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## INTRODUCTION

This second bulletin of amendments to my Keys (Wells, 1976, 1978) deals with additions and alterations made necessary by recent publications and takes another opportunity to correct errors. Once again I wish to thank my colleagues for information received and to encourage them to continue sending it for incorporation in future bulletins. Page numbers in parentheses are those of the original Keys (Wells, 1976).

## Family Gelyellidae

*Gelyella droguei* Rouch & Lescher-Moutoué, 1977, a new genus and species, is the sole species in a new family of primitive freshwater harpacticoids which tends to link together Lang's (1948) primary divisions of Polyarthra and Oligoarthra. The Key to Families (p.5) requires modification of couplet 5 as follows—

- |   |                             |
|---|-----------------------------|
| 5. P.4-P.5 absent.  | Gelyellidae                 |
| P.4-P.5 present.  | 5a                          |
| 5a. Distal segment of Enp. P.2 much longer than the entire Exp. | Longipediidae <sup>a)</sup> |
| Distal segment of Enp. P.2 shorter than the Exp.                | Canuellidae                 |

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## Family Cerviniidae

Dinet (1978) describes nine new species of *Pontostratiotes* — *P. uxoris*, *P. gladius*, *P. lubricus*, *P. vitelloi*, *P. viverae*, *P. denticulatus*, *P. ceciliae*, *P. vasconensis*, *P. barnetti*. All are referable to the genus codon in KGG 1 (p.21), as in *P. pori*, nom. nov. by Dinet (1978) for the *P. abyssicola* of Por (1969). Add to General Note 2 (p.26).

## Family Ectinosomatidae

1. *Arenosetella fimbriaticauda* McLachlan & Moore, 1978, to genus codon in KGG 1 (p.28). Add to General Note 2 (p.36).
2. *Ectinosoma barbicauda* Bozic, 1978, to genus codon in KGG 100 (p.29). Add to General Note 2 (p.36).
3. McLachlan & Moore (1978) have re-examined *Hastigerella tenuissima*, *H. palpilabra* and *Arenosetella monensis*. They show that all possess a weak ornamentation of the anal segment and, further, that in all respects they are identical and must be considered synonymous. The senior synonym is *H. tenuissima* which must be transferred to *Arenosetella* and added to the genus codon in KGG 1 (p.28). Delete the codons for *H. tenuissima* and *H. palpilabra* in KGG 300 (p.33) (see also Wells, 1978 p.1, for *Arenosetella monensis*).

### Family Darcythompsoniidae

Kunz (1978) describes a specimen that he believes to be the previously unknown male of *Leptocaris minimus* Jakobi. This male has P.1-P.4 Enp.2 with 3:3:3:2 setae and lacks a seta on P.3 Enp.1. Although Kunz was unable to examine the female he is convinced that the additional small setae illustrated by Jakobi (1954) are only accessory spinules. Therefore, the codon in KGG 1 (p.37) must be amended to read — a/a/4:4/0:0:0/3:3:3:2. A note that the male of this species has now been described should be made under General Notes (p.39).

### Family Harpacticidae

1. *Harpacticus furcatus* is redescribed by Itô & Fukuchi (1978); add to General Note 1 (p.47).
2. *Tigriopus igai* Itô, 1977, to codon for *Tigriopus*<sup>b</sup> in KGG 1 (p.43); add to footnote b) (p.44).
3. *Harpacticella oceanica* Itô, 1977, requires a new codon in KGG 100 (p. 46) — nor/7/1/♀/5:5/0:4.
4. There are errors in the codons for *Harpacticella* spp. in KGG 100 (p.46); correct as follows—  
*Harpacticella*<sup>d</sup> — nor/7/1/♀/5:5/0:3.  
*H. paradoxa* — nor/7/1/♀/5:5/0-1:3.

### Family Thalestridae

1. Delete *Paradactylopodia oculata* from KGG 200 (p.62). This species requires a new codon in KGG 1 (p. 58) — 3:3/7:8:7/2:2/3/p:d.
2. There are several errors with regard to species of *Pseudotachidius*; correct as follows—
  - (a) in KGG 1 (p.58)
    - (i) delete the codon for *P. coronatus* and *P. similis*.
    - (ii) add a new codon for *P. similis*—  
3:3/??:5/?1/?/p:d.
    - (iii) add a new codon for *P. vikingus* ♀—  
3:3/6:6:6/1:1/3/p:d.
  - (b) In KGG 200 (p.62) add a new codon for *P. peruanus* Becker, 1974—  
4-5/1/less than or equal to Enp.1.
  - (c) in KGG 300 (p.63)
    - (i) add a new codon for *P. coronatus*—  
p:d/3/5-6/2/3.
    - (ii) codon for *P. vikingus* refers to the male only.
    - (iii) delete the codon for *P. peruanus*.
3. *Paradactylopodia hexarticulata* is incorrectly spelt by Wells, (1978, p.3).

### Family Diosaccidae

1. *Pseudostenhelia wellsii* Coull & Fleeger, 1977, to genus codon in KGG 1 (p.70) which now requires amendment as follows—  
3/2/2/4/2-3:2-3:2-3; add to General Note 2 (p.99).
2. *Haloschizopera latisetifera* Marinov, 1973a, to codon for *Haloschizopera*<sup>a)</sup> in KGG 100 (p.72); add to footnote a) (p.73).
3. Delete *Metamphiascopsis nicobaricus* from footnote c) of KGG 260 (p.84) and add a new codon for this species in KGG 250 (p. 82—  
wd/9/2:6.
4. *Amphiascus longarticulatus* Marcus (see Wells, 1978 p.3) is re-described by Bodin (1977). His specimens have a weak third inner seta on P.2 Exp.3. It is not known if this seta is present in Marcus's material. The species must now be added to footnote b) of KGG 260 (p.84). Bodin considers *Amphiascus* sp. Wells, 1968, to be this species.
5. *Stenhelia (D) krishnensis* Radhakrishna & Reddy, 1978, to codon for *S. madrasensis* in KGG 500 (p.88). These two species probably are synonymous.
6. *Protopsammotopa wilsoni* Wells, 1977, to genus codon in KGG 1100 (p.98); amend entry in General Note 2 (p.99).
7. Add *Schizopera issykkulica* Mauyilova, 1966, to General Note 4 (p. 99).

### Family Ameiridae

1. *Ameira scotti* has been omitted from the Keys; add a new codon in KGG 400 (p.114)—  
0:0:0/1:1:1/1:1:1/4:5:5/4:5/2:4.
2. *Ameira longipes*: The first codon for this species in KGG 400 (p.115, line 1) must be deleted. The true codon is the last one on this page.
3. *Parevansula elegans* (Marinov, 1974) requires a new codon in KGG 1 (p.101)—  
3:2/2:2:2/1:1:2/4/0. This species is assigned by Marinov to the genus *Philoleptomesochra*, but see General Note 2 (p.122).
4. *Nitocra sewelli husmanni* is incorrectly spelt by Wells (1978, p.4).

### Family Paramesochridae

1. *Apodopsyllus unguiformis* Coull & Hogue, 1978, to codon for *A. africanus* and *A. schulzi* in KGG 300 (p.129).
2. *Apodopsyllus bermudensis* Coull & Hogue, 1978, is described for all the previous records of *A. africanus* from Bermuda; add a new codon in KGG 300 (p.129)—  
2/4/0:4/1:2 and make an appropriate note in General Note 1 (p. 130).
3. *Apodopsyllus perplexus* appears incorrectly in KGG 300 (p.129) as *A. reductus*. This species was originally described as *Leptopsyllus reductus* Petkovski, 1955, but as this is a junior primary homonym of *L. reductus* Lang, 1948, the name must be permanently rejected (Article 59 (a) of the International Code of Zoological Nomenclature,

1964). This was overlooked by Kunz (1962) in his revision of the family, in which he removed *L. reductus* Petkovski to *Apodopsyllus* but retained the homonymous trivial name. The homonymy was recognised by Wells (1963) who proposed replacement by *Leptopsyllus perplexus* nom. nov. This replacement name has priority over *L. petkovskii* nom. nov., proposed by Noodt (1964). Thus the correct name for *L. reductus* Petkovski is *Apodopsyllus perplexus* (Wells, 1963).

#### Family Tetragnipitidae

1. *Phyllopodopsyllus laspalmensis* Marinov, 1973b, to codon for *P. mossmani* in KGG 1 (p.133).
2. *Phyllopodopsyllus paramossmani*: Amend the codons in KGG 1 (p. 133) to read—  
 ♀ -a/a/2/3:3:3/4:4:6.  
 ♂ -a/a/2/3:3:2/4:4:6.  
 The male must be added to the codon for *P. longipalpatus* ♂.

#### Family Canthocamptidae

1. *Mesochra flava* as redescribed by Soyer (1977) differs from the original description of Lang (1933). As his material is not from the type locality Soyer's specimens must be considered only as showing that there is some geographic variability in the species. Therefore a second codon is required for this species in KGG 100 (p. 137)—  
 7/3/6:7:7/4:5/6:5/4:6.
2. *Mesochra pallaresi* Soyer, 1977, is described for Pallares' (1968, 1975) specimens of *M. flava*. *M. pallaresi* must be added to the original codon for *M. flava*—  
 7/3/6:7:7/5:5/6:5/3:6 (KGG 100, p.137); add an appropriate note in General Note 3 (p.139).

#### Family Cylindropsyllidae

1. *Notopontia stephanieae* Bodiou, 1977, a new genus and species, requires a new codon in KGG 1 (p.141)—  
 s/2:na/f/2:2:1/p.
2. *Stenocaris kerguelenensis* Bodiou, 1977; the female to the codon for *S. minor* and *S. kliei* and add a new codon for the male—  
 2:1:2/ns/2:2/na (both in KGG 200, p.143).
3. KGG 300 (p.144)—  
 (a) Character 2 should read "P.1 Enp."  
 (b) *Leptastacus naylori* McLachlan & Moore, 1978, requires a new codon—  
 p/2/0:0:1/3:4:5/1:1:0/1:2:1.
4. KGG 500 (p.148)—  
 (a) Character 1 should read "P.1 Exp."; there is only one segment in this ramus.  
 (b) *Psammastacus erasmusi* McLachlan & Moore, 1978, to codon for *P. spinicaudatus*.
5. *Arenopontia* (*N.*) *sakagami* Itô, 1978, to codon for *Arenopontia*<sup>c</sup> in KGG 600 (p.149); add to footnote c) (p.150).

## Family Cletodidae

1. KGG 1—
  - (a) Delete the codon for *Eurycletodes (O.) arcticus* (p.156). This species must be added to the codon for *E. (O.) latus* (p.157).
  - (b) *Eurycletodes aberrans* Marinov, 1973b, cannot be placed in either subgenus as it displays features of both; add to codon for *Mesocletodes carpinei* Soyer (p.154; see also Wells, 1978, p.7).
  - (c) *Nannopus palustris*: Coull & Fleeger (1977) comment on the variability of this species, in particular on the setation of P.2-P.4. The present codon (p.157) must be amended to take these comments into account—  
3:2/3:3:3/2:1/6-7:7-8:6-8/3:2 and an appropriate note must be inserted in General Note 1 (p.170).
  - (d) Add *Cletocamptus affinis* to footnote e) (p.159).
2. *Cletodes reductus* Moore, 1977, requires a new codon in KGG 600 p.167)—  
a/2:1/0:1/d:2:5/d:0:3.
3. *Argestes mollis*: Amend the codon in KGG 700 (p.169) to read—  
5/1:1:1:1/7:8:7/5:5/2:4.

## Family Laophontidae

1. *Laophonte longicaudata* s.str.: Amend the present codons as follows—  
KGG 1300-♀♀ (p.183) — 6:7:7/1:1:1/0:0:0/4:6:3/0:0:1.  
KGG 1000-♂♂ (p.196) — 6:7:7/1:1:1/4:4:3/0:1/p.
2. *Laophonte euxiniphila* Soyer, 1977, requires new codons as follows—  
KGG 2100-♀♀ (p.187) — 5:5:5/1:1:1/0:0:0/3:5:4/0:0:0.  
KGG 1-♂♂ (p.188) — 3:3:3/2:2/2:3/3/3.
3. *Heterolaophonte stroemi*: P.4 Exp.3 can have five or six setae. Add a second codon in KGG 1900-♀♀ (p.185)—  
6:6:5/1:1:1/0:0:0/4:6:4/0:0:0.
4. *Heterolaophonte longisetigera*: Dr G. R. F. Hicks (pers. comm.) reports that in English material of this species the P.5♂ setation is variable, with a total of five or six setae, and that P.3 Enp. is always three-segmented. Therefore this species must be added to the codon for *Apolethon* in KGG 1-♂♂ (p.190).
5. *Echinolaophonte mirabilis* is incorrectly called *E. mirabilipes* in KGG 1-♀♀ (p.174).
6. *Echinolaophonte armiger*. Amend the present codon in KGG 300-♀♀ (p.177) to read—  
5:6-7:6/1:1:1/0:0:0/3:4:3/0:0:0.
7. *Klieonychocamptus kliei ponticus* Marcus, 1971, is a junior secondary homonym of *K. ponticus* (Serban & Plesa, 1957). I propose *K. k. marcusii* nom. nov. as a replacement name (see p.175, footnote e) and p.190).
8. *Pseudolaophonte glemareci* Bodin, 1977, requires new codons as follows:—  
KGG 1-♀♀ (p.172) — 2:2:2/0:1:1/5:5/2/5.  
KGG 1-♂♂ (p.188) — 2:2:2/0:1/2:3/2/2.

9. Transpose columns three and four of the codon for *Laophontopsis lamellifera* in KGG 1600- ♀ ♀ (p.184).
10. *Cubanocleta noodti* Petkovski, 1977, a new genus and species, is placed by its author in this family even though the A.2 lacks an exopod. Thus, it keys out to the family Ancorabolidae in the Keys to Families (p.8, couplet 24). It requires new codons as follows—  
KGG 1- ♀ ♀ (p.172) — 3:3:3/1:1:1/4:3/3/4.  
KGG 1- ♂ ♂ (p.188) — 3:3:3/1:1:1/4:3/3/1.
11. *Laophonte spinifer* is incorrectly spelt by Wells (1978, p.7).

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