A second update to the checklist of Finnish long-legged flies (Diptera: Dolichopodidae), with a re-evaluation of the status of *Hydrophorus callosoma* Frey, 1915

Jere Kahanpää †
† University of Helsinki, Helsinki, Finland

Abstract

Eighteen species of long-legged flies (Dolichopodidae) are reported as new to Finland. A further species, *Microphorella praecox* (Loew), is confirmed as a Finnish species. The status of *Hydrophorus callosoma* Frey, 1915 is re-evaluated and a lectotype is designated for the species. *H. albosignatus* Ringdahl, 1919 is found to be a junior synonym of *H. callosoma* (*syn. n.*). Characters for identifying both sexes of *H. callosoma* and *H. altivagus* Aldrich are presented and illustrated with high-quality photographs.

Keywords

Diptera, Dolichopodidae, *Hydrophorus*, Finland, new synonym, lectotype designation, faunistics
Introduction

The latest checklist of Finnish long-legged flies (Diptera: Dolichopodidae) was published nearly ten years ago (Kahanpää and Grichanov 2004). A single update paper was published soon afterwards (Kahanpää 2006). Additional dolichopodid species have since been reported from Finland by Kahanpää (2007), Kahanpää and Negrobov (2007) and Winqvist (2011).

This paper summarizes the changes that have occurred since the last update. A grand total of 18 species are added to the list of Finnish Dolichopodidae, bringing the total up to 264 species. The dolichopodid fauna of Finland is relatively well known, but at least 10-20 additional species can still be expected to occur in the country.

It should be noted that the former family Microphoridae, excluded from the previous national dolichopodid checklist but included in Kahanpää and Winqvist (2005), is now considered to be a subfamily of Dolichopodidae (Cumming and Brooks 2002).

Materials and methods

The material examined is stored in the Finnish Museum of Natural History, University of Helsinki (MZH) and the author's private collection.

Stack photographs of Hydrophorus specimens were taken using a Canon EOS digital camera and a Canon MP-E 65 mm macro lens. To create a final photograph, 35-40 exposures of each subject were combined using the CombineZ program (Hadley 2010).

Taxon treatments

Microphorella praecox (Loew, 1864)

- Fauna Europaea [http://www.faunaeur.org/full_results.php?id=129775](http://www.faunaeur.org/full_results.php?id=129775)

  **Material**

  a. scientificName: Microphorella praecox; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: (Loew, 1864); country: Finland; stateProvince: Ks; municipality: Kuusamo; locality: Jäkälämutka; verbatimCoordinates: 735797:361788; verbatimCoordinateSystem: ykj; decimalLatitude: 66.292; decimalLongitude: 29.623; geodeticDatum: WGS84; samplingProtocol: Malaise trap; eventDate: 2010-07-10/15; individualCount: 2; sex: females; recordedBy: Antti Haarto; otherCatalogNumbers: labelcode:AHa12-000675,AHa12-000674; identifiedBy: Antti Haarto; collectionCode: Priv. Coll. A. Haarto; basisOfRecord: PreservedSpecimen
Distribution

Scattered records across north and central Europe from Finland to Italy (Pollet 2013), although the discovery of the closely related *M. similis* Brooks & Ulrich, 2012 casts some doubt on old distribution data for *M. praecox* (Brooks and Ulrich 2012). The presence of *M. praecox* in Finland was considered doubtful by Kahanpää and Winqvist (2005). This new record confirms the presence of this species in Finland.

*Hydrophorus callosoma* Frey, 1915

- Fauna Europaea [http://www.faunaeur.org/full_results.php?id=135810](http://www.faunaeur.org/full_results.php?id=135810)

Nomenclature

*Hydrophorus wahlbergi* var.(?) callosoma Frey 1915: 65 stat. rev.

*Hydrophorus albosignatus* Ringdahl 1919: 16 syn. nov.

Materials

**Lectotype:**

1. **scientificName:** *Hydrophorus callosoma*; **originalNameUsage:** *Hydrophorus wahlbergi* var. (?) *callosoma* Frey, 1915; **namePublishedIn:** Frey, R. (1915) Zur kennnis der Dipterenfauna Finlands. III. Dolichopodidae. Acta Societatis pro Fauna et Flora Fennica 40, 1–80+3 pl. Available from: [http://www.biodiversitylibrary.org/page/5571884](http://www.biodiversitylibrary.org/page/5571884); **order:** Diptera; **family:** Dolichopodidae; **scientificNameAuthorship:** Frey, 1915; **country:** Russia; **stateProvince:** Murmansk district; **municipality:** Kandalaksha; **verbatimLocality:** Kantalaks; **decimalLatitude:** 67.20; **decimalLongitude:** 32.40; **geodeticDatum:** WGS84; **eventDate:** 1913-06-28; **individualCount:** 1; **sex:** female; **recordedBy:** Wolter Hellén; **identifiedBy:** Jere Kahanpää; **collectionID:** [http://id.luomus.fi/HR.110](http://id.luomus.fi/HR.110); **institutionCode:** MZH; **collectionCode:** Diptera Fennica; **basisOfRecord:** PreservedSpecimen

**Paralectotype:**

1. **scientificName:** *Hydrophorus altivagus*; **originalNameUsage:** *Hydrophorus wahlbergi* var. (?) *callosoma* Frey, 1915; **namePublishedIn:** Frey, R. (1915) Zur kennnis der Dipterenfauna Finlands. III. Dolichopodidae. Acta Societatis pro Fauna et Flora Fennica 40, 1–80+3 pl. Available from: [http://www.biodiversitylibrary.org/page/5571884](http://www.biodiversitylibrary.org/page/5571884); **order:** Diptera; **family:** Dolichopodidae; **scientificNameAuthorship:** Aldrich, 1911; **country:** Russia; **stateProvince:** Republic of Karelia; **municipality:** Kem; **verbatimLocality:** Kem; **decimalLatitude:** 64.96; **decimalLongitude:** 34.60; **geodeticDatum:** WGS84; **eventDate:** 1869-07-30; **individualCount:** 1; **sex:** female; **recordedBy:** John Sahlberg; **identifiedBy:** Jere Kahanpää; **collectionID:** [http://id.luomus.fi/HR.110](http://id.luomus.fi/HR.110); **institutionCode:** MZH; **collectionCode:** Diptera Fennica; **basisOfRecord:** PreservedSpecimen

**Other materials:**

1. **scientificName:** *Hydrophorus callosoma*; **order:** Diptera; **family:** Dolichopodidae; **scientificNameAuthorship:** Frey, 1915; **country:** Finland; **stateProvince:** PPee; **municipality:** Hailuoto; **locality:** Kirkkolahdi; **decimalLatitude:** 65.00; **decimalLongitude:** 24.71; **geodeticDatum:** WGS84; **coordinatePrecision:** 3000; **eventDate:** 1947-07-16;
individualCount: 1; sex: male; recordedBy: Richard Frey; identifiedBy: Jere Kahanpää; collectionID: http://id.luomus.fi/HR.110; institutionCode: MZH; collectionCode: Diptera Fennica; basisOfRecord: PreservedSpecimen

b. scientificName: Hydrophorus callosoma; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Frey, 1915; country: Finland; stateProvince: PPe; municipality: Hailuoto; locality: Kirkkolahti; decimalLatitude: 65.00; decimalLongitude: 24.71; geodeticDatum: WGS84; coordinatePrecision: 3000; eventDate: 1947-07-12; individualCount: 35; sex: 15 males, 20 females; recordedBy: Richard Frey; identifiedBy: Jere Kahanpää; collectionID: http://id.luomus.fi/HR.110; institutionCode: MZH; collectionCode: Diptera Fennica; basisOfRecord: PreservedSpecimen

c. scientificName: Hydrophorus callosoma; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Frey, 1915; country: Finland; stateProvince: PPe; municipality: Hailuoto; locality: Kirkkolahti; decimalLatitude: 65.00; decimalLongitude: 24.71; geodeticDatum: WGS84; coordinatePrecision: 3000; eventDate: 1947-07-11; individualCount: 7; sex: 5 males, 2 females; recordedBy: Richard Frey; identifiedBy: Jere Kahanpää; collectionID: http://id.luomus.fi/HR.110; institutionCode: MZH; collectionCode: Diptera Fennica; basisOfRecord: PreservedSpecimen

d. scientificName: Hydrophorus callosoma; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Frey, 1915; country: Finland; stateProvince: KP; municipality: Pietarsaari; decimalLatitude: 63.690; decimalLongitude: 22.670; geodeticDatum: WGS84; coordinatePrecision: 1000; eventDate: 1953-01-01/05-01; individualCount: 2; sex: 1 male, 1 female; recordedBy: Ragnar Storå; identifiedBy: Jere Kahanpää; collectionID: http://id.luomus.fi/HR.110; institutionCode: MZH; collectionCode: Diptera Fennica; basisOfRecord: PreservedSpecimen

e. scientificName: Hydrophorus callosoma; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Frey, 1915; country: Finland; stateProvince: KP; municipality: Pietarsaari; decimalLatitude: 63.650; decimalLongitude: 22.810; geodeticDatum: WGS84; coordinatePrecision: 20000; eventDate: 1953-08-14; individualCount: 1; sex: female; recordedBy: Ragnar Storå; identifiedBy: Jere Kahanpää; collectionID: http://id.luomus.fi/HR.110; institutionCode: MZH; collectionCode: Diptera Fennica; basisOfRecord: PreservedSpecimen

f. scientificName: Hydrophorus callosoma; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Frey, 1915; country: Finland; stateProvince: KP; municipality: Pietarsaari; decimalLatitude: 63.690; decimalLongitude: 22.670; geodeticDatum: WGS84; coordinatePrecision: 1000; eventDate: 1953-08-15; individualCount: 1; sex: male; recordedBy: Ragnar Storå; identifiedBy: Jere Kahanpää; collectionID: http://id.luomus.fi/HR.110; institutionCode: MZH; collectionCode: Diptera Fennica; basisOfRecord: PreservedSpecimen

h. scientificName: Hydrophorus callosoma; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Frey, 1915; country: Finland; stateProvince: KP; municipality: Pietarsaari; decimalLatitude: 63.690; decimalLongitude: 22.670; geodeticDatum: WGS84; coordinatePrecision: 1000; eventDate: 1953-08-16; individualCount: 2; sex: males; recordedBy: Ragnar Storå; identifiedBy: Jere Kahanpää; collectionID: http://id.luomus.fi/
HR.110; institutionCode: MZH; collectionCode: Diptera Fennica; basisOfRecord: PreservedSpecimen
i. scientificName: Hydrophorus callosoma; order: Diptera; family: Dolichopodidae;
scientificNameAuthorship: Frey, 1915; country: Finland; stateProvince: KP; municipality:
Pietarsaari; decimalLatitude: 63.690; decimalLongitude: 22.670; geodeticDatum: WGS84;
coordinatePrecision: 1000; eventDate: 1953-08-19; individualCount: 9; sex: 2 males, 7 females; recordedBy: Ragnar Storå; identifiedBy: Jere Kahanpää; collectionID: http://id.luomus.fi/HR.110; institutionCode: MZH; collectionCode: Diptera Fennica; basisOfRecord: PreservedSpecimen

j. scientificName: Hydrophorus callosoma; order: Diptera; family: Dolichopodidae;
scientificNameAuthorship: Frey, 1915; country: Finland; stateProvince: KP; municipality:
Pietarsaari; decimalLatitude: 63.690; decimalLongitude: 22.670; geodeticDatum: WGS84;
coordinatePrecision: 1000; eventDate: 1953-08-20; individualCount: 7; sex: 3 males, 4 females; recordedBy: Ragnar Storå; identifiedBy: Jere Kahanpää; collectionID: http://id.luomus.fi/HR.110; institutionCode: MZH; collectionCode: Diptera Fennica; basisOfRecord: PreservedSpecimen

k. scientificName: Hydrophorus callosoma; order: Diptera; family: Dolichopodidae;
scientificNameAuthorship: Frey, 1915; country: Finland; stateProvince: KP; municipality:
Pietarsaari; decimalLatitude: 63.690; decimalLongitude: 22.670; geodeticDatum: WGS84;
coordinatePrecision: 1000; eventDate: 1953-08-22; individualCount: 1; sex: female; recordedBy: Ragnar Storå; identifiedBy: Jere Kahanpää; collectionID: http://id.luomus.fi/HR.110; institutionCode: MZH; collectionCode: Diptera Fennica; basisOfRecord: PreservedSpecimen

l. scientificName: Hydrophorus callosoma; order: Diptera; family: Dolichopodidae;
scientificNameAuthorship: Frey, 1915; country: Finland; stateProvince: KP; municipality:
Pietarsaari; decimalLatitude: 63.690; decimalLongitude: 22.670; geodeticDatum: WGS84;
coordinatePrecision: 1000; eventDate: 1953-08-29; individualCount: 2; sex: 1 male, 1 female; recordedBy: Ragnar Storå; identifiedBy: Jere Kahanpää; collectionID: http://id.luomus.fi/HR.110; institutionCode: MZH; collectionCode: Diptera Fennica; basisOfRecord: PreservedSpecimen

m. scientificName: Hydrophorus callosoma; order: Diptera; family: Dolichopodidae;
scientificNameAuthorship: Frey, 1915; country: Finland; stateProvince: KP; municipality:
Pietarsaari; decimalLatitude: 63.690; decimalLongitude: 22.670; geodeticDatum: WGS84;
coordinatePrecision: 1000; eventDate: 1953-09-05; individualCount: 4; sex: 2 males, 2 females; recordedBy: Ragnar Storå; identifiedBy: Jere Kahanpää; collectionID: http://id.luomus.fi/HR.110; institutionCode: MZH; collectionCode: Diptera Fennica; basisOfRecord: PreservedSpecimen

n. scientificName: Hydrophorus callosoma; order: Diptera; family: Dolichopodidae;
scientificNameAuthorship: Frey, 1915; country: Finland; stateProvince: KP; municipality:
Pietarsaari; decimalLatitude: 63.690; decimalLongitude: 22.670; geodeticDatum: WGS84;
coordinatePrecision: 1000; eventDate: 1953-09-20; individualCount: 1; sex: female; recordedBy: Ragnar Storå; identifiedBy: Jere Kahanpää; collectionID: http://id.luomus.fi/HR.110; institutionCode: MZH; collectionCode: Diptera Fennica; basisOfRecord: PreservedSpecimen

o. scientificName: Hydrophorus callosoma; order: Diptera; family: Dolichopodidae;
scientificNameAuthorship: Frey, 1915; country: Finland; stateProvince: PE; municipality:
Hailuoto; locality: Santosenmatala; verbatimCoordinates: 72135:34085; verbatimCoordinateSystem: ykj; decimalLatitude: 65.006; decimalLongitude: 25.057; geodeticDatum: WGS84; coordinatePrecision: 200; samplingProtocol: sweep netting; eventDate: 2005-06-04; individualCount: 1; sex: male; recordedBy: Jere Kahanpää;
otherCatalogNumbers: labelcode: jka-05-00377; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen
p. scientificName: *Hydrophorus callosoma*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Frey, 1915; country: Finland; stateProvince: PPe; municipality: Lumijoki; locality: Varjakka, Karinpää; verbatimCoordinates: 72031:34090; verbatimCoordinateSystem: ykj; decimalLatitude: 64.913; decimalLongitude: 25.075; geodeticDatum: WGS84; coordinatePrecision: 200; samplingProtocol: sweep netting; eventDate: 2005-09-01; individualCount: 17; sex: 8 males, 9 females; recordedBy: Jere Kahanpää; otherCatalogNumbers: labelcode: jka-05-04568, 04566, 04595, 04596, 04573, 04570, -04575, -04583, -04588, -04578, -04569, jka-05-04581, jka-05-04582, jka-05-04584, jka-05-04577, jka-05-04567, jka-05-04574; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen
q. scientificName: *Hydrophorus callosoma*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Frey, 1915; country: Finland; stateProvince: PPe; municipality: Lumijoki; locality: Varjakka, Karinpää; verbatimCoordinates: 72031:34090; verbatimCoordinateSystem: ykj; decimalLatitude: 64.913; decimalLongitude: 25.075; geodeticDatum: WGS84; coordinatePrecision: 200; samplingProtocol: sweep netting; eventDate: 2006-07-09; individualCount: 1; sex: male; recordedBy: Jere Kahanpää; otherCatalogNumbers: labelcode: jka06-02709; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen
r. scientificName: *Hydrophorus callosoma*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Frey, 1915; country: Finland; stateProvince: KP; municipality: Kalajoki; locality: Äijänsäikkä M2; verbatimCoordinates: 713499:334989; verbatimCoordinateSystem: ykj; decimalLatitude: 64.281; decimalLongitude: 23.897; geodeticDatum: WGS84; coordinatePrecision: 100; samplingProtocol: Malaise trap; eventDate: 2005-06-03/07-03; individualCount: 1; sex: male; recordedBy: Jere Kahanpää; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen
s. scientificName: *Hydrophorus callosoma*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Frey, 1915; country: Finland; stateProvince: KP; municipality: Kalajoki; locality: Äijänsäikkä; verbatimCoordinates: 71355:33499; verbatimCoordinateSystem: ykj; decimalLatitude: 64.286; decimalLongitude: 23.897; geodeticDatum: WGS84; coordinatePrecision: 200; samplingProtocol: sweep netting; eventDate: 2005-07-30; individualCount: 1; sex: male; recordedBy: Jere Kahanpää; otherCatalogNumbers: labelcode: jka-05-02637; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen
t. scientificName: *Hydrophorus callosoma*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Frey, 1915; country: Finland; stateProvince: KP; municipality: Kalajoki; locality: Kalajokisu; verbatimCoordinates: 71350:33499; verbatimCoordinateSystem: ykj; decimalLatitude: 64.282; decimalLongitude: 23.898; geodeticDatum: WGS84; coordinatePrecision: 200; samplingProtocol: sweep netting; eventDate: 2005-09-01; individualCount: 1; sex: female; recordedBy: Jere Kahanpää; otherCatalogNumbers: labelcode: jka-05-04561; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

**Diagnosis**

*Hydrophorus callosoma* is externally most like *H. altivagus* Aldrich, 1911 (=*H. wahlgreni* Frey, 1915). Both sexes can be identified by the armature on fore femora: there is only a single short row of 6-13 small ventral spines in the basal third of the fore femur.
Anteroventral spines missing or at most 1-3 very short ones present (usually completely absent in females). *H. altivagus* has a row of strong anteroventral spines reaching the apical third of the femur in addition to the ventral spines. Other differences between the two species are tabulated in Table 1.

| character                        | *H. callosoma* Frey                                                                 | *H. altivagus* Aldrich                                      |
|----------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------|
| face, colour (males only)        | silver, narrowly greenish under the antennae                                       | green ground color obscured by silver only in the lower third-half |
| clypeus, shape                   | width of clypeus not much less than the height of face                               | width of clypeus clearly less than height of face           |
| fore femur                       | one compact row of 6-13 ventral setae restricted to the basal third or half.        | ventral row with 3-8 setae in basal half. Anteroventral row of setae well developed, with 6-12 setae, reaching the apical third |
| wing color (females only)        | wings almost transparent in both sexes                                              | wing membrane faintly brownish esp. before vein M₁+₂        |
| spot above notopleural depression| white, round or oval in dorsal view                                                | variable, usually small, dark to yellow, linear along notopleural suture. Never white and round |
| abdomen (females only)           | lateral hairs of tergites 5 at let partially white in dorsal view. Usually also tergites 3-4 with partially pale lateral hairs | lateral hairs (in dorsal view) on tergites 3-5 black. Note that the ventral hairs on tergites are usually white. |

**Distribution**

Sweden, Finland and North-Western Russia (Murmansk and Archangelsk Oblasts).

**Taxon discussion**

Richard Frey described *Hydrophorus callosoma* as a variety on the basis of two female specimens. He did, however, express doubt about its true status. The name has later been synonymed with *H. wahlberg* Frey, 1915 (Negrobov 1977), which in turn was synonymised with *H. altivagus* Aldrich, 1911 (Hurley 1985).

The type material of *H. callosoma* Frey consists of two females deposited in MZH. The lectotype (here designated), a female from Kantalaks (=Kandalaksha, Russia), is identical with *H. albosignatus* Ringdahl, 1919 (Figs 1c, 2c, 3c). Frey's second type specimen from Kem belongs to *H. altivagus*.
Figure 1.

*Hydrophorus* specimens, lateral view. Left column: *H. callosoma* Frey. Right column: *H. altivagus* Aldrich.

a: *Hydrophorus callosoma* Frey, male  
b: *Hydrophorus altivagus* Aldrich, male  
c: *Hydrophorus callosoma* Frey, female (lectotype of *H. callosoma* Frey)  
d: *Hydrophorus altivagus* Aldrich, female  
e: *Hydrophorus callosoma* Frey, female (paralectotype of *H. albosignatus* Ringdahl)
Figure 2.

_Hydrophorus_ specimens, dorsal view. Left column: _H. callosoma_ Frey. Right column: _H. altivagus_ Aldrich.

- **a**: _Hydrophorus callosoma_ male
- **b**: _Hydrophorus altivagus_ male
- **c**: _Hydrophorus callosoma_ female (lectotype of _H. callosoma_ Frey)
- **d**: _Hydrophorus altivagus_ female
- **e**: _Hydrophorus callosoma_ female (paralectotype of _H. albosignatus_ Ringdahl)
Frey's *H. callosoma* type material was compared with a single female paralectotype of *H. albosignatus* Ringdahl, 1919 (see Figs 1e, 2e, 3e). It does match the Kantalaks specimen and the description of the male provided by Ringdahl, plus all available figures of the two species, clearly indicate that *H. albosignatus* Ringdahl is identical with *H. callosoma* of Frey.

**Figure 3.**

*Hydrophorus* specimens, face and fore femora. Left column: *H. callosoma* Frey. Right column: *H. altivagus* Aldrich.

a: *H. callosoma* male  
b: *H. altivagus* male  
c: *H. callosoma* female (lectotype of *H. callosoma* Frey)  
d: *H. altivagus* female  
e: *H. callosoma* female (paralectotype of *H. albosignatus* Ringdahl)
The Kantalaks specimen is here designated as the lectotype of *H. callosoma* Frey, 1915. This choice is made because only this specimen does actually match Frey's original description "...near the previous species [=*H. wahlbergi*], from which it differs by its much more brilliant coloration and the pale hairs on the sides of the abdomen" (Frey 1915). The Kem specimen—like all specimens of both species—have pale hairs on the ventral margin of the tergites only. Because of the distortion of the abdomen of this dry-pinned female, the ventral hairs are visible when viewed from above.

*H. callosoma* Frey, 1915 is thus a senior synonym of *H. albosignatus* Ringdahl, 1919 and becomes the valid name for this species (syn. nov.).

**Medetera belgica** Parent, 1936

- Fauna Europaea [http://www.faunaeur.org/full_results.php?id=135916](http://www.faunaeur.org/full_results.php?id=135916)

**Materials**

a. **scientificName**: *Medetera belgica*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Parent, 1936; country: Finland; stateProvince: V; municipality: Turku; decimalLatitude: 60.5; decimalLongitude: 22.3; geodeticDatum: WGS84; individualCount: 1; sex: female; recordedBy: E. J. Bonsdorff; otherCatalogNumbers: labelcode: jka06-03068; identifiedBy: Jere Kahanpää; collectionID: [http://id.luomus.fi/HR.110](http://id.luomus.fi/HR.110); institutionCode: MZH; collectionCode: Diptera Fennica; basisOfRecord: PreservedSpecimen

b. **scientificName**: *Medetera belgica*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Parent, 1936; country: Finland; stateProvince: V; municipality: Lohja; decimalLatitude: 60.2; decimalLongitude: 24.1; geodeticDatum: WGS84; individualCount: 2; sex: 1 male, 1 female; recordedBy: Richard Frey; otherCatalogNumbers: labelcode:jka06-03070, jka06-03067; identifiedBy: Jere Kahanpää; collectionID: [http://id.luomus.fi/HR.110](http://id.luomus.fi/HR.110); institutionCode: MZH; collectionCode: Diptera Fennica; basisOfRecord: PreservedSpecimen

c. **scientificName**: *Medetera belgica*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Parent, 1936; country: Finland; stateProvince: V; municipality: Kiikala; decimalLatitude: 60.5; decimalLongitude: 23.6; geodeticDatum: WGS84; eventDate: 1980-06-22; individualCount: 1; sex: female; recordedBy: Anders Albrecht; otherCatalogNumbers: labelcode:jka06-03071; identifiedBy: Jere Kahanpää; collectionID: [http://id.luomus.fi/HR.110](http://id.luomus.fi/HR.110); institutionCode: MZH; collectionCode: Diptera Fennica; basisOfRecord: PreservedSpecimen

d. **scientificName**: *Medetera belgica*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Parent, 1936; country: Finland; stateProvince: A; municipality: Jomala; locality: Björsby; verbatimCoordinates: 669627:311108; verbatimCoordinateSystem: ykj; decimalLatitude: 60.192; decimalLongitude: 19.978; geodeticDatum: WGS84; coordinatePrecision: 200; samplingProtocol: Malaise trap; eventDate: 2007-04-22/06-17; individualCount: 1; sex: male; recordedBy: Olli Autio; Jukka Salmela; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

e. **scientificName**: *Medetera belgica*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Parent, 1936; country: Finland; stateProvince: A; municipality: Saltvik; locality: Höckböle; verbatimCoordinates: 67164:31097;
f. scientificName: *Medetera belgica*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Parent, 1936; country: Finland; stateProvince: A; municipality: Sund; locality: Bredmossen; verbatimCoordinates: 670452:312546; geodeticDatum: WGS84; coordinatePrecision: 200; samplingProtocol: Malaise trap; eventDate: 2007-06-16/07-28; individualCount: 1; sex: male; recordedBy: Olli Autio; Jukka Salmela; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

g. scientificName: *Medetera belgica*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Parent, 1936; country: Finland; stateProvince: A; municipality: Saltvik; locality: Långbergsöda; verbatimCoordinates: 670761:312132; geodeticDatum: WGS84; coordinatePrecision: 200; samplingProtocol: Malaise trap; eventDate: 2007-06-16/07-28; individualCount: 3; sex: 1 male, 2 females; recordedBy: Olli Autio; Jukka Salmela; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

h. scientificName: *Medetera belgica*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Parent, 1936; country: Finland; stateProvince: U; municipality: Hanko; locality: Tvärminne, Spikarna; decimalLatitude: 59.811; decimalLongitude: 23.205; geodeticDatum: WGS84; coordinatePrecision: 300; eventDate: 1920-07-28; individualCount: 1; sex: male; recordedBy: Richard Frey; otherCatalogNumbers: labelcode:jka06-03074; identifiedBy: Jere Kahanpää; collectionID: http://id.luomus.fi/HR.110; institutionCode: MZH; collectionCode: Diptera Fennica; basisOfRecord: PreservedSpecimen

i. scientificName: *Medetera belgica*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Parent, 1936; country: Finland; stateProvince: U; municipality: Lovisa; locality: Rauhala; verbatimCoordinates: 6701979:8456973; geodeticDatum: WGS84; coordinatePrecision: 200; samplingProtocol: Malaise trap; eventDate: 2010-06-26; individualCount: 1; sex: male; recordedBy: Jari Flinck; otherCatalogNumbers: labelcode:JF10-2527; identifiedBy: Marc Pollet; collectionCode: Priv. Coll.J. Flinck; basisOfRecord: PreservedSpecimen

j. scientificName: *Medetera belgica*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Parent, 1936; country: Finland; stateProvince: PK; municipality: Pietarsaari; verbatimCoordinateSystem: ykj; decimalLatitude: 63.7; decimalLongitude: 22.7; geodeticDatum: WGS84; eventDate: 1957-07-20; individualCount: 1; sex: male; recordedBy: Ragnar Storå; otherCatalogNumbers: labelcode:jka06-03072; identifiedBy: Jere Kahanpää; collectionID: http://id.luomus.fi/HR.110; institutionCode: MZH; collectionCode: Diptera Fennica; basisOfRecord: PreservedSpecimen

k. scientificName: *Medetera belgica*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Parent, 1936; country: Finland; stateProvince: ES; municipality: Joutseno; decimalLatitude: 61.1; decimalLongitude: 28.5; geodeticDatum: WGS84; eventDate: 1948-06-24; individualCount: 1; sex: female; recordedBy: Erik Thuneberg; otherCatalogNumbers: labelcode:jka06-03069; identifiedBy: Jere Kahanpää;
Distribution

New to Finland. Global distribution poorly known due to confusion with *M. muralis* (Fallén, 1823) (Pollet 2013).

Taxon discussion

*Medetera belgica* was based on a single female Parent 1936. Negrobov and Stackelberg 1972 redescribed the species based on male specimens from the Kola Peninsula in Russia, some 2,500 km away, without studying the holotype of *M. belgica*. It is certainly possible that the Finnish specimens identified as *M. belgica* sensu Negrobov are not conspecific with Parent's original types. *M. belgica* was synonymised with *M. muralis* by Grichanov (2002), but this synonymy has been disputed (Pollet 2013). In Finnish material the leg colour characters and differences in male genitalia between the two species (*M. muralis* and *M. belgica* sensu Negrobov) are well defined and constant.

*Medetera fumida* Negrobov, 1967

- Fauna Europaea [http://www.faunaeur.org/full_results.php?id=135944](http://www.faunaeur.org/full_results.php?id=135944)

Material

- scientificName: *Medetera fumida*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Negrobov, 1967; country: Finland; stateProvince: U; municipality: Pukkila; locality: Venunmetsä; verbatimCoordinates: 67284:34159; verbatimCoordinateSystem: ykj; decimalLatitude: 60.658; decimalLongitude: 25.460; geodeticDatum: WGS84; coordinatePrecision: 1000; samplingProtocol: sweep netting; eventDate: 2011-06-11; individualCount: 2; sex: males; recordedBy: Jere Kahanpää; otherCatalogNumbers: labelcode:jka11-00182; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

Distribution

New to Finland. Previously known from Estonia and Russia (Negrobov 1991, Grichanov 2002b).
**Medetera prjachinae** Negrobov & Stackelberg, 1974

- Fauna Europaea [http://www.faunaeur.org/full_results.php?id=136007](http://www.faunaeur.org/full_results.php?id=136007)

**Material**

a. scientificName: *Medetera prjachinae*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Negrobov & Stackelberg, 1974; country: Finland; stateProvince: U; municipality: Pukkila; locality: Venunmetsä; verbatimCoordinates: 67284:34159; verbatimCoordinateSystem: ykj; decimalLatitude: 60.658; decimalLongitude: 25.460; geodeticDatum: WGS84; coordinatePrecision: 1000; samplingProtocol: sweep netting; eventDate: 2011-06-11; individualCount: 1; sex: male; recordedBy: Jere Kahanpää; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

**Distribution**

New to Finland. Previously known from Russia (Archangelsk Oblast) and Estonia (Negrobov 1991, Grichanov 2002b).

**Medetera seguyi** Parent, 1926

- Fauna Europaea [http://www.faunaeur.org/full_results.php?id=136015](http://www.faunaeur.org/full_results.php?id=136015)

**Materials**

a. scientificName: *Medetera seguyi*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Parent, 1926; country: Finland; stateProvince: EH; municipality: Lammi; locality: Kotisten aarnialue; verbatimCoordinates: 6794055:3396410; verbatimCoordinateSystem: ykj; decimalLatitude: 61.241; decimalLongitude: 25.067; geodeticDatum: WGS84; samplingProtocol: emergence trap; eventDate: 2006-05-22/06-27; individualCount: 7; sex: 5 males, 1 female; recordedBy: Jevgeni Jakovlev; Jouni Penttinen; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

b. scientificName: *Medetera seguyi*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Parent, 1926; country: Finland; stateProvince: EH; municipality: Lammi; locality: Kotisten aarnialue A4; verbatimCoordinates: 6794369:3396424; verbatimCoordinateSystem: ykj; decimalLatitude: 61.244; decimalLongitude: 25.068; geodeticDatum: WGS84; samplingProtocol: emergence trap; eventDate: 2006-06-28/08-02; individualCount: 1; sex: male; recordedBy: Jevgeni Jakovlev; Jouni Penttinen; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

c. scientificName: *Medetera seguyi*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Parent, 1926; country: Finland; stateProvince: EH; municipality: Lammi; locality: Kotinen AB-2-I; geodeticDatum: WGS84; samplingProtocol: emergence trap; eventDate: 2006-05-24/06-27; individualCount: 11; sex: 6 males, 5 females; recordedBy: Jevgeni Jakovlev; Jouni Penttinen; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen
Distribution

New to Finland. Previously reported from Norway, Belgium, Switzerland, France, south Russia (Negrobov 1991, Naglis 2009, Pollet 2013), but this taxon might involve a group of closely related species.

**Medetera zinovjevi** Negrobov, 1967

- Fauna Europaea [http://www.faunaeur.org/full_results.php?id=136039](http://www.faunaeur.org/full_results.php?id=136039)

**Materials**

a. scientificName: *Medetera zinovjevi*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Negrobov, 1967; country: Finland; stateProvince: Ks; municipality: Taivalkoski; locality: Syväoja; verbatimCoordinates: 7299627:3560581; verbatimCoordinateSystem: ykj; decimalLatitude: 65.785; decimalLongitude: 28.319; geodeticDatum: WGS84; coordinatePrecision: 50; samplingProtocol: Malaise trap; eventDate: 2006-05-31/07-03; individualCount: 1; sex: male; recordedBy: Jukka Salmela; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen
b. scientificName: *Medetera zinovjevi*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Negrobov, 1967; country: Finland; stateProvince: Ks; municipality: Taivalkoski; locality: Kylmäoja; verbatimCoordinates: 7275293:3554865; verbatimCoordinateSystem: ykj; decimalLatitude: 65.568; decimalLongitude: 28.185; geodeticDatum: WGS84; coordinatePrecision: 50; samplingProtocol: Malaise trap; eventDate: 2006-05-31/07-03; individualCount: 1; sex: male; recordedBy: Jukka Salmela; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

**Distribution**

New to Finland. Previously known from Russia, Estonia, Lithuania and Norway (Negrobov 1991, Jonassen 1998, Grichanov 2002, Pakalniškis et al. 2006).

*Dolichopus annulitarsis* Ringdahl, 1920

- Fauna Europaea [http://www.faunaeur.org/full_results.php?id=135463](http://www.faunaeur.org/full_results.php?id=135463)

**Material**

a. scientificName: *Dolichopus annulitarsis*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Ringdahl, 1920; country: Finland; stateProvince: EnL; municipality: Enontekiö; locality: Kilpisjärvi, Urtasjoki; verbatimCoordinates: 769206:326363; verbatimCoordinateSystem: ykj; decimalLatitude: 69.206; decimalLongitude: 21.024; geodeticDatum: WGS84; eventDate: 2009-07-09/15; individualCount: 1; sex: male; recordedBy: Antti Haarto; otherCatalogNumbers: labelcode:AHa12-000157; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. A. Haarto; basisOfRecord: PreservedSpecimen

**Distribution**

New to Finland. A rare species previously known from Sweden and Alaska (Ringdahl 1920, Pollet 2013).

*Dolichopus cilifemoratus* Macquart, 1827

- Fauna Europaea [http://www.faunaeur.org/full_results.php?id=135484](http://www.faunaeur.org/full_results.php?id=135484)

**Nomenclature**

= *Dolichopus cilifemoratus* Macquart, 1827

= *Dolichopus pseudocilifemoratus* Stackelberg, 1930

**Material**

a. scientificName: *Dolichopus cilifemoratus*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Macquart, 1827; country: Finland; stateProvince: A; municipality: Eckerö; locality: Holmträsket; verbatimCoordinates: 670517:309246; verbatimCoordinateSystem: ykj; decimalLatitude: 60.253; decimalLongitude: 19.627;
geodeticDatum: WGS84; coordinatePrecision: 200; samplingProtocol: Malaise trap; eventDate: 2007-06-15/07-27; individualCount: 1; sex: male; recordedBy: Olli Autio; Jukka Salmela; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

Distribution

New to Finland. Widespread in Europe, but many records should be confirmed due to the frequent misuse of this name for *Dolichopus trivialis* Haliday, 1832 (Pollet 2013).

Taxon discussion

This name has a confused history of use, which can be traced back to von Stackelberg (1930), who erroneously synonymised Macquart's *cilifemoratus* with the species now called *D. trivialis* Haliday, 1832. He then created a new name, *pseudocilifemoratus* Stackelberg, 1930. Subsequent authors have often repeated Stackelberg's mistake. This record represents the first time the genuine *D. cilifemoratus* of Macquart is found in Finland.

*Dolichopus costalis* Frey, 1915

- Fauna Europaea [http://www.faunaeur.org/full_results.php?id=135495](http://www.faunaeur.org/full_results.php?id=135495)

Materials

a. scientificName: *Dolichopus costalis*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Frey, 1915; country: Finland; stateProvince: PPp; municipality: Tervola; locality: Karhakkamaanjänkä; verbatimCoordinates: 7346254:3415785; geodeticDatum: WGS84; coordinatePrecision: 50; samplingProtocol: Malaise trap; eventDate: 2004-05-29/06/28; individualCount: 3; sex: 2 males, 1 female; recordedBy: Jukka Salmela; Jari Ilmonen; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

b. scientificName: *Dolichopus costalis*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Frey, 1915; country: Finland; stateProvince: PPp; municipality: Tervola; locality: Keskipalo; verbatimCoordinates: 7344806:3415122; geodeticDatum: WGS84; coordinatePrecision: 50; samplingProtocol: Malaise trap; eventDate: 2004-05-29/06/28; individualCount: 2; sex: 1 male, 1 female; recordedBy: Jukka Salmela; Jari Ilmonen; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

c. scientificName: *Dolichopus costalis*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Frey, 1915; country: Finland; stateProvince: PPp; municipality: Tervola; locality: Hirviaapa; verbatimCoordinates: 7347499:3418464; geodeticDatum: WGS84; coordinatePrecision: 50; samplingProtocol: Malaise trap; eventDate: 2004-05-29/06/28; individualCount: 2; sex: males; recordedBy: Jukka Salmela; Jari Ilmonen; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen
d. scientificName: *Dolichopus costalis*; order: Diptera; family: Dolichopodidae;
   scientificNameAuthorship: Frey, 1915; country: Finland; stateProvince: PPp; municipality: Tervola; locality: Mulkosilmälampi; verbatimCoordinates: 7348838:3408017;
   verbatimCoordinateSystem: ykj; decimalLatitude: 66.218; decimalLongitude: 24.953;
   geodeticDatum: WGS84; coordinatePrecision: 50; samplingProtocol: Malaise trap;
   eventDate: 2004-05-29/06/28; individualCount: 1; sex: female; recordedBy: Jukka Salmela; Jari Ilmonen; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

e. scientificName: *Dolichopus costalis*; order: Diptera; family: Dolichopodidae;
   scientificNameAuthorship: Frey, 1915; country: Finland; stateProvince: PPp; municipality: Tervola; locality: Hirviaapa; verbatimCoordinates: 7347499:3418464;
   verbatimCoordinateSystem: ykj; decimalLatitude: 66.209; decimalLongitude: 25.185;
   geodeticDatum: WGS84; coordinatePrecision: 50; samplingProtocol: Malaise trap;
   eventDate: 2004-06-28/08-02; individualCount: 1; sex: male; recordedBy: Jukka Salmela; Jari Ilmonen; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

f. scientificName: *Dolichopus costalis*; order: Diptera; family: Dolichopodidae;
   scientificNameAuthorship: Frey, 1915; country: Finland; stateProvince: PPp; municipality: Tervola; locality: Karhakkamaanjänkä; verbatimCoordinates: 7346254:3415785;
   verbatimCoordinateSystem: ykj; decimalLatitude: 66.197; decimalLongitude: 25.127;
   geodeticDatum: WGS84; coordinatePrecision: 50; samplingProtocol: Malaise trap;
   eventDate: 2004-06-28/08-02; individualCount: 5; sex: 3 males, 2 females; recordedBy: Jukka Salmela; Jari Ilmonen; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

g. scientificName: *Dolichopus costalis*; order: Diptera; family: Dolichopodidae;
   scientificNameAuthorship: Frey, 1915; country: Finland; stateProvince: PPp; municipality: Tervola; locality: Keskipalo; verbatimCoordinates: 7344806:3415122;
   verbatimCoordinateSystem: ykj; decimalLatitude: 66.184; decimalLongitude: 25.113;
   geodeticDatum: WGS84; coordinatePrecision: 50; samplingProtocol: Malaise trap;
   eventDate: 2004-06-28/08-02; individualCount: 1; sex: male; recordedBy: Jukka Salmela; Jari Ilmonen; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

h. scientificName: *Dolichopus costalis*; order: Diptera; family: Dolichopodidae;
   scientificNameAuthorship: Frey, 1915; country: Finland; stateProvince: PPp; municipality: Tervola; locality: Mulkosilmälampi; verbatimCoordinates: 7348838:3408017;
   verbatimCoordinateSystem: ykj; decimalLatitude: 66.218; decimalLongitude: 24.953;
   geodeticDatum: WGS84; coordinatePrecision: 50; samplingProtocol: Malaise trap;
   eventDate: 2004-06-28/08-02; individualCount: 1; sex: female; recordedBy: Jukka Salmela; Jari Ilmonen; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

i. scientificName: *Dolichopus costalis*; order: Diptera; family: Dolichopodidae;
   scientificNameAuthorship: Frey, 1915; country: Finland; stateProvince: PPp; municipality: Tervola; locality: Hirviaapa; verbatimCoordinates: 7347499:3418464;
   verbatimCoordinateSystem: ykj; decimalLatitude: 66.209; decimalLongitude: 25.185;
   geodeticDatum: WGS84; coordinatePrecision: 50; samplingProtocol: sweep netting;
   eventDate: 2006-07-08; individualCount: 1; sex: male; recordedBy: Jere Kahanpää; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

j. scientificName: *Dolichopus costalis*; order: Diptera; family: Dolichopodidae;
   scientificNameAuthorship: Frey, 1915; country: Finland; stateProvince: PPp; municipality:
Distribution

New to (present-day) Finland. Previously recorded as Finnish based on specimens from areas ceded to Russia after the second world war (Kahanpää and Grichanov 2004). Also reported from Sweden, northern Russia, Mongolia and (doubtfully) in the Oriental region (Frey 1915, Grichanov 2002, Pollet 2013).

Biology

A species of eutrophic calcareous spring-fed fens in northern Finland.

**Dolichopus lancearius** Hedström, 1966

- Fauna Europaea [http://www.faunaeur.org/full_results.php?id=135529](http://www.faunaeur.org/full_results.php?id=135529)

Materials

a. **scientificName**: *Dolichopus lancearius*; **order**: Diptera; **family**: Dolichopodidae; **scientificNameAuthorship**: Hedström, 1966; **country**: Finland; **stateProvince**: PPp; **municipality**: Tervola; **locality**: Ruuttulampi III; **verbatimCoordinates**: 7347734:3409699; **verbatimCoordinateSystem**: ykj; **decimalLatitude**: 66.209; **decimalLongitude**: 24.991; **geodeticDatum**: WGS84; **coordinatePrecision**: 100; **samplingProtocol**: Malaise trap; **eventDate**: 2004-06-28/08-02; **individualCount**: 3; **sex**: 2 males, 1 female; **recordedBy**: Jukka Salmela; Jari Ilmonen; **identifiedBy**: Jere Kahanpää; **collectionCode**: Priv. Coll. J. Kahanpää; **basisOfRecord**: PreservedSpecimen

b. **scientificName**: *Dolichopus lancearius*; **order**: Diptera; **family**: Dolichopodidae; **scientificNameAuthorship**: Hedström, 1966; **country**: Finland; **stateProvince**: PPp; **municipality**: Tervola; **locality**: Hirviaapa; **verbatimCoordinates**: 7347499:3418464; **verbatimCoordinateSystem**: ykj; **decimalLatitude**: 66.209; **decimalLongitude**: 25.185; **geodeticDatum**: WGS84; **coordinatePrecision**: 100; **samplingProtocol**: Malaise trap; **eventDate**: 2004-06-28/08-02; **individualCount**: 3; **sex**: 3 females; **recordedBy**: Jukka Salmela; Jari Ilmonen; **identifiedBy**: Jere Kahanpää; **collectionCode**: Priv. Coll. J. Kahanpää; **basisOfRecord**: PreservedSpecimen

c. **scientificName**: *Dolichopus lancearius*; **order**: Diptera; **family**: Dolichopodidae; **scientificNameAuthorship**: Hedström, 1966; **country**: Finland; **stateProvince**: PPp; **municipality**: Tervola; **locality**: Karhakkamaa; **verbatimCoordinates**: 7346879:3415620; **verbatimCoordinateSystem**: ykj; **decimalLatitude**: 66.203; **decimalLongitude**: 25.123; **geodeticDatum**: WGS84; **coordinatePrecision**: 100; **samplingProtocol**: Malaise trap; **eventDate**: 2004-06-28/08-02; **individualCount**: 1; **sex**: female; **recordedBy**: Jukka Salmela; Jari Ilmonen; **identifiedBy**: Jere Kahanpää; **collectionCode**: Priv. Coll. J. Kahanpää; **basisOfRecord**: PreservedSpecimen

d. **scientificName**: *Dolichopus lancearius*; **order**: Diptera; **family**: Dolichopodidae; **scientificNameAuthorship**: Hedström, 1966; **country**: Finland; **stateProvince**: PPp;
**Dolichopus nigripes** Fallén, 1823

- Fauna Europaea [http://www.faunaeur.org/full_results.php?id=135572](http://www.faunaeur.org/full_results.php?id=135572)

**Materials**

a. scientificName: *Dolichopus nigripes*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Fallén, 1823; country: Finland; stateProvince: U; municipality: Nurmijärvi; locality: Lallinsuo; verbatimCoordinates: 6700928:3372711; verbatimCoordinateSystem: ykj; decimalLatitude: 60.399; decimalLongitude: 24.688; geodeticDatum: WGS84; coordinatePrecision: 50; samplingProtocol: pan trap (white); eventDate: 2007-05-23/04-07; individualCount: 1; sex: male; recordedBy: Jere Kahanpää; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

b. scientificName: *Dolichopus nigripes*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Fallén, 1823; country: Finland; stateProvince: V; municipality: Karjaa; locality: Långån; verbatimCoordinates: 6665901:3321021; verbatimCoordinateSystem: ykj; decimalLatitude: 60.066; decimalLongitude: 23.782; geodeticDatum: WGS84; coordinatePrecision: 50; samplingProtocol: Malaise trap; eventDate: 2007-05-29/07-10; individualCount: 2; sex: 1 male, 1 female; recordedBy: Jere Kahanpää; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

**Distribution**

New to Finland. Widespread in Europe north of the Alps (Pollet 2013).

**Sybistroma discipes** (Germar, 1817)

- Fauna Europaea [http://www.faunaeur.org/full_results.php?id=136349](http://www.faunaeur.org/full_results.php?id=136349)

**Material**

a. scientificName: *Sybistroma discipes*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: (Germar, 1817); country: Finland; stateProvince: U; municipality: Espoo; locality: Siikajärvi; verbatimCoordinates: 6686:3363; verbatimCoordinateSystem: ykj; decimalLatitude: 60.27; decimalLongitude: 24.53; geodeticDatum: WGS84; eventDate: 2012-08-20; individualCount: 1; sex: male;
Distribution

New to Finland. Widespread in Europe, also known from the Near East (Pollet 2013).

**Argyra setulipes** Becker, 1918

- Fauna Europaea [http://www.faunaeur.org/full_results.php?id=135240](http://www.faunaeur.org/full_results.php?id=135240)

**Material**

a. scientificName: *Argyra setulipes*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Becker, 1918; country: Finland; stateProvince: U; municipality: Siuntio; locality: Lempansån; verbatimCoordinates: 6681386:3341378; verbatimCoordinateSystem: ykj; decimalLatitude: 60.213; decimalLongitude: 24.135; geodeticDatum: WGS84; coordinatePrecision: 50; samplingProtocol: Malaise trap; eventDate: 2007-06-08/07-10; individualCount: 4; sex: males; recordedBy: Jere Kahanpää; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

**Distribution**

New to Finland. An east European species, previously recorded from Austria, Hungary, European Russia and Ukraine (Pollet 2013).

**Biology**

Caught on the silt banks of a small stream in a herb-rich forest.

**Asyndetus latifrons** (Loew, 1857)

- Fauna Europaea [http://www.faunaeur.org/full_results.php?id=135254](http://www.faunaeur.org/full_results.php?id=135254)

**Materials**

a. scientificName: *Asyndetus latifrons*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: (Loew, 1857); country: Finland; stateProvince: U; municipality: Loviisa; locality: Kuggom, sand pit; verbatimCoordinates: 67060:84548; verbatimCoordinateSystem: etrs-tm35fin; decimalLatitude: 60.488; decimalLongitude: 26.178; geodeticDatum: WGS84; coordinatePrecision: 200; samplingProtocol: sweep netting; eventDate: 2010-07-15; individualCount: 1; sex: female; recordedBy: Jari Flinck; otherCatalogNumbers: labelcode: JF10-4448; identifiedBy: Marc Pollet; basisOfRecord: PreservedSpecimen

b. scientificName: *Asyndetus latifrons*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: (Loew, 1857); country: Finland; stateProvince: U; municipality: Loviisa; locality: Kuggum, mossen; verbatimCoordinates: 6706975:8454413; verbatimCoordinateSystem: etrs-tm35fin; decimalLatitude: 60.496; decimalLongitude:
c. scientificName: *Asyndetus latifrons*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: (Loew, 1857); country: Finland; stateProvince: U; municipality: Lovisa; locality: Kuggom, sand pit; verbatimCoordinates: 67060:84548; verbatimCoordinateSystem: etrs-tm35fin; decimalLatitude: 60.488; decimalLongitude: 26.178; geodeticDatum: WGS84; coordinatePrecision: 200; samplingProtocol: Malaise trap; eventDate: 2011-07-02; individualCount: 1; sex: male; recordedBy: Jari Flinck; otherCatalogNumbers: labelcode: Tube 11/2; identifiedBy: Marc Pollet; basisOfRecord: PreservedSpecimen

d. scientificName: *Asyndetus latifrons*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: (Loew, 1857); country: Finland; stateProvince: U; municipality: Lovisa; locality: Kuggom, sand pit; verbatimCoordinates: 67060:84548; verbatimCoordinateSystem: etrs-tm35fin; decimalLatitude: 60.488; decimalLongitude: 26.178; geodeticDatum: WGS84; coordinatePrecision: 200; samplingProtocol: pan trap; eventDate: 2011-07-02; individualCount: 1; sex: male; recordedBy: Jari Flinck; otherCatalogNumbers: labelcode: JF11-0875; identifiedBy: Stefan Naglis; basisOfRecord: PreservedSpecimen

e. scientificName: *Asyndetus latifrons*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: (Loew, 1857); country: Finland; stateProvince: U; municipality: Lovisa; locality: Kuggom, sand pit; verbatimCoordinates: 67060:84548; verbatimCoordinateSystem: etrs-tm35fin; decimalLatitude: 60.488; decimalLongitude: 26.178; geodeticDatum: WGS84; coordinatePrecision: 200; samplingProtocol: pan trap; eventDate: 2011-07-02; individualCount: 1; sex: female; recordedBy: Jari Flinck; otherCatalogNumbers: labelcode: Tube 11/1; identifiedBy: Marc Pollet; basisOfRecord: PreservedSpecimen

f. scientificName: *Asyndetus latifrons*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: (Loew, 1857); country: Finland; stateProvince: U; municipality: Lovisa; locality: Kuggom, sand pit; verbatimCoordinates: 67060:84548; verbatimCoordinateSystem: etrs-tm35fin; decimalLatitude: 60.488; decimalLongitude: 26.178; geodeticDatum: WGS84; coordinatePrecision: 200; samplingProtocol: pan trap; eventDate: 2011-07-06/07; individualCount: 4; sex: 3 males, 1 female; recordedBy: Jari Flinck; otherCatalogNumbers: labelcode: Tube 11/4; identifiedBy: Marc Pollet; basisOfRecord: PreservedSpecimen

g. scientificName: *Asyndetus latifrons*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: (Loew, 1857); country: Finland; stateProvince: U; municipality: Lovisa; locality: Kuggom, sand pit; verbatimCoordinates: 67060:84548; verbatimCoordinateSystem: etrs-tm35fin; decimalLatitude: 60.488; decimalLongitude: 26.178; geodeticDatum: WGS84; coordinatePrecision: 200; samplingProtocol: pan trap; eventDate: 2011-07-08/09; individualCount: 13; sex: 9 males, 4 females; recordedBy: Jari Flinck; otherCatalogNumbers: labelcode: Tube 11/3; identifiedBy: Marc Pollet; basisOfRecord: PreservedSpecimen

h. scientificName: *Asyndetus latifrons*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: (Loew, 1857); country: Finland; stateProvince: U; municipality: Lovisa; locality: Kuggom, sand pit; verbatimCoordinates: 67060:84548; verbatimCoordinateSystem: etrs-tm35fin; decimalLatitude: 60.488; decimalLongitude: 26.178; geodeticDatum: WGS84; coordinatePrecision: 200; samplingProtocol: pan trap; eventDate: 2011-07-08/09; individualCount: 13; sex: 9 males, 4 females; recordedBy: Jari Flinck; otherCatalogNumbers: labelcode: Tube 11/3; identifiedBy: Marc Pollet; basisOfRecord: PreservedSpecimen
**Distribution**

New to Finland. Widespread in Europe reaching the Near East and Siberia (Pollet 2013).

### *Chrysotus cupreus* (Macquart, 1827)

* Fauna Europaea [http://www.faunaeur.org/full_results.php?id=135341](http://www.faunaeur.org/full_results.php?id=135341)

### Material

a. scientificName: *Chrysotus cupreus*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: (Macquart, 1827); country: Finland; stateProvince: A; municipality: Lemland; locality: Näsen; verbatimCoordinates: 667531:31171; verbatimCoordinateSystem: ykj; decimalLatitude: 60.009; decimalLongitude: 20.126; geodeticDatum: WGS84; coordinatePrecision: 300; eventDate: 2007-06-15; individualCount: 3; sex: 2 males, 1 female; recordedBy: Jere Kahanpää; otherCatalogNumbers: labelcode: jka07-01767, jka07-01794, jka07-01766; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen
Distribution

New to Finland. Widespread in Europe, reaching the Middle East (Pollet 2013).

*Campsicnemus femoratus* Ringdahl, 1949

- Fauna Europaea [http://www.faunaeur.org/full_results.php?id=135291](http://www.faunaeur.org/full_results.php?id=135291)

Materials

**a.** scientificName: *Campsicnemus femoratus*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Ringdahl, 1949; country: Finland; stateProvince: Ks; municipality: Kuusamo; locality: Paahtojärvi; verbatimCoordinates: 7347004:3614371; verbatimCoordinateSystem: ykj; decimalLatitude: 66.195; decimalLongitude: 29.535; geodeticDatum: WGS84; coordinatePrecision: 100; samplingProtocol: Malaise trap; eventDate: 2005-05-23/06-20; individualCount: 5; sex: 4 males, 1 female; recordedBy: Jukka Salmela; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

**b.** scientificName: *Campsicnemus femoratus*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Ringdahl, 1949; country: Finland; stateProvince: Ks; municipality: Kuusamo; locality: Isojärvenpuro; verbatimCoordinates: 7357735:3608139; verbatimCoordinateSystem: ykj; decimalLatitude: 66.293; decimalLongitude: 29.406; geodeticDatum: WGS84; coordinatePrecision: 100; samplingProtocol: Malaise trap; eventDate: 2005-05-23/06-20; individualCount: 1; sex: female; recordedBy: Jukka Salmela; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

**c.** scientificName: *Campsicnemus femoratus*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Ringdahl, 1949; country: Finland; stateProvince: Ks; municipality: Kuusamo; locality: Saaripuro; verbatimCoordinates: 7357336:3611517; verbatimCoordinateSystem: ykj; decimalLatitude: 66.288; decimalLongitude: 29.481; geodeticDatum: WGS84; coordinatePrecision: 100; samplingProtocol: Malaise trap; eventDate: 2005-05-23/06-20; individualCount: 1; sex: female; recordedBy: Jukka Salmela; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

**d.** scientificName: *Campsicnemus femoratus*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Ringdahl, 1949; country: Finland; stateProvince: Ks; municipality: Kuusamo; locality: Uopajanpuro; verbatimCoordinates: 7362617:3612763; verbatimCoordinateSystem: ykj; decimalLatitude: 66.335; decimalLongitude: 29.513; geodeticDatum: WGS84; coordinatePrecision: 100; samplingProtocol: Malaise trap; eventDate: 2005-05-23/06-20; individualCount: 3; sex: 1 male, 2 females; recordedBy: Jukka Salmela; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

**e.** scientificName: *Campsicnemus femoratus*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Ringdahl, 1949; country: Finland; stateProvince: Ks; municipality: Kuusamo; locality: Uopaja; verbatimCoordinates: 7363447:3613209; verbatimCoordinateSystem: ykj; decimalLatitude: 66.343; decimalLongitude: 29.524; geodeticDatum: WGS84; coordinatePrecision: 100; samplingProtocol: Malaise trap; eventDate: 2005-05-23/06-20; individualCount: 3; sex: males; recordedBy: Jukka
Salmela; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

f. scientificName: Campsicnemus femoratus; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Ringdahl, 1949; country: Finland; stateProvince: Ks; municipality: Kuusamo; locality: Merenoja; verbatimCoordinates: 7364088:3605383; verbatimCoordinateSystem: ykj; decimalLatitude: 66.351; decimalLongitude: 29.350; geodeticDatum: WGS84; coordinatePrecision: 100; samplingProtocol: Malaise trap; eventDate: 2005-05-23/06-20; individualCount: 1; sex: male; recordedBy: Jukka Salmela; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

g. scientificName: Campsicnemus femoratus; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Ringdahl, 1949; country: Finland; stateProvince: Ks; municipality: Kuusamo; locality: Kalliojoki; verbatimCoordinates: 7344909:3610594; verbatimCoordinateSystem: ykj; decimalLatitude: 66.177; decimalLongitude: 29.449; geodeticDatum: WGS84; coordinatePrecision: 100; samplingProtocol: Malaise trap; eventDate: 2005-05-23/06-20; individualCount: 2; sex: males; recordedBy: Jukka Salmela; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

h. scientificName: Campsicnemus femoratus; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Ringdahl, 1949; country: Finland; stateProvince: Ks; municipality: Kuusamo; locality: Putaanoja; verbatimCoordinates: 7367392:3608548; verbatimCoordinateSystem: ykj; decimalLatitude: 66.380; decimalLongitude: 29.423; geodeticDatum: WGS84; coordinatePrecision: 100; samplingProtocol: Malaise trap; eventDate: 2005-05-23/06-20; individualCount: 2; sex: males; recordedBy: Jukka Salmela; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

i. scientificName: Campsicnemus femoratus; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Ringdahl, 1949; country: Finland; stateProvince: Ks; municipality: Kuusamo; locality: Uopaja; verbatimCoordinates: 7363447:3613209; verbatimCoordinateSystem: ykj; decimalLatitude: 66.343; decimalLongitude: 29.524; geodeticDatum: WGS84; coordinatePrecision: 100; samplingProtocol: Malaise trap; eventDate: 2005-05-23/06-20; individualCount: 2; sex: males; recordedBy: Jukka Salmela; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

j. scientificName: Campsicnemus femoratus; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Ringdahl, 1949; country: Finland; stateProvince: Ks; municipality: Taivalkoski; locality: Paavonoja; verbatimCoordinates: 7295643:3565726; verbatimCoordinateSystem: ykj; decimalLatitude: 65.748; decimalLongitude: 28.430; geodeticDatum: WGS84; coordinatePrecision: 100; samplingProtocol: Malaise trap; eventDate: 2005-08-03/09-20; individualCount: 13; sex: 2 males, 11 females; recordedBy: Jukka Salmela; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

k. scientificName: Campsicnemus femoratus; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Ringdahl, 1949; country: Finland; stateProvince: Ks; municipality: Taivalkoski; locality: Hevosniitynoja; verbatimCoordinates: 7268926:3555642; verbatimCoordinateSystem: ykj; decimalLatitude: 65.511; decimalLongitude: 28.199; geodeticDatum: WGS84; coordinatePrecision: 100; samplingProtocol: Malaise trap; eventDate: 2006-05-31/07-03; individualCount: 13; sex: 2 males, 11 females; recordedBy: Jukka Salmela; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen
l. scientificName: *Campsicnemus femoratus*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Ringdahl, 1949; country: Finland; stateProvince: Ks; municipality: Taivalkoski; locality: Horsmanoja; verbatimCoordinates: 7246144:3558778; verbatimCoordinateSystem: ykj; decimalLatitude: 65.306; decimalLongitude: 28.257; geodeticDatum: WGS84; coordinatePrecision: 100; samplingProtocol: Malaise trap; eventDate: 2006-05-31/07-03; individualCount: 1; sex: female; recordedBy: Jukka Salmela; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

m. scientificName: *Campsicnemus femoratus*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Ringdahl, 1949; country: Finland; stateProvince: Ks; municipality: Taivalkoski; locality: Syväoja; verbatimCoordinates: 7299627:3560581; verbatimCoordinateSystem: ykj; decimalLatitude: 65.785; decimalLongitude: 28.319; geodeticDatum: WGS84; coordinatePrecision: 100; samplingProtocol: Malaise trap; eventDate: 2006-05-31/07-03; individualCount: 1; sex: female; recordedBy: Jukka Salmela; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

n. scientificName: *Campsicnemus femoratus*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Ringdahl, 1949; country: Finland; stateProvince: Ks; municipality: Taivalkoski; locality: Säkkisenoja; verbatimCoordinates: 7280237:3534568; verbatimCoordinateSystem: ykj; decimalLatitude: 65.615; decimalLongitude: 27.746; geodeticDatum: WGS84; coordinatePrecision: 100; samplingProtocol: Malaise trap; eventDate: 2006-05-31/07-03; individualCount: 1; sex: male; recordedBy: Jukka Salmela; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

o. scientificName: *Campsicnemus femoratus*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Ringdahl, 1949; country: Finland; stateProvince: Ks; municipality: Taivalkoski; locality: Pahkaoja; verbatimCoordinates: 7281402:3560358; verbatimCoordinateSystem: ykj; decimalLatitude: 65.622; decimalLongitude: 28.306; geodeticDatum: WGS84; coordinatePrecision: 100; samplingProtocol: Malaise trap; eventDate: 2006-05-31/07-03; individualCount: 1; sex: male; recordedBy: Jukka Salmela; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

p. scientificName: *Campsicnemus femoratus*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Ringdahl, 1949; country: Finland; stateProvince: Ks; municipality: Taivalkoski; locality: Hurunoja; verbatimCoordinates: 7248770:3567830; verbatimCoordinateSystem: ykj; decimalLatitude: 65.328; decimalLongitude: 28.452; geodeticDatum: WGS84; coordinatePrecision: 100; samplingProtocol: Malaise trap; eventDate: 2006-05-31/07-03; individualCount: 1; sex: female; recordedBy: Jukka Salmela; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

q. scientificName: *Campsicnemus femoratus*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Ringdahl, 1949; country: Finland; stateProvince: Ks; municipality: Taivalkoski; locality: Pajuoja; verbatimCoordinates: 7254119:3564978; verbatimCoordinateSystem: ykj; decimalLatitude: 65.376; decimalLongitude: 28.393; geodeticDatum: WGS84; coordinatePrecision: 100; samplingProtocol: Malaise trap; eventDate: 2006-05-31/07-03; individualCount: 1; sex: male; recordedBy: Jukka Salmela; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

r. scientificName: *Campsicnemus femoratus*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Ringdahl, 1949; country: Finland; stateProvince: Ks;
municipality: Taivalkoski; locality: Kylmäoja; verbatimCoordinates: 7275293:3554865;
verbatimCoordinateSystem: ykj; decimalLatitude: 65.568; decimalLongitude: 28.185;
geodeticDatum: WGS84; coordinatePrecision: 100; samplingProtocol: Malaise trap;
eventDate: 2006-05-31/07-03; individualCount: 6; sex: 1 male, 5 females; recordedBy: Jukka Salmela; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

s. scientificName: *Campsicnemus femoratus*; order: Diptera; family: Dolichopodidae;
scientificNameAuthorship: Ringdahl, 1949; country: Finland; stateProvince: Ks;
municipality: Taivalkoski; locality: Hevosniitynoja; verbatimCoordinates: 7268926:3555642;
verbatimCoordinateSystem: ykj; decimalLatitude: 65.511; decimalLongitude: 28.199; geodeticDatum: WGS84; coordinatePrecision: 100; samplingProtocol: Malaise trap; eventDate: 2006-08-1/09-15; individualCount: 2; sex: 1 male, 1 female; recordedBy: Jukka Salmela; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

t. scientificName: *Campsicnemus femoratus*; order: Diptera; family: Dolichopodidae;
scientificNameAuthorship: Ringdahl, 1949; country: Finland; stateProvince: PPe;
municipality: Pudasjärvi; locality: Pelto-oja; verbatimCoordinates: 7243241:3547649;
verbatimCoordinateSystem: ykj; decimalLatitude: 65.785; decimalLongitude: 28.319; geodeticDatum: WGS84; coordinatePrecision: 100; samplingProtocol: Malaise trap; eventDate: 2004-05-29/06-28; individualCount: 1; sex: male; recordedBy: Jukka Salmela; Jari Ilmonen; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

u. scientificName: *Campsicnemus femoratus*; order: Diptera; family: Dolichopodidae;
scientificNameAuthorship: Ringdahl, 1949; country: Finland; stateProvince: PPPp;
municipality: Tervola; locality: Yrttijänkä; verbatimCoordinates: 7346833:3407825;
verbatimCoordinateSystem: ykj; decimalLatitude: 66.200; decimalLongitude: 24.950; geodeticDatum: WGS84; coordinatePrecision: 100; samplingProtocol: Malaise trap; eventDate: 2004-05-29/06-28; individualCount: 1; sex: male; recordedBy: Jukka Salmela; Jari Ilmonen; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

w. scientificName: *Campsicnemus femoratus*; order: Diptera; family: Dolichopodidae;
scientificNameAuthorship: Ringdahl, 1949; country: Finland; stateProvince: Kn;
municipality: Suomussalmi; locality: Toskanoja; verbatimCoordinates: 7237294:3555026;
verbatimCoordinateSystem: ykj; decimalLatitude: 65.227; decimalLongitude: 28.173;
**Distribution**

New to Finland. Previously known from Sweden and Russian East Siberia (Negrobov 1991, Ringdahl 1949).

**Biology**

*C. femoratus* is common and occasionally abundant along forest streams in the central boreal zone of Finland. Its rarity in museum collections is explained by the combination of a northern distribution, an early/late occurrence of the adults and a species-poor habitat often skipped by collectors of Dolichopodidae: the adults are on the wing in May and September when these forests may still have a partial snow cover.

**Micromorphus claripennis** (Strobl, 1899)

- Fauna Europaea [http://www.faunaeur.org/full_results.php?id=136047](http://www.faunaeur.org/full_results.php?id=136047)

**Materials**

a. scientificName: *Micromorphus claripennis*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: (Strobl, 1899); country: Finland; stateProvince: V; municipality: Karjaa; locality: Mustio; verbatimCoordinates: 667368:332560; verbatimCoordinateSystem: ykj; decimalLatitude: 60.138; decimalLongitude: 23.858; geodeticDatum: WGS84; coordinatePrecision: 50; samplingProtocol: sweep netting; eventDate: 2006-6-20; individualCount: 1; sex: male; recordedBy: Jere Kahanpää; identifiedBy: Jere Kahanpää; collectionID: [http://id.luomus.fi/HR.110](http://id.luomus.fi/HR.110); institutionCode: MZH; collectionCode: Diptera Fennica; basisOfRecord: PreservedSpecimen

b. scientificName: *Micromorphus claripennis*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: (Strobl, 1899); country: Finland; stateProvince: V; municipality: Karjaa; locality: Mustio; verbatimCoordinates: 667368:332560; verbatimCoordinateSystem: ykj; decimalLatitude: 60.138; decimalLongitude: 23.858; geodeticDatum: WGS84; coordinatePrecision: 50; samplingProtocol: sweep netting; eventDate: 2006-6-20; individualCount: 1; sex: male; recordedBy: Jere Kahanpää; identifiedBy: Jere Kahanpää; collectionID: [http://id.luomus.fi/HR.110](http://id.luomus.fi/HR.110); institutionCode: MZH; collectionCode: Diptera Fennica; basisOfRecord: PreservedSpecimen
Distribution

New to Finland. Previously known from NW Russia, Germany and Spain (Bellstedt et al. 1999, Carles-Tolrà Hjort-Andersen 2002, Kahanpää and Winqvist 2005). As the European *Micromorphus* are in need of revision, the distribution of most species is poorly known.

Notes

Identified using Negrobov (2000).

*Achalcus nigropunctatus* Pollét & Brunhues, 1996

- Fauna Europaea [http://www.faunaeur.org/full_results.php?id=135164](http://www.faunaeur.org/full_results.php?id=135164)

Materials

a. scientificName: *Achalcus nigropunctatus*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Pollét & Brunhues, 1996; country: Finland; stateProvince: V; municipality: Karjaa; locality: Långån; verbatimCoordinates: 6665901:3321021; verbatimCoordinateSystem: ykj; decimalLatitude: 60.066; decimalLongitude: 23.782; geodeticDatum: WGS84; coordinatePrecision: 200; samplingProtocol: Malaise trap; eventDate: 2007-05-09/07-10; individualCount: 20; sex: 9 males, 11 females; recordedBy: Jere Kahanpää; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

b. scientificName: *Achalcus nigropunctatus*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Pollét & Brunhues, 1996; country: Finland; stateProvince: V; municipality: Karjaa; locality: Långån; verbatimCoordinates: 6665901:3321021; verbatimCoordinateSystem: ykj; decimalLatitude: 60.066; decimalLongitude: 23.782; geodeticDatum: WGS84; coordinatePrecision: 200; samplingProtocol: Malaise trap; eventDate: 2007-07-10/08-04; individualCount: 8; sex: 4 males, 4 females; recordedBy: Jere Kahanpää; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen
c. scientificName: Achalcus nigropunctatus; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Pollét & Brunhues, 1996; country: Finland; stateProvince: A; municipality: Eckerö; locality: Holmträsket; verbatimCoordinates: 670517:309246; verbatimCoordinateSystem: ykj; decimalLatitude: 60.253; decimalLongitude: 19.627; geodeticDatum: WGS84; coordinatePrecision: 200; samplingProtocol: Malaise trap; eventDate: 2007-06-15/07-27; individualCount: 1; sex: male; recordedBy: Olli Autio; Jukka Salmela; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen
d. scientificName: Achalcus nigropunctatus; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Pollét & Brunhues, 1996; country: Finland; stateProvince: A; municipality: Jomala; locality: Timmermyran; verbatimCoordinates: 668995:309847; verbatimCoordinateSystem: ykj; decimalLatitude: 60.123; decimalLongitude: 19.765; geodeticDatum: WGS84; coordinatePrecision: 200; samplingProtocol: Malaise trap; eventDate: 2007-06-15/07-27; individualCount: 9; sex: 5 males, 4 females; recordedBy: Olli Autio; Jukka Salmela; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen
e. scientificName: Achalcus nigropunctatus; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Pollét & Brunhues, 1996; country: Finland; stateProvince: A; municipality: Jomala; locality: Moren; verbatimCoordinates: 669462:310386; verbatimCoordinateSystem: ykj; decimalLatitude: 60.170; decimalLongitude: 19.852; geodeticDatum: WGS84; coordinatePrecision: 200; samplingProtocol: Malaise trap; eventDate: 2007-06-15/07-27; individualCount: 1; sex: male; recordedBy: Olli Autio; Jukka Salmela; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen
f. scientificName: Achalcus nigropunctatus; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Pollét & Brunhues, 1996; country: Finland; stateProvince: A; municipality: Hammarland; locality: Ängesjö; verbatimCoordinates: 670718:309841; verbatimCoordinateSystem: ykj; decimalLatitude: 60.276; decimalLongitude: 19.730; geodeticDatum: WGS84; coordinatePrecision: 200; samplingProtocol: Malaise trap; eventDate: 2007-06-16/07-28; individualCount: 2; sex: males; recordedBy: Jukka Salmela; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen
g. scientificName: Achalcus nigropunctatus; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Pollét & Brunhues, 1996; country: Finland; stateProvince: InL; municipality: Inari; locality: Mustajuurakkojärveen laskeva puro; verbatimCoordinates: 7619338:3554361; verbatimCoordinateSystem: ykj; decimalLatitude: 68.652; decimalLongitude: 28.333; geodeticDatum: WGS84; coordinatePrecision: 200; samplingProtocol: Malaise trap; eventDate: 2004-07-06/08-01; individualCount: 2; sex: males; recordedBy: Jukka Salmela; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen
h. scientificName: Achalcus nigropunctatus; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Pollét & Brunhues, 1996; country: Finland; stateProvince: InL; municipality: Inari; locality: Mustajuurakkojärveen laskeva puro; verbatimCoordinates: 7619338:3554361; verbatimCoordinateSystem: ykj; decimalLatitude: 68.652; decimalLongitude: 28.333; geodeticDatum: WGS84; coordinatePrecision: 200; samplingProtocol: Malaise trap; eventDate: 2004-07-06/08-01; individualCount: 1; sex: males; recordedBy: Jukka Salmela; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen
i. scientificName: Achalcus nigropunctatus; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Pollét & Brunhues, 1996; country: Finland; stateProvince: EP;
municipality: Närpiö; locality: Hinjärvsträsket; verbatimCoordinates: 696456:320987; verbatimCoordinateSystem: ykj; decimalLatitude: 62.670; decimalLongitude: 21.330; geodeticDatum: WGS84; coordinatePrecision: 200; samplingProtocol: Malaise trap; eventDate: 2005-07-01/27; individualCount: 3; sex: 1 male, 2 females; recordedBy: Jere Kahanpää; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

j. scientificName: *Achalcus nigropunctatus*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Pollét & Brunhues, 1996; country: Finland; stateProvince: PE; municipality: Liminka; locality: Virkkula; verbatimCoordinates: 719323:341985; verbatimCoordinateSystem: ykj; decimalLatitude: 64.827; decimalLongitude: 25.308; geodeticDatum: WGS84; coordinatePrecision: 200; samplingProtocol: Malaise trap; eventDate: 2005-07-04/30; individualCount: 4; sex: 2 males, 2 females; recordedBy: Jere Kahanpää; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

k. scientificName: *Achalcus nigropunctatus*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Pollét & Brunhues, 1996; country: Finland; stateProvince: PPp; municipality: Tervola; locality: Keskipalo; verbatimCoordinates: 7344806:3415122; verbatimCoordinateSystem: ykj; decimalLatitude: 66.184; decimalLongitude: 25.113; geodeticDatum: WGS84; coordinatePrecision: 200; samplingProtocol: Malaise trap; eventDate: 2004-06-28/08-02; individualCount: 2; sex: 1 male, 1 female; recordedBy: Jukka Salmela; Jari Ilmonen; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

l. scientificName: *Achalcus nigropunctatus*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Pollét & Brunhues, 1996; country: Finland; stateProvince: PPp; municipality: Tervola; locality: RuuttulampiII; verbatimCoordinates: 7347734:3409699; verbatimCoordinateSystem: ykj; decimalLatitude: 66.209; decimalLongitude: 24.991; geodeticDatum: WGS84; coordinatePrecision: 200; samplingProtocol: Malaise trap; eventDate: 2004-06-28/08-02; individualCount: 1; sex: male; recordedBy: Jukka Salmela; Jari Ilmonen; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

m. scientificName: *Achalcus nigropunctatus*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Pollét & Brunhues, 1996; country: Finland; stateProvince: PPp; municipality: Tervola; locality: Sompujärvi NE2; verbatimCoordinates: 7320408:3414913; verbatimCoordinateSystem: ykj; decimalLatitude: 65.966; decimalLongitude: 25.125; geodeticDatum: WGS84; coordinatePrecision: 200; samplingProtocol: Malaise trap; eventDate: 2004-06-28/08-02; individualCount: 1; sex: male; recordedBy: Jukka Salmela; Jari Ilmonen; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

n. scientificName: *Achalcus nigropunctatus*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Pollét & Brunhues, 1996; country: Finland; stateProvince: PPp; municipality: Tervola; locality: Karhakkamaa; verbatimCoordinates: 7346879:3415620; verbatimCoordinateSystem: ykj; decimalLatitude: 66.203; decimalLongitude: 25.123; geodeticDatum: WGS84; coordinatePrecision: 200; samplingProtocol: Malaise trap; eventDate: 2004-06-28/08-02; individualCount: 1; sex: male; recordedBy: Jukka Salmela; Jari Ilmonen; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

o. scientificName: *Achalcus nigropunctatus*; order: Diptera; family: Dolichopodidae; scientificNameAuthorship: Pollét & Brunhues, 1996; country: Finland; stateProvince: KP; municipality: Kruunupyy; locality: Hällörsfjärden; verbatimCoordinates: 707486:329832; verbatimCoordinateSystem: ykj; decimalLatitude: 63.717; decimalLongitude: 22.914;
geodeticDatum: WGS84; coordinatePrecision: 200; samplingProtocol: Malaise trap; eventDate: 2005-07-02/07-29; individualCount: 1; sex: male; recordedBy: Jere Kahanpää; identifiedBy: Jere Kahanpää; collectionCode: Priv. Coll. J. Kahanpää; basisOfRecord: PreservedSpecimen

Distribution

New to Finland. Previously found in the United Kingdom, Germany, Switzerland, France, the Czech Republic and Slovakia (Drake 2008, Pollet 2009, Pollet 2013).

Biology

Locally common on open seashore or lakeshore wetlands characterised by Potentilla palustris intermixed with large Carex species. Unlike Achalcus flavicollis (Meigen, 1824) and Achalcus vaillanti Brunhes, 1987, A. nigropunctatus is only rarely caught in pure Phragmites stands.

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A part of this study is based on material collected during the Research Programme of Deficiently Known and Threatened Forest Species 2003–2007 (PUTTE) by the author, Jari Ilmonen and Jevgeni Jakovlev. I would also like to thank Dr. Dan Bickel for his valuable comments on taxonomy of Medera and entomological nomenclature.

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