Eocene Cixiidae (Hemiptera: Fulgoromorpha) of Europe

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First notion of fossil Cixiidae from the Eocene, given by Burmeister (1832), the first formal taxa descriptions comes from Germar & Berendt (1856).

Few more genera and species were added by subsequent authors (Gebicki & Szewko 2006; Szewko 2002, 2003, 2007; Szewko & Stołowski 2003, Szewko et al. 2006).

The earliest, terminal Paleocene (96 Ma) record of the family is Winista arvernianus Szewko, Bourguin & Letebre, 2006 — from Monat, France. It is the tribe Mesohipomysini (Calnina). Unidentifiable Cixiidae (Mesohipomysini and Pentastirini) were found among imprint of coal of Fur Formation of Jutland, Denmark (82 Ma).

Three species are known from the Lowermost amber of Gota, France (53 Ma), all of them represent the tribe Mesohipomysini (Szewko et al. 2006).

The richest data come from the Baltic amber from Gulf of Gdańsk area. Unfortunately, the type material of Germar & Berendt is lost, and the placement of "Cixia" (Bacteropus Germar & Berendt, 1856, "Cixia" gracilis Germar & Berendt, 1856, "Cixia" nucicorns Germar & Berendt, 1856) remains doubtful. Some other taxa ascribed to them by this genus are now placed to other families — Achilidae and Tropiduchidae.

More species described after, represent the tribes Cixiini, Pentastirini and Mesohipomysini. Single species of subfamily Bothriocricinae, recently linked to the tropical and subtropical zone of the new world was described so far, but more specimens were just identified. Some more specimens of Cixiineae were also found among inclusions of the Baltic amber from the deposits of Pomorska, Poland and Bitterfeld, Germany. The Baltic amber from these localities are aged 47-45 Ma.

The terminal Eocene deposits of Bembridge marl, Isle of Wight, UK, aged 34 Ma preserved several specimens of Cixiidae. The new taxa found there represent subfamily Bothriocriinae (the last record of them in the Old World), and Cixiinae Mesohipomysini, Pentastirini, Cixiini and first fossil record of Pentastirini.

Subfam. Bothriocriinae
- Bothriocricus gigas (Germar et Berendt, 1856)
- Glossocheira senckenbergi Szewko, 2007
- Kulikuchmi jantari Gebicki & Szewko, 2000

Subfam. Cixiinae
- Tribe Cixiini
  - Bothriocricus gigas (Germar et Berendt, 1856)
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Tribe Mesohipomysini
- Autocranopsis semicerata Szewko, 2004
- Mesohipomys behavator Szewko, Bourguin & Letebre, 2006
- Mesohipomys arvernianus Szewko, Bourguin & Letebre, 2006
- Stelilis jantari Szewko, Bourguin & Letebre, 2006
- Stelilis vermorsudator Szewko, Bourguin & Letebre, 2006

Tribe Pentastirini
- Perikus sudiorum (Szewko & Stołowski, 2003)
- Perikus bradorum (Szewko & Stołowski, 2003)
- "Cixia" gracilis Germar & Berendt, 1856
- "Cixia" nucicorns Germar & Berendt, 1856
- "Cixia" nebula Germar & Berendt, 1856