Aurivillius’s “Neue oder wenig bekannte Coleoptera Longicornia” (1886–1927), the correct years and page numbers

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Abstract
Aurivillius’s work entitled “Neue oder wenig bekannte Coleoptera Longicornia” was published in parts over a period of over four decades. There were two page numbers on most pages of these publications, one ordered by Aurivillius, the other by the journal. Historically, different authors have used different page numbers, and sometimes different years for these publications, which has caused chaos in the citations. Herein, accurate dates of publications for this work, and correct page numbers that should be used are provided and discussed.

Keywords
Correction, misunderstanding, publication date, reference, years of submission, Zoological Record

Introduction
Christopher Aurivillius (1853–1928) was a very important Swedish entomologist, who published 67 references regarding Cerambycidae from 1886 to 1929 (Tavakilian and Chevillotte 2019). Among them, 20 parts were titled as “Neue oder wenig bekannte Coleoptera Longicornia” and numbered from 4 to 23. Most of them (except the 8th part) have two page numbers printed on each page, both of which have been cited by
many different authors. In order to determine the correct page numbers and the accurate dates of publication for this significant work, we analyzed all the Cerambycidae literature of Aurivillius.

**Materials and methods**

**Methods of literature collecting**

We accessed literature in three ways for this study: a) downloaded pdf files from the Biodiversity Heritage Library: [http://www.biodiversitylibrary.org/](http://www.biodiversitylibrary.org/); b) copied the original pages directly from library holdings (the first author visited the libraries of the Institute of Zoology, Chinese Academy of Sciences, Beijing, China; National Science Library, Chinese Academy of Science, Beijing, China; Muséum national d’Histoire naturelle, Paris, France; Division of Plant Industry, Florida State Collection of Arthropods, Gainesville, Florida, USA; and the National Museum of Natural History (Smithsonian Institution), Washington DC, USA, etc.); c) solicited help from colleagues (especially G. Tavakilian and S. Lingafelter).

**Dating the publications**

In researching the dates of publication for this work, we consulted five points of reference: a) date printed on first and last pages; b) date shown by the Zoological Record; c) date used by Aurivillius’s catalogues; d) date used by literature citing related references; e) date printed on original wrapper.

**Results**

**Historically different ways of citing page numbers**

We examined most of the literature citing Aurivillius’s “Neue oder wenig bekannte Coleoptera Longicornia” published in the journal “Arkiv för zoologi”, and gathered the results herein.

a) Citation using the journal’s page numbers: Aurivillius 1912, 1922, 1923, 1928; Breuning 1939, 1940, 1944, 1950, 1956, 1958–1969; Lane 1950; Quentin 1956; Podaný 1968, 1971; Gressitt and Rondon 1970; Rondon and Breuning 1970; Hübepohl 1985, 1988, 1989, 1990; Lee 1987; Niisato 1989, 2007; Nakamura et al. 1992; Napp 1993; Nylander 1998; Makiha 1999; Heffern 2002; Makiha and Woro 2002; Morati and Huet 2004; Ohbayashi and Niisato 2007; Bousquet et al. 2009; Morati and Bentanachs 2009; Bentanachs et al. 2010; Sudre et al. 2010;
Juhel 2011; Jiroux 2011; Vitali 2011; Weigel and Skale 2011; Vitali and Vitali 2011; Wallin et al. 2014; Lin 2015; Vitali et al. 2017.

b) Citation using both Aurivillius’s and the journal’s page numbers, but considering journal numbers as more important: Löbl and Smetana 2010; Heffern 2011; Viktora 2013, 2015a, 2019; Viktora and Tichý 2017; Lin and Yang 2019.

c) Citations using both Aurivillius’s and the journal’s page numbers, but considering Aurivillius’s numbers as more important: Hüdepohl 1992; Juhel and Bentanachs 2010.

d) Citations using Aurivillius’s page numbers: Tavakilian 1991; Martins and Galileo 1992; Martins 1997, 1998, 1999, 2002, 2005, 2007, 2009, 2011, 2014; Adlbauer 1998; 2002a, 2002b, 2013; Napp and Mermudes 1999; Vives and Heffern 2001; Vives and Abang 2003; Hüdepohl and Heffern 2004; Heffern 2005; Monné 2005a, 2005b, 2012, 2019a, 2019b, 2019c, 2019d; Monné and Napp 2005; McCarty 2006; Napp 2007; Yokio and Niisato 2009; Juhel and Bentanachs 2009a, 2011, 2012; Vives 2009, 2012, 2015a, 2015b, 2015c, 2015d, 2017; Martins and Santos-Silva 2010; Lin and Yang 2011; Juhel 2012, 2014a, 2015; Monné et al. 2012, 2016; Huang et al. 2014; Jiroux et al. 2014; Lingafelter et al. 2014; Miroshnikov 2014; Gouverneur 2015; Monné and Monné 2015, 2017; Viktora 2015b; Rousset et al. 2016; Santos-Silva and Galileo 2016; Sudre et al. 2016; Viktora and Tichý 2016; Vitali 2016, 2018; Yan and Chen 2016; Yokio and Heffern 2016; Bentanachs and Jiroux 2017; Santos-Silva and Botero 2017. Note that some of these citations could have followed the Titan database (Tavakilian and Chevillotte 2019) since they also cited that database (e.g., Huang et al. 2014; Gouverneur 2015).

e) Random citation method: Sometimes using the journal’s page numbers and sometimes using Aurivillius’s page numbers in the same paper: Gressitt 1940, 1951; Lingafelter and Hoebeke 2002; Juhel and Bentanachs 2009b; Ślipiński and Escalona 2013; Juhel 2014b, 2016; Nakamura et al. 2014; Lin 2017; Bezark 2019; Lazarev and Murzin 2019.

**Common errors encountered when citing this series of papers**

The errors occurred in the date (see Table 1), page numbers (see Table 1), information regarding the figures and plates, part numbers, first and last page numbers, journal volume numbers, and so on.

a) Errors regarding the separate plates. There were two kinds of figures in this work, text-figures were inside the content and provided with continuous numbers (see Table 1), while end-plates were printed as separate plates, normally numbered from one. The former can be ignored in the reference, while the latter should be added. For example, Hüdepohl and Heffern (2004) wrote the reference as “Aurivillius, C. 1907. Neue oder wenig bekannte Coleoptera Longicornia. 9. Arkiv för zoologi. 3(18): 93–131. 9 fig.”, the “9 fig.” would be better stated as “pl. 1: fig. 1–9” or “1 pl.”, since there were seven text-figures (figs 35–41) inside the content too, which
**Table 1.** Bibliographic details of the series "Neue oder wenig bekannte Coleoptera Longicornia" by Aurivillius (1886–1927). AFZ: Arkiv för zoologi; ET: Entomologisk Tidskrift; ICZN: International Code for Zoological Nomenclature.

| Publishing year | Title | Journal name | Volume: page numbers by the journal | Page numbers arranged by Aurivillius | Species numbers | Text-figure numbers (in-side content) | End-plates (separated from content) | Date of submission (on first page) | Released / printed date (on last page) | Came out date (for the volume normally) |
|-----------------|-------|--------------|-------------------------------------|-----------------------------------|----------------|----------------------------------------|-----------------------------------|-------------------------------------|------------------------------------------|------------------------------------------|
| 1886            | Nya Coleoptera Longicornia | ET | 7(2): 89–94. (1–6 concluded herein) | none | 1–5 | none | none | 12 July 1886 |
| 1887            | Nya Coleoptera Longicornia. II. | ET | 8(4): 191–197. (7–14 concluded herein) | none | 6–10 | figs 1–3. | none | 31 Dec. 1887 | 18 June 1891 |
| 1891            | Neue Coleoptera Longicornia. III | ET | 12 (2): 97–106. | 15–24 | 11–20 | figs 1–6. | none | 27 Nov. 1893 |
| 1893            | Neue oder wenig bekannte Coleoptera Longicornia. 4. | ET | 14(3): 177–186. | 25–34 | 21–30 | figs 1–12. | none | 25 May 1893 |

Aurivillius began to arrange continuous page numbers for this series as a whole from the third part in 1891. There were 14 pages for the previous two parts titled "Nya Coleoptera Longicornia", so the third part started on page 15. Though the third part did not use the exact same title, the meaning of the titles were the same.

Aurivillius fixed the title as "Neue oder wenig bekannte Coleoptera Longicornia" from part 4 in 1893, then kept it to the end. In this table, parts 5 to 23 did not repeat the title but only marked the part numbers.

Species number 21 was related to one new genus whose type species was not described by Aurivillius. Later, genera were not numbered again.

1897 5. | ET | 18(4): 241–248. | 35–42 | 31–41 | none | Pl. 3: figs 1–8. | 19 Jan. 1898 |

According to Derksen and Scheiding (1963), the date of publication is 1897. All references we searched and the Titan database (Tavakilian and Chevillotte 2019) used 1897, also the Zoological Record indicated 1897. However, the website https://www.biodiversitylibrary.org/item/89782#page/8/mode/1up indicated that the publication date 19 Jan. 1898. “Utgifvet den 19 januari 1898” (= issued/published on January 19th 1898) (printed low on the back side of the original wrapper) should be the official publication date (personal communication with Mikael Sörensson on 10 December 2019).

1899 6. | ET | 20(4): 259–265. | 51–57 | 42–52 | figs 13–17. | none | 23 Jan. 1900 |

For Aurivillius's own page numbers, the fifth part ended with page 42, while the sixth part began with page 51. That was because Aurivillius gave one page for each figure, therefore eight figures took the pages 43 to 50. The figures inside the sixth part continued the numbers from the fourth part, while the figures in fifth part arranged as a separate plate were not numbered continuously. “Utgifvet den 23 januari 1900” (= issued/published on January 23rd 1900) (printed low on the back side of the original wrapper) should be the official publication date (personal communication with Mikael Sörensson on 10 December 2019). Also the website https://www.biodiversitylibrary.org/item/43633#page/584/mode/1up indicated the publication date as 23 Jan. 1900. We chose 1899 based on the Zoological Record and Derksen and Scheiding (1963).

1902 7. | ET | 23: 207–224. | 59–76 | 53–75 | figs 18–26. | none | 2 Sept. 1902 |

Aurivillius's page number did not have page 58. That was because every new part began with odd numbers. Therefore, when the previous part ended with odd numbers (parts 6, 9, 12, 13, 15, 16, 17, 19, 20, 22), one even number would be taken by an empty page (page numbers 58, 228, 264, 334, 404, 480, 502) or by a separated plate (page numbers 132, 360, 548).

1903 8. | AFZ | 1: 313–328. | Not printed (but should be 77–92 in conclusion) | 76–96 | figs 27–34. | none | 14 Oct. 1903 |

We chose 1903 based on the Zoological Record and Derksen and Scheiding (1963).
| Publishing year | Title | Journal name | Volume page numbers by the journal | Page numbers arranged by Aurivillius | Species numbers | Text-figure numbers (inside content) | End-plates (separated from content) | Date of submission (on first page) | Released / printed date (on last page) | Came out date (for the volume normally) |
|-----------------|-------|--------------|-----------------------------------|-------------------------------------|----------------|--------------------------------------|-------------------------------------|-------------------------------------|----------------------------------------|-------------------------------------|
| 1907            | 9.    | AFZ          | 3(18): 1–39.                      | 93–131                               | 97–155         | pl. 1: figs 35–41.                   |                                     | 15 Sept. 1906                        | 2 Sept. 1907                           | 12 Sept. 1906                         |
| 1908            | 10.   | AFZ          | 4(17): 1–9.                       | 133–141                              | 156–167        | figs 42–47                           | none                                | 11 Mar. 1908                         | 1 May 1908                             | 30 Sept. 1908                        |
| 1910            | 11.   | AFZ          | 7(18): 1–44.                      | 143–186                              | 168–223        | figs 48                              | none                                | 1 June 1910                          | 24 Sept. 1910                         | 25 Jan. 1911                         |
| 1911            | 12.   | AFZ          | 7(19): 1–41.                      | 187–227                              | 224–291        | figs 49–57                           | none                                | 7 June 1911                          | 8 Dec. 1911                           | 23 Dec. 1911                         |
| 1913            | 13.   | AFZ          | 8(22): 1–35.                      | 229–263                              | 292–351        | figs 58–68                           | none                                | 4 June 13                             | 17 Oct. 13                            | 31 Dec. 13                           |
| 1914a           | 14.   | AFZ          | 8(29): 1–54.                      | 265–316                              | 352–453        |                                      | pl. 1: figs 1–9                      | 25 Feb. 1914                         | 9 May 1914                            | 22 May 1914                          |
| 1914b           | 15.   | AFZ          | 9(18): 1–15.                      | 319–333                              | 454–483        |                                      | none                                | 9 Sept. 1914                         | 4 Nov. 1914                           | 15 May 1915                          |
| 1916            | 16.   | AFZ          | 10(19): 1–25.                     | 335–359                              | 484–523        | pl. 1: figs 69–72                    | none                                | 7 June 1916                          | 12 Aug. 1916                          | 28 Nov. 1916                         |
| 1920            | 17.   | AFZ          | 13(9): 1–43.                      | 361–403                              | 523–595        | figs 73–81                           | none                                | 10 Mar. 1920                         | 6 Sept. 1920                          | 11 Oct. 1920                         |
| 1922            | 18.   | AFZ          | 14(18): 1–32.                     | 405–436                              | 596–639        | figs 82–112                          | none                                | 7 Dec. 1921                          | 4 April 1922                         | 26 July 1922                         |

Aurivillius chose the journal AFZ since the eighth part and did not change it again. In this first printing in the AFZ journal, the journal did not include Aurivillius’s own page numbers. But from the ninth part, the AFZ printed both the journal’s page number on top and Aurivillius’s own page number at bottom.

The date of publication of the eighth part is confusing. The printing date on the last page is “Tryckt den 27 november 1903”, so it should be 1903. However, Aurivillius (1912; 1922) cited this part as 1904, and Zoological Record indicated 1904, which making this a confusing situation. We believe that 1903 is the correct publication year, because Aurivillius corrected it to 1903 in his 1923 catalogue. Most authors cite the eighth part as year 1903 (Heffern 2005, but erroneously missed the first page 313; Makihara 1999; Heffern 2011 (corrected and added page 313)).

The correct publication date of the ninth part is surely 1907, and most of authors cited it correctly (Aurivillius 1912, 1922, 1923; Breuning 1944; Gesriott 1951; Podarý 1971; Nakamura et al. 1992; Hüdepohl and Heffern 2004; Heffern 2005, 2011; Makihara and Woro 2002; Morati and Bentanachs 2009; Juhel and Bentanachs 2011, 2012; Nakamura et al. 2014; Yokio and Heffern 2016; Bentanachs and Jiroux 2017; Bezark 2019; Lin and Yang 2019). However, some authors used the submission date of 1906 (e.g., Adlbauer 2002b); while some authors used the year 1908 for unknown reason (e.g. Makihara 1999).

The publication date of the 11th part is confusing. The correct year should be 1910, since on the last page it was printed “Tryckt den 24 september 1910”, Aurivillius himself cited it as 1910 (Aurivillius 1912, 1922, 1923), and the Zoological Record also listed it as 1910. Most authors cited it correctly (Quentin 1956; Podarý 1968; Hüdepohl 1992; Martins 1997, 1998, 2002; Vives and Heffern 2001; Heffern, 2002; 2005; Vives and Abang 2003; Monné 2005a, 2012, 2019a, d; Bouquet et al. 2009; Bentanachs et al. 2010; Gouverneur 2015; Monné and Monné 2015; Viktora 2015b; Bezark 2019; Lin and Yang 2019).

However, some authors used 1911 because the whole seventh volume was published on January 25, 1911 (Napp 1993; Morati and Huet 2004; Löbl and Smetana 2010; Heffern 2011; Viktora and Tichý 2017).

Aurivillius’s own page numbers did not state numbers for separate plates, though when the text ended with odd numbers the even numbers could be considered as numbers for the separate plates. There was not page number for the separate plate of the 14th part, since the text ended with an even number 54 (=318) and the 15th part began with 1 (=319).

The publication date of the 15th part is confusing. According to ICZN 21.2 and 21.8, the correct date should be 1914, since on the last page it was printed “Ttryckt den 4 november 1914”, Aurivillius himself cited it as 1914 (Aurivillius 1922, 1923), and the Zoological Record also included it in 1914. Most authors cited it correctly (Adlbauer 2002; Juhel and Bentanachs 2011; Juhel 2014a).

The publishing year of the 18th part was surely 1922. However, some authors used the submission date 1921 (e.g., Makihara, 1999), or even 1920 for unknown reasons (e.g. Makihara and Woro 2002).
| Publishing year | Title | Journal name | Volume: page numbers by the journal | Page numbers arranged by Aurivillius | Species numbers | Text-figure numbers (inside content) | End-plates (separated from content) | Date of submission (on first page) | Released / printed date (on last page) | Came out date (for the volume normally) |
|-----------------|-------|--------------|-----------------------------------|--------------------------------------|-----------------|-------------------------------------|------------------------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| 1923            | 19(25): 1–43. | AFZ | 437–479 | 640–711 | fig 113–133 | none | 6 June 1923 | 31 Dec. 1923 | Jan. 1924 |

The date of publication of the 19th part is one of the most confusing cases, since different people used different years and for different reasons.

The correct year should be 1923. Many authors used 1923 because of the “Tryckt den 31 december 1923” on the last page (Aurivillius 1928; Breuning 1939, 1944, 1950; Lane 1950; Gressitt and Ron- don 1970; Hüdepohl 1985, 1988, 1992; Makihara 1999; Martins 1999, 2009, 2014; Lingafelter and Hoebke 2002; Hüdepohl and Heffern 2004; Heffern 2005; Makihara and Woro 2002; Monné 2005a, b, 2012, 2019a, b, d; Monné and Napp 2005; Yoko and Niisato 2009; Vives 2011; Monné et al. 2016; Monné and Monné 2017; Bezark 2019).

However, since Zoological Record cited 1924 for this work, so do the Titan database (Tavakilian and Chevillotte 2019). Less than half of authors used 1924 as the publication date (Lee 1987; Hüdepohl 1990; Heffern 2011; Lingafelter et al. 2014; Nakamura et al. 2014; Viktora and Tichý 2016; Vitali et al. 2017; Lin and Yang 2019). The first author of this paper Mei-Ying Lin was confused in this case (chose 1924 in the catalogue by Lin and Yang (2019) and an earlier version of this paper, but finally decided to choose the earlier date of “Tryckt den 31 december 1923”).

For unknown reasons, 1925 was used by Löbl and Smetana (2010) in the Palaearctic catalogue, and this was followed by Viktora (2013), Viktora and Tichý (2017) and Lazarev and Murzin (2019). Makihara and Woro (2002) erroneously used 1922.

| 1925a | 20. | AFZ | 17A(12): 1–21. | 481–501 | 712–753 | fig 134–140 | none | 4 June 1924 | 17 Feb. 1925 |
|-------|-----|-----|----------------|--------|--------|--------|-------|----------------|----------------|

The publication date of the 20th part is 1925, however, some authors wrongly used the submission year 1924 from the first page (e.g., Makihara 1999; Makihara and Woro 2002).

| 1925b | 21. | AFZ | 18A(9): 1–22. | 503–524 | 754–795 | fig 141–163 | none | 3 June 1925 | 17 Nov. 1925 | 1926 |
|-------|-----|-----|----------------|--------|--------|--------|-------|----------------|----------------|

The publication date of the 21st part is also one of the most confusing cases.

We consider 1925 as the correct year for two reasons: a) “Tryckt den 17 november 1925” was printed on the last page, which is the correct year according to ICZN items 21.2 and 21.8; b) Titan database and the following literature used 1925 (Makihara 1999; Martins 1999; Heffern 2005; Monné 2005a, b, 2012, 2019a, b, d; Lin and Yang 2011; Lingafelter et al. 2014; Santos-Silva and Galileo 2016; Sudie, et al. 2016; Bezark 2019; Lin and Yang 2019).

However, both Zoological Record and the Palaearctic catalogue (Löbl and Smetana 2010) used 1926, as did the following (Gressitt 1940, 1951; Bousquet et al. 2009; Heffern 2011; Ślipiński and Es-calona 2013; Lin 2017).

| 1927a | 22 | AFZ | 19A(17): 1–23. | 525–547 | 796–844 | fig 164–177 | pl. 1: figs 1–6 | 1 June 1927 | 20 Sept. 1927 | 3 Nov. 1927 |
|-------|----|-----|----------------|--------|--------|--------|----------------|----------------|----------------|

The publication date of the 22nd part is also one of the most confusing cases.

We consider 1927 as the correct year for two reasons: a) “Tryckt den 21 december 1927” was printed on the last page, which is the correct date according to ICZN items 21.2 and 21.8; b) Titan database also used 1927. The following literature used 1927 (Breuning 1944, 1950, 1956; Hüdepohl 1988; Heffern 2005; Weigel and Skale 2011; Vives 2012, 2015b, 2017; Lingafelter et al. 2014; Nakamura et al. 2014; Wallin et al. 2014; Rousseau et al. 2016; Vitali 2016; Lin and Yang 2019).

However, both Zoological Record and the Palaearctic catalogue (Löbl and Smetana 2010) used 1928, as did the following (Heffern 2011; Lazarev and Murzin 2019). “utkom 25. jan. 1928” was printed on the wrapper. We chose the earlier date based on ICZN item 21.8.
might cause misunderstanding. Sometimes the separate end-plate was missing in the reference (Monné 2005a, 2005b; Vives 2009; Lingafelter et al. 2014; Monné 2019a, 2019b, 2019d; Monné et al. 2016, missing the plate when citing part 16; Monné 2019a, 2019b, 2019d missing the plate when citing part 22).

b) Errors regarding part numbers. Sometimes authors cited the title without the part numbers (Hüdepohl 1985; Martins 1998; Nylander 1998; Jiroux 2011; Juhel and Bentanachs 2011; Vives 2011; Monné et al. 2012; Juhel 2014a; Wallin et al. 2014; Ślipiński and Escalona 2016; Bezark 2019 for the second and third part), which is an incomplete citation. Sometimes authors made mistakes on the part numbers (for example, Hüdepohl (1992) wrote part 11 incorrectly as 2; Makihara (1999) wrote part 21 while the journal’s information indicates part 22; Vives (2009) wrote part 21–22 while the journal’s information indicate part 22, and he used the figure numbers as page numbers). Some authors mixed different parts together, such as Martins (2011) mixing part 13 and 15 together as “13. Arkiv Zool. 9(8): 229–263“, while the journal’s volume 9(8) belongs to part 15, not part 13.

c) Errors regarding first and last page numbers. Sometimes the first page number was missing (Heffern 2005, missing page 313 of part 8), or last page number was missing (Lingafelter and Hoebeke 2002, missing page 224 of part 7, and missing part 7 from the title too; Sudre et al. 2010, missing last 23 pages of part 12; Juhel and Bentanachs 2011, 2012, missing page 39 = 131 of part 9; Juhel 2016, missing page 54 = 318 of part 14), or adding one more page (for example, Martins 1997, 1998, 2002, 2005; Monné 2005a, b, 2012; Monné and Monné 2015 and Bezark 2019, added 187 to part 11; Vives 2015d, Yan and Chen 2016 and Lazarev and Murzin 2019, added 228 to part 12). Adding 187 to part 11 is an error that should be corrected, because 187 is the first page number of part 12.

d) Errors regarding about journal volume numbers. Sometimes the volume numbers of the journal were wrongly cited. For example, Podaný (1971) wrote 3 (10) for part 9, while the correct number should be 3 (18); Bentanachs et al. (2010) wrote 7(2) for part 11, while the correct number should be 7 (3); Ohbayashi and Niisato (2007) wrote volume 21 for part 7, while the correct volume number should be 23.

e) Other errors. Some authors cited the figure numbers as page numbers (Vives 2009, 2011), or cited the part number as page number (Löbl and Smetana 2010; Lin 2015, 2017; see fig. 4), or cited page numbers erroneously for unknown reasons (Vives and Abang 2003).

Examples of other types of errors

Nakamura et al. (2014) and Lin (2017) cited part 23 twice in the same paper or book, they used the journal’s page numbers and Aurivillius’s own numbers in different places in the same publication, and used different years for the same part 23, which made part 23 look like two different articles. Hence, they made mistakes for citations of related taxa. Nakamura et al. (2014) used 1928 for the genus Mimectatina in the title, while the origi-
Neue oder wenig bekannte Coleoptera
Longicornia.

von

CHR. AURIVILLIUS.

Mit 30 Abbildungen im Text.

Vorgelegt am 7 Dezember 1921.

Die Mehrzahl der hier beschriebenen Formen stammen aus Borneo und den Philippinen und wurden mir von Ch. F. Baker zur Bestimmung und Bearbeitung gesandt. Es findet sich darunter mehrere sehr interessante «mimetische» Formen und andere, welche die philippinische Cerambycidena-Fauna mit derjenigen der Sunda-Inseln verbindet.

Besonders unter den Clytiden sind mehrere der alten Arten nicht mit Sicherheit nach den Beschreibungen zu deuten; um solche Unsicherheit für die Zukunft zu vermeiden habe ich die Mehrzahl der neuen Arten abbilden lassen und bin dem Intendanten der entomologischen Abteilung, Professor Y. Sjöstedt, für die Herstellung der Originalfiguren besonders dankbar.

Cerambycinae.

Ischionorox nov. gen.
(Cerambycini oder Asemini).

Femina: Mandibulae subverticales, apice curvatae, obtusae, simplices. — Palporum articulus ultimus apice dilatatus. —

Arkiv für zoologi. Bd 14. No 18.

Page number arranged by Aurivillius
Figure 2. Second page of part 18, showing the species number, journal's page number and Aurivillius's page number.
elongatum; episterna postice acuminata. — Coxae posticae magnae, oblique positae, anticae fere continguae. — Processus intercoxalis abdominis acutus, immersus. — Femora mediocria, postica apicem segmenti 4:i abdominis vix attingentia. — Tibiae intermediae et posticae curvati. — Tarsi elongati infra spongiosi; articulus primus 2:o et 3:o simul sumtis haud brevier; quartus apice incrassatus.

Die Verwandtschaft dieser merkwürdigen Gattung ist mir nicht klar. Sie erinnert jedoch an gewissen Amphionychiden und Aereneiciden.

species number
639. Didymonycha singularis n. sp. — Fig. 111, 112. — Nigrifusca, pubis griseo-sericea vestita; caput et pronotum rufa, hoc fascia laterali ad basin distinctiore albo-sericea et margine basali nigro ornatum; elytra seriatim breviter nigro-setosa. Long. corporis 11 mm.

Peru: Puna (KINBERG). — Reichsmuseum in Stockholm. Nach einem einzigen, alten, während der Expedition der Fregatte Eugenie angeblich bei Puna erbeutenen Stücke beschrieben.

ending mark

released date
Tryckt den 4 april 1922.

Uppsala 1922. Almqvist & Wiksell’s Boktryckeri A.-B.

Figure 3. Last page of part 18, showing the species number, figure numbers, ending mark, release date, journal’s page number and Aurivillius’s page number.
Aurivillius' correct years of publications and page numbers

Aurivillius' correct years of publications and page numbers

123

nal article they used Aurivillius 1927: 27, then type species was written as *Mimectatina singularis* Aurivillius, 1928. Nakamura et al. (2014) variably used 1928 and 1927 in their authorship date for *Mimectatina*, causing confusion. And Nakamura et al. (2014) used the journal page number for the detailed taxon citation “Cataphrodisium: Aurivillius: 8”, while in the reference they used Aurivillius’s own page numbers “93–131”, which were incorrect. Nakamura et al. (1992) used 1927 for the type species *Mimectatina singularis* and 1928 for the genus *Mimectatina*. Lin (2017) used 1927 and Aurivillius’s page numbers for the genus *Mimectatina* (writing “*Mimectatina* Aurivillius, 1927: 575”), which should be corrected to “*Mimectatina* Aurivillius, 1927: 27 (= 575)”), then used 1928 and the journal’s page numbers for the genus *Parenes* (Fig. 4, writing “*Parenes* Aurivillius, 1928c: 23”, which was copied from Löbl and Smetana (2010) and should be corrected to “*Parenes* Aurivillius, 1927: 29 (= 577)”), wrongly treating the same paper as two separate articles.

**Figure 4.** page 29 of part 23, showing the part number, species number, journal’s page number and Aurivillius’s page number, and four cases of wrong citation.
Discussion

Date of publication we chose

The dates of publication of this series of work contain several confusing cases; the detailed information is shown in Table 1. For parts 5 and 6, we chose the earlier date indicated by the Zoological Record and Derksen and Scheiding (1963), instead of the later date printed low on the back side of the original wrapper, based on IZCN 21.8.1. For parts 11 and 15, we chose the earlier date printed on the last page and indicated by Zoological Record, instead of the later date indicated by the journal, also based on IZCN 21.8.1. For parts 19, 21 and 23, we chose the earlier date printed on the last page, instead of the later date indicated by Zoological Record and the journal, also based on IZCN 21.8.1, Before 2000, an author who distributed separates in advance of the specified date of publication of the work in which the material was published thereby advanced the date of publication.

When we talk about “distribute reprints in advance” in Aurivillius's cases, the authors mean distribute the reprints after the printing date (“tryckt den XX YY 19ZZ”) but before the distribute date of the publisher (either printed on the wrapper, normally for the whole volume, or date applied subsequently by the Zoological Record).

Why the journal page numbers should be used

For parts 8 to 23 of Aurivillius's works, the reasons that the journal page numbers should be used include: 1) the works were first officially published in the journal; 2) the large book titled “Neue oder wenig bekannte Coleoptera Longicornia” does not exist; 3) Aurivillius himself used the journal page numbers instead of his own page numbers (Aurivillius 1912, 1922, 1923, 1928); 4) if Aurivillius’s own page numbers were chosen, the results are chaotic since the numbers continued between different journals, different years, and additionally, some parts were missing (Table 1: pages 1–14 and 77–92 were not printed); 5) if Aurivillius’s own page numbers were chosen, logically there should be pages preceding them in the same volume. For example, considering “Arkiv för zoologi 13(9): 361–403” instead of “Arkiv för zoologi 13(9): 1–43”, logically there should exist “Arkiv för zoologi 13(9): 1–360” (or “Arkiv för zoologi 13: 1–360”), but this is not the case.

How to identify which page number was the journal’s page number

1) the page number was printed on the upper left corner (of even pages) or the upper right corner (of odd pages), which was the style of the journal “Arkiv för zoologi” (Aurivillius 1917, 1919, 1925a, 1925b, 1926), except the first page normally appeared on the lower right corner; 2) each part of each volume was numbered from one, which was also the style of journal “Arkiv för zoologi” at that time (Aurivillius 1917, 1919, 1925a, 1925b, 1926).
Aurivillius’s own numbers might be chosen for the following reasons

1) it was the choice of the Titan database (Tavakilian and Chevillotte 2019), which is the most exhaustive Cerambycidae database; 2) larger sized numbers appear more important (for some reasons), for parts 3 to 7, which also had two page numbers printed, all were cited with the correct journal’s page numbers, because they are larger than Aurivillius’s own page numbers (such as Wappes et al. 2011; Ślipiński and Escalona 2016; Souza 2016; Tavakilian and Chevillotte 2019); 3) page numbers on the mid-bottom are more noticeable than page numbers on upper left corner (of even pages) or upper right corner (of odd pages); 4) works were reprinted with the smaller page numbers even though they were originally from a book or journal with the larger page numbers; realizing this subsequent workers may have chosen the larger numbers; 5) to follow author’s citing Aurivillius’s own page numbers.

The trend

From Fig. 5 we can see that more than half of authors used Aurivillius’s page numbers instead of the journal’s page numbers. However, from Fig. 6 we can see that more authors used the journal’s page numbers than Aurivillius’s page numbers before the year 2000, while most authors used Aurivillius’s page numbers after the year 2000. Analyzing the references in more detail (Fig. 7), we can see that all authors before 1990 used the journal’s page numbers, while more and more authors used Aurivillius’s page numbers after 1991. The reasons for this trend might include: a) young authors did not know the history and might choose the bottom page numbers by the first glance; b) many current authors use the Titan database and copy the information from the website.

**Figure 5.** Ratios of different ways to cite Aurivillius’s series of works from 1912 to 2019.
Correct citation of Aurivillius’s works

Based on the above analyses, we suggest that in the future authors cite the work of Aurivillius as follows: the journal page number must be included, Aurivillius’s page numbers might be included inside square brackets [] or not included, the internal figure numbers (text-figures) can be included or not, while the supplemental information for the end-plates must be included.
Aurivillius, C. (1886) Nya Coleoptera Longicornia. Entomologisk Tidskrift 7(2): 89–94.
Aurivillius, C. (1887) Nya Coleoptera Longicornia. II. Entomologisk Tidskrift 8(4): 191–197. figs 1–3.
Aurivillius, C. (1891) Neue Coleoptera Longicornia. III. Entomologisk Tidskrift 12(2): 97–106 [=pp. 15–24], figs 1–6.
Aurivillius, C. (1893) Neue oder wenig bekannte Coleoptera Longicornia. 4. Entomologisk Tidskrift 14 (3): 177–186 [=pp. 25–34], figs 1–12.
Aurivillius, C. (1897) Neue oder wenig bekannte Coleoptera Longicornia. 5. Entomologisk Tidskrift 18 (4): 241–248 [=pp. 35–42], pl. 3: figs 1–8.
Aurivillius, C. (1899) Neue oder wenig bekannte Coleoptera Longicornia. 6. Entomologisk Tidskrift 20 (4): 259–265 [=pp. 51–57], figs 13–17.
Aurivillius, C. (1902) Neue oder wenig bekannte Coleoptera Longicornia. 7. Entomologisk Tidskrift 23: 207–224 [=pp. 59–76], figs 18–26.
Aurivillius, C. (1903) Neue oder wenig bekannte Coleoptera Longicornia. 8. Arkiv för zoologi 1: 313–328, figs 27–34.
Aurivillius, C. (1907) Neue oder wenig bekannte Coleoptera Longicornia. 9. Arkiv för zoologi 3(18): 1–39 [=pp. 93–131], pl. 1: figs 1–9; figs 35–41.
Aurivillius, C. (1908) Neue oder wenig bekannte Coleoptera Longicornia. 10. Arkiv för zoologi 4(17): 1–9 [=pp. 133–141], figs 42–47.
Aurivillius, C. (1910) Neue oder wenig bekannte Coleoptera Longicornia. 11. Arkiv för zoologi 7(3): 1–44 [=pp. 143–186], fig. 48.
Aurivillius, C. (1911) Neue oder wenig bekannte Coleoptera Longicornia. 12. Arkiv för zoologi 7(19): 1–41 [=pp. 187–227], figs 49–57.
Aurivillius, C. (1913) Neue oder wenig bekannte Coleoptera Longicornia. 13. Arkiv för zoologi 8(22): 1–35 [=pp 229–263], figs 58–68.
Aurivillius, C. (1914a) Neue oder wenig bekannte Coleoptera Longicornia. 14. Arkiv för zoologi. Uppsala 8(29): 1–54 [=pp. 265–318], pl. 1: figs 1–9.
Aurivillius, C. (1914b) Neue oder wenig bekannte Coleoptera Longicornia. 15. Arkiv för zoologi 9(8): 1–15 [=pp. 319–333].
Aurivillius, C. (1916) Neue oder wenig bekannte Coleoptera Longicornia. 16. Arkiv för zoologi 10(19): 1–25 [=pp. 335–359], pl. 1: figs 1–9; figs 69–72.
Aurivillius, C. (1920) Neue oder wenig bekannte Coleoptera Longicornia. 17. Arkiv för zoologi 13(9): 1–43 [=pp. 361–403], figs 73–81.
Aurivillius, C. (1922) Neue oder wenig bekannte Coleoptera Longicornia. 18. Arkiv för zoologi 14(18): 1–32 [=pp. 405–436], figs 82–112.
Aurivillius, C. (1923) Neue oder wenig bekannte Coleoptera Longicornia. 19. Arkiv för zoologi 15(25): 1–43 [=pp. 437–479], figs 113–133.
Aurivillius, C. (1925a) Neue oder wenig bekannte Coleoptera Longicornia. 20. Arkiv för zoologi 17A(12):1–21 [=pp. 481–501], figs 134–140.
Aurivillius, C. (1925b) Neue oder wenig bekannte Coleoptera Longicornia. 21. Arkiv för zoologi 18A(9):1–22 [=pp. 503–524], figs 141–163.
Aurivillius, C. (1927a) Neue oder wenig bekannte Coleoptera Longicornia. 22. Arkiv för zoologi 19A(17): 1–23 [=pp. 525–547], pl. 1: figs 1–6; figs 164–177.
Aurivillius, C (1927b) Neue oder wenig bekannte Coleoptera Longicornia. 23. Arkiv för zoologi 19A(23): 1–41 [=pp. 549–589], figs 178–202.

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Supplementary material I

Discussions and evidences
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