

## A Revised Catalogue of the Ephemeroptera of Korea

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**ABSTRACT** : A revised catalogue of the Ephemeroptera of Korea was elaborated by the incorporation of the taxonomic works after the catalogue of 1994 (Bae *et al.*, 1994). North Korean mayfly fauna and baetid species were mainly added to the previous catalogue. So far, 74 nominal species in 12 families have been known from Korea including the following additional species: *Acentrella gnom* Kluge, *Acentrella sibirica* Kazlauskas, *Alainites muticus* (Linnaeus), *Baetis fuscatus* Linnaeus, *Baetis pseudothermicus* Kluge, *Baetis silvaticus* Kluge, *Baetis ursinus* Kazlauskas, *Labiobaetis atrebatinus* (Eaton), *Nigrobaetis acinaciger* (Kluge), *Procloeon halla* Bae and Park, *Procloeon maritimum* (Kluge), *Procloeon pennulatum* (Eaton), *Drunella solida* (Bajkova), *Serratella ignita* (Poda), *Serratella zapekinae* (Bajkova), *Ephemera sachalinensis* Matsumura, *Cinygmula kurenzovi* Bajkova, *Ecdyonurus abracadabrus* Kluge, *Ecdyonurus baekdu* Bae, *Rhithrogena binotata* Sinitshenkova, *Rhithrogena lepnevae* Brodsky, *Metretopus borealis* Eaton, and *Siphonurus palaeartcticus* Tshernova. Inappropriately or provisionally known mayfly species in Korea were also listed with their taxonomic corrections. For all valid species, official Korean names were herein suggested.

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**Key words** : Mayflies, Ephemeroptera, Systematics, Catalogue, Korean name for Ephemeroptera, Korea

### INTRODUCTION

Since the previous work of the catalogue of the Ephemeroptera of Korea which was published in 1994 (Bae *et al.*, 1994), there have been more taxonomic studies on the Ephemeroptera, particularly on North Korean mayfly fauna (Bae and Soldán, 1997; Bae and Andrikovics, 1997; Bae, 1997a) and on the family Baetidae (Park *et al.*, 1996; Bae and Park, 1997a, b). Taxonomic comparisons on the faunas between Korea and Far East Russia (Bae *et al.*, 1997) as well as between Korea and Japan (Bae and Ishiwata, in ms) have been worked as discussed in Bae (1997a).

In this catalogue, we treated not only newly

recorded Ephemeroptera taxa after the catalogue of 1994 but also listed inappropriately known (synonymized or misidentified) or provisionally recorded species from Korea. For the species shown in the previous catalogue without any taxonomic changes, we excluded detailed bibliographic information.

We also suggested official Korean names for all taxonomically valid mayfly species of Korea because there have been some confusions in using the names shown among Korean literatures (e.g., ESK and KSAE, 1994; Bae *et al.*, 1994; Yoon, 1995). Other Korean names not in use are also listed in parenthesis.

The format and other methods in preparing this catalogue are the same as the previous catalogue (Bae *et al.*, 1994).

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## CATALOGUE OF THE EPHEMEROPTERA OF KOREA

### Order **Ephemeroptera** 하루살이목

#### Family **Ameletidae** McCafferty 피라미하루살이 과

##### Genus **Ameletus** Eaton 피라미하루살이屬 (참날개하루살이屬)

##### **Ameletus costalis** (Matsumura) 피라미하루살이 (큰참날개하루살이)

*Ameletus costalis* (Matsumura): Bae *et al.*, 1994: 33.

##### **Ameletus montanus** Imanishi 멧피라미하루살이 (참날개하루살이)

*Ameletus montanus* Imanishi: Bae *et al.*, 1994: 34.

#### Family **Baetidae** Leach 꼬마하루살이과

##### Genus **Acentrella** Bengtsson 알하루살이屬

##### **Acentrella gnom** Kluge 깨알하루살이

*Pseudocloeon gnom* Kluge, 1983a: 63.

*Baetis* (*Acentrella*) *gnom* (Kluge): Tshernova *et al.*, 1986: 134.

*Acentrella gnom* (Kluge): Waltz & McCafferty, 1987: 560; Bae *et al.*, 1994: 57; Park *et al.*, 1996: 57.

##### **Acentrella sibirica** Kazlauskas 콩알하루살이 (헛날개꼬마하루살이)

*Pseudocloeon sibiricum* Kazlauskas, 1963: 589; Kluge, 1980: 566.

*Baetis* (*Acentrella*) *sibiricus* (Kazlauskas): Tshernova *et al.*, 1986: 135.

*Acentrella sibirica* (Kazlauskas): Waltz & McCafferty, 1987: 560; Park *et al.*, 1996: 57.

*Pseudocloeon japonica* (Imanishi): Yoon & Bae, 1988a: 114.

*Baetiella japonica* (Imanishi): Bae *et al.*, 1994: 34.

##### Genus **Alainites** Waltz, McCafferty and Thomas 길쭉하루살이屬

##### **Alainites muticus** (Linnaeus) 길쭉하루살이 *Ephemera mutica* Linnaeus, 1758 (see Müller-

Liebenau, 1969).

*Baetis* KUa: Yoon & Bae, 1988a: 111.

*Baetis* (*Nigrobaetis*) *muticus* (Linnaeus): Novikova & Kluge, 1994: 635; Bae *et al.*, 1997 (in press).

*Alainites muticus* (Linnaeus): Waltz *et al.*, 1994: 34; Bae & Park, 1997b (in press).

##### Genus **Baetiella** Uéno 애하루살이屬

##### **Baetiella tuberculata** (Kazlauskas)

애호랑하루살이

*Baetiella tuberculata* (Kazlauskas): Bae *et al.*, 1994: 34; Park *et al.*, 1996: 58.

##### Genus **Baetis** Leach 꼬마하루살이屬

##### **Baetis fuscatus** Linnaeus 개똥하루살이

*Ephemera fuscata* Linnaeus, 1761 (see Müller-Liebenau, 1969).

*Baetis* nla: Imanishi, 1940: 221; Yoon & Bae, 1988a: 111.

*Baetis fuscatus* (Linnaeus): Müller-Liebenau, 1969: 128; Bae & Soldán, 1997: 145; Bae & Andrikovics, 1997: 155; Bae *et al.*, 1997 (in press); Bae & Park, 1997b (in press).

##### **Baetis pseudothermicus** Kluge

나도꼬마하루살이

*Baetis pseudothermicus* Kluge, 1983a: 53; Bae & Park, 1997b (in press).

*Baetis thermicus* Uéno: Yoon & Bae, 1988a: 110.

*Baetis* sp. A: Bae & Soldán, 1997: 145.

*Baetis* sp. 1: Bae & Andrikovics, 1997: 155.

##### **Baetis silvaticus** Kluge 감초하루살이

*Baetis silvaticus* Kluge, 1983a: 55; Bae & Park, 1997b (in press).

*Baetis* sp. B: Bae & Soldán, 1997: 145.

*Baetis* sp. 2: Bae & Andrikovics, 1997: 155.

##### **Baetis thermicus** Uéno 꼬마하루살이

*Baetis thermicus* Uéno, 1931a: 91; Imanishi, 1940: 219; Bae *et al.*, 1994: 34.

##### **Baetis ursinus** Kazlauskas 방울하루살이

*Baetis ursinus* Kazlauskas, 1963: 585; Kluge, 1983a: 58; Bae & Park, 1997b (in press).

*Baetis* sp. C: Bae & Soldán, 1997: 145.

##### Genus **Cloeon** Leach 두날개하루살이屬

(외날개꼬마하루살이屬, 연못하루살이屬)

**Cloeon dipterum** (Linnaeus) 두날개하루살이  
(외날개꼬마하루살이, 연못하루살이)

*Cloeon dipterum* (Linnaeus): Bae *et al.*, 1994: 34;  
Bae & Park, 1997a (in press).

Genus **Labiobaetis** Novikova and Kluge  
입술하루살이屬

**Labiobaetis atrebatinus** (Eaton) 입술하루살이  
*Baetis atrebatinus* Eaton, 1870: 4; Müller-Lie-  
benau, 1969: 150.

*Baetis atrebatinus orientalis* Kluge, 1983a: 62.

*Baetis (Labiobaetis) atrebatinus orientalis* Kluge:  
Tshernova *et al.*, 1986: 131.

*Baetis (Labiobaetis) atrebatinus* Eaton: Novikova  
& Kluge, 1987: 13.

*Labiobaetis atrebatinus* (Eaton): McCafferty &  
Waltz, 1995: 21; Bae & Soldán, 1997: 146; Bae  
& Park, 1997b (in press).

Genus **Nigrobaetis** 감장하루살이屬

**Nigrobaetis acinaciger** (Kluge)

흰줄감장하루살이

*Baetis acinaciger* Kluge, 1983a: 59.

*Baetis (Nigrobaetis) acinaciger* Kluge: Tshernova  
*et al.*, 1986: 134; Novikova & Kluge, 1994: 635.

*Nigrobaetis acinaciger* (Kluge): Waltz *et al.*, 1994:  
35; Bae & Park, 1997b (in press).

Genus **Procloeon** Bengtsson 갈고리하루살이屬

**Procloeon halla** Bae and Park 한라하루살이  
*Procloeon halla* Bae, 1997a (in press).

**Procloeon maritimum** (Kluge)

작은갈고리하루살이

*Centroptilum maritimum* Kluge, 1983a: 65.

*Cloeoptilum maritimum* (Kluge): Tshernova *et al.*,  
1986: 130.

*Cloeon (Procloeon) maritimum* (Kluge): Kluge &  
Novikova, 1992: 74.

*Procloeon* sp. A: Bae & Soldán, 1997: 146.

*Procloeon* sp. 1: Bae & Andrikovics, 1997: 155.

*Procloeon maritimum* (Kluge): Bae & Park, 1997a  
(in press).

**Procloeon pennulatum** (Eaton) 갈고리하루살이

*Centroptilum pennulatum* Eaton, 1870: 2.

*Procloeon pennulatum* (Eaton): McCafferty &  
Waltz, 1990: 780; Bae & Park, 1997a (in press).

*Cloeon (Procloeon) pennulatum* (Eaton): Kluge &  
Novikova, 1992: 74.

*Procloeon* sp. B: Bae & Soldán, 1997: 146.

Family **Caenidae** Newman 등딱지하루살이科

Genus **Brachycercus** Curtis 세뿔등딱지하루살이屬

Genus **Caenis** Stephens 등딱지하루살이屬

Family **Ephemerellidae** Klapálek 알락하루살이科

Genus **Cincticostella** Allen 민하루살이屬  
(민알락하루살이屬)

**Cincticostella levanidovae** (Tshernova)

민하루살이 (민알락하루살이)

*Ephemerella levanidovae* Tshernova, 1952: 274  
(FE Russia).

*Ephemerella (Cincticostella) castanea* Allen, 1971:  
514.

*Cincticostella (Cincticostella) castanea* (Allen):  
Allen, 1980: 83.

*Cincticostella castanea* (Allen): Yoon & Bae,  
1988b: 29; Bae *et al.*, 1994: 35.

*Ephemerella (Cincticostella) levanidovae* Tsher-  
nova: Bae *et al.*, 1997 (in press).

**Cincticostella tshernovae** (Bajkova) 먹하루살이

(검은민알락하루살이)

*Cincticostella tshernovae* (Bajkova): Bae *et al.*,  
1994: 35.

Genus **Drunella** Needham 뿔하루살이屬

(뿔알락하루살이屬)

**Drunella aculea** (Allen) 뿔하루살이 (뿔알락하루살이)

*Drunella aculea* (Allen): Bae *et al.*, 1994: 37.

**Drunella cryptomeria** (Imanishi) 알통하루살이

(알통알락하루살이)

*Drunella cryptomeria* (Imanishi): Bae *et al.*, 1994:  
37.

**Drunella lepnevae** (Tshernova) 쌍혹하루살이

(쌍혹알락하루살이)

*Drunella lepnevae* (Tshernova): Bae *et al.*, 1994: 36.

***Drunella solida*** Bajkova, 1980 얼룩빨하루살이

*Ephemerella trispina* na: Imanishi, 1940: 193.

*Ephemerella solida* Bajkova, 1980: 796.

*Ephemerella (Drunella) solida* Bajkova: Bae *et al.*, 1997 (in press).

***Drunella triacantha*** (Tshernova)

삼지창하루살이 (세뿔알락하루살이)

*Ephemerella trispina* na: Imanishi, 1940: 194.

*Ephemerella triacantha* Tshernova, 1949: 151 (FE Russia).

*Ephemerella (Drunella) trispina* Uéno: Yoon & Kim, 1981: 37 (S Korea).

*Drunella triacantha* (Tshernova): Yoon & Bae, 1988a: 166 (S Korea).

*Ephemerella (Drunella) triacantha* Tshernova: Bae *et al.*, 1997 (in press).

*Ephemerella (Drunella) trispina ezoensis* Gose, 1980: 287.

*Drunella trispina ezoensis* (Gose): Ishiwata, 1987: 28; Bae *et al.*, 1994: 36.

Genus ***Ephacerella*** Allen 긴꼬리하루살이屬

(혹가슴하루살이屬, 긴꼬리알락하루살이屬)

***Ephacerella longicaudata*** (Uéno)

긴꼬리하루살이 (혹가슴하루살이,

긴꼬리알락하루살이)

*Acerella longicaudata* (Uéno): Bae *et al.*, 1994: 35.

*Ephacerella longicaudata* (Uéno): Paclt, 1994: 283.

Genus ***Ephemerella*** Walsh 알락하루살이屬

***Ephemerella aurivillii*** (Bengtsson)

다람쥐하루살이

*Ephemerella aurivillii* (Bengtsson): Bae *et al.*, 1994: 37.

***Ephemerella dentata*** Bajkova 알락하루살이

*Ephemerella dentata* Bajkova, 1967: 331.

*Ephemerella (Ephemerella) keijoensis* Allen, 1971: 526.

*Ephemerella keijoensis* Allen: Yoon & Bae, 1988a: 177; Yoon & Bae, 1988b: 34.

*Ephemerella (Ephemerella) dentata* Bajkova: Bae

*et al.*, 1997 (in press).

***Ephemerella imanishii*** Gose 칠성하루살이

(이마니시알락하루살이)

*Ephemerella imanishii* Gose: Park *et al.*, 1994: 37.

***Ephemerella kozhovi*** Bajkova 흰등하루살이

(등줄알락하루살이)

*Ephemerella nba*: Imanishi, 1940: 202.

*Ephemerella kozhovi* Bajkova, 1967: 327.

*Ephemerella notofascia* Yoon & Bae, 1988b: 34; Bae *et al.*, 1994: 37.

*Ephemerella (Ephemerella) kozhovi* Bajkova: Bae *et al.*, 1997 (in press).

Genus ***Serratella*** Edmunds 범꼬리하루살이屬

(빗살알락하루살이屬)

***Serratella ignita*** (Poda) 쇠꼬리하루살이

*Ephemerella ignita* Poda, 1761 (see Eaton, 1884).

*Ephemerella ignita* (Poda): Eaton, 1871: 98.

*Ephemerella (Serratella) ignita* (Poda): Tshernova *et al.*, 1986: 138; Bae & Soldán, 1997: 147; Bae & Andrikovics, 1997: 156.

***Serratella setigera*** (Bajkova) 범꼬리하루살이

(빗살알락하루살이)

*Serratella setigera* (Bajkova): Bae *et al.*, 1994: 37.

***Serratella zapekinae*** (Bajkova) 굴뚝하루살이

*Ephemerella naz*: Imanishi, 1940: 206 (synonymized by Bajkova, 1967).

*Ephemerella zapekinae* Bajkova, 1967: 329.

*Ephemerella (Serratella) zapekinae* Bajkova: Tshernova *et al.*, 1986: 138; Bae & Soldán, 1997: 147; Bae & Andrikovics, 1997: 157.

Genus ***Uracanthella*** Belov 등줄하루살이屬

***Uracanthella rufa*** (Imanishi) 등줄하루살이

(등줄빗살알락하루살이, 세줄알락하루살이)

*Uracanthella rufa* (Tshernova): Bae *et al.*, 1994: 37.

Family ***Ephemeridae*** Latreille 하루살이科

Genus ***Ephemera*** Linnaeus 하루살이屬

***Ephemera orientalis*** McLachlan 동양하루살이

*Ephemera orientalis* McLachlan: Bae *et al.*, 1994:

38.

***Ephemera sachalinensis*** Matsumura

사할린하루살이

*Ephemera sachalinensis* Matsumura, 1931: 1469;  
Bae & Soldán, 1997: 148; Bae & Andrikovics,  
1997: 157.

***Ephemera separigata*** Bae 가는무늬하루살이

*Ephemera separigata* Bae, 1995: 160 (original  
description); Bae *et al.*, 1994: 38 (catalogued).

**Note:** The original description of *Ephemera separigata* Bae was published behind the date of the catalogue (Bae *et al.*, 1994) due to late publication process. The date of publication and authorship of the species, however, must be maintained as specified (ICZN, Chapter IV, Article 13).

***Ephemera strigata*** Eaton 무늬하루살이

*Ephemera strigata* Eaton: Bae *et al.*, 1994: 38.

Family **Heptageniidae** Needham

납작하루살이과 (꼬리하루살이과)

Genus ***Bleptus*** Eaton 맵시하루살이屬

(맵시꼬리하루살이屬)

***Bleptus fasciatus*** Eaton 맵시하루살이

(맵시꼬리하루살이)

*Bleptus fasciatus* Eaton, 1885: Bae *et al.*, 1994:  
38.

Genus ***Cinygmula*** McDunnough

봄치너하루살이屬 (센꼬리하루살이屬)

***Cinygmula grandifolia*** Tshernova 봄치너하루살이

*Cinygmula grandifolia* Tshernova: Bae *et al.*,  
1994.

***Cinygmula hirasana*** (Imanishi)

아지랑이하루살이

*Cinygmula hirasana* (Imanishi): Bae *et al.*, 1994:  
39.

***Cinygmula kurenzovi*** (Bajkova) 산치너하루살이

*Cinygmula kurenzovi* Bajkova, 1965: 301; 1974:  
821.

*Cinygmula kurenzovi* Bajkova: Tshernova *et al.*,  
1986: 113; Bae & Soldán, 1997: 148.

Genus ***Ecdyonurus*** Eaton 참납작하루살이屬  
(꼬리하루살이屬)

***Ecdyonurus abracadabrus*** Kluge

미리내하루살이

*Ecdyonurus abracadabrus* Kluge, 1983b: 32; Bae  
& Andrikovics, 1997: 157.

***Ecdyonurus baekdu*** Bae 백두하루살이

*Ecdyonurus baekdu* Bae, 1997b: 253.

***Ecdyonurus bajkova*** Kluge 몽땅하루살이

(몽땅하루살이)

*Paracinygmula zhiltzovae* Bajkova, 1975: 56.

*Ecdyonurus zhiltzovae* (Bajkova): Kluge, 1983b:  
31.

*Ecdyonurus* KUa: Yoon & Bae, 1984: 14.

*Ecdyonurus bajkova* Kluge: Tshernova *et al.*,  
1986: 117; Bae *et al.*, 1994: 39.

*Nixe subspinosa* Braasch & Soldán, 1988: 25.

*Ecdyonurus (Afghanurus) bajkova* Kluge: Bae *et al.*,  
1997 (in press).

*Ecdyonurus subspinosa* (Braasch & Soldán): Bae  
*et al.*, 1994: 40.

***Ecdyonurus dracon*** Kluge 참납작하루살이

(큰개꼬리하루살이)

*Ecdyonurus dracon* Kluge: Bae *et al.*, 1994: 39.

***Ecdyonurus joernensis*** Bengtsson

꼬리치레하루살이

*Ecdyonurus joernensis* Bengtsson, 1909: 19;  
Landa & Soldán, 1983b: 196.

*Ecdyonurus mongolicus* Bajkova & Varychanova,  
1978: 111.

*Ecdyonurus joernensis mongolicus* Bajkova &  
Varychanova: Tshernova *et al.*, 1986: 177; Bae  
*et al.*, 1994: 39.

*Nixe mongolica* (Bajkova & Varychanova): Braasch  
& Soldán, 1988: 25.

*Ecdyonurus* KUa: Yoon & Bae, 1984: 14.

*Ecdyonurus (Afghanurus) joernensis* Bengtsson:  
Bae *et al.*, 1997 (in press).

***Ecdyonurus kibunensis*** Imanishi 두점하루살이

(개꼬리하루살이)

*Ecdyonurus kubinensis* Imanishi: Bae *et al.*, 1994:  
39.

***Ecdyonurus levis*** (Navás) 네점하루살이

*Epeorus levis* Navás, 1912: 415.  
*Cinygmula zachvatkini* Tshernova, 1952: 257;  
 Bajkova, 1974: 820.  
*Cinygma zachvatkini* (Tshernova): Tshernova,  
 1974: 812; Tshernova, 1981: 79.  
*Ecdyonurus zachvatkini* (Tshernova): Kluge,  
 1983b: 33.  
*Ecdyonurus levis* (Navás): Tshernova *et al.*, 1986:  
 114.  
*Cinygmula zachvatkini* (Tshernova): Braasch &  
 Soldán, 1988: 24.  
*Cinygmula yoshidae* (Takahashi): Braasch & Sol-  
 dán, 1988: 24.  
*Ecdyonurus yoshidae* Takahashi: Yoon & Bae,  
 1984: 11; Yoon & Bae, 1988a: 134.

*Ecdyonurus scalaris* Kluge 가락지하루살이  
*Ecdyonurus scalaris* Kluge: Bae *et al.*, 1994: 40.

*Ecdyonurus yoshidae* Takahashi  
 나도네점하루살이 (꼬리하루살이)  
*Ecdyonurus yoshidae* Takahashi, 1924: 380 (inap-  
 propriately synonymized with *Ecdyonurus levis*  
 Navás by Bae *et al.*, 1994); Imanishi, 1940: 252.  
*Ecdyurus japonicus* Uéno, 1928: 30; Horasawa,  
 1931: 30.  
*Ecdyonurus japonicus* Uéno: Uéno, 1931b: 197.  
*Rhithrogena japonica* (Uéno): Imanishi, 1936:  
 543.  
*Heptagenia yoshidae* (Takahashi): Tshernova,  
 1952: 251.  
**Note:** Bae *et al.* (1994) synonymized *Ecdyonurus*  
*yoshidae* Takahashi with *Ecdyonurus levis* (Na-  
 vás) based on Imanishi's determination on  
 Korean specimens. YJB examined larval and  
 adult materials of both of the species from Far  
 East Russia and Japan, including lectotype of  
*E. levis*, and found that those are not conspe-  
 cific. The adult of *E. yoshidae* lacks markings  
 on abdomen.

Genus *Epeorus* Eaton 부채하루살이屬  
 (흰꼬리하루살이屬)

*Epeorus curvatus* Matsumura 흰부채하루살이  
 (큰흰꼬리하루살이)  
*Epeorus curvatus* Matsumura, 1931: 1477;  
 Imanishi, 1934: 392; Imanishi, 1940: 250;  
 Braasch & Soldán, 1988: 27; Bae *et al.*, 1994:  
 40.

*Epeorus anatoli* Sinitshenkova, 1981: 814.  
*Epeorus (Belovius) curvatus* Matsumura: Tsher-  
 nova, 1981a: 326; Bae *et al.*, 1997 (in press).  
*Epeorus (Epeorus) curvatus* Matsumura: Yoon  
 & Bae, 1984: 6; Yoon & Bae, 1988a: 125.

*Epeorus latifolium* Uéno 점박이부채하루살이  
 (흰꼬리하루살이, 부채하루살이)  
*Epeorus latifolium* Uéno: Bae *et al.*, 1994: 41.  
*Epeorus pellucidus* (Brodsky) 부채하루살이  
*Epeorus latifolium* Uéno: Bae *et al.*, 1994: 41.

Genus *Heptagenia* Walsh 납작하루살이屬  
 (참꼬리하루살이屬)

*Heptagenia guranica* Belov 배점하루살이  
*Heptagenia guranica* Belov: Bae *et al.*, 1994: 41.

*Heptagenia kihada* Matsumura 햇님하루살이  
 (참꼬리하루살이, 납작하루살이)  
*Heptagenia kihada* Matsumura: Bae *et al.*, 1994:  
 41.

*Heptagenia kyotoensis* Gose 총채하루살이  
 (등줄참꼬리하루살이)  
*Heptagenia kyotoensis* Gose: Bae *et al.*, 1994: 41.

Genus *Iron* Eaton 긴부채하루살이屬  
 (꼬마흰꼬리하루살이屬)

*Iron aesculus* (Imanishi) 증부채하루살이  
 (꼬마흰꼬리하루살이)  
*Iron aesculus* (Imanishi): Bae *et al.*, 1994: 41.  
*Iron koreanicus* Braasch & Soldán, 1988: 25.  
*Epeorus (Iron) aesculus* Imanishi: Bae *et al.*, 1997  
 (in press).

*Iron maculatus* Tshernova 긴부채하루살이  
*Iron maculatus* Tshernova: Bae *et al.*, 1994: 42.

Genus *Rhithrogena* Eaton 골짜기하루살이屬  
 (여린꼬리하루살이屬, 산납작하루살이屬)

*Rhithrogena binotata* Sinitshenkova  
 깊은골하루살이  
*Rhithrogena binotata* Sinitshenkova, 1982: 65;  
 Bae & Soldán, 1997: 150.

*Rhithrogena japonica* Uéno 골짜기하루살이  
*Rhithrogena japonica* Uéno: Bae *et al.*, 1994: 42.

**Rhithrogena lepnevae** Brodsky 깊은산하루살이  
*Rhithrogena lepnevae* Brodsky, 1930: 39; Bae & Andrikovics, 1997: 158.

Family **Isonychiidae** Burks 빗자루하루살이과  
(민날개하루살이과)

Genus **Isonychia** Eaton 빗자루하루살이屬  
(민날개하루살이屬)

**Isonychia japonica** (Ulmer) 빗자루하루살이  
(민날개하루살이)

*Isonychia japonica* (Ulmer): Bae *et al.*, 1994: 42.

**Isonychia ussurica** Bajkova 깃동하루살이  
*Isonychia ussurica* Bajkova: Bae *et al.*, 1994: 42.

Family **Leptophlebiidae** Banks  
갈래하루살이과 (밤색하루살이과)

Genus **Choroterpes** Eaton 세갈래하루살이屬  
(세줄밤색하루살이屬)

Subgenus **Euthraulius** Barnard  
참세갈래하루살이亞屬

**Choroterpes (Euthraulius) altioculus** Kluge  
세갈래하루살이 (세줄밤색하루살이)  
*Choroterpes (Euthraulius) altioculus* Kluge: Bae *et al.*, 1994: 43.

Genus **Paraleptophlebia** Lestage  
두갈래하루살이屬 (밤색하루살이屬)

**Paraleptophlebia chocolata** Imanishi  
두갈래하루살이 (밤색하루살이)  
*Paraleptophlebia chocolata* Imanishi: Bae *et al.*, 1994: 43.

Family **Metretopodidae** Traver 발톱하루살이과

Genus **Metretopus** Eaton 발톱하루살이屬

**Metretopus borealis** Eaton 발톱하루살이  
*Heptagenia borealis* Eaton, 1871: 137.  
*Metretopus norvegicus* Eaton, 1901: 253.  
*Metretopus borealis* (Eaton): Bae & Soldán, 1997: 150; Bae & Andrikovics, 1997: 158.

Family **Neophemeridae** Traver

방패하루살이과 (큰등딱지하루살이과)

Genus **Potamanthellus** Lestage  
큰방패하루살이屬

**Potamanthellus chinensis** Hsu 방패하루살이  
*Potamanthellus chinensis* Hsu, 1935: 321; Bae & McCafferty, 1997 (in press).  
*Neophemera* KUa: Yoon & Bae, 1988a: 181.  
*Neophemeropsis rarus* Tiunova & Levanidova, 1989: 242.

*Potamanthellus rarus* (Tiunova & Levanidova):  
Tiunova, 1991: 136; Bae *et al.*, 1994: 43.

Family **Polymitarciidae** Banks 흰하루살이과

Genus **Ephoron** Williamson 흰하루살이屬

**Ephoron shigae** (Takahashi) 흰하루살이  
*Ephoron shigae* (Takahashi): Bae *et al.*, 1994: 43.

Family **Potamanthidae** Albarda 강하루살이과

Genus **Potamanthus** Pictet 강하루살이屬

Subgenus **Potamanthodes** Ulmer  
작은강하루살이亞屬 (강하루살이불이亞屬)

**Potamanthus (Potamanthodes) formosus**  
Eaton 작은강하루살이  
*Potamanthus (Potamanthodes) formosus* Eaton:  
Bae *et al.*, 1994: 43.

**Potamanthus (Potamanthodes) yooni** Bae & McCafferty 금빛하루살이 (강하루살이불이)  
*Potamanthus (Potamanthodes) yooni* Bae & McCafferty: Bae *et al.*, 1994: 44.

Subgenus **Potamanthus** Pictet 강하루살이亞屬

**Potamanthus (Potamanthus) luteus oriens**  
Bae & McCafferty 가람하루살이  
*Potamanthus (Potamanthus) luteus oriens* Bae & McCafferty: Bae *et al.*, 1994: 44.

Genus **Rhoenanthus** Eaton 장수하루살이屬

Subgenus **Potamanthindus** Lestage  
왕하루살이亞屬

***Rhoenanthus (Potamanthindus) coreanus***

(Yoon &amp; Bae) 강하루살이 (장수하루살이)

***Rhoenanthus (Potamanthindus) coreanus*** (Yoon & Bae): Bae *et al.*, 1994: 44.Family **Siphonuridae** Ulmer 옛하루살이과  
(쌍꼬리하루살이과)Genus ***Siphonurus*** Eaton 옛하루살이屬  
(쌍꼬리하루살이屬)***Siphonurus chankae*** Tshernova 옛하루살이  
(쌍꼬리하루살이)***Siphonurus chankae*** Tshernova: Bae *et al.*, 1994:  
44.***Siphonurus palaearticus*** Tshernova

표범하루살이

***Oniscigaster palaeartica*** Tshernova, 1930: 217.***Siphonurus palaearticus*** Tshernova: Bae & Sol-  
dán, 1997: 151; Bae & Andrikovics, 1997: 159.***Siphonurus sanukensis*** Takahashi

수리하루살이

***Siphonurus sanukensis*** Takahashi: Bae *et al.*, 1994:  
44.**INAPPROPRIATELY OR PROVISIONALLY  
KNOWN EPHEMEROPTERA TAXA IN  
KOREA**

Family Baetidae

***Baetiella japonica*** (Imanishi): Bae *et al.*, 1994:  
34.**Note:** Previous reports of *Baetiella japonica* (Ima-  
nishi) from Korea were in part misidentified  
with *Acentrella sibirica* Kazlauskas (see Bae &  
Park, 1997b).***Baetis* KUa:** Bae *et al.*, 1994: 34.**Note:** This was determined as *Alainites muticus*  
(Linnaeus) by Bae and Park (1997b).***Baetis nla:*** Bae *et al.*, 1994: 34.**Note:** This was determined as *Baetis fuscatus*  
Linnaeus by Bae and Soldán (1997).

Family Caenidae

***Brachycercus* KUa:** Bae *et al.*, 1994: 35.**Note:** This has not been determined.***Caenis* KUa:** Bae *et al.*, 1994: 35.**Note:** This has not been determined.

Family Ephemerellidae

***Acerella*** Allen: Bae *et al.*, 1994: 35.**Note:** This generic name has been replaced to  
*Ephacerella* Paclt (1994) because of homonymy.***Acerella longicaudata*** (Uéno): Bae *et al.*, 1994:  
35.**Note:** Changed to *Ephacerella longicaudata*  
(Uéno)***Cincticostella castanea*** (Allen): Bae *et al.*,  
1994: 35.**Note:** Synonymized with *Cincticostella levani-  
dovae* (Tshernova) by Bae *et al.* (1997).***Drunella trispina ezoensis*** (Gose): Bae *et al.*,  
1994: 36.**Note:** Synonymized with *Drunella triacantha*  
(Tshernova) by Bae *et al.* (1997).***Ephemerella keijoensis*** Allen: Bae *et al.*, 1994:  
37.**Note:** Synonymized with *Ephemerella dentata*  
Bajkova by Bae *et al.* (1997).***Ephemerella notofascia*** Yoon & Bae: Bae *et al.*,  
1994: 37.**Note:** Synonymized with *Ephemerella kozhovi*  
Bajkova by Bae *et al.* (1997).

Family Heptageniidae

***Cinygmula* KUa:** Bae *et al.*, 1994: 39.**Note:** This has not been identified.***Cinygmula na:*** Bae *et al.*, 1994: 39.**Note:** This has not been determined.***Ecdyonurus joernensis mongolicus*** Bajkova &  
Varychanova: Bae *et al.*, 1994: 39.**Note:** Synonymized with *Ecdyonurus joernensis*  
Bengtsson by Bae *et al.* (1997).



**Ecdyonurus KUB:** Bae *et al.*, 1994: 40.

**Note:** Synonymized with *Ecdyonurus joernensis* Bengtsson by Bae *et al.* (1997).

**Ecdyonurus na:** Bae *et al.*, 1994: 40.

**Note:** This has not been determined.

**Ecdyonurus subspinosa** (Braasch & Soldán): Bae *et al.*, 1994: 40.

**Note:** Synonymized with *Ecdyonurus bajkova* Kluge by Bae *et al.* (1997).

**Epeorus hiemalis** Imanishi (?): Braasch & Soldán, 1988: 27; Bae *et al.*, 1994: 40.

**Note:** As noted by Braasch and Soldán (1988), the occurrence of this species in North Korea is not certain. Bae and Soldán (1997) examined the larval material from the locality and determined it as *Epeorus pellucidus* (Brodsky).

**Iron koreanicus** Braasch & Soldán; Bae *et al.*, 1994: 42.

**Note:** Synonymized with *Iron aesculus* (Imanishi) by Bae *et al.* (1997).

**Rhithrogena na:** Bae *et al.*, 1994: 42.

**Note:** This has not been determined.

Family Leptophlebiidae

**Paraleptophlebia nb:** Bae *et al.*, 1994: 43.

**Note:** This has not been determined.

Family Neophemeridae

**Potamanthellus rarus** Tiunova & Levanidova: Bae *et al.*, 1994: 43.

**Note:** Synonymized with *Potamanthellus chinensis* Hsu by Bae and McCafferty (1997).

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국문적요 : 한국산 하루살이목의 개정된 카탈로그. 배연재 · 윤일병<sup>1</sup> (서울여자대학교 생물학과, <sup>1</sup>고려대학교 생물학과). 1994년의 한국산 하루살이목 카탈로그 (Bae et al., 1994) 이래 이루어진 분류학적 연구를 종합하여 개정된 카탈로그를 작성하였다. 북한산 하루살이목에 대한 연구와 꼬마하루살이과에 대한 연구를 주로 추가하였다. 다음과 같은 종이 추가되어 지금까지 한국에서 알려진 명명상 유효한 하루살이목은 12과 74종이 된다. *Acentrella gnom* Kluge, *Acentrella sibirica* Kazlauskas, *Alainites muticus* (Linnaeus), *Baetis fuscatus* Linnaeus, *Baetis pseudothermicus* Kluge, *Baetis silvaticus* Kluge, *Baetis ursinus* Kazlauskas, *Labiobaetis atrebatinus* (Eaton), *Nigrobaetis acinaciger* (Kluge), *Procloeon halla* Bae and Park, *Procloeon maritimum* (Kluge), *Procloeon pennulatum* (Eaton), *Drunella solida* (Bajkova), *Serratella ignita* (Poda), *Serratella zapekinae* (Bajkova), *Ephemerella sachalinensis* Matsumura, *Cinygmula kurenzovi* Bajkova, *Ecdyonurus abracadabrus* Kluge, *Ecdyonurus baekdu* Bae, *Rhithrogena binotata* Sinitshenkova, *Rhithrogena lepnevae* Brodsky, *Metretopus borealis* Eaton 및 *Siphonurus palaearticus* Tshernova. 지금까지 한국에서 잘못 알려진 종이나 임시로 분류된 종에 대해서도 분류학적 정정과 함께 추가로 수록하였다. 분류학적으로 유효한 한국산 종에 대하여 공식적인 국명을 제시하였다.

검색어 : 하루살이, 하루살이목, 분류, 카탈로그, 하루살이목 한국명, 한국