CAENOLESTIDAE TROUESSART. 1898, AND
PALAEOTHENTIDAE SINCLAIR. 1906 (MAMMALIA); PROPOSED CONSERVATION UNDER THE PLENARY POWERS. Z.N.(S.) 2214

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The object of this application is to safeguard the family-names CAENOLESTIDAE Trouessart, 1898, and PALAEOTHENTIDAE Sinclair, 1906, from the threat to their stability represented by the prior names ABDERITIDAE Ameghino, 1889, EPANORTHIDAE Ameghino, 1889, GARZONIDAE Ameghino, 1891, and DECASTIDAE Ameghino, 1893. Continuity and universality in the nomenclature of an important group of South American mammals are at stake.

2. The family-group names involved, with the type-genus of each nominal taxon and the type-species of each nominal genus, are tabulated on pp. 59—60. Notes on each case follow the table.

3. The usage of family-group names in this group has developed as follows. Ameghino (1903: 159) recognized three families among early Miocene (Santacrucian) representatives of his group Diprotodonta: the ABDERITIDAE, EPANORTHIDAE and GARZONIDAE. Trouessart (1898: 1200, 1202, 1204, 1205; 1904: 839, 840, 843, 844) recognized four families, the ABDERITIDAE, EPANORTHIDAE, GARZONIDAE and CAENOLESTIDAE. Palmer (1904: 876, 881, 882) recognized three families: the ABDERITIDAE, EPANORTHIDAE (including CAENOLESTIDAE and DECASTIDAE) and GARZONIDAE. Sinclair (1906: 416) opted to group “... all the Santa Cruz diprotodont marsupials in a single family, which may be called the CAENOLESTIDAE (Trouessart, 1898, p. 1205) from its only surviving and best known representative Caenolestes.” within this family Sinclair recognized three subfamilies: the CAENOLESTINAE (with Caenolestes, Halmarhiphus, Garzonia), the PALAEOTHENTINAE (with Palaeothentes, Callomenus, Decastis) and the ABDERITINAE (with Abderites).

4. Sinclair’s classification has been the one most commonly (though not exclusively) used for the last seventy years. The example of Thomas (1895: 875) in placing Caenolestes in the EPANORTHIDAE was followed by Osborn (1910: 517). Osborn
Family-group name

**ABDERITIDAE** Ameghino, 1889: 268, 269 (as “Abderitesidae”) (1)

**EPANORTHIDAE** Ameghino, 1889: 268, 270 (2)

**GARZONIDAE** Ameghino, 1891: 304, 307(3)

**DECASTIDAE** Ameghino, 1893: 79(4)

**CAENOLESTIDAE** Trouessart, 1898: 1205(5)

**PALAEOTHENTIDAE** Sinclair, 1906: 417(6)

Name of type-genus of nominal family-group taxon

**Abderites** Ameghino, 1887: 5

**Epanorthus** Ameghino, 1889: 27 (replacement name for **Palaeothentes** Ameghino, 1887: 5)

**Garzonia** Ameghino, 1891: 21 (subjective junior synonym of **Stilotherium** Ameghino, 1887: 7)

**Decastis** Ameghino, 1891: 19 (subjective junior synonym of **Dipilus** Ameghino, 1890)

**Caenolestes** Thomas, 1895: 875 (replacement name for **Hyracodon** Tomes, 1863, *non* Leidy, 1856)

**Palaeothentes** Ameghino, 1887: 5

Name of type-species of nominal type-genus, and how fixed

**Abderites meridionalis** Ameghino, 1887: 5, by original designation

**Palaeothentes aratae** Ameghino, 1887: 5, through **Palaeothentes** Ameghino, 1887: 5

**Garzonia typica** Ameghino, 1891: 307, under Article 68b

**Decastis columnaris** Ameghino, 1891: 305 by original designation

**Hyracodon fuliginosus** Tomes, 1863, through **Hyracodon** Tomes, 1863, of which it is the type-species by monotypy

**Palaeothentes aratae** Ameghino, 1887: 5, by subsequent designation by Clemens & Marshall, 1976: 72

NOTES

(1) **ABDERITIDAE** is a justified emendation under Article 33a(i) by Ameghino (1903: 159) of “Abderitesidae” Ameghino (1889: 268, 269). Since the work of Sinclair (1906: 417) it has been treated as a sub-family of **CAENOLESTIDAE** Trouessart (1898: 1205).
(2) EPANORTHIDAE was erected by Ameghino (1889: 272) to include the genera Epanorthus and Acdestis. However, EPANORTHIDAE Ameghino, 1889, is invalid because it is based on Epanorthus, an invalid replacement name. The sequence of events was as follows: The name "Palaeothentes aratae Mor." was published in 1882 by Doering (: 455) in a list of names and is a nomen nudum. The name Palaeothentes aratae was published, also in 1882, by Moreno (: 116), but this too is a nomen nudum. It is impossible to establish which name appeared first, but this has no importance.

In 1887 (5) Ameghino described Palaeothentes aratae for the first time and the name is to be attributed to him. However, he clearly knew of the earlier publications, because in 1889 (: 271) he decided that this spelling was "impossible" and that the generic name should have been written Palaeoteuthis and hence was preoccupied by Palaeoteuthis d'Orbigny, 1850, an extinct dibranchiate cephalopod. He therefore proposed Epanorthus to replace it. However, the spelling Palaeothentes was original and intentional, and is ipso facto the correct spelling regardless of its etymology. It cannot be preoccupied by the quite different name Palaeoteuthis (see Simpson, 1945: 45n). Indeed, Sinclair (1906: 416) had already argued that Epanorthus "can no longer be retained either for a genus or to designate a family [EPANORTHIDAE]."

Palaeothentes, when described in 1887 (and redescribed in 1889 when Epanorthus was proposed to replace it) contained six species and no type-species was designated on either occasion. So far as we know, Clemens & Marshall (1976: 72) were the first to designate a type-species for this genus when they designated P. aratae, the first species described.

EPANORTHIDAE was last used as a valid senior synonym by Scott (1937: 717).

(3) GARZONIDAE was proposed by Ameghino (1891: 304, 307) to include the genera Garzonia and Halmarhiphus. Garzonia is now considered a junior synonym of Stilotherium Ameghino, 1887: 7 (see Reig, 1955: 62). Sinclair (1906: 417) included the GARZONIDAE within the CAENOLESTINAE and the name has remained unused as a senior synonym for the last seventy years. The last use of the family-name GARZONIDAE as a valid name was by Ameghino (1906: 417).

(4) DECASTIDAE was proposed by Ameghino (1893: 79) to include the genera Decastis, Acdestis and Dipilus. Decastis Ameghino, 1891 is recognized as a junior synonym of Dipilus Ameghino, 1890 (see Simpson, 1945: 45; Clemens and Marshall, 1976: 70). Sinclair (1906: 417) included the DECASTIDAE in the PALAEOTHENTINAE and the name has remained unused as a senior synonym for the last seventy years.

(5) CAENOLESTIDAE was proposed by Trouessart (1898: 1205) for Caenolestes only.

(6) PALAEOTHENTINAE was proposed by Sinclair (1906: 417) to include Palaeothentes, Callomenus Ameghino, 1891, and Decastis. It was raised to the rank of family by Osgood (1921: 143, 151), but has remained unused as a senior synonym since that time.
recognized a superfamily CAENOLESTOIDEA, but no family CAENOLESTIDAE. Osgood (1921: 151) placed Caenolestes in the CAENOLESTINAE, family PALAEOTHENTIDAE. Winge (1923: 84) recognized one family, EPANORTHIDAE, and included within it (among other groups) the CAENOLESTINI (with Halmatorhhiphus, Caenolestes, Garzonia) and EPANORTHINI (with Epanorthus, Callomenus, Decastis, Abderites). More recently, Scott (1937: 717, 722) recognized one family, EPANORTHIDAE, with three subfamilies: CAENOLESTINAE, EPANORTHINAE and ABDERITINAE.

5. The family-group names ABDERITIDAE and GARZONIDAE have remained unused as valid names for the last seventy years. Pertinent publications in which Sinclair's classification and nomenclature have been followed include: Clemens & Marshall (1976: 10), Marshall (1976: 83), Pascual & Herrera (1973: 44), Piveteau (1961: 619), Simpson (1930: 9; 1945: 44; 1970: 58), Zittel (1925: 27) and many others.

6. If the Law of Priority is strictly applied, the family-group names CAENOLESTIDAE and CAENOLESTINAE of the classification most commonly used for the last seventy years would have to be replaced by ABDERITIDAE and GARZONINAE. This would not only upset stability in nomenclature but also introduce taxonomic concepts that are quite unacceptable.

7. We therefore ask the Commission:

(1) to use its plenary powers to rule that the family-group names ABDERITIDAE Ameghino, 1889, GARZONIDAE Ameghino, 1891, and DECASTIDAE Ameghino, 1893, are not to be given nomenclatural precedence over the family-group names CAENOLESTIDAE Trouessart, 1898 and PALAEOTHENTINAE Sinclair, 1906;

(2) to place the following family-group names on the Official List of Family-Group Names in Zoology with the endorsements shown:

(a) CAENOLESTIDAE Trouessart, 1898 (type-genus Caenolestes Thomas, 1895), to be given nomenclatural precedence over ABDERITIDAE Ameghino, 1889, GARZONIDAE Ameghino, 1891, and DECASTIDAE Ameghino, 1893;

(b) PALAEOTHENTINAE Sinclair, 1906 (type-genus Palaeothentes Ameghino, 1887), to be given nomenclatural precedence over ABDERITIDAE Ameghino, 1889, GARZONIDAE Ameghino, 1891, and DECASTIDAE Ameghino, 1893;
(c) ABDERITINAE Ameghino, 1889 (type-genus *Abderites* Ameghino, 1887), not to be given nomenclatural precedence over CAENOLESTIDAE Trouessart, 1898 or PALAEOTHENTINAE Sinclair, 1906;

(d) GARZONIDAE Ameghino, 1891 (type-genus *Garzonia* Ameghino, 1891), not to be given nomenclatural precedence over CAENOLESTIDAE Trouessart, 1898 or PALAEOTHENTINAE Sinclair, 1906;

(e) DECASTIDAE Ameghino, 1893 (type-genus *Decastis* Ameghino, 1891), not to be given nomenclatural precedence over CAENOLESTIDAE Trouessart, 1898 or PALAEOTHENTINAE Sinclair, 1906;

(3) to place the following generic names on the Official List of Generic Names in Zoology:

(a) *Caenolestes* Thomas, 1895 (gender, masculine), type-species, through *Hyracodon* Tomes, 1863, *Hyracodon fuliginosus* Tomes, 1863;

(b) *Palaeothentes* Ameghino, 1887 (gender, masculine), type-species, by subsequent designation by Clemens and Marshall, 1976, *Palaeothentes aratae* Ameghino, 1887;

(c) *Abderites* Ameghino, 1887 (gender, masculine), type-species, by original designation, *Abderites meridionalis* Ameghino, 1887;

(d) *Garzonia* Ameghino, 1891 (gender, feminine), type-species, under Article 68b, *Garzonia typica* Ameghino, 1891 (currently treated as junior subjective synonym of *Stilotherium* Ameghino, 1887);

(e) *Decastis* Ameghino, 1891 (gender, feminine), type-species, by original designation, *Decastis columnaris* Ameghino, 1891 (currently treated as a junior subjective synonym of *Dipilus* Ameghino, 1890);

(4) to place the following specific names on the Official List of Specific Names in Zoology:

(a) *fuliginosus* Tomes, 1863, as published in the binomen *Hyracodon fuliginosus* (specific name of type-species of *Caenolestes* Thomas, 1895);

(b) *aratae* Ameghino, 1887, as published in the binomen *Palaeothentes aratae* (specific name of type-species of *Palaeothentes* Ameghino, 1887);

(c) *meridionalis* Ameghino, 1887, as published in the binomen *Abderites meridionalis* (specific name of type-species of *Abderites* Ameghino, 1887);
(d) *typica* Ameghino, 1891, as published in the binomen *Garzonia typica* (specific name of type-species of *Garzonia* Ameghino, 1891);

(e) *columnaris* Ameghino, 1891, as published in the binomen *Decastis columnaris* (specific name of type-species of *Decastis* Ameghino, 1891).

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