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SEPARATE
OF A PAPER PUBLISHED BY
THE INTERNATIONAL TRUST FOR ZOOLOGICAL NOMENCLATURE
ON BEHALF OF
THE INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

This paper contains an application relating to a question of zoological nomenclature which has been submitted to the International Commission on Zoological Nomenclature for decision. As a preliminary, this paper has been published in the "Bulletin of Zoological Nomenclature". The volume in which this paper was so published and the date of publication are shown at the foot of the first page of the paper.

2. The object of publishing applications in the "Bulletin of Zoological Nomenclature" is to provide an opportunity to interested specialists to submit comments to the Commission on the action recommended in the applications so published. For this purpose an interval of six months from the date of publication is allowed to elapse before the International Commission starts to vote on any given application.

3. One of the principal objects of the International Trust for Zoological Nomenclature in providing authors with separates (off-prints) of applications published in the "Bulletin" is to secure a rapid and wide distribution of those applications among interested specialists, in order to provide to those specialists an opportunity of commenting upon the applications in question before a decision is reached by the International Commission.

4. Recipients of separates of papers published in the "Bulletin" are therefore particularly requested to furnish their comments on the action proposed as soon as possible to the Assistant Secretary, the International Commission on Zoological Nomenclature, c/o British Museum (Natural History), Cromwell Road, London, S.W.7, England.

3 { STENORHYNCHUS LAMARCK, 1818 (CRUSTACEA, DECAPODA):
PROPOSED VALIDATION UNDER THE PLENARY POWERS WITH
DESIGNATION OF *CANCER SETICORNIS* HERBST, 1788, AS TYPE-
SPECIES. Z.N.(S.) 751

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The generic name *Stenorhynchus* Lamarck at present is in general use for a genus of spider crabs which inhabits the tropical American and West African seas. From a nomenclatorial viewpoint, however, this name for two reasons cannot be used for the genus in question. In order to avoid unnecessary confusion in the nomenclature of this genus, the International Commission on Zoological Nomenclature is hereby asked to make use of its plenary powers so as to make possible the continued use of the generic name *Stenorhynchus* in the sense adopted by modern authors.

The following are the original references to the generic names dealt with in the present proposal:

Inachus Weber, 1795, *Nomencl. entomol.*: 93 (type-species, selected by Milne Edwards (H.), 1837 (Cuvier's *Règne Anim.* ed. 4 (= *Discip.* ed.) 18 : pl. 34 fig. 2): *Cancer scorpio* Fabricius, 1779, *Reise Norwegen*: 345 (= *Cancer dorsettensis* Pennant, 1777, *Brit. Zool.* (ed. 4) 4 : 8)). Gender: masculine.

Leptopodia [Leach, 1814], in Brewster's *Edinb. Encycl.* 7 : 431 (type-species, by present selection: *Cancer phalangium* Fabricius, 1775, *Syst. Ent.*: 408). Gender: feminine.

Macropodia [Leach, 1814], in Brewster's *Edinb. Encycl.* 7 : 395 (type-species, by monotypy: *Cancer longirostris* Fabricius, 1775, *Syst. Ent.*: 408). Gender: feminine.

Macropus Latreille, [1802-1803], *Hist. nat. Crust. Ins.* 3 : 27 (type-species, by monotypy: *Cancer phalangium* Fabricius, 1775, *Syst. Ent.*: 408). Gender: masculine.

Pactolus Leach, 1815, *Zool. Miscell.* 2 : 19 (type-species, by monotypy: *Pactolus boscii* Leach, 1815, *Zool. Miscell.* 2 : 20). Gender: masculine.

Stenorhynchus Lamarck, 1818, *Hist. nat. Anim. sans Vertèbr.* 5 : 236 (type-species, selected by Milne Edwards (H.), 1837 (Cuvier's *Règne Anim.* ed. 4 (= *Discip.* ed.) 18 : pl. 35 fig. 3): *Cancer phalangium* Fabricius, 1775, *Syst. Ent.*: 408). Gender: masculine.

The genus which at present is generally named *Stenorhynchus* Lamarck contains two species: *Cancer seticornis* Herbst, 1788, from the East coast of America and the West coast of Africa, and *Leptopodia debilis* Smith (S. I.), 1871, from the West coast of America. Until 1897 this genus was generally named *Leptopodia* Leach, but Rathbun (1897, *Proc. biol. Soc. Washington* 11 : 155) pointed out that, since the original description of *Leptopodia* included neither *Cancer seticornis* nor *Leptopodia debilis*, the name *Leptopodia* cannot be used for the genus. Rathbun (1897 : 158) further concluded that the name *Stenorhynchus* Lamarck, 1818, was available for the genus, it being a name given to two species,

S. phalangium (Fabricius) and *S. seticornis* (Herbst), and proceeded to designate *S. seticornis* as the type-species of *Stenorynchus*. The present writers, while agreeing with the desirability of the objectives thus attained, wish to point out that Rathbun's selection of *Cancer seticornis* as the type-species of *Stenorynchus* is invalidated by the earlier selection by H. Milne Edwards (1837) of *S. phalangium* (= *Cancer phalangium* Fabricius), which selection has the result of making the name *Stenorynchus* unavailable under the present code for the genus containing *Cancer seticornis*.

The Rathbun designation was based upon the reasoning that, since *Stenorynchus phalangium* was already a member of the genus *Macropodia*, its alternate, *S. seticornis*, becomes, ipso facto, the type of *Stenorynchus*. This conclusion, which was based on the Code of the American Ornithologists' Union then in use, does not necessarily obtain under the present International Code of Zoological Nomenclature. The Milne Edwards selection of *S. phalangium* as the type of the genus *Stenorhynchus*, which dating from 1837 is the earliest valid type selection for the genus known to us, makes *Stenorynchus* Lamarck, 1818, an objective synonym of the older *Leptopodia* [Leach, 1814], and together with *Leptopodia* a subjective synonym of *Inachus* Weber, 1795. *Cancer phalangium* Fabricius, 1775, the type-species of both the genera *Stenorynchus* Lamarck and *Leptopodia* Leach, namely, is not, as thought by the majority of carcinologists, a subjective synonym of *Cancer rostratus* L., 1761, and therefore a member of the genus *Macropodia* [Leach, 1814], but is, as shown by Rathbun (1897, *Proc. biol. Soc. Washington* 11 : 162, footnote) synonymous with *Inachus dorynchus* [Leach, 1814], and thus belongs in the genus *Inachus* Weber, 1795. Monod (1956, *Mem. Inst. Franç. Afr. Noire* 45 : 531) followed the correct course and substituted the name *phalangium* Fabricius, 1775, for that of *dorynchus* [Leach, 1814].

We believe it highly desirable that the name *Stenorynchus* should be made available for the genus containing *Cancer seticornis* Herbst, and that this species should be made its type-species; in view of the facts stated above it is apparent that this result can be achieved only through a suspension of the Rules by intervention of the Commission's plenary powers.

The original description of the genus *Stenorynchus* contains a sentence which reads as follows (Lamarck, 1818, *Hist. nat. Anim. sans Vertèbr.* 5 : 236): "Les *sténorynques*, qu'on a aussi nommés macropes, macropodes et leptopodes . . .". At first it seemed possible to us to interpret this sentence so that one might conclude from it that Lamarck indicated that the generic name *Stenorynchus* is a substitute name for the generic names *Macropus* Latreille, [1802-1803], *Macropodia* [Leach, 1814], and *Leptopodia* [Leach, 1814], which he obviously considered synonyms. However, Lamarck's action does not fully comply with paragraph 1 of article 67 of the International Code of Zoological Nomenclature, since he does not expressly state that *Stenorynchus* is a substitute name for a prior generic name. *Stenorynchus* therefore cannot be considered a substitute name and thus its type-species must be selected from the two included species: *Cancer phalangium* Fabricius, 1775, and *Cancer seticornis* Herbst, 1788.

A second obstacle in our effort to make the name *Stenorynchus* Lamarck, 1818, available for the genus in question is offered by the generic name *Pactolus*

Leach, 1815. Leach, 1815, described his new genus *Pactolus* with one (new) species *Pactolus boscii*. The figure which Leach gave of his new species shows that it is based on a specimen formed from the parts of at least two species of crustaceans. The carapace of this specimen certainly is that of *Cancer seticornis* Herbst, but the legs obviously belong to a different species, the identity of which is not known. That *Pactolus* is based on a composite specimen was pointed out for the first time by De Haan (1839, *Fauna Japonica, Crust.* (4) : 89). Miers, 1879 (*Journ. Linn. Soc. Lond. (Zool.)* 14 : 643) cites *Pactolus* as a synonym of the genus dealt with here, which genus was mentioned by Miers under the incorrect name *Leptopodia* Leach. In order definitely to end the uncertain status of the species *Pactolus boscii* Leach, we now select, in harmony with the intentions of Miers (1879), the specimen to which belongs the carapace of the composite type specimen of Leach's species as the lectotype of *Pactolus boscii* Leach. By this action *Pactolus boscii* becomes a subjective junior synonym of *Cancer seticornis* Herbst. However, even if now the type-species of *Stenorynchus* under the plenary powers of the Commission is designated to be *Cancer seticornis* Herbst, then the generic name *Stenorynchus* Lamarck, 1818, still is not available for the genus in question, since the generic name *Pactolus* Leach, 1815, for the same genus, is older. In order to make the use of the generic name *Stenorynchus* in the current sense possible, it is necessary also to suppress the generic name *Pactolus*.

The original spelling of the name under consideration here is *Stenorynchus*, which probably is a misspelling of *Stenorhynchus*. In order to have the spelling of the termination of this name identical with that of the numerous generic names with the ending "-rynchus", we ask the International Commission on Zoological Nomenclature to use its plenary powers to emend the original spelling *Stenorynchus* to the grammatically more correct *Stenorhynchus*. The first author who, to our knowledge, used the correct spelling *Stenorhynchus* is Desmarest (1823, *Dict. Sci. nat.* 28 : 268), who in the synonymy of *Leptopodia* Leach cited *Stenorhynchus* Lamarck, though in the synonymy of *Macropodia* Leach (on p. 267) the same name was cited in the spelling *Stenorynchus*. Many later authors, like H. Milne Edwards, adopted the spelling *Stenorhynchus*.

According to Article 30 par. (a) (3) the gender of *Stenorhynchus* is masculine.

We think it desirable to use this opportunity to ask for the insertion in the Official List of Generic Names in Zoology of the generic names *Inachus* Weber, 1795, and *Macropodia* [Leach, 1814], which names, as far as we can ascertain are the oldest available names for the genera in question and are in common use for these genera. The generic name *Macropus* Latreille, [1802-1803], being a junior homonym of *Macropus* Shaw and Nodder, 1790, should be placed on the Official Index of Rejected and Invalid Generic Names in Zoology.

As far as family names are concerned the Crustacean genera *Inachus* Weber, 1795, *Leptopodia* [Leach, 1814], *Macropodia* [Leach, 1814], and *Stenorhynchus* Lamarck, 1818, all have been taken, some time or other, as the type-genus of a taxon belonging to the family group. In current Decapod taxonomy all these genera are considered to belong to one single subfamily of the family MAJIDAE, generally indicated with the name INACHINAE. However, as shown by the following synonymy, the name MACROPODIINAE has priority and will have to be

used in its stead unless action is taken to save INACHINAE, as hereinafter proposed.

- MACROPODIADAE Samouelle, 1819, *Entom. usef. Compend.* : 90
 MACROPODIENS Milne Edwards (H.), 1834, *Hist. nat. Crust.* 1 : 272, 273
 INACHINAE McLeay, 1838, *Illustr. Annul. S. Afr.* : 55, 56
 INACHIDA McLeay, 1838, *Illustr. Annul. S. Afr.* : 56
 MACROPODIAE McLeay, 1838, *Illustr. Annul. S. Afr.* : 56
 MACROPODITES Lucas, 1842, *Hist. nat. Crust. Arachn. Myriap.* : 143
 LEPTOPODIADAE Bell, 1844, *Hist. Brit. stalk-eyed Crust.* (1) : 1
 MACROPODINEA Dana, 1852, *U.S. Explor. Exped.* 13 : 75, 76
 LEPTOPODIDAE Dana, 1852, *U.S. Explor. Exped.* 13 : 77, 83
 INACHINAE Dana, 1852, *U.S. Explor. Exped.* 13 : 78
 LEPTOPODINAE Dana, 1852, *U.S. Explor. Exped.* 13 : 83
 STENORHYNCHINAE Dana, 1852, *U.S. Explor. Exped.* 13 : 83
 INACHIENS Desmarest (E.), 1858, in Chenu, *Encycl. Hist. nat. (Crust. Moll. Zooph.)* : 12
 LEPTOPODIIDAE Stimpson, 1870, *Bull. Mus. comp. Zoöl.*, Harvard 2 : 125
 LEPTOPODIINAE Stimpson, 1870, *Bull. Mus. comp. Zoöl.*, Harvard 2 : 125
 LEPTOPODIOIDA Alcock, 1895, *Journ. asiat. Soc. Bengal* (2) 64 : 160, 162
 INACHOIDA Alcock, 1895, *Journ. asiat. Soc. Bengal* (2) 64 : 160, 163, 185

There are two reasons which, in our opinion, make it desirable to save the name INACHINAE for the subfamily in question. The first of these is that the name INACHINAE at present is in general use, while that of MACROPODIINAE is very unfamiliar to carcinologists. Secondly, the names MACROPODIIDAE and MACROPODIINAE for family-group taxa of Crustacea so closely resemble those of MACROPODIDAE and MACROPODINAE for family-group taxa of Mammalia, that this might give rise to a confusion, which will not occur if the name INACHINAE is employed for the crabs.

The mammalian genus *Macropus* Shaw and Nodder, 1790, has been dealt with in a separate proposal (*Bull. zool. Nomencl.* 20 : 376-379) and is not further considered here.

The concrete proposals which we now submit to the International Commission on Zoological Nomenclature are that they should:—

- (1) use their plenary powers to:—
 - (a) suppress for the purposes of the Law of Priority, but not for those of the Law of Homonymy, the generic name *Pactolus* Leach, 1815;
 - (b) set aside all designations or selections of type-species for the genus *Stenorhynchus* Lamarck, 1818, made prior to the proposed decision, and having done so
 - (c) designate *Cancer seticornis* Herbst (1788, *Vers. Naturgesch. Krabben Krebse* 1(7) : 229) to be the type-species of the foregoing genus;
 - (d) validate the emendation *Stenorhynchus* of the generic name *Stenorhynchus* Lamarck, 1818;
 - (e) direct that the family-group name INACHINAE McLeay, 1838 (*Illustr. Annul. S. Afr.* : 56) (type-genus: *Inachus* Weber, 1795)

is not to be rejected in favour of the name MACROPODIINAE (emendation of MACROPODIADAE) Samouelle, 1819 (*Entom. usef. Compend.* : 90) (type-genus: *Macropodia* [Leach, 1814]) by any worker who on taxonomic grounds places the genus *Macropodia* [Leach, 1814], in the same family-group taxon as *Inachus* Weber, 1795;

- (2) place on the Official List of Generic Names in Zoology the undermentioned names (the original references for the first two being given in par. 2 of the present application):
- (a) *Inachus* Weber, 1795;
 - (b) *Macropodia* [Leach, 1814];
 - (c) *Stenorhynchus* (emendation, as validated under (1) (d) above, of *Stenorynchus*) Lamarck, 1818 (*Hist. nat. Anim. sans Vertèbr.* 5 : 236) (type-species, as designated under (1) (c) above: *Cancer seticornis* Herbst, 1788) (gender: masculine);
- (3) place on the Official Index of Rejected and Invalid Generic Names in Zoology the undermentioned names:—
- (a) *Macropus* Latreille, [1802–1803] (a junior homonym of *Macropus* Shaw and Nodder, 1790);
 - (b) *Pactolus* Leach, 1815 (as suppressed under (1) (a) above);
 - (c) *Stenorynchus* (invalid original spelling of *Stenorhynchus*) Lamarck, 1818;
- (4) place on the Official List of Specific Names in Zoology the undermentioned names:—
- (a) *debilis* Smith (S. I.), 1871 (*Rep. Peabody Acad. Sci.* 1869 & 1870 (app.) : 87) as published in the combination *Leptopodia debilis*;
 - (b) *dorsettensis* Pennant, 1777 (*Brit. Zool.* (ed. 4) 4 : 8) as published in the combination *Cancer dorsettensis* (oldest available name for the type-species of the genus *Inachus* Weber, 1795);
 - (c) *longirostris* Fabricius, 1775 (*Syst. Ent.*: 408) as published in the combination *Cancer longirostris* (the name of the type-species of the genus *Macropodia* Leach, 1814);
 - (d) *phalangium* Fabricius, 1775 (*Syst. Ent.*: 408) as published in the combination *Cancer phalangium*;
 - (e) *rostratus* Linnaeus, 1761 (*Fauna Suecica* (ed. 2) : 493) as published in the combination *Cancer rostratus*;
 - (f) *seticornis* Herbst, 1788 (*Vers. Naturgesch. Krabben Krebse* 1(7) : 229) as published in the combination *Cancer seticornis* (the name of the type-species of the genus *Stenorhynchus* Lamarck, 1818);
- (5) place on the Official List of Family-Group Names in Zoology the name INACHIDAE McLeay, 1838 (a family-group name to be given preference under the plenary powers under (1) (e) above over the family-group name MACROPODIINAE (emendation of MACROPODIADAE) Samouelle, 1819, by any author who may consider the genera *Inachus* Weber, 1795, and *Macropodia* [Leach, 1814], as belonging to the same family-group taxon.