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Taxonomic notes on the Cladodinae, Lampyrinae,
and Lampyrinae/Lampyridae *incertae sedis*
(Coleoptera: Lampyridae)

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Taxonomic notes on the Cladodinae, Lampyrinae, and Lampyrinae/Lampyridae *incertae sedis* (Coleoptera: Lampyridae)

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Abstract. We propose several nomenclatural changes for taxa in the subfamily Cladodinae and the lampyrid tribes Cratomorphini, Lamprocerini, Lampyrini, Photinini, and Pleotomini in the subfamily Lampyrinae (Coleoptera: Lampyridae). We present evidence for the correct year of description of *Calotrachelum flavolineatum* Pic, 1941, *Diaphanes lateapicalis breveapicalis* Pic, 1954, *Photinus conradti* Pic, 1940, and all species described by Charles Émile Blanchard. Spellings are corrected for *Diaphanes lateapicalis breveapicalis* Pic, 1954, *Diaphanes latipennis dartevillei* Pic, 1952, *Diaphanes longecarinatus* Pic, 1955, *Diaphanes moultoni latemarginatus* Pic, 1938, *Lampyris olivieriana* von Heyden, 1890, and *Photinus reductemarginalis* Pic, 1941. We propose *Lucidota puertoestrellaensis* Keller and Martin **nomen novum** to replace *Lucidota boliviana* Pic, 1927, and *Photinus laticollis brasiliensis* Keller and Martin **nomen novum** for *Photinus laticollis latior* Pic, 1941. Seventy taxa described as variations or aberrations in the tribes Cratomorphini, Lamprocerini, Lampyrini, Photinini, and Pleotomini in the subfamily Lampyrinae by McDermott (1966), are evaluated to subspecies with their availability determined based on ICZN (1999: Article 45.6). *Photinus motschulskyi* Zaragoza-Caballero, Zurita-Garcia, and Ramírez-Ponce, 2023 is **synonymized** under *Photinus intercalatus* Gemminger, 1870. Lastly, we correct the type species of the genus *Lucidina* Gorham, 1833, and address the dates of publication for fireflies described by Blanchard.

Key words. ICZN, nomenclature, dates of publication, taxonomy, misspellings, subspecific or infrasubspecific rank.

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Introduction

Nomenclatural problems with species and genera in the currently valid firefly subfamilies Cladodinae and Lampyrinae, as well as species and genera currently classified as *incertae sedis* in either Lampyrinae or Lampyridae, are addressed. Nomenclatural and taxonomic problems in other subfamilies have been addressed in Ballantyne and Keller (2021), Keller (2021, 2022), Keller and Ballantyne (2021, 2023), Keller and Branham (2018a, b, c), and Keller and Hinson (2023) in an effort to update McDermott's (1966) World Lampyridae Catalog. These corrections of nomenclatural details address mistakes present in online databases, regional checklists, and catalogs which have relied on McDermott's monumental effort to catalog the family Lampyridae. We address the following groups of issues: Three incorrect publication dates, six misspelled names, two replacement names (*Lucidota puertoestrellaensis* Keller and Martin **nomen novum** and *Photinus laticollis brasiliensis* Keller and Martin **nomen**

novum), and 70 determinations of subspecific status within Cladodinae, Lampyrinae, and Lampyridae as *incertae sedis*. *Photinus motschulskyi* Zaragoza-Caballero, Zurita-Garcia, and Ramírez-Ponce, 2023 was an unnecessary replacement name for *Photinus intercalatus* Gemminger, 1870 and is therefore a **new synonym** of the latter. Additionally, we correct the type species of the genus *Lucidina* Gorham, 1833, and address all dates of publication of fireflies described by Charles Émile Blanchard.

Materials and Methods

We checked each species record in McDermott's (1966) catalog for authorship, spelling, and date of publication mistakes by comparing each to the original descriptions. The validity of varieties listed throughout McDermott's (1966) catalog was checked using the International Code of Zoological Nomenclature (ICZN 1999) and Lingafelter and Nearn (2013). Square brackets around a generic name indicate the original combination and the placement of the species as *incertae sedis* until its generic placement can be determined.

Results and Discussion

Corrections on the Date of Publications of Species-Group Taxon Names

***Calotrachelum flavolineatum* Pic, 1941**

Calotrachelum flavolineatum Pic, 1941b: 15

Calotrachelum flavolineatum Pic, 1940 [sic]; McDermott 1966: 62

Note. Most likely a transcription error by McDermott (1966).

***Diaphanes lateapicalis breveapicalis* Pic, 1954**

Diaphanes lateapicalis var. *breveapicalis* Pic, 1954: 146

Diaphanes lateapicalis var. *breviapicalis* Pic, 1955 [sic]; McDermott 1966: 11

Note. McDermott (1966) also used an incorrect subsequent spelling of the name (see below for additional information).

***Photinus conradti* Pic, 1940**

Photinus Conradti Pic, 1940b: 15

Photinus conradti Pic, 1941 [sic]; McDermott 1966: 37

Note. Most likely a transcription error by McDermott (1966).

Name Misspelling

***Diaphanes lateapicalis breveapicalis* Pic, 1954**

Diaphanes lateapicalis var. *breveapicalis* Pic, 1954: 146

Diaphanes lateapicalis var. *breviapicalis* [sic] Pic, 1955; McDermott 1966: 11

Note. McDermott (1966) listed *breviapicalis* Pic, 1955. However, we are unaware of any *breviapicalis* described by Pic in 1955. Since a *breveapicalis* was described by Pic in 1954 (see above), *breviapicalis* is probably an incorrect subsequent original spelling of *breveapicalis* Pic 1954.

***Diaphanes latipennis dartevillei* Pic, 1952**

Diaphanes latipennis var. *Dartevillei* Pic, 1952: 262

Diaphanes latipennis var. *dartvillei* [sic] Pic, 1952; McDermott 1966: 11

Note. McDermott (1966) listed *dartvillei* Pic, 1952. However, we are unaware of any *dartvillei* described by Pic in

1952. Since a *dartevellei* was described by Pic in 1952 (see above), *dartvillei* is probably an incorrect subsequent original spelling of *dartevellei* Pic 1954.

***Diaphanes longecarinatus* Pic, 1955**

Diaphanes longecarinatus Pic, 1955b: 156

Diaphanes longecarinatus [sic] Pic, 1955; McDermott 1966: 12

Note. McDermott (1966) listed *longecarinatus* Pic, 1955. However, we are unaware of any *longecarinatus* described by Pic in 1955. Since a *longecarinatus* was described by Pic in 1955 (see above), *longecarinatus* is probably an incorrect subsequent original spelling of *longecarinatus* Pic, 1955.

***Diaphanes moultoni latemarginatus* Pic, 1938**

Diaphanes Moultoni var. *latemarginatus* Pic, 1938a: 149

Diaphanes moultoni var. *latemarginalis* [sic] Pic, 1938; McDermott 1966: 12

Note. Most likely an incorrect subsequent spelling (ICZN 1999: Article 33.3) by McDermott (1966).

***Lampyris olivieriana* von Heyden, 1890**

Lampyris olivieriana von Heyden, 1890: 359

Lampyris olivierana [sic] von Heyden, 1890; McDermott 1966: 7

Note. Olivier (1907a, 1910) and McDermott (1966) listed *olivierana* von Heyden, 1890. However, we are unaware of any *olivierana* described by von Heyden in 1890. Since an *olivieriana* was described by von Heyden in 1890 (see above), *olivierana* is probably an incorrect subsequent original spelling of *olivieriana* von Heyden 1890.

***Photinus reductemarginalis* Pic, 1941**

Photinus reductemarginalis Pic, 1941a: 15

Photinus reductimarginalis [sic] Pic, 1941; McDermott 1966: 45

Note. McDermott (1966) and Zaragoza-Caballero et al. (2023) listed *reductimarginalis* Pic, 1941. However, we are unaware of any *reductimarginalis* described by Pic in 1941. Since a *reductemarginalis* was described by Pic in 1941 (see above), *reductimarginalis* is probably an incorrect subsequent original spelling of *reductemarginalis* Pic, 1941.

Replacement Names for Species-Group Taxon Names

***Lucidota puertoestrellaensis* Keller and Martin, nomen novum for *Lucidota boliviana* Pic, 1927**

Lucidota boliviana Pic, 1927b: 52 (*nec Lucidota banoni boliviana* Gorham, 1880).

Etymology. Noun in the genitive case. Named for the geographic center of Bolivia as a reference to the lack of information on the type locality of the species beyond Bolivia.

Note. Pic (1927b: 52) described *Lucidota boliviana*, which is a junior primary homonym of *Lucidota banoni boliviana* Gorham, 1880. We therefore propose the replacement name *Lucidota puertoestrellaensis* Keller and Martin **nomen novum** according to the ICZN (ICZN 1999: Article 53.3).

***Photinus laticollis brasiliensis* Keller and Martin, nomen novum for *Photinus laticollis latior* Pic, 1941**

Photinus laticollis var. *latior* Pic, 1941a: 16 (*nec Photinus latior* (Olivier, 1907)).

Etymology. Noun in the genitive case. Named for the country of origin: Brazil; as a reference to the lack of more detailed information on the type locality of the subspecies beyond the country.

Note. Pic (1941: 16) described *Photinus laticollis* var. *latior*, which is a junior homonym of *Photinus latior* (Olivier, 1907). We therefore propose the replacement name *Photinus laticollis brasiliensis* Keller and Martin **nomen novum** according to the ICZN (ICZN 1999: Article 53.3).

Change of Current Placement of Species-Group Taxon Names

***Lampyris lunulata* Blanchard, 1845**

Lampyris lunulata Blanchard, 1845: 113

Note. Olivier (1899: 73) gave the female of *Lampyris lunulata* Blanchard, 1845 the new combination *Lucidota lunulata* (Blanchard, 1845), but in his 1907 catalog he then listed the species under the genus *Lucidota* (page 20) and under the genus *Photinus* (page 36) (Olivier 1907a). Olivier (1910) repeated the double listing under *Lucidota* (page 16) and *Photinus* (page 29). McDermott (1966), whose catalog was built upon Olivier's (1907a, 1910) works, also listed the species under *Lucidota* (page 67) and *Photinus* (page 41). Because of our uncertainty to which genus the species really belongs, we move the species to *incertae sedis* within the subfamily Lampyrinae as [*Lampyris*] *lunulata* until the type can be studied.

***Lampyris quadratifera* Blanchard, 1845**

Lampyris quadratifera Blanchard, 1845: 114

Note. Olivier (1899: 74) gave *Lampyris quadratifera* Blanchard, 1845 the new combination *Photinus quadratifer* (Blanchard, 1845). Later, Lucas (1859) listed *Lucidota quadratifera* Blanchard as a new combination. The name was listed under the genus *Photinus* in subsequent catalogs (Olivier 1907a, 1910), but McDermott (1966) listed it under *Photinus* and, at the same time, he also listed *Lucidota quadratifera* Lucas, 1857, possibly misunderstanding the new combination proposed by Lucas (1857) as a new authorship/species. There is no discernible reason for McDermott to have changed authorship. Therefore, we are uncertain of the correct placement of Blanchard's species and move the species to *incertae sedis* within the subfamily Lampyrinae as [*Lampyris*] *quadratifera* to Lampyrinae until the type can be studied.

Unnecessary Replacement Name

***Photinus intercalatus* Gemminger, 1870 reversed status**

Macrolampis infuscatus Motschulsky, 1854: 38

Photinus intercalatus Gemminger, 1870: 119 (replacement name for *Photinus infuscatus* Motschulsky, 1854: 38, *nec Photinus infuscatus* Laporte, 1840)

Photinus motschulskyi Zaragoza-Caballero, Zurita-García, and Ramírez-Ponce, 2023: 281 (unnecessary replacement name). **New synonym**

Note. The species *Macrolampis infuscatus* Motschulsky, 1854 was given the new combination *Photinus infuscatus* (Motschulsky, 1854) by Lacordaire (1857) and became a secondary homonym of *Photinus infuscatus* Laporte, 1840. Gemminger (1870) recognized this and assigned the replacement name *Photinus intercalatus* Gemminger, 1870. Zaragoza et al. (2023: 281) introduced *Photinus motschulskyi* as a replacement name for *Photinus infuscatus* (Motschulsky), ignoring the action by Gemminger (1870). Because of the presence of two replacement names, *Photinus motschulskyi* Zaragoza-Caballero, Zurita-García, and Ramírez-Ponce, 2023, being older, can be considered an unnecessary replacement name and is herein reversed.

Determination of Subspecific or Infrasubspecific Rank

We evaluated all remaining taxa described as variations in the subfamilies Cladodinae and Lampyrinae (McDermott 1966) and determined their availability based on Article 45.6 of the Code (ICZN 1999) using Lingafelter and Nearn's (2013) for elucidation of this article. In the table below, we list taxa that have been elevated to subspecies level or were made unavailable. The table is first organized alphabetically by subfamily and tribe. Genera, species, and subspecies or variants are then organized alphabetically within each tribe according to the name used in McDermott's (1966) catalog, Geisthardt's papers (1982, 1990), and Pic (1940a).

Original combination	Name used in McDermott 1966	Current status, comments
Lampyridae: Cladodinae		
<i>Dodacles basalis</i> v. nov. <i>bisignatus</i> Pic, 1937a: 140	<i>Dodacles basalis</i> var. <i>bisignata</i> Pic, 1937a: 140 (McDermott 1966: 83)	<i>Dodacles basalis bisignatus</i> Pic, 1937
<i>Dodacles basalis</i> v. nov. <i>reductus</i> Pic, 1937a: 140	<i>Dodacles basalis</i> var. <i>reducta</i> Pic, 1937a: 140 (McDermott 1966: 83)	<i>Dodacles basalis reductus</i> Pic, 1937
<i>Dodacles dubitans</i> var. <i>fuscicollis</i> Olivier, 1912b: 170	<i>Dodacles dubitans</i> var. <i>fuscicollis</i> Olivier, 1912: 1970 (McDermott 1966: 83)	<i>Dodacles dubitans fuscicollis</i> Olivier, 1912
<i>Dodacles erebus</i> [sic] v. nov. <i>basicornis</i> Pic, 1937a: 140	<i>Dodacles erebea</i> var. <i>basicornis</i> Pic, 1937a: 140 (McDermott 1966: 83)	<i>Dodacles erebeus basicornis</i> Pic, 1937
<i>Dodacles nigricollis</i> v. nov. <i>bicoloricornis</i> Pic, 1938b: 163	<i>Dodacles nigricollis</i> var. <i>bicoloricornis</i> Pic, 1938b: 163 (McDermott 1966: 83)	<i>Dodacles nigricollis bicoloricornis</i> Pic, 1938
<i>Dodacles plumosus</i> var. <i>immaculatus</i> Olivier, 1912a: 25	<i>Dodacles plumosa</i> var. <i>immaculatus</i> Olivier, 1912a: 25 (McDermott 1966: 84)	<i>Dodacles plumosus immaculatus</i> Olivier, 1912
<i>Dryptelytra cayennensis</i> var. nov. <i>brevivittis</i> Pic, 1911: 164	<i>Dryptelytra cayennensis</i> var. <i>brevivittis</i> Pic, 1911: 164 (McDermott 1966: 84)	<i>Dryptelytra cayennensis brevivittis</i> Pic, 1911
<i>Ledocas parallelus</i> var. <i>obscurus</i> Olivier, 1907b: 176	<i>Ledocas parallelus</i> var. <i>obscurus</i> Olivier, 1907b: 176 (McDermott 1966: 83)	<i>Ledocas parallelus obscurus</i> Olivier, 1907
<i>Ledocas proteus</i> v. nov. <i>olivieri</i> Pic, 1929: 72	<i>Ledocas proteus</i> var. <i>olivieri</i> Pic, 1929: 72 (McDermott 1966: 83)	<i>Cladodes proteus olivieri</i> (Pic, 1929)
Lampyridae: Lampyrinae: Cratomorphini		
<i>Cratomorphus giganteus</i> var. <i>infuscatus</i> Olivier, 1911b: 78	<i>Cratomorphus splendidus</i> var. <i>infuscata</i> Olivier, 1911b: 78 (McDermott 1966: 29)	<i>Cratomorphus splendidus infuscatus</i> Olivier, 1911
Lampyridae: Lampyrinae: Lamprocerini		
<i>Lamprocera flavofasciata</i> var. <i>scutellata</i> Olivier, 1899: 87	<i>Lamprocera flavofasciata</i> var. <i>scutellata</i> Olivier, 1899: 87 (McDermott 1966: 23)	<i>Lamprocera flavofasciata scutellata</i> Olivier, 1899
<i>Lamprocera latreillei</i> var. <i>nigrescens</i> Olivier, 1899: 86	<i>Lamprocera latreillei</i> var. <i>nigrescens</i> Olivier, 1899: 86 (McDermott 1966: 23)	<i>Lamprocera latreillei nigrescens</i> Olivier, 1899
<i>Lamprocera tristior</i> var. <i>limbata</i> Olivier 1899: 87	<i>Lamprocera tristior</i> var. <i>limbata</i> Olivier 1899: 87 (McDermott 1966: 23)	<i>Lamprocera tristior limbata</i> Olivier 1899
<i>Lucio dimidiatum</i> var. <i>fasciolatum</i> Olivier, 1885: 131	<i>Lucio dimidiatum</i> var. <i>fasciolatum</i> Olivier, 1885: 131 (McDermott 1966: 24)	<i>Lucio dimidiatum fasciolatum</i> Olivier, 1885
<i>Lucio splendens</i> var. <i>bisignatum</i> Olivier, 1911a: 49	<i>Lucio splendens</i> var. <i>bisignatum</i> Olivier, 1911a: 49 (McDermott 1966: 24)	<i>Lucio splendens bisignatum</i> Olivier, 1911
<i>Hyas cruciata</i> var. <i>binotata</i> Olivier, 1886a: 2	<i>Lychnacris cruciata</i> var. <i>binotata</i> (Olivier, 1886a: 2) (McDermott 1966: 25)	<i>Lychnacris cruciata binotata</i> (Olivier, 1886)
<i>Lychnacris flabellata</i> var. <i>divisa</i> Olivier, 1909a: 222	<i>Lychnacris flabellata</i> var. <i>divisa</i> Olivier, 1909a: 222 (McDermott 1966: 25)	<i>Lychnacris flabellata divisa</i> Olivier, 1909
<i>Lychnacris flabellata</i> var. <i>liturata</i> Olivier, 1909a: 223	<i>Lychnacris flabellata</i> var. <i>liturata</i> Olivier, 1909a: 223 (McDermott 1966: 25)	<i>Lychnacris flabellata liturata</i> Olivier, 1909
Lampyridae: Lampyrinae: Lampyrini		
<i>Diaphanes bilineaticollis</i> var. <i>imbasalis</i> Pic, 1952: 266	<i>Diaphanes bilineaticollis</i> var. <i>imbasalis</i> Pic, 1952: 266 (McDermott 1966: 10)	<i>Diaphanes bilineaticollis imbasalis</i> Pic, 1952

Original combination	Name used in McDermott 1966	Current status, comments
<i>Diaphanes bilineaticollis</i> var. <i>Overlaeti</i> Pic, 1952: 266	<i>Diaphanes bilineaticollis</i> var. <i>overlaeti</i> Pic, 1952: 266 (McDermott 1966: 10)	<i>Diaphanes bilineaticollis overlaeti</i> Pic, 1952
<i>Diaphanes costulatus</i> v. <i>limbatipennis</i> Pic, 1950: 6	<i>Diaphanes costulatus</i> var. <i>limbatipennis</i> Pic, 1950: 6 (McDermott 1966: 10)	<i>Diaphanes costulatus limbatipennis</i> Pic, 1950
<i>Diaphanes costulatus</i> var. <i>pallidipes</i> Pic, 1921: 6	<i>Diaphanes costulatus</i> var. <i>pallidipes</i> Pic, 1921: 6 (McDermott 1966: 10)	<i>Diaphanes costulatus pallidipes</i> Pic, 1921
<i>Diaphanes costulatus</i> var. <i>Verhulsti</i> Pic, 1952: 262	<i>Diaphanes costulatus</i> var. <i>verhulsti</i> Pic, 1952: 262	<i>Diaphanes costulatus verhulsti</i> Pic, 1952
<i>Diaphanes fossicollis</i> v. <i>binotaticollis</i> Pic, 1931a: 103	<i>Diaphanes fossicollis</i> var. <i>binotaticollis</i> Pic, 1931a: 103 (McDermott 1966: 11)	<i>Diaphanes fossicollis binotaticollis</i> Pic, 1931
<i>Diaphanes fossicollis</i> v. <i>Crampeli</i> Pic, 1931a: 103	<i>Diaphanes fossicollis</i> var. <i>crampeli</i> Pic, 1931a: 103 (McDermott 1966: 11)	<i>Diaphanes fossicollis crampeli</i> Pic, 1931
<i>Diaphanes lateapicalis</i> var. <i>breveapicalis</i> Pic, 1954: 146	<i>Diaphanes lateapicalis</i> var. <i>breviapicalis</i> [sic] Pic, 1955 [sic]: 146 (McDermott 1966: 11)	<i>Diaphanes lateapicalis breveapicalis</i> Pic, 1954 For spelling and date of publication see above
<i>Diaphanes latipennis</i> var. <i>Dartevillei</i> Pic, 1952: 262	<i>Diaphanes latipennis</i> var. <i>dartvillei</i> [sic] Pic, 1952: 262 (McDermott 1966: 10)	<i>Diaphanes latipennis dartevillei</i> Pic, 1952 For spelling see above
<i>Diaphanes latipennis</i> var. <i>Léopoldi</i> Pic, 1931b: 38	<i>Diaphanes latipennis</i> var. <i>leopoldi</i> Pic, 1931b: 38 (McDermott 1966: 11)	<i>Diaphanes latipennis leopoldi</i> Pic, 1931
<i>Diaphanes leucopyga</i> var. <i>Holasi</i> Pic, 1949: 309	<i>Diaphanes leucopyga</i> var. <i>holasi</i> Pic, 1949: 309 (McDermott 1966: 111)	<i>Diaphanes leucopyga holasi</i> Pic, 1949
<i>Diaphanes Moultoni</i> var. <i>latemarginatus</i> Pic, 1938a: 149	<i>Diaphanes moultoni</i> var. <i>latemarginalis</i> [sic] Pic, 1938a: 149 (McDermott 1966: 12)	<i>Diaphanes moultoni latemarginatus</i> Pic, 1938 For spelling see above
<i>Diaphanes nimbosus</i> var. <i>apicalis</i> Olivier, 1909b: 397	<i>Diaphanes nimbosus</i> var. <i>apicalis</i> Olivier, 1909b: 397 (McDermott 1966: 12)	<i>Diaphanes nimbosus apicalis</i> Olivier, 1909
<i>Diaphanes piligera</i> var. <i>Decellei</i> Pic, 1956: 193	<i>Diaphanes piligerus</i> var. <i>decellei</i> Pic, 1956: 193 (McDermott 1966: 13)	<i>Diaphanes piligerus decellei</i> Pic, 1956
<i>Diaphanes piligera</i> var. <i>Palaui</i> Pic, 1956: 192	<i>Diaphanes piligerus</i> var. <i>palaui</i> Pic, 1956: 192 (McDermott 1966: 13)	<i>Diaphanes piligerus palaui</i> Pic, 1956
<i>Diaphanes subtestaceus</i> var. <i>brevior</i> Pic, 1952: 264	<i>Diaphanes subtestaceus</i> var. <i>brevior</i> Pic, 1952: 264 (McDermott 1966: 14)	<i>Diaphanes subtestaceus brevior</i> Pic, 1952
<i>Diaphanes subtestaceus</i> var. <i>discoidalis</i> Pic, 1952: 264	<i>Diaphanes subtestaceus</i> var. <i>discoidalis</i> Pic, 1952: 264 (McDermott 1966: 14)	<i>Diaphanes subtestaceus discoidalis</i> Pic, 1952
<i>Lampyrus letournexi</i> Olivier, 1884: 24	<i>Lampyrus lusitanica</i> var. <i>letournexi</i> Olivier, 1884: 24 (McDermott 1966: 4)	[<i>Lampyrus</i>] <i>lusitanica letournexi</i> Olivier, 1884 Status unclear. Moved to <i>incertae sedis</i> in Lampyrinae until its status can be verified.

Original combination	Name used in McDermott 1966	Current status, comments
<i>Pyrocoelia Foochowensis</i> var. <i>insidiosa</i> Olivier, 1886b: 204	<i>Lychnuris analis</i> var. <i>insidiosa</i> (Olivier, 1886b: 204) (McDermott 1966: 14)	<i>Pyrocoelia analis insidiosa</i> Olivier, 1886 Jeng et al. (1999) reversed McDermott's decision to use <i>Lychnuris</i> Dejean and established <i>Pyrocoelia</i> Gorham again as the valid generic name. Olivier (1907a) synonymized <i>Lucernuta foochowensis</i> under <i>Lucernuta analis</i> .
<i>Pyrocoelia gracilicornis</i> v. <i>Grandjeani</i> Pic, 1937b: 141	<i>Lychnuris gracilicornis</i> var. <i>grandjeani</i> (Pic, 1937b: 141) (McDermott 1966: 16)	<i>Pyrocoelia gracilicornis grandjeani</i> Pic, 1937 Jeng et al. (1999) reversed McDermott's decision to use <i>Lychnuris</i> Dejean and established <i>Pyrocoelia</i> Gorham again as the valid generic name.
<i>Pyrocoelia gracilicornis</i> variété <i>nigrovittata</i> Pic, 1937b: 141	<i>Lychnuris gracilicornis</i> var. <i>nigrovittata</i> (Pic, 1937b: 141) (McDermott 1966: 16)	<i>Pyrocoelia gracilicornis nigrovittata</i> Pic, 1937 Jeng et al. (1999) reversed McDermott's decision to use <i>Lychnuris</i> Dejean and established <i>Pyrocoelia</i> Gorham again as the valid generic name.
<i>Pyrocælia Lacordairei</i> [sic] v. <i>laterufa</i> Pic, 1927a: 38	<i>Lychnuris lacordairei</i> var. <i>laterufa</i> (Pic, 1927a: 38) (McDermott 1966: 16)	<i>Pyrocoelia lacordairei laterufa</i> Pic, 1927 Jeng et al. (1999) reversed McDermott's decision to use <i>Lychnuris</i> Dejean and established <i>Pyrocoelia</i> Gorham again as the valid generic name.
<i>Pyrocælia</i> [sic] <i>praetexta</i> var. <i>rostriformis</i> Olivier, 1911b: 66	<i>Lychnuris praetexta</i> var. <i>rostriformis</i> (Olivier, 1911b: 66) (McDermott 1966: 17)	<i>Pyrocoelia praetexta rostriformis</i> Olivier, 1911 Jeng et al. (1999) reversed McDermott's decision to use <i>Lychnuris</i> Dejean and established <i>Pyrocoelia</i> Gorham again as the valid generic name.
<i>Pyrocoelia signaticollis</i> v. <i>diversicollis</i> Pic, 1937b: 141	<i>Lychnuris signaticollis</i> var. <i>diversicollis</i> (Pic, 1937b: 141) (McDermott 1966: 18)	<i>Pyrocoelia signaticollis diversicollis</i> Pic, 1937 Jeng et al. (1999) reversed McDermott's decision to use <i>Lychnuris</i> Dejean and established <i>Pyrocoelia</i> Gorham again as the valid generic name.
<i>Lampyrus reichei</i> var. <i>bidens</i> Rey, 1891: 114	<i>Nyctophila reichei</i> var. <i>bidens</i> (Rey, 1891: 114) (McDermott 1966: 10)	[<i>Lampyrus</i>] <i>reichei bidens</i> (Rey, 1891) Moved to <i>incertae sedis</i> in Lampyrini by Geisthardt (1990: 8)
<i>Nyctophila reichei</i> [sic] var. <i>hispanica</i> Olivier, 1884: 17	<i>Nyctophila reichei</i> [sic] var. <i>hispanica</i> Olivier, 1884: 17 (McDermott 1966: 10)	[<i>Nyctophila</i>] <i>reichii hispanica</i> Olivier, 1884 Moved to Lampyrini <i>incertae sedis</i> by Geisthardt (1990: 8)

Original combination	Name used in McDermott 1966	Current status, comments
<i>Pelania imperfecta</i> Olivier, 1899: 92	<i>Pelania angustipennis</i> var. <i>imperfecta</i> Olivier, 1899: 92 (McDermott 1966: 8)	<i>Pelania angustipennis imperfecta</i> Olivier, 1899 Described as a species by Olivier (1899) and downgraded to variety by Olivier (1907a: 43) and treated as such in catalogs by Olivier (1907a, 1910), and McDermott (1966).
Lampyridae: Lampyrinae: Lucidotini		
<i>Callopisma rufa</i> var. <i>humeralis</i> Olivier, 1912c: 19	<i>Callopisma rufa</i> var. <i>humeralis</i> Olivier, 1912: 19 (McDermott 1966: 62)	<i>Callopisma rufa humeralis</i> Olivier, 1912 Keller and Branham (2021: 99) misinterpreted the key in Lingafelter & Nearn (2013) and erroneously made the name unavailable. Here we make it available based on ICZN (1999: Article 45.6.5).
<i>Lucidina Clavareaui</i> var. <i>Corporaali</i> Pic, 1921: 16	<i>Lucidina clavareau</i> var. <i>corporaali</i> Pic, 1921: 16 (McDermott 1966: 70)	<i>Lucidina clavareau</i> <i>corporaali</i> Pic, 1921
<i>Lucidina Vitalisi</i> v. nov. <i>trinotaticollis</i> Pic, 1937c: 170	<i>Lucidina vitalisi</i> var. <i>trinotaticollis</i> Pic, 1937: 170 (McDermott 1966: 71)	<i>Lucidina vitalisi trinotaticollis</i> Pic, 1937
<i>Lucidina Vitalisi</i> v. n. <i>truncatithorax</i> Pic, 1955a: 25	<i>Lucidina vitalisi</i> var. <i>truncatithorax</i> Pic, 1955a: 25 (McDermott 1966: 71)	<i>Lucidina vitalisi truncatithorax</i> Pic, 1955
<i>Lucidota boliviana</i> Gorham, 1880: 18	<i>Lucidota banoni</i> var. <i>boliviana</i> Gorham, 1880: 18 (McDermott 1966: 64)	<i>Lucidota banoni boliviana</i> Gorham, 1880 Relegated to a variety of <i>Luciola banoni</i> Laporte by Olivier (1885: 336).
<i>Lucidota fulgurans</i> v. <i>subinterrupta</i> Pic, 1931c: 449	<i>Lucidota fulgurans</i> var. <i>subinterrupta</i> Pic, 1931c: 449 (McDermott 1966: 66)	<i>Lucidota fulgurans subinterrupta</i> Pic, 1931
<i>Lucidota fulvotincta</i> variety <i>flavicollis</i> Mutchler, 1923a: 5	<i>Lucidota fulvotincta</i> var. <i>flavicollis</i> Mutchler, 1923a: 5 (McDermott 1966: 66)	<i>Lucidota fulvotincta flavicollis</i> Mutchler, 1923 Keller and Branham (2021: 99) misinterpreted the key in Lingafelter & Nearn (2013) and erroneously made the name unavailable. Here we make it available based on ICZN (1999: Article 45.6.5).
<i>Lucidota mellicula</i> v. n. <i>insuturalis</i> Pic, 1940a: 13	<i>Lucidota mellicula</i> var. <i>insuturalis</i> Pic, 1940a: 13 (McDermott 1966: 67)	<i>Lucidota mellicula insuturalis</i> Pic, 1940
<i>Lucidota pennata</i> var. <i>immaculata</i> Olivier, 1909a: 223	<i>Lucidota pennata</i> var. <i>immaculata</i> Olivier, 1909a: 223 [sic] (McDermott 1966: 68)	<i>Lucidota pennata immaculata</i> Olivier, 1909
<i>Macrolampis theryi</i> v. n. <i>reducta</i> Pic, 1940b: 16	<i>Macrolampis theryi</i> var. <i>reducta</i> Pic, 1940b: 16 (McDermott 1966: 49)	<i>Photinus theryi reductus</i> (Pic, 1940) The genus <i>Macrolampis</i> Motschulsky, 1853 was synonymized under <i>Photinus</i> in Zaragoza-Caballero et al. (2020: 10).
<i>Photinus incongruus</i> var. ? Gorham, 1884: 259	<i>Photinus incongruus</i> var. <i>pallidior</i> Gorham, 1884: 259 (McDermott 1966: 40)	<i>Photinus incongruus pallidior</i> Gorham, 1884 Name made available by Oliver (1907a) based on ICZN (1999: Article 12.2.7).

Original combination	Name used in McDermott 1966	Current status, comments
<i>Photinus laticollis</i> var. <i>latior</i> Pic, 1941a: 16	<i>Photinus laticollis</i> var. <i>latior</i> Pic, 1941a: 16 (McDermott 1966: 40)	<i>Photinus laticollis brasiliensis</i> Keller and Martin, 2023 For new name see above.
<i>Photinus marcapatanus</i> var. <i>infrapallidior</i> Pic, 1942: 16	<i>Photinus marcapatanus</i> var. <i>infrapallidior</i> Pic, 1942: 16 (McDermott 1966: 42)	<i>Photinus marcapatanus infrapallidior</i> Pic, 1942
<i>Photinus suturella</i> variété? <i>limbella</i> Motschulsky, 1854: 36	<i>Photinus suturellus</i> var. <i>limbellus</i> Motschulsky, 1854: 36 (McDermott 1966: 46)	<i>Photinus suturellus limbellus</i> Motschulsky, 1854 Considered a valid species in Olivier (1910), but downgraded to variety by McDermott (1966).
<i>Photinus magnus</i> variety <i>turquino</i> Mutchler, 1923b: 4	<i>Robopus magnus</i> var. <i>turquino</i> Mutchler, 1923b: 4 (McDermott 1966: 51)	<i>Robopus magnus turquino</i> Mutchler, 1923 Keller and Branham (2021: 99) misinterpreted the key in Lingafelter & Nearn (2013) and erroneously made the name unavailable. Here we make it available based on ICZN (1999: Article 45.6.5).

Lampyridae: Lampyrinae: Pleotomini

<i>Phaenolis ochraceus</i> v. nov. <i>diversicornis</i> Pic, 1937b: 141	<i>Phaenolis ochraceus</i> var. <i>diversicornis</i> Pic, 1937b: 141 (McDermott 1966: 22)	<i>Phaenolis ochracea diversicornis</i> Pic, 1937
<i>Phaenolis ochraceus</i> v. nov. <i>suturalis</i> Pic, 1937b: 141	<i>Phaenolis ochraceus</i> var. <i>suturalis</i> Pic, 1937b: 141 (McDermott 1966: 22)	<i>Phaenolis ochracea suturalis</i> Pic, 1937
<i>Calyptocephalus stipulicornis</i> var. <i>diffusa</i> Olivier, 1909b: 222	<i>Phaenolis stipulicornis</i> var. <i>diffusa</i> Olivier, 1909b: 222 (McDermott 1966: 22)	<i>Phaenolis stipulicornis diffusa</i> Olivier, 1909

Lampyridae: Vestina incertae sedis

<i>Vesta proxima</i> var. <i>minor</i> Olivier, 1886c: 182	<i>Vesta proxima</i> var. <i>minor</i> Olivier, 1886c: 192 [sic] (McDermott 1966: 80)	<i>Vesta proxima minor</i> Olivier, 1886
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Original combination	Name used in Geisthardt (1982, 1990)	Current status, comments
<i>Nyctophila confusa variata</i> var. <i>carinata</i> Geisthardt, 1982: 124	<i>Nyctophila confusa variata</i> var. <i>carinata</i> Geisthardt, 1982: 124	Geisthardt (1982) added a fourth name to a trinomen, rendering the name infrasubspecific and therefore unavailable to ICZN (1999: Article 45.5).
<i>Nyctophila confusa variata</i> var. <i>rufibasis</i> Geisthardt, 1982: 124	<i>Nyctophila confusa variata</i> var. <i>rufibasis</i> Geisthardt, 1982: 124	Geisthardt (1982) added a fourth name to a trinomen, rendering the name infrasubspecific and therefore unavailable according to ICZN (1999: Article 45.5).

Original combination	Name used in Geisthardt (1982, 1990)	Current status, comments
<i>Nyctophila maculicollis</i> var. <i>occidentalis</i> Geisthardt, 1990: 6	<i>Nyctophila maculicollis</i> var. <i>occidentalis</i> Geisthardt, 1990: 6	<i>Nyctophila maculicollis</i> var. <i>occidentalis</i> Geisthardt 1990 was described after 1960 and expressly used the term variety, rendering the name infrasubspecific and therefore unavailable according to ICZN (1999: Article 45.5).
<i>Nyctophila maculicollis</i> var. <i>pallida</i> Geisthardt, 1990: 5	<i>Nyctophila maculicollis</i> var. <i>pallida</i> Geisthardt, 1990: 5	<i>Nyctophila maculicollis</i> var. <i>pallida</i> Geisthardt 1990 was described after 1960 and expressly used the term variety, rendering the name infrasubspecific and therefore unavailable according to ICZN (1999: Article 45.5).

Original combination	Name used in Pic 1940a	Current status, comments
<i>Photinus weygandi</i> v. <i>jatayensis</i> Pic, 1940a: 15	<i>Photinus weygandi</i> v. <i>jatayensis</i> Pic, 1940a: 15	<i>Photinus weygandi jatayensis</i> Pic, 1940

Correction of Type Species

Currently, the type species of *Lucidina* Gorham, 1883 is considered to be *Lucidina accensa* Gorham, 1883 subsequently designated in McDermott (1964: 32). Gorham (1883) had included *Lucidina accensa* and *Lucidina biplagiata* (Motschulsky, 1866) in his new genus but did not designate a type species. Unknown to McDermott, Lucas (1920: 382) already had designated *Lichnuris* [sic] *biplagiata* Motschulsky, 1866 (ICZN, Article 69.1.2) as the type species of *Lucidina*. Therefore, the type species of *Lucidina* is *Lychnuris biplagiata* Motschulsky, 1866.

Dates of Publication of Lampyridae by Charles Émile Blanchard

Souto et al. (2019) included a discussion about the publication dates of species described by Blanchard. Olivier (1907a, 1910) used 1837 as the year of description for Blanchard's species, and McDermott (1966) used 1846 in his catalog. A subsequent paper by Rosa (2007) used 1837 again, and Souto et al. (2019) argued that because the publication states a date range from 1837–1843, that ICZN (1999: Article 21.6) applied and the publication date set to the final day of the range, therefore 1843. The actual history of the dates of publication of the 32 livraisons is explained and listed in Bousquet (2016). The pages with descriptions of lampyrid species range from 110–124. Pages 110–112 were part of livraison 77 (pp. 97–112) which was published on 20 December 1844 (Bousquet 2016). Pages 113–124 were part of livraison 78 (pp. 113–152) which was published on 2 May 1845 (Bousquet 2016). Therefore, we list the correct dates of publication of Blanchard's lampyrids below. We present the current valid combination and the original combination of each species.

1844

Aspisoma concoloripenne (Blanchard, 1844)

Lampyris concoloripennis Blanchard, 1844: 110

Aspisoma fenestratum (Blanchard, 1844)

Lampyris fenestrata Blanchard, 1844: 111

***Aspisoma ovale* (Blanchard, 1844)**

Lampyris ovalis Blanchard, 1844: 112

***Lucidota roseimaculata* (Blanchard, 1844)**

Lampyris roseimaculata Blanchard, 1844: 112

***Lucidota pallidicollis* (Blanchard, 1844)**

Lampyris pallidicollis Blanchard, 1844: 112

1845

***Lucidota albicollis* (Blanchard, 1845)**

Lampyris albicollis Blanchard, 1845: 113

***Lucidota lunulata* (Blanchard, 1845)**

Lampyris lunulata Blanchard, 1845: 113

***Lucidota quadratifera* (Blanchard, 1845)**

Lampyris quadratifera Blanchard, 1845: 114

***Photinus signaticollis* (Blanchard, 1845)**

Lampyris signaticollis Blanchard, 1845: 114

***Photuris (Photuris) fulvipes* (Blanchard, 1845)**

Lampyris fulvipes Blanchard, 1845: 115

***Bicellonycha ornaticollis* (Blanchard, 1845)**

Lampyris ornaticollis Blanchard, 1845: 115

***Photinus roseicollis* (Blanchard, 1845)**

Lampyris roseicollis Blanchard, 1845: 116

***Photinus longus* Gemminger, 1870**

Lampyris linearis Blanchard, 1845: 116 (*nec Lampyris linearis* Latreille, 1811)

***Photinus parallelus* (Blanchard, 1845)**

Lampyris parallela Blanchard, 1845: 117

***Bicellonycha lineola* (Blanchard, 1845)**

Lampyris lineola Blanchard, 1845: 117

***Pyrogaster fuliginosus* (Blanchard, 1845)**

Lampyris fuliginosa Blanchard, 1845: 118

***Pyrogaster moestus* (Germar, 1824)**

Lampyris crassicornis Blanchard, 1845: 118 (synonym of *Pyrogaster moestus* (Germar, 1824))

***Bicellonycha dimidiata* (Blanchard, 1845)**

Lampyris dimidiata Blanchard, 1845: 118)

Lucidota tristis* (Blanchard, 1845)Lampyrus tristis* Blanchard, 1845: 119***Photinus parvus* (Blanchard, 1845)***Lampyrus parva* Blanchard, 1845: 119***Photinus gracilis* (Blanchard, 1845)***Lampyrus gracilis* Blanchard, 1845: 120***Photinus rufomarginatus* (Blanchard, 1845)***Lampyrus rufo-marginatus* Blanchard, 1845: 120***Photinus niger* (Blanchard, 1845)***Lampyrus nigra* Blanchard, 1845: 120***Lucidota elongata* Blanchard, 1845***Lucidota elongata* Blanchard, 1845: 121***Psilocladus* Blanchard, 1845***Psilocladus* Blanchard, 1845: 121***Psilocladus miltoderus* Blanchard, 1845***Psilocladus miltoderus* Blanchard, 1845: 122***Cladodes cincticollis* (Blanchard, 1845)***Vesta cincticollis* Blanchard, 1845: 122***Ethra gratiosa* (Blanchard, 1845)***Vesta gratiosa* Blanchard, 1845: 122***Magnoculus gentilis* Blanchard, 1845***Megalophthalmus gentilis* Blanchard, 1845: 123***Magnoculus costatus* (Laporte, 1833)***Megalophthalmus obsoletus* Blanchard, 1845: 123 (synonym of *Magnoculus costatus* (Laporte, 1833))***Lamprocera flavofasciata flavofasciata* Blanchard, 1845***Lamprocera flavo-fasciata* Blanchard, 1845: 123***Lamprocera flavoquadrata* Blanchard, 1845***Lamprocera flavo-quadrata* Blanchard, 1845: 124***Amydetes praeusta* Blanchard, 1845***Amydetes praeusta* Blanchard, 1845: 124

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