incorrectly continued to consider *Pherusa* as a valid genus credited to "Bate, 1862". *Pherusa* Leach, 1814 is a junior homonym of *Pherusa* Oken, 1807 (Annelida: Polychaeta) but this was not recognized by Walker (1891a); *Gammarella* being an available junior synonym of *Pherusa* Leach, it is the name currently in use as valid.

Walker (1891b) subsequently concluded that he could not use "Bate's genus *Pherusa*, 1862" because it was not identical with that of Leach, 1814, that it was not "Bate's genus" but rather *Pherusa* sensu Spence Bate, "1862" (actually 1863, see below). Walker then introduced the name *Apherusa* for *Pherusa* sensu Spence Bate, "1862" non Leach, 1814. The type species of *Apherusa* is *Ampithoe jurinei* H. Milne Edwards, 1830 by monotypy as only a single species was included by Walker (1891a) in his concept of *Pherusa* sensu Bate non Leach sol 814 and this 4:01PM

was the concept alluded to in Walker (1891a) when he replaced *Pherusa* sensu Bate with *Apherusa* as a new name.

Walker (1892) re-examined three type specimens of Gossea microdeutopa (all in poor condition) and concluded that they represented the same species identified by Spence Bate (1863) as both *Pherusa fucicola* (pp. 145-146; misidentification) and Gossea microdeutopa (pp. 159-160; listed as new genus and species) and that both were synonyms of Apherusa jurinii [sic]. Walker (1892) cited Spence Bate (1863) as the source of these names although they were first published in Spence Bate & Westwood (1862: 255 and 276-278, respectively). Other than that Walker may have been unaware that "A History of British Sessile-Eyed Crustacea in Two Volumes" was published in parts (see Holthuis, 1977), Gossea microdeutopa was labeled as being a new genus and species only in Spence Bate (1863), which was clearly intended to come out before Spence Bate & Westwood (1862) as the relevant page numbers in the 1862 paper were cited in the 1863 work (see De Grave & Boyko, unpubl. data). Walker (1892) retained Apherusa as the name for the amphipod genus because he thought that Spence Bate (1863; see Sherborn, 1934) was published first in 1862 in advance of Spence Bate & Westwood's work and that Gossea Spence Bate was a junior homonym of Gossea Agassiz (see below).

Agassiz (1862) erected *Gossea* as a new genus for "*Thaumantias? Corynetes*" Gosse, 1853, this being type species by monotypy. No characters were given for the genus but as it is a pre-1931 name, this is permissible (ICZN, 1999: Article 12.2) and the name is available. The date of copyright of Agassiz's book was 28 May 1862 and a copy of the book was not deposited in the District Clerk's of Massachusetts office until 13 August 1862 (fig. 1). The book, therefore, cannot have been published before 28 May 1862 and most likely was published closer to 13 August 1862.

Recognizing that Spence Bate & Westwood's (1862) publication predates Spence Bate (1863) makes no functional difference as *Gossea* was indeed used as a new genus name twice in 1862 and the publication date of 1 April 1862 for the amphipod genus name predates the 28 May 1862 copyright date (and likely much later publication date) for the cnidarian. Therefore, *Gossea* Spence Bate & Westwood (1862) is the senior homonym of *Gossea* Agassiz (1862) rather than the reverse, and the latter name needs to be replaced.

A new name for *Gossea* Agassiz is not needed as *Octobulbacea* Zamponi, 1983 is currently considered a junior synonym of *Gossea* Agassiz. The type species is *Octobulbacea montehermosensis* Zamponi, 1983 by monotypy and is currently considered to be a junior subjective synonym of *Gossea brachymera* Bigelow, 1909 fide Noguiera (2012). *Octobulbacea* is therefore an available name to replace *Gossea* Agassiz.

335 District of Massachusetts.... To wit: District Clerk's Office. BE IT REMEMBERED, That, on the Junning Grighth day of man Anno Domini 1862 Scatus Agads is of the said District, ha & deposited in this Office the the title of which is in the words following, to wit: Contributions The Natural History of the United States of America. Louis Agassis. Second Monograph. In Five Parts .- 1. Acalephs in General .- 11. Ctinophore. III. Discophord. _ IV. Hydroidd. _ V. Homologies of the Radiata; with Forty six Plates. _______. TV. the right whereof he claim & as author in conformity with an Act of Congress, entitled, "An Act to amend the several Acts respecting Copyrights." A Copy deposited Angust 13-1862-L. Mullille Clerk of the District.

Fig. 1. District of Massachusetts District Clerk's Office ledger page 335 listing volume 4 of "Contributions to the Natural History of the United States of America" by Louis Agassiz, showing that the book was copyrighted 28 May 1862 and that a copy of the book was deposited 13 August 1862 (Early Copyright Records Collection. Copyright ledgers, Massachusetts. Retrieved from the Library of Congress, www.loc.gov/item/2020729694/).

The following 20 amphipod species were previously described or placed in Apherusa Walker, 1891b (see Horton et al., 2023) and are now transferred to Gossea Spence Bate & Westwood, 1862, the senior synonym of Apherusa and senior homonym of Gossea Agassiz: to wit Gossea alacris (Krapp-Schickel, 1969) n. comb.; Gossea bispinosa (Spence Bate, 1857) n. comb.; Gossea chiereghinii (Giordani-Soika, 1949) n. comb.; Gossea cirrus (Spence Bate, 1863) n. comb.; Gossea clevei (G.O. Sars, 1904) n. comb.; Gossea corbeli (Lagardère, 1968) n. comb.: Gossea delicata (Krapp-Schickel & Sorbe, 2006) n. comb.: Gossea glacialis (Hansen, 1888) n. comb.; Gossea henneguvi (Chevreux & Fage, 1925) n. comb.; Gossea jurinei (H. Milne Edwards, 1830) n. comb.; Gossea macrocephala (M. Sars, 1858) n. comb.; Gossea mediterranea (Chevreux, 1911) n. comb.; Gossea megalops (Buchholz, 1874) n. comb.; Gossea ovalipes (Norman & Scott, 1906) n. comb.; Gossea retovskii (Gurjanova, 1934) n. comb.; Gossea ruffoi (Krapp-Schickel, 1969) n. comb.; Gossea sarsii (Shoemaker, 1930) n. comb.; Gossea stuxbergi (Oldevig, 1959) n. comb.; Gossea tridentata (Bruzelius, 1859) n. comb.; and Gossea vexatrix (Krapp-Schickel, 1979) n. comb.

The following four hydrozoan species were previously described or placed in *Gossea* Agassiz, 1862 (see Schuchert, 2023) and are now transferred to *Octobulbacea* Zamponi, 1983, the next available junior synonym of *Gossea* Agassiz, that being the junior homonym of *Gossea* Spence Bate & Westwood: to wit *Octobulbacea brachymera* (Bigelow, 1909) n. comb.; *Octobulbacea corynetes* (Gosse, 1853) n. comb.; *Octobulbacea faureae* (Picard, 1952) n. comb.; and *Octobulbacea indica* (Bouillon, 1978) n. comb.

REFERENCES

- AGASSIZ, L., 1862. Contributions to the natural history of the United States of America, **4**: 1-380, pls. 1-19. (Little Brown, Boston, MA).
- ALBERS, J. C., 1850. Die Heliceen nach natürlicher Verwandtschaft systematisch geordnet: 1-262. (Enslin, Berlin).
- BIGELOW, H. B., 1909. The Medusae. Reports on the scientific results of the expedition to the eastern tropical Pacific, in charge of Alexander Agassiz, by the U. S. Fish Commission steamer "Albatross" from October, 1904, to March, 1905. XVI. Memoirs of the Museum of Comparative Zoology at Harvard College, 37: 1-243, pls. 1-48.
- GOSSE, P. H., 1853. A naturalist's rambles on the Devonshire coast: 1-16 + 1-451, pls. 1-28. (John Van Voorst, London).
- HOLTHUIS, L. B., 1977. The dates of publication of C. Spence Bate and J. O. Westwood's "A history of British sessile-eyed Crustacea". Crustaceana, **33**: 313-316.
- HORSFIELD, T., 1829. A descriptive catalogue of the lepidopterous insects contained in the museum of the Honourable East-India Company, illustrated by coloured figures of new species and of the metamorphosis of Indian Lepidoptera, with introductory observations of a general arrangement of this order of insects. Part II: 81-146, plsa & 8f (Parbury, Allen & Cong London) IPM via Open Access. This is an open access article distributed under the terms of the CC BY 4.0 license.

- HORTON, T., J. LOWRY, C. DE BROYER, D. BELLAN-SANTINI, D. COPILAŞ-CIOCIANU, L. CORBARI, M. J. COSTELLO, M. DANELIYA, J.-C. DAUVIN, C. FIŠER, R. GASCA, M. GRABOWSKI, J. M. GUERRA-GARCÍA, E. HENDRYCKS, L. HUGHES, D. JAUME, K. JAZDZEWSKI, Y.-H. KIM, R. KING, T. KRAPP-SCHICKEL, S. LECROY, A.-N. LÖRZ, T. MAMOS, A. R. SENNA, C. SEREJO, J. F. SOUZA-FILHO, A. H. TANDBERG, J. D. THOMAS, M. THURSTON, W. VADER, R. VÄINÖLÄ, R. VONK, K. WHITE & W. ZEIDLER, 2023. World Amphipoda database. *Apherusa* Walker, 1891. Available online at World Register of Marine Species at: https://www.marinespecies.org/aphia.php?p=taxdetails&id=101509 (accessed 8 May 2023).
- ICZN, 1999. International code of zoological nomenclature (4th ed.): i-xxix, 1-306. (International Trust for Zoological Nomenclature and The Natural History Museum, London).
- LEACH, W. E., 1813-1815. Crustaceology. In: D. BREWSTER, The Edinburgh Encyclopaedia, 7(1): 383-384 [1813], 7(2): 385-437, 765-766 [1814], 9(1): pl. CCXXI [1815]. (Balfour, Edinburgh).
- MILNE EDWARDS, H., 1830. Extrait de recherches pour servir à l'histoire naturelle des crustacés amphipodes. Annales des Sciences Naturelles, 20: 353-399, pls. 10-11.
- NOGUEIRA JR., M., 2012. Gelatinous zooplankton fauna (Cnidaria, Ctenophora and Thaliacea) from Baía da Babitonga (southern Brazil). Zootaxa, **3398**: 1-21.
- SCHUCHERT, P., 2023. World Hydrozoa database. Gossea L. Agassiz, 1862. Available online at World Register of Marine Species at: https://www.marinespecies.org/aphia.php?p=taxdetails& id=101509 (accessed 8 May 2023).
- SHERBORN, C. D., 1934. Dates of publication of catalogues of Natural History (post 1850) issued by the British Museum. Annals and Magazine of Natural History, (ser. 10) 13(74): 308-312.
- SPENCE BATE, C., 1857. A synopsis of the British edriophthalmous Crustacea. Part I. Amphipoda. Annals and Magazine of Natural History, (ser. 2) **19**(110): 135-152.
- SPENCE BATE, C., 1859. On the fossil crustacean found in the magnesian limestone of Durham by Mr. J. Kirby, and on a new species of amphipod. Quarterly Journal of the Geological Society of London, 15: 137-140, pl. 6.
- SPENCE BATE, C., 1863. Catalogue of the specimens of amphipodous Crustacea in the collection of the British Museum: i-iv, 1-399, pls. 1-58. (British Museum Trustees/Taylor & Francis, London). (Published 14 March 1863, see Sherborn (1934).)
- SPENCE BATE, C. & J. O. WESTWOOD, 1861-1863. A history of British sessile-eyed Crustacea in two volumes, I: 1-507. (John Van Voorst, London). (Published in parts; see Holthuis (1977) for exact publication dates.)
- WALKER, A. O., 1891a. XLIV. On *Pherusa fucicola* (Leach). Annals and Magazine of Natural History, (ser. 6) 7(41): 418-422.
- WALKER, A. O., 1891b. IX. On *Pherusa fucicola*, Leach. Annals and Magazine of Natural History, (ser. 6) 8(43): 81-83.
- WALKER, A. O., 1892. XVIII. The lysianassides of the 'British sessile-eyed Crustacea', Bate and Westwood. Annals and Magazine of Natural History, (ser. 6) 9(50): 134-138.
- ZAMPONI, M. O., 1983. Nuevas adiciones a la medusofauna de la region subantarctica. 1. Anthomedusae y Narcomedusae (Coelenterata: Hydrozoa). The fauna of Medusae from the subantarctic region: 1. Anthomedusae and Narcomedusae (Coelenterata, Hydrozoa). Neotrópica, 29: 173-181.