

Comments on “*An annotated catalogue of the mayfly fauna of Turkey (Insecta, Ephemeroptera)*”

[Salur, A., Darilmaz, M.C. and Bauernfeind, E., 2016. “An annotated catalogue of the mayfly fauna of Turkey (Insecta, Ephemeroptera)” ZooKeys 620: 67–118. doi: 10.3897/zookeys.620.9405]

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ABSTRACT

1. In this study, all data in the annotated catalogue by Salur *et al.* (2016) were reviewed by comparing with the previous Ephemeroptera studies in Turkey.
2. As a result, corrections and additions were made for 122 Ephemeroptera species.
3. It is recommended that the annotated catalogue by Salur *et al.* (2016) has to be used with this paper for future Ephemeroptera studies in Turkey in order to avoid possible scientific confusions, mistakes or incomplete information.

KEY WORDS: Annotated catalogue, bibliography, Ephemeroptera, Turkey.

**“Türkiye mayıs sineklerinin açıklamalı kataloğu (Insecta,
Ephemeroptera)” üzerine yorumlar**

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ÖZ

1. Bu çalışmada Salur vd. (2016)’nın açıklamalı kataloğu, Türkiye’de yapılan daha önceki Ephemeroptera çalışmalarıyla karşılaştırılarak yeniden incelenmiştir.
2. Sonuç olarak 122 Ephemeroptera türü hakkında düzeltmeler ve eklemeler yapılmıştır.
3. Bilimsel karışıklıklardan, hatalardan ve eksik bilgilerden sakınmak için, Salur vd. (2016)’nın açıklamalı kataloğunun gelecekteki Ephemeroptera çalışmalarında bu yayınlı birlikte kullanılması önerilmektedir.

ANAHTAR KELİMELER: Açıklamalı katalog, kaynakça, Ephemeroptera, Türkiye.

INTRODUCTION

An annotated catalogue (Salur, A., Darilmaz, M.C. and Bauernfeind, E., 2016. “*An annotated catalogue of the mayfly fauna of Turkey (Insecta, Ephemeroptera)*” ZooKeys 620: 67–118. doi: 10.3897/zookeys.620.9405] was provided by using previous Ephemeroptera studies in Turkey. According to the catalogue, Ephemeroptera fauna of Turkey consisted of 157 taxa, 33 genera and 14 families. In this study, corrections and additions were given for 122 Ephemeroptera species, and one correction was made for the title of the catalogue (in total 208).

MATERIALS AND METHODS

In this study, all previous Ephemeroptera studies were reviewed. For the annotated catalogue, many corrections and additions were given about Ephemeroptera species in Turkey.

The nomenclature and the authors of the species in this study, at the beginning of each paragraph, was given as in the annotated catalogue. The order of the species was given as in the annotated catalogue. Necessary corrections and additions related with the species were given under each species name.

RESULTS AND DISCUSSION

1. Title:

- Title of the article should scientifically be corrected as “An annotated catalogue of the mayfly (Insecta, Ephemeroptera) of Turkey”.

2. *Ameletus inopinatus* Eaton, 1887:

- Kazancı (2001b) should also have been given again as reference in the part of “listed from Turkey” by Salur *et al.* (2016).

3 *Siphonurus aestivalis* Eaton, 1903:

- Although Salur *et al.* (2016) stated that nomenclature of families was given according to Bauernfeind and Soldan (2012), this species was given as *Siphonurus* (*Siphonurus*) *aestivalis* in Bauernfeind and Soldan (2012).

4. *Siphonurus lacustris* Eaton, 1870:

- Although Salur *et al.* (2016) stated that nomenclature of families was given according to Bauernfeind and Soldan (2012), this species was given as *Siphonurus (Siphonurus) lacustris* in Bauernfeind and Soldan (2012).
- Kazancı (2001b) should also have been given again as reference in the part of “listed from Turkey” by Salur *et al.* (2016).

5. *Siphonurus muchei* Braasch, 1983:

- According to Bauernfeind and Soldan (2012), *Siphonurus aestivalis* and *Siphonurus lacustris* were included in *Siphonurus* subgenus. However, subgenus of *Siphonurus muchei* are not clear yet. The fact that subgenera of *Siphonurus aestivalis* and *Siphonurus lacustris* were not given by Salur *et al.* (2016) may cause scientific difficulties in the use of names. In order to avoid this confusion, all information mentioned above should have been given clearly by Salur *et al.* (2016) according to Bauernfeind and Soldan (2012).
- *Siphonurus muchei* was listed by Kazancı (2001b); however, it was not cited in the part of “listed from Turkey” by Salur *et al.* (2016).

6. *Baetis (Acentrella) inexpectatus* (Tshernova, 1928):

- This species was given as *Pseudocloeon inexpectatum* in Berker (1981), Kazancı (1986a), Tanatmış (1999), Kazancı (2001b), and as *Acentrella inexpectata* in Kazancı and Türkmen (2012). All nomenclature of this species in the previous studies should have been given clearly by Salur *et al.* (2016) to avoid scientific confusion.

7. *Baetis (Acentrella) lapponicus* (Bengtsson, 1912):

- Salur *et al.* (2016) stated that “*Baetis lapponicus* was syntopic with *Baetis sinaicus*” without any citation. Furthermore, doubtful occurrence of *Baetis lapponicus* in Turkey was associated with being syntopic with *Baetis sinaicus* by Salur *et al.* (2016). However, if these two species are syntopic with each other, it is possible that these species can co-exist in the same habitat.
- Salur *et al.* (2016) stated that “re-examination of voucher specimen would be useful” right after stating occurrence in Turkey was doubtful. Bauernfeind and Soldan (2012) clearly gave the larval distinction characteristics of *Baetis lapponicus* and *Baetis sinaicus*. For example, according to Bauernfeind and Soldan (2012), *Baetis lapponicus* has one pair of subapical bristles on tarsal claws and these are absent in *Baetis sinaicus*. The larval specimens of this species recorded from Bolu (Kazancı and Türkmen 2008a, Kazancı and Türkmen 2008b) had one pair of subapical bristles on tarsal claws.

- This species was given as *Baetis lapponicus* in Kazancı (2001b), Kazancı and Türkmen (2008a), Kazancı and Türkmen (2008b), and as *Acentrella lapponica* in Kazancı and Türkmen (2012). All nomenclature of this species in the previous studies should have been given clearly by Salur *et al.* (2016) to avoid scientific confusion.

8. *Baetis (Acentrella) sinaicus* Bogoescu, 1931):

- It was not clear in Salur *et al.* (2016) that if *Baetis lapponicus* and *Baetis sinaicus* were syntopic with each other, why the occurrence of *Baetis lapponicus* was doubtful, while occurrence of *Baetis sinaicus* was not? This fact should have been clarified by Salur *et al.* (2016) to avoid scientific confusion.
- This species was given as *Baetis sinaicus* in Kazancı (1984), Tanatmış (1999), Tanatmış (2000), Kazancı (2001b), Tanatmış (2004a), and as *Acentrella sinaica* in Kazancı and Türkmen (2012). All nomenclature of this species in the previous studies should have been given clearly by Salur *et al.* (2016) to avoid scientific confusion.
- Reference of Kazancı (1984) was not included in the “References”. Citation of Kazancı (1984) was mistakenly given as Kazancı (1985a) in the “annotated catalogue” by Salur *et al.* (2016).

9. *Baetis (Baetis) alpinus* Pictet, 1843):

- This species was given as *Baetis alpinus* in Puthz (1973), Kazancı (1984), Tanatmış (1999), Kazancı (2001b), Kazancı (2009), Kazancı and Türkmen (2012). All nomenclature of this species in the previous studies should have been given clearly by Salur *et al.* (2016) to avoid scientific confusion.
- Reference of Kazancı (1984) was not included in the “References”. Citation of Kazancı (1984) was mistakenly given as Kazancı (1985a) in the “annotated catalogue” by Salur *et al.* (2016).

10. *Baetis (Baetis) buceratus* Eaton, 1870:

- This species was given as *Baetis buceratus* in Kazancı (1985a, actually 1984), Koch (1988), Kazancı *et al.* (1992), Tanatmış (1999), Tanatmış (2000), Kazancı (2001b), Tanatmış (2002), Tanatmış (2004a), Tanatmış (2004b), Narin and Tanatmış (2004), Ertorun and Tanatmış (2004), Tanatmış and Ertorun (2006), Tanatmış (2007), Kazancı and Girgin (2008), Kazancı (2009), Özyurt and Tanatmış (2011), Kazancı and Türkmen (2012), Aydınli (2013), Aydınli and Ertorun (2015). All nomenclature of this species in the previous studies should have been given clearly by Salur *et al.* (2016) to avoid scientific confusion.

- Although distributional information of some species in Turkey were not given by Bauernfeind and Soldan (2012), Salur *et al.* (2016) reported the information as if it was given in the Bauernfeind and Soldan (2012) (for example, see *Rhithrogena beskidensis*, *Rhithrogena germanica*, *Rhithrogena loyolaea*).
- According to the scientific nomenclature, the authors of some species were written incorrectly by Salur *et al.* (For example, see *Centroptilum luteolum*, *Rhithrogena anatolica*)
- The aim of an annotated catalogue is to gather information from previous studies and to ensure that they can be reached easily. Considering that the publication of Salur *et al.* (2016) is an annotated catalogue, it is necessary to use cited information correctly.

As a result, it is recommended that the annotated catalogue by Salur *et al.* (2016) has to be used with this article for future Ephemeroptera studies in order to avoid possible scientific confusions, mistakes or incomplete information.

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