

NOMENCLATURAL CHANGES FOR NINE CRUSTACEAN GENERA (CRUSTACEA: COPEPODA)

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ABSTRACT: Nine junior homonyms were detected amongst the crustacean genera and the following replacement names are proposed: *Dusartius* nom. nov. for *Parathalassius* Dusart, 1986; *Andronovius* nom. nov. for *Delius* Andronov, 1972; *Hesseius* nom. nov. for *Scotophilus* Hesse, 1881; *Pordfus* nom. nov. for *Ophirion* Por, 1967; *Pesceus* nom. nov. for *Paracamptus* Chappuis, 1929; *Raowellsia* nom. nov. for *Langia* Wells & Rao, 1987; *Markevichus* nom. nov. for *Caligopsis* Markevich, 1940; *Neoalbionella* nom. nov. for *Albionella* Kabata, 1979 and *Kabatatus* nom. nov. for *Advena* Kabata, 1979. Accordingly, new combinations are herein proposed for the species currently included in these genera respectively: *Dusartius fagesi* (Dusart, 1986) comb. nov., *Andronovius nudus* (Sewell, 1929) comb. nov., *Andronovius sewelli* (Björnberg, 1982) comb. nov., *Hesseius tricolor* (Hesse, 1881) comb. nov., *Pordfus communis* (Por, 1967) comb. nov., *Pesceus schmeili* (Mrazek, 1893) comb. nov., *Pesceus schmeili hamatus* (Schmeil, 1893) comb. nov., *Pesceus schmeili lapponica* (Ekman, 1904) comb. nov., *Pesceus schmeili brevisetosus* (Thiebaud, 1907) comb. nov., *Pesceus schmeili biserialis* (Micoletzky, 1912) comb. nov., *Pesceus schmeili subterraneus* (Sterba, 1963) comb. nov., *Pesceus baikalensis* (Borutsky, 1931) comb. nov., *Pesceus reductus* (WilsonMS, 1956) comb. nov., *Pesceus nakamurai* (Chappuis, 1958) comb. nov., *Pesceus reggiae* (WilsonMS, 1958) comb. nov., *Pesceus gasparoi* (Stoch, 1939) comb. nov., *Raowellsia maculata* (Wells & Rao, 1987) comb. nov., *Markevichus ponticus* (Markevich, 1940) comb. nov., *Neoalbionella globosa* (Leigh-Sharpe, 1918) comb. nov., *Neoalbionella centroscyllii* (Hansen, 1923) comb. nov., *Neoalbionella longicaudata* (Hansen, 1923) comb. nov., *Neoalbionella etmopteri* (Yamaguti, 1939) comb. nov., *Neoalbionella fabricii* (Rubec & Hogans, 1988) comb. nov., *Neoalbionella kabatai* (Benz & Izawa, 1990) comb. nov., *Kabatatus paradoxus* (Kabata, 1979) comb. nov.

KEY WORDS: nomenclatural changes, homonymy, replacement names, Copepoda, Crustacea.

The purpose of the present paper is to bring the taxonomy of copepods into accordance with the requirements of the International Code of Zoological Nomenclature (1999). In an effort to reduce the number of homonyms in Crustacea, I systematically checked all generic names published. I found nine copepod genera whose names had been previously published for other taxa, making them junior homonyms. In accordance with Article 60 of the International Code of Zoological Nomenclature, I propose substitute names for these genus group names.

Order CALANOIDA Family CENTROPAGIDAE Genus **DUSARTIUS** nom. nov.

Parathalassius Dusart, 1986. Cahiers Biol. mar. 27 (1): 64. (Crustacea: Copepoda: Calanoidea: Centropagidae). Preoccupied by *Parathalassius* Mik, 1891. Wien. ent. Ztg., 10, 216, 217. (Insecta: Diptera: Empididae).

Remarks: The name *Parathalassius* was initially introduced by Mik, 1891 for the fly family Empididae (with the type species *Parathalassius blasigii* Mik, 1891). Subsequently, Dusart, 1986 described a copepod genus of the family Centropagidae (with the type species *Parathalassius fagesi* Dusart, 1986 from New Caledonia) under the same generic name. Thus, the genus *Parathalassius* Dusart, 1986 is a junior homonym of the genus *Parathalassius* Mik, 1891. I propose for the genus *Parathalassius* Dusart, 1986 the nomen novum *Dusartius*.

Etymology: from B. H. Dusart who is the current author of preexisting genus *Parathalassius*.

Summary of nomenclatural changes:

***Dusartius* new replacement name**

= *Parathalassius* Dusart, 1986 (non Mik, 1891).

***Dusartius fagesi* (Dusart, 1986) comb. nov.**

= *Parathalassius fagesi* Dusart, 1986.

Family PARACALANIDAE
Genus ANDRONOVIUS nom. nov.

Delius Andronov, 1972. Zool.Zh. 51: 597. (Crustacea: Copepoda: Calanoida: Paracalanidae). Preoccupied by *Delius* Casey, 1897. Ann. N. York Acad. Sci., 9, 493, 497. (Insecta: Coleoptera: Scydmaenidae).

Remarks: Andronov (1972) proposed the genus name *Delius* with the type species *Paracalanus nudus* Sewell, 1929. Unfortunately, the generic name was already preoccupied by Casey (1897), who had described the genus *Delius* (with the type species *Delius robustulus* Casey, 1897) in the beetle family Scydmaenidae. *Delius* Casey, 1897 is still used as a valid subgenus name of the genus *Microscydmus* Saulcy & Croissandeau, 1893. Thus, the genus *Delius* Andronov, 1972 is a junior homonym of the generic name *Delius* Casey, 1897. I propose a new replacement name *Andronovius* **nom. nov.** for *Delius* Andronov, 1972.

Etymology: from V. N. Andronov who is the current author of preexisting genus *Delius*.

Summary of nomenclatural changes:

***Andronovius* new replacement name**

= *Delius* Andronov, 1972 (non Casey, 1897).

***Andronovius nudus* (Sewell, 1929) comb. nov.**

= *Paracalanus nudus* Sewell, 1929

= *Delius nudus* (Sewell, 1929)

Andronovius sewelli (Björnberg, 1982) **comb. nov.**
= *Delius sewelli* Björnberg, 1982.

Order CYCLOPOIDA
Family INCERTAE SEDIS
Genus *HESSEIUS* nom. nov.

Scotophilus Hesse, 1881. Ann. Sci. nat. Zool., (6) 11, no. 8, 4, 12. (Crustacea : Copepoda : Cyclopoida : Incertae sedis). Preoccupied by *Scotophilus* Leach, 1821. Trans. Linn. Soc. London, 13 (1), 69, 71. (Mammalia: Chiroptera: Vespertilionidae).

Remarks: Hesse (1881) proposed the genus name *Scotophilus* with the type species *Scotophilus tricolor* Hesse, 1881. Unfortunately, the generic name was already preoccupied by Leach (1821), who had described the bat genus *Scotophilus* in the bat family Vespertilionidae. Thus, the genus *Scotophilus* Hesse, 1881 is a junior homonym of the generic name *Scotophilus* Leach, 1821. I propose a new replacement name *Hesseius* **nom. nov.** for *Scotophilus* Hesse, 1881.

Etymology: from E. Hesse who is the current author of preexisting genus *Scotophilus*.

Summary of nomenclatural changes:

***Hesseius* new replacement name**
= *Scotophilus* Hesse, 1881 (non Leach, 1821).

***Hesseius tricolor* (Hesse, 1881) comb. nov.**
= *Scotophilus tricolor* Hesse, 1881.

Order HARPACTICOIDA
Family CANTHOCAMPTIDAE
Genus *PORDFUS* nom. nov.

Ophirion Por, 1967. Israel J. Zool. 16: 143. (Crustacea: Copepoda: Harpacticoida: Canthocamptidae). Preoccupied by *Ophirion* Townsend, 1911. Ann. ent. Soc. Amer., 4, 134. (Insecta: Diptera: Tachinidae).

Remarks: The generic name *Ophirion* Townsend, 1911 was proposed for a genus of fly family Tachinidae (with the type species *Ophirion mirabile* Townsend, 1911). Subsequently, the generic name *Ophirion* Por, 1967 introduced for a new copepod genus (with the type species *Ophirion communis* Por, 1967) of the family Canthocamptidae. Thus, the genus *Ophirion* Por, 1967 is a junior homonym of the generic name *Ophirion* Townsend, 1911. I propose for the genus *Ophirion* Por, 1967 the new replacement name *Pordfus* **nom. nov.**

Etymology: from F. D. Por who is the current author of preexisting genus *Ophirion*.

Summary of nomenclatural changes:

***Pordfus* new replacement name**

= *Ophirion* Por, 1967 (non Townsend, 1911).

***Pordfus communis* (Por, 1967) comb. nov.**

= *Ophirion communis* Por, 1967.

Genus *PESCEUS* nom. nov.

Paracamptus Chappuis, 1929. Arch. Hydrobiol., 20, 475. (Crustacea: Copepoda: Harpacticoida: Canthocamptidae). Preoccupied by *Paracamptus* Casey, 1895. Ann. N.York Acad. Sci., 8, 836. (Insecta: Coleoptera: Curculionidae).

Remarks: The genus *Paracamptus* was erected by Casey, 1895 with the type species *Paracamptus subtropicus* Casey, 1895. Later, the genus *Paracamptus* was described by Chappuis, 1929 with the type species *Canthocamptus schmeili* Mrazek, 1893. Thus, the genus *Paracamptus* Chappuis, 1929 is a junior homonym of the generic name *Paracamptus* Casey, 1895. I propose for the genus *Paracamptus* Chappuis, 1929 the new replacement name *Pesceus* **nom. nov.**

Etymology: from G. L. Pesce who is a copepodologist and an expert on systematics and biogeography of crustaceans.

Summary of nomenclatural changes:

***Pesceus* new replacement name**

= *Paracamptus* Chappuis, 1929 (non Casey, 1895)

***Pesceus schmeili* (Mrazek, 1893) comb. nov.**

= *Canthocamptus schmeili* Mrazek, 1893

= *Paracamptus schmeili* (Mrazek, 1893)

***Pesceus schmeili schmeili* (Mrazek, 1893) comb. nov.**

= *Canthocamptus schmeili schmeili* Mrazek, 1893

= *Paracamptus schmeili schmeili* (Mrazek, 1893)

***Pesceus schmeili hamatus* (Schmeil, 1893) comb. nov.**

= *Canthocamptus schmeili hamatus* Schmeil, 1893

= *Paracamptus schmeili hamatus* (Schmeil, 1893)

***Pesceus schmeili lapponica* (Ekman, 1904) comb. nov.**

= *Canthocamptus schmeili lapponica* Ekman, 1904

= *Paracamptus schmeili lapponica* (Ekman, 1904)

Pesceus schmeili brevisetosus (Thiebaud, 1907) **comb. nov.**
= *Canthocamptus schmeili brevisetosus* Thiebaud, 1907
= *Paracamptus schmeili brevisetosus* (Thiebaud, 1907)

Pesceus schmeili biserialis (Micoletzky, 1912) **comb. nov.**
= *Canthocamptus schmeili biserialis* Micoletzky, 1912
= *Paracamptus schmeili biserialis* (Micoletzky, 1912)

Pesceus schmeili subterraneus (Sterba, 1963) **comb. nov.**
= *Canthocamptus schmeili subterraneus* Sterba, 1963
= *Paracamptus schmeili subterraneus* (Sterba, 1963)

Pesceus baikalensis (Borutsky, 1931) **comb. nov.**
= *Paracamptus baikalensis* Borutsky, 1931

Pesceus reductus (WilsonMS, 1956) **comb. nov.**
= *Paracamptus reductus* WilsonMS, 1956

Pesceus nakamurai (Chappuis, 1958) **comb. nov.**
= *Paracamptus nakamurai* Chappuis, 1958

Pesceus reggiae (WilsonMS, 1958) **comb. nov.**
= *Paracamptus reggiae* WilsonMS, 1958

Pesceus gasparoi (Stoch, 1998) **comb. nov.**
= *Paracamptus gasparoi* Stoch, 1998

Family LAOPHONTIDAE **Genus RAOWELLSIA nom. nov.**

Langia Wells & Rao, 1987. Mem Zool Surv India 16 (4): 182. (Crustacea: Copepoda: Harpacticoida: Laophontidae). Preoccupied by *Langia* Moore, 1872. Proc. zool. Soc. London, 1872, 567. (Insecta: Lepidoptera: Sphingidae).

Remarks: The name *Langia* was initially introduced by Moore, 1872 for a genus of the moths family Sphingidae (with the type species *Langia zenzeroides* Moore, 1872 from India). Subsequently, Wells & Rao, 1987 described a copepod genus of the family Laophontidae (with the type species *Langia maculata* Wells & Rao, 1987 from India) under the same generic name. Thus, the genus *Langia* Wells & Rao, 1987 is a junior homonym of the genus *Langia* Moore, 1872. I propose for the genus *Langia* Wells & Rao, 1987 the new replacement name *Raowellsia* **nom. nov.**

Etymology: from J. B. J. Wells and G. C. Rao who are the current authors of preexisting genus *Langia*.

Summary of nomenclatural changes:

***Raowellsia* new replacement name**

= *Langia* Wells & Rao, 1987 (non Moore, 1872)

***Raowellsia maculata* (Wells & Rao, 1987) comb. nov.**

= *Langia maculata* Wells & Rao, 1987

Order SIPHONOSTOMATOIDA
Family CALIGIDAE
Genus MARKEVICHUS nom. nov.

Caligopsis Markevich, 1940. Rep. Acad. Sci. Ukr. SSR., no. 11, 14, 19. (Crustacea: Copepoda: Siphonostomatoida: Caligidae). Preoccupied by *Caligopsis* Seydel, 1924. N. Beitr. syst. Insektenkunde, 3, 30. (Insecta: Lepidoptera: Nymphalidae).

Remarks: Markevich (1940) proposed the genus *Caligopsis* with the type species *Caligopsis ponticus* Markevich, 1940. Unfortunately, the generic name was already preoccupied by Seydel (1924), who had described the genus *Caligopsis* (with the type species *Pavonia seleucida* Hewitson, 1877 by monotypy) in butterfly family Nymphalidae. Thus, the genus *Caligopsis* Markevich, 1940 is a junior homonym of the generic name *Caligopsis* Seydel, 1924. I propose a new replacement name *Markevichus* **nom. nov.** for *Caligopsis* Markevich, 1940.

Etymology: from A. P. Markevich who is the current author of preexisting genus *Caligopsis*.

Summary of nomenclatural changes:

***Markevichus* new replacement name**

= *Caligopsis* Markevich, 1940 (non Seydel, 1924)

***Markevichus ponticus* (Markevich, 1940) comb. nov.**

= *Caligopsis ponticus* Markevich, 1940

Family LERNAEPODIDAE
Genus NEOALBIONELLA nom. nov.

Albionella Kabata, 1979. Parasitic Copepoda of British fishes. Ray Soc. Publs No. 152: 379. (Crustacea: Copepoda: Siphonostomatoida: Lernaepodidae). Preoccupied by *Albionella* Chickering, 1946. Bull. Mus. comp. Zoöl. Harv., 97, 74. (Arachnida: Araneae: Salticidae).

Remarks: The *Albionella* Kabata, 1979 was established for a copepod genus in Lernaepodidae. *Albionella* Kabata, 1979 is a little-known genus of lernaepodid copepods, all parasites of sharks (Kabata, 1979; Rubec & Hogan, 1988; Benz, 1991). For the present, the genus includes 6 species as *Albionella globosa* (Leigh-Sharpe, 1918); *Albionella centroscyllii* (Hansen, 1923); *Albionella longicaudata* (Hansen, 1923); *Albionella*

etmopteri (Yamaguti, 1939); *Albionella fabricii* Rubec & Hogans, 1988 and *Albionella kabatai* Benz & Izawa, 1990.

Nevertheless the name *Albionella* is already occupied. Chickering (1946) established a spider genus *Albionella* with the type species *Albionella propria* Chickering, 1946 in Salticidae (Araneae). It is still used as a valid genus name in Salticidae (e.g. Prozynski, 2003; Platnick, 2007). It described from Panama. The genus *Albionella* Chickering, 1946 includes 3 species as *Albionella chickeringi* Caporiacco, 1954; *Albionella guianensis* PCaporiacco, 1954 and *Albionella propria* Chickering, 1946.

Thus the copepod genus *Albionella* Kabata, 1979 is a junior homonym of the genus *Albionella* Chickering, 1946. In accordance with Article 60 of the International Code of Zoological Nomenclature, Fourth Edition (1999), I suggest here that the name *Neoalbionella* should be erected as a replacement name for *Albionella* Kabata, 1979.

Etymology: from preexisting genus name *Albionella*.

Summary of nomenclatural changes:

***Neoalbionella* new replacement name**

= *Albionella* Kabata, 1979 (non Chickering, 1946).

***Neoalbionella globosa* (Leigh-Sharpe, 1918) comb. nov.**

= *Albionella globosa* (Leigh-Sharpe, 1918)

***Neoalbionella centroscyllii* (Hansen, 1923) comb. nov.**

= *Albionella centroscyllii* (Hansen, 1923)

***Neoalbionella longicaudata* (Hansen, 1923) comb. nov.**

= *Albionella longicaudata* (Hansen, 1923)

***Neoalbionella etmopteri* (Yamaguti, 1939) comb. nov.**

= *Albionella etmopteri* (Yamaguti, 1939)

***Neoalbionella fabricii* (Rubec & Hogans, 1988) comb. nov.**

= *Albionella fabricii* Rubec & Hogans, 1988

***Neoalbionella kabatai* (Benz & Izawa, 1990) comb. nov.**

= *Albionella kabatai* Benz & Izawa, 1990

Family LERNAEOPODIDAE
Genus *KABATAZUS* nom. nov.

Advena Kabata, 1979. Parasitic Copepoda of British fishes. Ray Soc. Publs No. 152: 415. (Crustacea: Copepoda: Siphonostomatoidea: Lernaepodidae). Preoccupied by *Advena* Gude, 1913. Proc. malac. Soc. Lond., 10, 391. (Mollusca: Gastropoda: Pulmonata: Helicarionidae).

Remarks: Firstly, the genus *Advena* was established by Gude, 1913 for gastropod family Helicarionidae with the type species *Helix campbelli* Gray, 1834. Later, the genus *Advena* was proposed by Kabata, 1979 for copepod family Lernaepodidae with the type species *Advena paradoxa* Kabata, 1979. However, the name *Advena* Kabata, 1979 is invalid under the law of homonymy, being a junior homonym of *Advena* Gude, 1913. I propose to substitute the junior homonym name *Advena* Kabata, 1979 for the nomen novum *Kabatazus*.

Etymology: from Z. Kabata who is the current author of preexisting genus *Advena*.

Summary of nomenclatural changes:

***Kabatazus* new replacement name**

= *Advena* Kabata, 1979 (non Gude, 1913)

***Kabatazus paradoxus* (Kabata, 1979) comb. nov.**

= *Advena paradoxa* Kabata, 1979

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Order	Family	Junior homonym	Senior homonym	Replacement name
CALANOIDA	CENTROPAGIDAE	Parathalassius Dusart, 1986	Parathalassius Mik, 1891 (Diptera)	Dusartius nom. nov.
CALANOIDA	PARACALANIDAE	Delius Andronov, 1972	Delius Casey, 1897 (Coleoptera)	Andronovius nom. nov.
CYCLOPOIDA	INCERTAE SEDIS	Scotophilus Hesse, 1881	Scotophilus Leach, 1821 (Mammalia)	Hesseius nom. nov.
HARPACTICOIDA	CANTHOCAMPTIDAE	Ophirion Por, 1967	Ophirion Townsend, 1911 (Diptera)	Pordfus nom. nov.
HARPACTICOIDA	CANTHOCAMPTIDAE	Paracampton Chappuis, 1929	Paracampton Casey, 1895 (Coleoptera)	Pesceus nom. nov.
HARPACTICOIDA	LAOPHONTIDAE	Langia Wells & Rao, 1987	Langia Moore, 1872 (Lepidoptera)	Raowellsia nom. nov.
SIPHONOSTOMATOIDA	CALIGIDAE	Caligopsis Markevich, 1940	Caligopsis Seydel, 1924 (Lepidoptera)	Markevichus nom. nov.
SIPHONOSTOMATOIDA	LERNAEOPODIDAE	Albionella Kabata, 1979	Albionella Chickering, 1946 (Araneae)	Neoalbionella nom. nov.
SIPHONOSTOMATOIDA	LERNAEOPODIDAE	Advena Kabata, 1979	Advena Gude, 1913 (Mollusca)	Kabatazrus nom. nov.