

# MOTH FLIES (DIPTERA: PSYCHODIDAE) FROM THE BELGIAN TRANSITION OF THE ATLANTIC TO THE CENTRAL EUROPEAN FAUNAL ZONES

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## ABSTRACT

Several thousand specimens conserved in ethanol belonging to 33 species were found at two Belgian localities: Ottignies and Wanze, two sites in the transition zone of the Atlantic to the Central European faunal zones. 12 species are classified as new for this country: *Jungiella* (*Jungiella*) *hygrophila* Ježek, 1987, *Panimerus denticulatus* Krek, 1971, *Paramormia* (*Paramormia*) *polyascoidea* (Krek, 1971), *Apsycha pusilla* (Tonnoir, 1922), *Coprotychoda brevicornis* (Tonnoir, 1940), *Logima satchelli* (Quate, 1955), *Logima sigma* (Kincaid, 1988), *Logima zetterstedti* Ježek, 1983, *Psychoda uniformata* Haseman, 1907, *Tinearia lativentris* (Berdén, 1952), *Clytocerus* (*Boreoclytocerus*) *longicorniculatus* Krek, 1987, and *Clytocerus* (B.) *splendidus* Ježek & Hájek, 2007. An updated checklist of the Psychodidae of Belgium is added: 80 so far known species were elevated to 92.

## KEYWORDS

*Phlebotominae*, *Psychodinae*, *Sycoracinae*, *Trichomyiinae*, checklist, Belgium, faunistic data, new records

## INTRODUCTION

Adequately and regularly collected material of aquatic invertebrates by traps installed in different European countries is always very interesting. Modern catching methods are very useful for faunistic research. The Palaearctic catalogue of nonbiting moth flies (WAGNER 1990) shows 30 species described by TONNOIR (1919a, b, 1920a, b, 1922a, b and 1940), however, not always from Belgium. In the original descriptions, type localities were often only quoted as 'Belgium' without additional details. From the subfamily Phlebotominae only one species is recently reported from Belgium (DEPAQUIT et al. 2005). Relatively recent psychodid papers are DE MEYER (1991), VERHEGGEN et al. (2008) and BOUMANS et al. (2009). A preliminary checklist of Psychodidae of Belgium on the basis of the above mentioned papers and our results (33 species identified) resulted in 92 species including 12 species new for Belgium.

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## MATERIAL AND METHODS

The moth flies were collected by Malaise traps in 1981 and 1982 in two localities: Ottignies (P. Dessart leg., Royal Belgian Institute of Natural Sciences, Brussels) and Wanze (R. Detry leg., same). Both locations are situated approximately in the centre of Belgium in the transition of the Atlantic to the Central European faunal zones: Ottignies-Louvain-la-Neuve in the River Dyle catchment, 116 m a.s.l., 50°39'N, 4°35'E, Province of Brabant Walloon. The trap was placed along the river Dyle. The second trap was operated in Wanze near Huy, in a garden in the River La Mehaigne catchment, 72 m a.s.l., 50°32'N, 5°13'E, Province of Liège. The captured moth flies were preserved in 75 % ethanol in the field and subsequently selected, cleared in chloralphenol, treated in xylol, determined by the first author and mounted on 526 glass slides in Canada balsam in Prague. The voucher specimens as well as undetermined spirituous doublets are deposited in the Royal Belgian Institute of Natural Sciences in Brussels. The observations were made using Carl Zeiss Jena (Germany) and Reichert (Austria) microscopes. The nomenclature was modified from VAILLANT (1971-1983), JEŽEK (1984), DUCKHOUSE (1990), KVIFTE (2014) and WAGNER (1990, 2018) using the classifications of JEŽEK & VAN HARTEN (2005, 2009), JEŽEK (2007), OMELKOVÁ & JEŽEK (2012), OBOŇA & JEŽEK (2014) and KROČA & JEŽEK (2015). Information on the distribution is given for those species recorded from Belgium for the first time. The following abbreviations are used: F – female; M – male.

## RESULTS

### 1. *Mormia* Enderlein, 1935

*Mormia revisenda* (Eaton, 1893)

**Material: Ottignies: 1982:** M, 8.-15.v.

**Distribution:** Few countries in Europe.

*Jungiella* Vaillant, 1972

*Jungiella* s. str.

### 2. *Jungiella* (*Jungiella*) *hygrophila* Ježek, 1987

**Material: Ottignies: 1981:** M, 5.-12.ix.

**Distribution:** Probably a Central European species, uncommon, known only from the Czech Republic, Poland, Slovakia and Ukraine (JEŽEK 1987, JEŽEK & OMELKOVÁ 2012, OBOŇA & JEŽEK 2014, JEŽEK et al. 2017, WAGNER 2018). **First record for Belgium.**

*Lepiseodina* Enderlein, 1937

### 3. *Lepiseodina rothschildi* (Eaton, 1912)

**Material: Ottignies: 1982:** M, 5.-12.vi.

**Distribution:** Few countries in Europe.

*Panimerus* Eaton, 1913

4. *Panimerus denticulatus* Krek, 1971

**Material:** **Ottignies: 1981:** M, 6.-12.vi.

**Distribution:** A locally common species, known from several European countries: Austria, Bosnia and Herzegovina, Czech Republic, Great Britain, Greece, Ireland and Macedonia (OMELKOVÁ & JEŽEK 2012). **First record for Belgium.**

*Paramormia* Enderlein, 1935

*Paramormia* s. str.

5. *Paramormia (Paramormia) polyascoidea* (Krek, 1971)

**Material:** **Ottignies: 1982:** M, 3.-10.vii.

**Distribution:** This is a common European and West Siberian species known from Austria, Bosnia and Herzegovina, Czech Republic, Estonia, Finland, Germany, Poland, Abkhazia, Armenia and Russia (Novosibirsk region) (SALMELA & PIIRAINEN 2005, JEŽEK & OMELKOVÁ 2012, SALMELA et al. 2014, JEŽEK et al. 2018). **First record for Belgium.**

*Trichopsychoda* Tonnoir, 1922

6. *Trichopsychoda hirtella* (Tonnoir, 1919)

**Material:** **Ottignies: 1981:** M, 9.-16.v.; M, 23.-30.v.; F, 30.v.-6.vi.; M, 6.-12.vi.; M, 13.-22.vi.; F, 20.-27.vi.; F, 27.vi.-4.vii.; F, 4.-11.vii.; M, 11.-18.vii.; M, 18.-25.vii.; F, 25.vii.-1.viii.; F, 22.-29.viii.; M, 29.viii.-5.ix.; F, 5.-12.ix.; F, 12.-19.ix.; **1982:** F, 5.-12.vi.; F, 3.-10.vii.; M, 17.-24.vii.; M, 27.vii.-3.viii.; M, 23.viii.-4.ix.; M, 3.-10.ix.; F, 18.-25.ix.

**Distribution:** A common European species.

*Apsycha* Ježek, 2007

7. *Apsycha pusilla* (Tonnoir, 1922)

**Material:** **Ottignies: 1981:** M, 26.ix.-3.x.; **Wanze: 1982:** M, 11.-18.vii.; M, 8.-15.viii.

**Distribution:** Species mainly found in cow-sheds, therefore overlooked, previously only recorded from the USA, Czech Republic, Poland, the Netherlands, and Slovakia (JEŽEK 2007, OBOŇA & JEŽEK 2014). **First record for Belgium.**

*Chodopsycha* Ježek, 1984

8. *Chodopsycha lobata* (Tonnoir, 1940)

**Material:** **Ottignies: 1981:** F, 9.-16.v.

**Distribution:** A very common European species, also known from Transcaucasia.

*Copropsychoda* Vaillant, 1971

9. *Copropsychoda brevicornis* (Tonnoir, 1940)

**Material:** **Ottignies: 1981:** F, 11.-18.iv.; F, 22.-29.viii.; M, 10.-17.x.; **Wanze: 1982:** M, 30.v.-6.vi.; F, 4.-11.vii.; F, 25.vii.-1.viii.

**Distribution:** A Western Palaearctic distribution. Known from Great Britain, France, Germany, Ireland, the Netherlands, and Norway (WAGNER 2018). **First record for Belgium.**

10. *Logima* Eaton, 1904*Logima albipennis* (Zetterstedt, 1850)

**Material:** **Ottignies: 1981:** F, 18.-25.i.; F, 24.-31.i.; F, 1.-7.ii.; F, 7.-14.iii.; F, 14.-21.iii.; F, 21.-28.iii.; F, 28.iii.-4.iv.; F, 5.-12.iv.; F, 11.-18.iv.; F, 25.iv.-2.v.; F, 2.-9.v.; F, 9.-16.v.; F, 23.-30.v.; F, 30.v.-6.vi.; F, 6.-12.vi.; F, 13.-22.vi.; F, 20.-27.vi.; F, 27.vi.-4.vii.; F, 4.-11.vii.; F, 11.-18.vii.; F, 18.-25.vii.; F, 25.vii.-1.viii.; F, 22.-29.viii.; F, 29.viii.-5.ix.; F, 5.-12.ix.; F, 19.-26.ix.; F, 26.ix.-3.x.; F, 3.-10.x.; F, 10.-17.x.; F, 17.-24.x.; F, 24.-31.x.; F, 1.-7.xi.; F, 7.-14.xi.; F, 14.-27.xi.; F, 28.xi.-5.xii.; **1982:** F, 8.-15.v.; F, 15.-22.v.; F, 22.-29.v.; F, 5.-12.vi.; F, 3.-10.vii.; F, 17.-24.vii.; F, 27.vii.-3.viii.; F, 23.viii.-4.ix.; F, 18.-25.ix.; F, 25.ix.-2.x.; F, 30.x.-6.xi.; F, 27.xi.-4.xii.; F, 4.-11.xii.; **Wanze: 1982:** F, 23.-30.v.; F, 6.-13.vi.; F, 13.-20.vi.; F, 20.-27.vi.; F, 22.vi.-4.vii.; F, 4.-11.vii.; F, 11.-18.vii.; F, 18.-25.vii.; F, 15.-22.viii.; F, 22.-29.viii.

**Distribution:** A cosmopolitan species.

11. *Logima erminea* (Eaton, 1893)

**Material:** **Ottignies: 1981:** F, 7.-14.iii.; M, 28.iii.-4.iv.; F, 11.-18.iv.; M, 18.-25.iv.; M, 2.-9.v.; M, 9.-16.v.; F, 23.-30.v.; M, 30.v.-6.vi.; F, 6.-12.vi.; F, 13.-22.vi.; F, 20.-27.vi.; F, 27.vi.-4.vii.; M, 4.-11.vii.; F, 11.-18.vii.; M, 18.-25.vii.; M, 25.vii.-1.viii.; F, 22.-29.viii.; M, 29.viii.-5.ix.; M, 5.-12.ix.; F, 12.-19.ix.; M, 19.-26.ix.; F, 26.ix.-3.x.; M, 3.-10.x.; F, 10.-17.x.; M, 17.-24.x.; M, 24.-31.x.; M, 1.-7.xi.; F, 7.-14.xi.; M, 28.xi.-5.xii.; **1982:** M, 8.-15.v.; M, 22.-29.v.; F, 5.-12.vi.; M, 3.-10.vii.; M, 17.-24.vii.; M, 27.vii.-3.viii.; F, 23.viii.-4.ix.; M, 3.-10.ix.; M, 18.-25.ix.; M, 25.ix.-2.x.; M, 30.x.-6.xi.; F, 27.xi.-4.xii.

**Distribution:** Common Palaearctic species.

12. *Logima satchelli* (Quate, 1955)

**Material:** **Ottignies: 1981:** F, 7.-14.ii.; M, 14.-21.iii.; M, 21.-28.iii.; M, 28.iii.-4.iv.; M, 5.-12.iv.; F, 11.-18.iv.; F, 18.-25.iv.; M, 25.iv.-2.v.; F, 2.-9.v.; F, 9.-16.v.; M, 23.-30.v.; F, 30.v.-6.vi.; F, 6.-12.vi.; M, 13.-22.vi.; F, 20.-27.vi.; F, 27.vi.-4.vii.; M, 11.-18.vii.; F, 25.vii.-1.viii.; M, 22.-29.viii.; F, 29.viii.-5.ix.; F, 5.-12.ix.; F, 12.-19.ix.; F, 19.-26.ix.; M, 26.ix.-3.x.; M, 10.-17.x.; F, 17.-24.x.; M, 24.-31.x.; F, 1.-7.xi.; F, 14.-27.xi.; F, 21.-28.xi.; **1982:** M, 15.-22.v.; F, 22.-29.v.; F, 5.-12.vi.; F, 3.-10.vii.; F, 17.-24.vii.; F, 27.vii.-3.viii.; F, 3.-10.ix.; F, 18.-25.ix.; F, 25.ix.-2.x.; M, 30.x.-6.xi.; M, 27.xi.-4.xii.; **Wanze: 1982:** F, 23.-30.v.; F, 30.v.-6.vi.; F, 6.-13.vi.; F, 22.vi.-4.vii.; F, 25.vii.-1.viii.; F, 15.-22.viii.

**Distribution:** This is a common Holarctic species. In Europe known from Austria, Czech Republic, Ireland, Italy, Norway, Russia, Slovakia, Slovenia, Sweden, the Netherlands, Ukraine and former Yugoslavia; outside Europe from Azerbaijan, Canada and the USA (JEŽEK & GOUTNER 1995, SVENSSON 2009, KVIFTE et al. 2011, JEŽEK et al. 2017, 2018). **First record for Belgium.**

13. *Logima sigma* (Kincaid, 1899)

**Material:** **Ottignies: 1981:** F, 21.-28.iii.; F, 11.-18.iv.; F, 25.iv.-2.v.; F, 2.-9.v.; M, 27.vi.-4.vii.; M, 22.-29.viii.; F, 29.viii.-5.ix.; F, 19.-26.ix.; M, 1.-7.xi.; **1982:** F, 30.x.-6.xi.; M, 27.xi.-4.xii.; F, 4.-11.xii.

**Distribution:** Uncommon Holarctic species. Recorded from Austria, Czech

Republic, France, Great Britain, Norway, Poland, Spain (incl. Madeira); Antipodes Is., Auckland L. (lake or lakes), Australia, Campbell L., Chile, Enderby L., Ewing L., French L., Macquarie L., New Zealand, Ocean L., Rose L., Saint Helena, USA (ANDERSEN & HÅLAND 1995, JEŽEK 2003, KVIFTE et al. 2011, KVIFTE & ANDERSEN 2012, ELGUETA & JEŽEK 2014, HASELBOECK 2016, WAGNER 2018). **First record for Belgium.**

14. *Logima zetterstedti* Ježek, 1983

**Material: Ottignies: 1981:** F, 5.-12.iv.; F, 27.vi.-4.vii.; F, 12.-19.ix.; F, 24.-31.x.; M, 28.xi.-5.xii.; **1982:** M, 4.-11.xii.

**Distribution:** Common European and Western Siberian species recorded from Great Britain, Slovenia and the Netherlands (WAGNER 2018). **First record for Belgium.**

*Psycha* Ježek, 1984

15. *Psycha grisescens* (Tonnoir, 1922)

**Material: Ottignies: 1981:** F, 21.-28.iii.; M, 28.iii.-4.iv.; F, 5.-12.iv.; F, 11.-18.iv.; F, 18.-25.iv.; F, 2.-9.v.; F, 9.-16.v.; F, 23.-30.v.; F, 30.v.-6.vi.; F, 6.-12.vi.; F, 11.-18.vii.; F, 25.vii.-1.viii.; F, 5.-12.ix.; F, 19.-26.ix.; F, 3.-10.x.; F, 10.-17.x.; M, 24.-31.x.; F, 1.-7.xi.; M, 7.-14.xi.; F, 14.-27.xi.; **1982:** F, 3.-10.iv.; F, 8.-15.v.; F, 27.xi.-4.xii.; **Wanze: 1982:** F 20.-27.vi.

**Distribution:** A species from Europe and North Africa.

*Psychoda* Latreille, 1796

16. *Psychoda phalaenoides* (Linnaeus, 1758)

**Material: Ottignies: 1981:** F, 28.iii.-4.iv.; F, 5.-12.iv.; M, 11.-18.iv.; F, 18.-25.iv.; F, 25.iv.-2.v.; M, 2.-9.v.; F, 9.-16.v.; F, 23.-30.v.; F, 30.v.-6.vi.; M, 6.-12.vi.; F, 13.-22.vi.; F, 20.-27.vi.; M, 27.vi.-4.vii.; F, 4.-11.vii.; F, 11.-18.vii.; M, 18.-25.vii.; F, 25.vii.-1.viii.; F, 22.-29.viii.; F, 29.viii.-5.ix.; F, 5.-12.ix.; F, 12.-19.ix.; F, 19.-26.ix.; M, 26.ix.-3.x.; F, 3.-10.x.; M, 10.-17.x.; M, 17.-24.x.; M, 24.-31.x.; M, 1.-7.xi.; M, 7.-14.xi.; M, 14.-27.xi.; **1982:** F, 3.-10.iv.; F, 8.-15.v.; F, 15.-22.v.; F, 22.-29.v.; F, 5.-12.vi.; F, 3.-10.vii.; F, 27.vii.-3.viii.; F, 23.viii.-4.ix.; F, 30.x.-6.xi.; M, 27.xi.-4.xii.; F, 4.-11.xii.; **Wanze: 1982:** F, 23.-30.v.; M, 30.v.-6.vi.; F, 6.-13.vi.; M, 13.-20.vi.; F, 20.-27.vi.; M, 22.vi.-4.vii.; M, 4.-11.vii.; M, 11.-18.vii.; M, 18.-25.vii.; F, 25.vii.-1.viii.; F, 15.-22.viii.; F, 22.-29.viii.; M, 29.viii.-5.ix.

**Distribution:** A very common Holarctic species.

17. *Psychoda uniformata* Haseman, 1907

**Material: Ottignies: 1981:** F, 25.vii.-1.viii.

**Distribution:** This is a Holarctic species, recorded from Europe (Austria, Czech Republic, Italy, Slovakia, Slovenia and Greece), Armenia, Turkey, Iran, Israel, Mongolia, Morocco and the USA (JEŽEK & OMELKOVÁ 2012, OBOŇA & JEŽEK 2014, AFZAN & BELQAT 2016, JEŽEK et al. 2018). **First record for Belgium.**

*Psychodocha* Ježek, 198418. *Psychodocha cinerea* (Banks, 1894)

**Material:** **Ottignies: 1981:** F, 28.iii.-4.iv.; F, 5.-12.iv.; F, 11.-18.iv.; F, 2.-9.v.; F, 9.-16.v.; F, 23.-30.v.; F, 30.v.-6.vi.; F, 6.-12.vi.; F, 13.-22.vi.; F, 20.-27.vi.; F, 27.vi.-4.vii.; F, 4.-11.vii.; F, 18.-25.vii.; F, 25.vii.-1.viii.; F, 22.-29.viii.; F, 29.viii.-5.ix.; M, 5.-12.ix.; F, 19.-26.ix.; F, 26.ix.-3.x.; F, 10.-17.x.; F, 17.-24.x.; F, 7.-14.xi.; **1982:** F, 5.-12.vi.; F, 17.-24.vii.; F, 23.viii.-4.ix.; F, 3.-10.ix.; F, 18.-25.ix.; M, 25.ix.-2.x.; F, 30.x.-6.xi.

**Distribution:** A very common cosmopolitan species.

19. *Psychodocha gemina* (Eaton, 1904)

**Material:** **Ottignies: 1981:** F, 5.-12.iv.; F, 11.-18.iv.; M, 18.-25.iv.; M, 25.iv.-2.v.; F, 2.-9.v.; F, 9.-16.v.; F, 23.-30.v.; F, 30.v.-6.vi.; M, 6.-12.vi.; M, 13.-22.vi.; M, 20.-27.vi.; F, 27.vi.-4.vii.; F, 4.-11.vii.; M, 11.-18.vii.; F, 18.-25.vii.; F, 25.vii.-1.viii.; F, 22.-29.viii.; F, 29.viii.-5.ix.; F, 5.-12.ix.; F, 12.-19.ix.; M, 19.-26.ix.; F, 26.ix.-3.x.; F, 3.-10.x.; M, 10.-17.x.; M, 24.-31.x.; M, 1.-7.xi.; **1982:** M, 8.-15.v.; M, 15.-22.v.; M, 22.-29.v.; F, 5.-12.vi.; F, 3.-10.vii.; F, 17.-24.vii.; M, 27.vii.-3.viii.; F, 23.viii.-4.ix.; F, 3.-10.ix.; F, 18.-25.ix.; F, 25.ix.-2.x.; F, 30.x.-6.xi.

**Distribution:** A common European species.

*Psychodula* Ježek, 198420. *Psychodula minuta* (Banks, 1894)

**Material:** **Ottignies: 1981:** M, 5.-12.iv.; F, 11.-18.iv.; F, 25.iv.-2.v.; F, 30.v.-6.vi.; F, 6.-12.vi.; M, 13.-22.vi.; F, 20.-27.vi.; F, 27.vi.-4.vii.; F, 4.-11.vii.; M, 11.-18.vii.; M, 22.-29.viii.; F, 29.viii.-5.ix.; F, 5.-12.ix.; F, 12.-19.ix.; M, 19.-26.ix.; M, 26.ix.-3.x.; M, 3.-10.x.; M, 10.-17.x.; F, 17.-24.x.; **1982:** F, 15.-22.v.; M, 22.-29.v.; F, 3.-10.vii.; F, 17.-24.vii.; F, 3.-10.ix.; F, 18.-25.ix.; F, 25.ix.-2.x.; **Wanze: 1982:** F, 6.-13.vi.

**Distribution:** A generally common Holarctic species.

*Psychomora* Ježek, 198421. *Psychomora trinodulosa* (Tonnoir, 1922)

**Material:** **Ottignies: 1981:** M, 5.-12.iv.; M, 11.-18.iv.; F, 18.-25.iv.; M, 25.iv.-2.v.; F, 9.-16.v.; F, 23.-30.v.; M, 30.v.-6.vi.; F, 6.-12.vi.; M, 13.-22.vi.; M, 20.-27.vi.; M, 27.vi.-4.vii.; F, 4.-11.vii.; M, 11.-18.vii.; M, 18.-25.vii.; M, 25.vii.-1.viii.; M, 22.-29.viii.; F, 5.-12.ix.; F, 12.-19.ix.; F, 19.-26.ix.; M, 26.ix.-3.x.; M, 3.-10.x.; M, 10.-17.x.; F, 17.-24.x.; **1982:** F, 8.-15.v.; F, 15.-22.v.; F, 22.-29.v.; M, 5.-12.vi.; F, 3.-10.vii.; M, 23.viii.-4.ix.; F, 3.-10.ix.; M, 18.-25.ix.; F, 25.ix.-2.x.; **Wanze: 1982:** M, 23.-30.v.; M, 30.v.-6.vi.; F, 6.-13.vi.; M, 20.-27.vi.; M, 22.vi.-4.vii.; M, 4.-11.vii.; M, 11.-18.vii.; M, 18.-25.vii.; M, 25.vii.-1.viii.; M, 1.-8.viii.; M, 8.-15.viii.; F, 15.-22.viii.; M, 22.-29.viii.; M, 29.viii.-5.ix.

**Distribution:** A very common Holarctic species.

*Tinearia* Schellenberg, 180322. *Tinearia alternata* (Say, 1824)

**Material:** **Ottignies: 1981:** F, 23.-30.v.; F, 30.v.-6.vi.; F, 6.-12.vi.; F, 13.-22.vi.; F, 20.-27.vi.; M, 27.vi.-4.vii.; M, 4.-11.vii.; M, 11.-18.vii.; M, 18.-25.vii.; M, 25.vii.-1.viii.; F,

22.-29.viii.; M, 29.viii.-5.ix.; F, 5.-12.ix.; M, 12.-19.ix.; M, 19.-26.ix.; F, 26.ix.-3.x.; F, 3.-10.x.; F, 10.-17.x.; **1982:** F, 22.-29.v.; F, 17.-24.vii.; F, 3.-10.ix.; F, 18.-25.ix.; **Wanze:** **1982:** F, 18.-25.vii.; F, 8.-15.viii.

**Distribution:** A cosmopolitan species.

23. *Tinearia lativentris* (Berdén, 1952)

**Material:** **Ottignies:** **1982:** F, 25.ix.-2.x.

**Distribution:** A Holarctic species. Recorded from Austria, Czech Republic, Denmark, France, Finland, Germany, Greece, Great Britain, Ireland, Italy, the Netherlands, Norway, Poland, Russia, Sardinia, Slovakia, Sweden, Syria, Turkey, Tunisia, Afghanistan, China, Canada, Mexico, Nicaragua, USA (JEŽEK 2003, 2007, Ježek & Yağci 2005, KVIFTE & ANDERSEN 2012). **First record for Belgium.**

*Ypsydocha* Ježek, 1984

24. *Ypsydocha setigera* (Tonnoir, 1922)

**Material:** **Ottignies:** **1981:** M, 13.-22.vi.; M, 20.-27.vi.; F, 11.-18.vii.; M, 17.-24.x.; M, 24.-31.x.; **1982:** F, 8.-15.v.

**Distribution:** A Holarctic species.

*Clytocyclus* Eaton, 1904

*Boreoclytocyclus* Duckhouse, 1978

25. *Clytocyclus (Boreoclytocyclus) longicorniculatus* Krek, 1987

**Material:** **Ottignies:** **1981:** M, 5.-12.iv.; M, 11.-18.iv.; M, 9.-16.v.; M, 27.vi.-4.vii.; **1982:** M, 3.-10.ix.

**Distribution:** Probably an uncommon European species. Known only from Bosnia and Herzegovina, Czech Republic, Slovakia and Ukraine (KREK 1999, JEŽEK 2009, JEŽEK et al. 2013, 2017). **First record for Belgium.**

26. *Clytocyclus (Boreoclytocyclus) ocellaris* (Meigen, 1804)

**Material:** **Ottignies:** **1981:** M, 5.-12.iv.; M, 11.-18.iv.; M, 18.-25.iv.; M, 2.-9.v.; M, 9.-16.v.; M, 23.-30.v.; M, 30.v.-6.vi.; M, 20.-27.vi.; M, 4.-11.vii.; M, 11.-18.vii.; M, 18.-25.vii.; M, 22.-29.viii.; M, 29.viii.-5.ix.; M, 5.-12.ix.; M, 19.-26.ix.; M, 26.ix.-3.x.; M, 3.-10.x.; M, 10.-17.x.; **1982:** M, 8.-15.v.; M, 15.-22.v.; M, 22.-29.v.; M, 3.-10.vii.; M, 17.-24.vii.; M, 27.vii.-3.viii.; M, 23.viii.-4.ix.; M, 3.-10.ix.; M, 18.-25.ix.

**Distribution:** A very common European species.

27. *Clytocyclus (Boreoclytocyclus) splendidus* Ježek & Hájek, 2007

**Material:** **Ottignies:** **1981:** M, 11.-18.iv.; M, 29.viii.-5.ix.; **1982:** M, 17.-24.vii.

**Distribution:** Known only from the Czech Republic, Poland and Slovakia (JEŽEK & HÁJEK 2007, JEŽEK & OMELKOVÁ 2012, JEŽEK et al. 2013, OBOŇA & JEŽEK 2014). **First record for Belgium.**

*Pericoma* Walker, 1856

*Pachypericoma* Vaillant, 1978

28. *Pericoma (Pachypericoma) blandula* Eaton, 1893

**Material: Ottignies: 1982:** M, 27.vii.-3.viii.

**Distribution:** Widespread in Europe, also recorded from Transcaucasia and North Africa.

*Pericoma* s. str.

29. *Pericoma (Pericoma) pseudoexquisita* Tonnoir, 1940

**Material: Ottignies: 1982:** M, 8.-15.v.

**Distribution:** An uncommon European species.

*Pneumia* Enderlein, 1935

30. *Pneumia extricata* (Eaton, 1893)

**Material: Ottignies: 1981:** M, 19.-26.ix.; M, 26.ix.-3.x.; **1982:** M, 25.ix.-2.x.

**Distribution:** Known as *Satchelliella extricata* (Eaton, 1893) in a few European countries -Belgium, Great Britain, France, Spain and the Netherlands (WAGNER 2018).

31. *Pneumia nubila* (Meigen, 1818)

**Material: Ottignies: 1981:** M, 6.-12.vi.; M, 13.-22.vi.; M, 12.-19.ix.; **1982:** M, 8.-15.v.

**Distribution:** A very common European species.

32. *Pneumia trivialis* (Eaton, 1893)

**Material: Ottignies: 1981:** M, 2.-9.v.; M, 9.-16.v.; M, 30.v-6.vi.; M, 6.-12.vi.; M, 13.-22.vi.; M, 20.-27.vi.; M, 27.vi.-4.vii.; M, 4.-11.vii.; M, 11.-18.vii.; M, 18.-25.vii.; M, 5.-12.ix.; M, 19.-26.ix.; M, 26.ix.-3.x.; **1982:** M, 15.-22.v.; M, 3.-10.vii.; M, 27.vii.-3.viii.; M, 18.-25.ix.; M, 25.ix.-2.x.

**Distribution:** A very common European species.

*Ulomyia* Walker, 1856

33. *Ulomyia cognata* (Eaton, 1893)

**Material: Ottignies: 1982:** M, 15.-22.v.; M, 23.viii-4.ix.; M, 30.x-6.xi.

**Distribution.** This is a common European species, known also from the Central Caucasus at Terskol, Armenia and Russia (VAILLANT & JOOST 1983, JEŽEK et al. 2018).

The checklist of the Psychodidae of Belgium was updated on the basis of published literature (TONNOIR, 1919a,b, 1920b, 1922a,b, 1940; DE MEYER, 1991; DEPAQUIT et al. 2005; BOUMANS et al. 2009), which mentioned 80 species. In addition, 12 species are reported here as first records marked with an asterisk (\*). The status of *Pericoma obtusa* Tonnoir, 1919, *Pericoma spherica* Tonnoir, 1920 and *Pericoma vittata* Tonnoir, 1919 is uncertain and their taxonomical position will be addressed in a separate paper.



1. *Phlebotomus (Transphlebotomus) mascittii* Grassi, 1908
2. *Trichomyia urbica* Haliday in Curtis, 1839
3. *Sycorax silacea* Haliday in Curtis, 1839
4. *Atrichobrunettia (Mirousiella) angustipennis* (Tonnoir, 1920)
5. *Limomormia apicealba* (Tonnoir, 1922)
6. *Taramormia cornuta* (Tonnoir, 1919)
7. *Yomormia furva* (Tonnoir, 1940)
8. *Hemimormia albicornis* (Tonnoir, 1919)
9. *Lepimormia palposa* (Tonnoir, 1919)
10. *Katamormia acuminata* (Strobl, 1901)
11. *Psychomormia incerta* (Eaton, 1893)
12. *Promormia eatoni* (Tonnoir, 1940)
13. *Mormia revisenda* (Eaton, 1893)
14. *Clogmia albipunctata* (Williston, 1893)
15. \**Jungiella (Jungiella) hygrophila* Ježek, 1987
16. *Jungiella (Jungiella) soleata* (Walker, 1856)
17. *Lepiseodina rothschildi* (Eaton, 1912)
18. *Lepiseodina tristis* (Meigen, 1830)
19. *Seoda ambigua* (Eaton, 1893)
20. *Seoda collarti* (Vaillant, 1972)
21. *Seoda labeculosa* (Eaton, 1893)
22. *Seoda morula* (Eaton, 1893)
23. *Seoda mucronata* (Vaillant, 1972)
24. *Panimerus albifacies* (Tonnoir, 1919)
25. *Panimerus albomaculatus* (Wahlgren, 1904)
26. \**Panimerus denticulatus* Krek, 1971
27. *Panimerus goetghebuerei* (Tonnoir, 1919)
28. *Panimerus notabilis* (Eaton, 1893)
29. *Panimerus maynei* (Tonnoir, 1919)
30. *Parajungiella consors* (Eaton, 1893)
31. *Parajungiella longicornis* (Tonnoir, 1919)
32. *Paramormia (Paramormia) fratercula* (Eaton, 1893)
33. \**Paramormia (Paramormia) polyascoidea* (Krek, 1971)
34. *Paramormia (Paramormia) watermaelica* (Vaillant, 1972)
35. *Paramormia (Duckhousiella) ustulata* (Walker, 1856)
36. *Paramormia (Phyllotelmatoscopus) decipiens* (Eaton, 1893)

37. *Peripsychoda auriculata* (Haliday in Curtis, 1839)
38. *Peripsychoda fusca* (Macquart, 1826)
39. *Feuerborniella obscura* (Tonnoir, 1919)
40. *Philosepedon humerale* (Meigen, 1818)
41. *Threticus lucifugus* (Walker, 1856)
42. *Trichopsychoda hirtella* (Tonnoir, 1919)
43. \**Apsycha pusilla* (Tonnoir, 1922)
44. *Chodopsycha lobata* (Tonnoir, 1940)
45. \**Copropsychoda brevicornis* (Tonnoir, 1940)
46. *Logima albipennis* (Zetterstedt, 1850)
47. *Logima erminea* (Eaton, 1898)
48. \**Logima satchelli* (Quate, 1955)
49. \**Logima sigma* (Kincaid, 1899)
50. \**Logima zetterstedti* Ježek, 1983
51. *Psyche grisescens* (Tonnoir, 1922)
52. *Psychoda phalaenoides* (Linnaeus, 1758)
53. \**Psychoda uniformata* Haseman, 1907
54. *Psychodocha cinerea* (Banks, 1894)
55. *Psychodocha gemina* (Eaton, 1904)
56. *Psychodula minuta* (Banks, 1894)
57. *Psychomora trinodulosa* (Tonnoir, 1922)
58. *Tinearia alternata* (Say, 1824)
59. \**Tinearia lativentris* (Berdén, 1952)
60. *Ypsydocha setigera* (Tonnoir, 1922)
61. *Berdeniella manicata* (Tonnoir, 1919)
62. *Berdeniella unispinosa* (Tonnoir, 1919)
63. *Clytocerus (Boreoclytocerus) dalii* (Eaton, 1893)
64. \**Clytocerus (Boreoclytocerus) longicorniculatus* Krek, 1987
65. *Clytocerus (Boreoclytocerus) ocellaris* (Meigen, 1818)
66. *Clytocerus (Boreoclytocerus) rivosus* (Tonnoir, 1919)
67. \**Clytocerus (Boreoclytocerus) splendidus* Ježek & Hájek, 2007
68. *Parabazarella neglecta* (Eaton, 1893)
69. *Parabazarella subneglecta* (Tonnoir, 1922)
70. *Pericoma (Pachypericoma) blandula* Eaton, 1893
71. *Pericoma (Pachypericoma) fallax* Eaton, 1893
72. *Pericoma (Pachypericoma) nielseni* Kvifte, 2010

73. *Pericoma (Pericoma) diversa* Tonnoir, 1919
74. *Pericoma (Pericoma) exquisita* Eaton, 1893
75. *Pericoma (Pericoma) pseudoexquisita* Tonnoir, 1940
76. *Pericoma (Pericoma) trifasciata* (Meigen, 1818)
77. *Pneumia canescens* (Meigen, 1818)
78. *Pneumia compta* (Eaton, 1893)
79. *Pneumia extricata* (Eaton, 1893)
80. *Pneumia gracilis gracilis* (Eaton, 1893)
81. *Pneumia mutua* (Eaton, 1893)
82. *Pneumia nubila* (Meigen, 1818)
83. *Pneumia palustris* (Meigen, 1818)
84. *Pneumia stammeri* (Jung, 1954)
85. *Pneumia trivialis* (Eaton, 1893)
86. *Tonnoiriella pulchra* (Eaton, 1893)
87. *Tonnoiriella nigricauda* (Tonnoir, 1919)
88. *Ulomyia annulata annulata* (Tonnoir, 1919)
89. *Ulomyia cognata* (Eaton, 1893)
90. *Ulomyia fuliginosa* (Meigen, 1818)
91. *Ulomyia plumata* (Tonnoir, 1919)
92. *Ulomyia undulata* (Tonnoir, 1919)

#### ACKNOWLEDGEMENTS

We are grateful to M. Peeters from the Royal Institute of Natural Sciences in Brussels for kindness and generosity in loaning the spirituous material of moth flies from Belgium. Thanks are due to all anonymous reviewers for their valuable and instructive comments on the manuscript. We are very obliged to Michal Tkoč (National Museum in Prague, Czech Republic) for returning the six boxes of slides and all spirituous doublets to Brussels. This work was supported by the Ministry of Culture of the Czech Republic (DKRVO 2019-2023/5.I.a, National Museum, 00023272). and partly supported by the Slovak Scientific Grant Agency, contracts No. VEGA-2/0030/17 and by the Slovak Research and Development Agency under the contract No. APVV-16-0236.

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