

OPINION 2012 (Case 3041)***Cynodon* Spix in Spix & Agassiz, 1829 and *Rhaphiodon* Agassiz in Spix & Agassiz, 1829 (Osteichthyes, Characiformes): conserved, and *C. gibbus* and *R. vulpinus* Spix & Agassiz, 1829 designated as the respective type species of *Cynodon* and *Rhaphiodon***

Keywords. Nomenclature; taxonomy; Osteichthyes; Characiformes; CYNODONTIDAE; CHARACIDAE; *Cynodon*; *Rhaphiodon*; *Cynodon gibbus*; *Cynodon vulpinus*; *Rhaphiodon gibbus*; *Rhaphiodon vulpinus*; freshwater fish; South America.

Ruling

- (1) Under the plenary power:
 - (a) the following names are suppressed for the purposes of both the Principle of Priority and the Principle of Homonymy:
 - (i) *Cynodon* Cuvier, 1829 and all uses of the name *Cynodon* prior to the publication of *Cynodon* Spix in Spix & Agassiz, 1829;
 - (ii) *vulpinus* Cuvier, 1829, as published in the binomen *Cynodon vulpinus*, and all uses of the name *Cynodon vulpinus* prior to the publication of *Cynodon vulpinus* Spix & Agassiz, 1829;
 - (b) the name *Rhaphiodon* Agassiz in Spix & Agassiz, 1829 is to be treated as the name of a new genus and not as a replacement name for *Cynodon* Spix in Spix & Agassiz, 1829;
 - (c) the name *Rhaphiodon* Agassiz in Spix & Agassiz, 1829 is to be given precedence over *Cynodon* Spix in Spix & Agassiz, 1829 whenever the two names are considered to be synonyms;
 - (d) all previous type species fixations for the following nominal genera are hereby set aside:
 - (i) *Rhaphiodon* Agassiz in Spix & Agassiz, 1829 and *Rhaphiodon vulpinus* Spix & Agassiz, 1829 is hereby designated as the type species;
 - (ii) *Cynodon* Spix in Spix & Agassiz, 1829 and *Cynodon gibbus* Spix & Agassiz, 1829 is hereby designated as the type species.
- (2) The following names are hereby placed on the Official List of Generic Names in Zoology:
 - (a) *Rhaphiodon* Agassiz in Spix & Agassiz, 1829 (gender: masculine), type species by designation in (1)(d)(i) above *Rhaphiodon vulpinus* Spix & Agassiz, 1829, with the endorsement that it is to be given precedence over the name *Cynodon* Spix in Spix & Agassiz, 1829 whenever the two names are considered to be synonyms;
 - (b) *Cynodon* Spix in Spix & Agassiz, 1829 (gender: masculine), type species by designation in (1)(d)(ii) above *Cynodon gibbus* Spix & Agassiz, 1829, with the endorsement that it is not to be given priority over the name *Rhaphiodon* Agassiz in Spix & Agassiz, 1829 whenever the two names are considered to be synonyms.

- (3) The following names are hereby placed on the Official List of Specific Names in Zoology:
- (a) *gibbus* Spix & Agassiz, 1829, as published in the binomen *Cynodon gibbus* (specific name of the type species of *Cynodon* Spix in Spix & Agassiz, 1829);
 - (b) *vulpinus* Spix & Agassiz, 1829, as published in the binomen *Rhaphiodon vulpinus* (specific name of the type species of *Rhaphiodon* Agassiz in Spix & Agassiz, 1829).
- (4) The following names are hereby placed on the Official Index of Rejected and Invalid Generic Names in Zoology:
- (a) *Cynodon* Cuvier, 1829, as suppressed in (1)(a)(i) above;
 - (b) *Rhaphiodontichthys* Campos, 1945 (a junior objective synonym of *Rhaphiodon* Agassiz in Spix & Agassiz, 1829);
 - (c) *Camposichthys* Travassos, 1946 (a junior objective synonym of *Cynodon* Spix in Spix & Agassiz, 1829).
- (5) The name *vulpinus* Cuvier, 1829, as published in the binomen *Cynodon vulpinus* and as suppressed in (1)(a)(ii) above, is hereby placed on the Official Index of Rejected and Invalid Specific Names in Zoology.

History of Case 3041

An application for the conservation of the usage of the names *Cynodon* Spix in Spix & Agassiz, 1829 and *Rhaphiodon* Agassiz in Spix & Agassiz, 1829 and the designation of *C. gibbus* and *R. vulpinus* Spix & Agassiz, 1829 as the respective type species of *Cynodon* and *Rhaphiodon* was received from Dr M. Toledo-Piza (*Museu de Zoologia da Universidade de São Paulo, São Paulo, Brazil*) and Dr K.J. Lazara (*United States Merchant Marine Academy, Kings Point, New York, U.S.A.*) on 3 February 1997. After correspondence the case was published in BZN 57: 151–157 (September 2000).

A note in support of the application was published in BZN 58: 306 (December 2001).

A specimen of *Rhaphiodon vulpinus* in the Musée d'Histoire Naturelle, Neuchâtel (catalogue no. MNHN 822), recorded by Kottelat (1988, p. 84) as 'potential holotype', was accepted as the holotype by Toledo-Piza (2000, p. 74, fig. 28). Notice of the case was sent to appropriate journals.

Decision of the Commission

On 1 March 2002 the members of the Commission were invited to vote on the proposals published in BZN 57: 154. At the close of the voting period on 1 June 2002 the votes were as follows:

Affirmative votes – 25: Alonso-Zarazaga, Bock, Böhme, Bouchet, Brothers, Calder, Cogger, Eschmeyer, Evenhuis, Fortey, Halliday, Kerzhner, Kraus, Lamas, Macpherson, Mahnert, Martins de Souza, Mawatari, Minelli, Ng, Nielsen, Papp, Rosenberg, Song, van Tol

Negative votes – 2: Patterson and Štys.

No vote was received from Dupuis.

Original references

The following are the original references to the names placed on Official Lists and Official Indexes by the ruling given in the present Opinion:

Camposichthys Travassos, 1946, *Summa Brasiliensis Biologiae*, 1: 132.

Cynodon Cuvier, 1829, *Le règne animal distribué d'après son organisation, pour servir de base à l'histoire naturelle des animaux et d'introduction à l'anatomie comparée*, Ed. 2, vol. 2, p. 312.

Cynodon Spix & Agassiz, 1829, *Selecta genera et species piscium quos in itinere per Brasiliam . . . Collegit et pingendos curavit Dr. J.B. de Spix . . . Digessit, descripsit et observationibus anatomicis illustravit Dr. L. Agassiz*, pl. 26.

gibbus, *Cynodon*, Spix & Agassiz, 1829, *Selecta genera et species piscium quos in itinere per Brasiliam . . . Collegit et pingendos curavit Dr. J.B. de Spix . . . Digessit, descripsit et observationibus anatomicis illustravit Dr. L. Agassiz*, pl. 27.

Rhaphiodon Agassiz in Spix & Agassiz, 1829, *Selecta genera et species piscium quos in itinere per Brasiliam . . . Collegit et pingendos curavit Dr. J.B. de Spix . . . Digessit, descripsit et observationibus anatomicis illustravit Dr. L. Agassiz*, pp. 59, 76.

Rhaphiodontichthys Campos, 1945, *Arquivos de Zoologia do Estado de São Paulo*, 4: 473.

vulpinus, *Cynodon*, Cuvier, 1829, *Le règne animal distribué d'après son organisation, pour servir de base à l'histoire naturelle des animaux et d'introduction à l'anatomie comparée*, Ed. 2, vol. 2, p. 312.

vulpinus, *Rhaphiodon*, Spix & Agassiz, 1829, *Selecta genera et species piscium quos in itinere per Brasiliam . . . Collegit et pingendos curavit Dr. J.B. de Spix . . . Digessit, descripsit et observationibus anatomicis illustravit Dr. L. Agassiz*, p. 76.