

# The collection of Alysiinae LEACH, 1815 of the Naturkundemuseum Erfurt, Germany (Hymenoptera: Braconidae)

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**Abstract.** A total of 62 species of Alysiinae (Hymenoptera: Braconidae) are deposited in the entomological collection at the Naturkundemuseum Erfurt (Germany). 29 species are recorded for the first time for Germany, and each one species new for Georgia, Nepal, and Switzerland.

**Key words.** Hymenoptera, Braconidae, Alysiinae, parasitoids, entomological collections, new records, Palaearctic Region, Oriental Region.

## Introduction

Entomological collections in Natural History Museums with millions of specimens deposited represent the huge biological diversity of the World. Unfortunately, a large part of these insects has not yet been identified and catalogued resulting in a big loss of information. In this sense, the Naturkundemuseum Erfurt with around 50.000 Hymenoptera specimens (approximately 1500 specimens of Braconidae) carries out the hard work to identify the material deposited in its collections with the help of curatorial staff and voluntary research associates. With this aim, I am currently revising the Alysiinae (Hymenoptera, Braconidae) material deposited in this entomological collection.

Alysiinae is a conspicuously diverse subfamily within the Braconidae (DOLPHIN & QUICKE 2001) with more than 2,000 described species in worldwide (YU et al. 2012). This subfamily is separated in two large and polymorphic tribes: Alysiini and Dacnusini (SHENEFELT 1974). Alysiini species are parasitoids of a wide range of cyclorrhaphous Diptera, while Dacnusini are exclusively specialized on leaf- and stem-mining hosts, predominantly of the dipterous families Agromyzidae, Ephydidae and Chloropidae (GRIFFITHS 1964, WHARTON 2002). Specimens of the several genera have been successfully employed to control pests of leaf miners and Tephritidae (WHARTON et al. 1997) having

**Zusammenfassung.** Die Sammlung der Hautflügler-Unterfamilie Alysiinae (Hymenoptera: Braconidae) im Naturkundemuseum Erfurt wurde untersucht. Insgesamt wurden 62 Arten bestimmt und werden hier aufgelistet, davon sind 29 Arten neu für die Fauna Deutschlands, sowie je ein Neufund für Georgien, Nepal und die Schweiz.

a relevant economic point of view due to their potential for pest control (GONZÁLEZ et al. 2000; ELPINO-CAMPOS et al. 2007). The present work provides a faunistic list of the Alysiinae collection deposited in the NME.

## Material and Methods

Specimens were identified using the keys by TOBIAS et al. (1986) for the genera and those of TOBIAS et al. (1986) and PERIS-FELIPO et al. (2014). For species classification, nomenclature and distributional data YU et al. (2012) and PERIS-FELIPO et al. (2014) were followed. The specimens are conserved in the collection of the Naturkundemuseum Erfurt, Germany (NME).

## Results

A total of 62 Alysiinae species belonging to 18 genera are listed for the collection of the Naturkundemuseum Erfurt (Germany). The list of species, its geographical distribution and hosts is provided below.

### Alysiini LEACH, 1815

#### *Alloea contracta* (HALIDAY, 1833)

**Material examined.** Germany. 1♂, Thüringer Wald, Blankenburg, SCHMIEDEKNECHT leg.

**Distribution.** Palaearctic.

**Hosts.** *Lonchoptera furcata* (FALLÉN, 1823), *Lonchoptera lutea* PANZER, 1809 (Diptera).

#### *Alysia alticola* (ASHMEAD, 1890)

**Material examined.** Germany. 1♀, Saxony, Vogtland, Rentzschmühle, NSG Steinicht, Elsterau, swept on *Salix alba*, elector trap, 16.IX.2003, F. BURGER leg.

**Distribution.** Nearctic, Neotropical, Palaearctic. Germany (new record).

**Hosts.** *Calliphora lilaea* (WALKER, 1849), *Calliphora terraenovae* MACQUART, 1851 (Diptera).

#### *Alysia manducator* (PANZER, 1799)

**Material examined.** Germany. 1♀, Bavaria, Nürnberg-Worzeidorfer, Berg, 19.VI.2007, swept on *Quercus*, elector trap, A. WEIGEL leg.; 3♀, Thuringia, Lausnitz, Neustadt/Orla, FND Totenstein, 22.VII.2009, F. BURGER leg. (Fig. 5); 1♀, Thuringia, Weimar, Webicht, forest edges, elector trap, 27.VII.2009, F. BURGER leg.; 1♀, Saxony, Vogtland, Rentzschmühle, NSG Steinicht, Elsterau, swept on *Salix alba*, elector trap 4B, 16.IX.2003, F. BURGER leg.; 1♀, Saxony-Anhalt, Bad Kösen, Saaleck, Himmelreich, elector trap, Eiche, MTB 4836/3, 21.VIII.2002, Steilhang, A. WEIGEL leg.; 1♀, Saxony, bei Plauen, NSG, Großer Weidenteich, Lanzighang, elector trap, 19.V.2009, F. BURGER leg.

**Distribution.** Nearctic, Neotropical, Oceanic, Oriental and Palaearctic.

**Hosts.** *Calliphora (Neocalliphora) stygia* (F., 1782), *C. vicina* ROBINEAU-DESVOIDY, 1830, *Chrysomya albiceps* (WIEDEMANN, 1819), *Delai antiqua* (MEIGEN, 1826), *D. floralis* (FALLÉN, 1824), *D. radicum* (L., 1758), *Hydrotaea dentipes* (F., 1805), *Lucilia caesar* (L., 1758), *L. sericata* (MEIGEN, 1826), *Musca domestica* L., 1758, *Muscina stabulans* (FALLÉN, 1817), and *Stomoxys calcitrans* (L., 1758) (Diptera).



Fig. 1. *Dinotrema belokobylskii* PERIS-FELIPO, 2013, female, photo: F.J. PERIS-FELIPO

***Anisocyrta perdita* (HALIDAY, 1838)**

**Material examined.** Germany. 1♀, Thuringia, Thüringer Wald, Blankenburg, SCHMIEDEKNECHT leg., (new record).

**Distribution.** Nearctic and Palaearctic.

***Aphaereta brevis* TOBIAS, 1962**

**Material examined.** Germany. 1♂, Thuringia, Thüringer Wald, Blankenburg, SCHMIEDEKNECHT leg.

**Distribution.** Palaearctic. Germany (new record).

***Aphaereta difficilis* NIXON, 1939**

**Material examined.** Germany. 2♀, Saxony, Syrau, NSG Syrau-Kauschwitzer Heide, 3.VIII.2007, F. BURGER leg.

**Distribution.** Palaearctic.

**Hosts.** *Delia radicum* (L., 1758), and *Fucellia tergina* (ZETTERSTEDT, 1845).

***Asobarra tabida* (NEES, 1834)**

**Material examined.** Germany. 1♀, Saxony, bei Plauen, NSG, Großer Weidenteich, Lanzighang, elector trap, 10.VIII.2009, F. BURGER leg.

**Distribution.** Nearctic, Oceanic and Palaearctic.

**Hosts.** *Drosophila (Sophophora) ambigua* POMINI, 1940, *D. auraria* PENG, 1937, *D. busckii* COQUILLETT, 1901, *D. funebris* (F., 1878), *D. kuntzei* DUDA, 1924, *D. (Sophophora) melanogaster* MEIGEN, 1830, *D. neozelandica* HARRISON, 1959, *D. (Sophophora) obscura* FALLÉN, 1823, *D. (Sophophora) similis* STURTEVANT, 1919, *D. (Sophophora) suboscura* COLLIN, 1936, *D. suzukii* (MATSUMURA, 1931), and *Fabomyia medicaginis* (RUBSAMEN, 1912) (Diptera).

***Aspilotota blasii* FISCHER, 1973**

**Material examined.** Germany. 1♀, Thuringia, Lausnitz, Neustadt/Orla, FND Totenstein (Fig. 5), 15.VI.2009, F. BURGER leg.

**Distribution.** Western Palaearctic. Germany (new record).

***Aspilotota deserta* PAPP, 1967**

**Material examined.** Germany. 1♀, Thuringia, Kranichfeld, Benjes, Gelbschale/Bodenfalle, 22.VII.1994, U. BUCHSBAUM leg.

**Distribution.** Palaearctic. Germany (new record).

***Chasmodon apterus* (NEES, 1812)**

**Material examined.** Germany. 1♀, Thuringia, Kranichfeld, Benjes, ground

trap, 9.IX.1993 U. BUCHSBAUM leg.; 1♀, 2♂, Thuringia, Jena Experiment, 50°55'N 11°35'E, 130 m, 7-8.VI.2010, block plot. A. EBELING leg.

**Distribution.** Western Palaearctic.

**Hosts.** *Chromatomyia syngenesiae* HARDY, 1849, *Contarinia pyrivora* (RILEY, 1886), *Geomyza tripunctata* FALLÉN, 1823, *Lasiopsis cinctipes* (MEIGEN, 1830), *Opomyza germinationis* (L., 1758), *Oscinella frit* (L., 1758), *O. vastator* (CURTIS, 1860), and *Scaptomyza (Parascaptomyza) pallida* (ZETTERSTEDT, 1847) (Diptera).

***Dinotrema affine* (FISCHER, 1973)**

**Material examined.** Germany. 1♀, Thuringia, Weimar, Ettersburg, NSG Prinzenschneise, 19.VIII.2010, F. BURGER leg.; 2♀, Germania, Thuringia, Weimar, Ettersburg, Blumenberg, 9.VII.2010 and 4.VIII.2010 F. BURGER leg. – Switzerland. 1♀, 1♂, Mörret-Filet, Wallis, 890 m, Trockenwiese in Mischwald, 46°21'6.45"N 8°2'51.63"E, 12.VI-31.VII.2010, M. OBRIST leg.

**Distribution.** Western Palaearctic. Germany (new record), Switzerland (new record).

***Dinotrema aureliae* (FISCHER, 1973)**

**Material examined.** Germany. 1♀, Thuringia, Thüringer Wald, Blankenburg, SCHMIEDEKNECHT leg.

**Distribution.** Palaearctic. Germany (new record).

***Dinotrema belokobylskii***

**PERIS-FELIPO, 2013**

**Material examined.** Germany. 1♀, Thuringia, Weimar, Ettersburg, NSG Prinzenschneise, 19.VIII.2010, elector trap, F. BURGER leg. (Fig. 1).

**Distribution.** Western Palaearctic. Germany (new record).

***Dinotrema brevisulcus* TOBIAS, 2003**

**Material examined.** Germany. 1♀, Thuringia, Weimar, Daasdorf am Berg, Lehden, forest edges, elector trap, 30.VI.2009, F. BURGER leg.

**Distribution.** Western Palaearctic. Germany (new record).

***Dinotrema cratocera* (THOMSON, 1895)**

*Material examined.* Germany. 1♀, Thuringia, Weimar, Ettersburg, Schlosspark, elector trap, 27.VIII.2009, F. BURGER leg.; 1♀, Thuringia, Seega, Pfarrkopf., MTB 4632/3 elector trap, 23.VIII. 2009 Laubwald, A. KOPETZ leg. – Nepal. 1♀, Karnali province, district Jumla, Maharigaon, 3250 m, 29°20.24'N 88°23.21'E, 10.VII. 1999, Weiss-Schale, A. WEIGEL leg.

*Distribution.* Palaearctic. Germany (new record), Nepal (new record).

***Dinotrema cruciatum* (FISCHER, 1973)**

*Material examined.* Germany. 1♀, Thuringia, Weimar, Ettersburg, NSG Prinzenschneise, 10.VI.2010, F. BURGER leg.

*Distribution.* Western Palaearctic.

***Dinotrema cruciforme* (FISCHER, 1973)**

*Material examined.* Germany. 1♀, Thuringia, Orlamünde, Saaleufer, swept on *Salix alba*, elector trap, 5 m, 31.VIII.-7.IX.1998, F. BURGER leg.; 1♂, Thuringia, Weimar, Ettersburg, Blumenberg, elector trap, 4.VIII.2010, F. BURGER leg.

*Distribution.* Palaearctic. Germany (new record).

***Dinotrema erythropum* FOERSTER, 1862**

*Material examined.* Germany. 1♀, Thuringia, Weimar, Ettersburg, NSG Prinzenschneise, 19.VIII.2010 elector trap, F. BURGER leg.

*Distribution.* Western Palaearctic.

***Dinotrema florens* (FISCHER, 1974)**

*Material examined.* Germany. 1♀, Thuringia, Weimar, Daasdorf am Berg, Lehden, forest edges, elector trap, 18.VI.2009, F. BURGER leg.

*Distribution.* Western Palaearctic. Germany (new record).

***Dinotrema incarinatum* (FISCHER, 1973)**

*Material examined.* Germany. 1♂, Thuringia, Weimar, Daasdorf, a. B., Lehden, WR elector trap, 30.VI.2009, F. BURGER leg.

*Distribution.* Western Palaearctic. Germany (new record).

***Dinotrema mareum* PERIS-FELIPO, 2013**

*Material examined.* Germany. 1♀, Thuringia, Weimar, Ettersburg, Schlosspark, elector trap, 27.VIII.2009, F. BURGER leg.

*Distribution.* Western Palaearctic. Germany (new record).

***Dinotrema naevium* (TOBIAS, 1962)**

*Material examined.* Germany. 1♀, Thuringia, Weimar, Webicht, WR, Eclector trap, 18.V.2009, F. BURGER leg.

*Distribution.* Western Palaearctic. Germany (new record).

***Dinotrema parapunctatum* (FISCHER, 1976)**

*Material examined.* Germany. 1♂, Thuringia, Weimar, Ehringsdorf, GLB Burgholz, Eclector trap, 10.VI.2010, F. BURGER leg.; 1♀, Thuringia, Lausnitz, Neustadt/Orla, FND Totenstein, 15.VI.2009, F. BURGER leg. (Figs 2, 5).

*Distribution.* Western Palaearctic. Germany (new record).

***Dinotrema paucicrene* (FISCHER, 1973)**

*Material examined.* Germany. 1♀, Thuringia, Weimar, Ettersburg, Blumenberg,

elector trap, 4.VIII.2010, F. BURGER leg.

*Distribution.* Palaearctic. Germany (new record).

***Dinotrema perlustrandum* (FISCHER, 1973)**

*Material examined.* Germany. 1♀, Jena, Ziegenhain, Kescherfang, 26.IV.1987, F. CREUTZBURG leg.

*Distribution.* Western Palaearctic.

*Hosts.* Phoridae sp.

***Dinotrema (Prosapha) speculum* (HALIDAY, 1838)**

*Material examined.* Germany. 1♂, Thuringia, Thüringen, Jena Experiment, 50°55'N 11°35'E, 130 m, swept on block plot, 7-8.VI.2010, A. EBELING leg.; 1♂, Friedrichshöhe, 27.V.1988, F. CREUTZBURG leg.

*Distribution.* Western Palaearctic.

***Dinotrema sphaerimembre* (FISCHER, 1973)**

*Material examined.* Germany. 2♀, Thuringia, Weimar, Ettersburg, Seerosenteich, elector trap, 17.VII.2009, F. BURGER leg.

*Distribution.* Palaearctic. Germany (new record).



Fig. 2. *Dinotrema parapunctatum* (FISCHER, 1976), female, photo: F.J. PERIS-FELIPO.



Fig. 3. *Synaldis distracta* (NEES, 1834), female, photo: F.J. PERIS-FELIPO.

***Dinotrema spitzzickense* (FISCHER, 1976)**

Material examined. Germany. 1♀, Saxony, b. Plauen, NSG, Großer Weidenteich, Galgenberg-Südhang, 3.VIII.2007, F. BURGER leg.

*Distribution.* Western Palaearctic.

***Dinotrema torpi***

MUNK & PERIS-FELIPO, 2014

Material examined. Germany. 1♂, Thuringia, Weimar, Ettersburg, Seerosenteich, elector trap, 17.VII.2009, F. BURGER leg.; 1♂, Thuringia, Weimar, Webicht, forest edges, elector trap, 18.V.2009, F. BURGER leg.

*Distribution.* Western Palaearctic. Germany (new record).

***Dinotrema zimmermannae***

PERIS-FELIPO, 2013

Material examined. Germany. 1♂, Thuringia, Weimar, Ettersburg, Blumenberg, elector trap, 19.VIII.2010, F. BURGER leg.

*Distribution.* Western Palaearctic. Germany (new record).

***Orthostigma beyarslani* FISCHER, 1995**

Material examined. Germany. 1♀, Thuringia, Weimar, Ehringsdorf, GLB Burgholz,

elector trap, 19.VIII.2010, F. BURGER leg.; 1♀, Thuringia, Weimar, Ettersburg, Pücklerschlag, 22.VII.2010, F. BURGER leg.

*Distribution.* Palaearctic. Germany (new record).

***Orthostigma longicubitale*  
KÖNIGSMANN, 1969**

Material examined. Germany. 1♀, Thuringia, Weimar, Ettersburg, NSG Prinzenschneise, 19.VIII.2010, F. BURGER leg.

*Distribution.* Oriental and Palaearctic. Germany (new record).

***Phaenocarpa conspurcator*  
(HALIDAY, 1838)**

Material examined. Germany. 1♂, Thuringia, Thüringer Wald, Blankenburg, SCHMIEDEKNECHT leg.

*Distribution.* Oriental and Palaearctic.

Hosts. *Scathophaga stercoraria* (L., 1758) (Diptera).

***Phaenocarpa eugenia* (HALIDAY, 1838)**

Material examined. Germany. 1♀, Thuringia, Thüringer Wald, Blankenburg, SCHMIEDEKNECHT leg.

*Distribution.* Palaearctic.

***Phaenocarpa livida* (HALIDAY, 1838)**

Material examined. Germany. 1♂, Thuringia, Thüringer Wald, Blankenburg, SCHMIEDEKNECHT leg.

*Distribution.* Western Palaearctic.

Hosts. *Calamoncosis glyceriae* NARTSHUK, 1958 and *Geomyza tripunctata* FALLÉN, 1823 (Diptera).

***Phaenocarpa ruficeps* (NEES, 1812)**

Material examined. Germany. 1♀, Thuringia, Weimar, Ehringsdorf, GLB Burgholz, elector trap, 10.VI.2010, F. BURGER leg.; 1♂, Thuringia, Thüringer Wald, Blankenburg, SCHMIEDEKNECHT leg.

*Distribution.* Afrotropical, Nearctic, Oriental and Palaearctic.

Hosts. *Botanophila fugax* (MEIGEN, 1826), *B. phrenione* (SEGUY, 1937), *B. seneciella* (MEADE, 1892), *Delia antiqua* (MEIGEN, 1826), *D. radicum* (L., 1758), *Hylemya alcatheo* (WALKER, 1849), *Lonchaea chorea* (F., 1781), *Pegomya bicolor* (WIEDEMANN, 1817), *P. hyoscyami* (PANZER, 1809), *P. solennis* (MEIGEN, 1826), and *Piophila casei* (L., 1758) (Diptera).

***Phaenocarpa subruficeps*  
GURASASHVILI, 1983**

Material examined. Germany. 1♂, Thuringia, Thüringer Wald, Blankenburg, SCHMIEDEKNECHT leg.

*Distribution.* Palaearctic. Germany (new record).

***Trachysa aurora* (HALIDAY, 1838)**

Material examined. Germany. 1♂, Thuringia, Thüringer Wald, Blankenburg, SCHMIEDEKNECHT leg.

*Distribution.* Palaearctic.

***Synaldis concolor* (NEES, 1812)**

Material examined. Germany. 1♀, Thuringen, Jena Experiment, 50°55'N 11°35'E, 130 m, 7-8.VI.2010, block plot, A. EBELING leg.; 1♀, Thuringia, Thüringer Wald, Blankenburg, SCHMIEDEKNECHT leg.

*Distribution.* Palaearctic.

Hosts. *Megaselia albidihalteris* FELT and *M. nigra* (MEIGEN, 1830) (Diptera).

***Synaldis distracta***  
(NEES, 1834)

Material examined. Germany. 1 ♂, Thuringia, Auleben, Numburger Solquelle, W, 4531/4, 19.VI.2005, R. BELLSTEDT leg. (Fig. 3).

Distribution. Oriental and Palaearctic.

***Synaldis glabripleura*** FISCHER, 1993

Material examined. Germany. 1 ♀, Erfurt, 23.IX.1916, FRANK leg.

Distribution. Western Palaearctic. Germany (new record).

**Dacnusini FOERSTER, 1862*****Aristelix phaenicura***  
(HALIDAY, 1839)

Material examined. Germany. 1 ♀, Brandenburg, NE Casel, ex *Phragmites*, 26.V. 1994, F. BURGER leg. (Fig. 4).

Distribution. Western Palaearctic.

***Chorebus abrota*** (NIXON, 1945)

Material examined. Germany. 1 ♀, Thuringia, Artern, Solwiese, 27.VI.2005, R. BELLSTEDT leg.

Distribution. Palaearctic.

***Chorebus artemisiellus*** GRIFFITHS, 1968

Material examined. Germany. 1 ♂, Thuringia, Weimar, Ehringsdorf, GLB Burgholz, elector trap, 9.VII.2010, F. BURGER leg.

Distribution. Palaearctic.

Hosts. *Liriomyza artemisicola* MEIJERE, 1924, *L. demejerei* HERING, 1930, *L. dracunculi* HERING, and *L. strigata* (MEIGEN, 1830) (Diptera).

***Chorebus (Stiphrocera) asphodeli***  
(GRIFFITHS, 1968)

Material examined. Germany. 1 ♂, Thuringia, Erfurt, Ostbahnhof, swept on Apioceae, 16.V.2001, F. BURGER leg.

Distribution. Palaearctic. Germany (new record).

Hosts. *Liriomyza asphodeli* SPENCER (Diptera).

***Chorebus densepunctatus***  
BURGHELE, 1959

Material examined. Georgia. 1 ♂, Tbilissi, Altstadt, 26.VI.1955, H. WAGNER leg.

Distribution. Western Palaearctic. Georgia (new record).

Hosts. *Hydrellia griseola* (FALLÉN, 1813) (Diptera).

***Chorebus (Stiphrocera) endymion***  
GRIFFITHS, 1967

Material examined. Germany. 1 ♂, Thüringen, NSG Unstruttal, Großvargula, 1.VII. 1994, F. CREUTZBURG leg.

Distribution. Palaearctic.

Hosts. *Aulagromyza luteoscutellata* (MEIJERE, 1924), and *Napomyza xylostei* ROBINEAU-DESVOIDY (Diptera).

***Chorebus fordii*** (NIXON, 1954)

Material examined. Czech Republic: 1 ♀, ČSR Petrovice, 24.VI.1993, Gelbschale, Böhmerwald, F. CREUTZBURG leg. Germany. 1 ♀, Thuringia, Auleben, Numburger Solquelle, 4531/4, 19.VI.2005, R. BELLSTEDT leg.

Distribution. Palaearctic.

Hosts. *Cerodontha (Poemyza) lateralis*

(MACQUART, 1835) (Diptera).

***Chorebus (Stiphrocera) lar***  
(MORLEY, 1924)

Material examined. Germany. 1 ♀, Thuringia, Artern, Solwiese, 27.VI.2005, R. BELLSTEDT leg.; 1 ♀, 1 ♂, Thuringia, Esperster Ried, MTB 4632/4, 27.IV.2005 and 5.VII.2005, R. BELLSTEDT leg.; 1 ♀, Thuringia, Kachstedt, Salzstelle, 4633/2, 9.VI. 2005, R. BELLSTEDT leg.

Distribution. Palaearctic. Germany (new record).

Hosts. *Agromyza johannae* MEIJERE, 1924, and *A. pulla* MEIGEN, 1830 (Diptera).

***Chorebus nigriscapus*** (NIXON, 1949)

Material examined. Germany. 1 ♂, Thuringia, Orlamünde, Kemenatenhang, 3.VI. 2000, F. BURGER leg.

Distribution. Western Palaearctic. Germany (new record).

Hosts. *Cerodontha (Poemyza) calosoma* (HENDEL, 1931), and *C. (Icteromyza) geniculata* (FALLÉN, 1823) (Diptera).

***Chorebus parvungula*** (THOMSON, 1895)

Material examined. Germany. 1 ♀, Thuringia, Lausnitz, FND Totenstein (Fig. 5), Hecke, Gelbschale mit Formalin, 28.IV.



Fig. 4. *Aristelix phaenicura* (HALIDAY, 1839), female, photo: F. J. PERIS-FELIPO.



Fig. 5. The nature protected area Totenstein near Lausnitz/Thuringia, collecting site of *Alyisia manducator*, *Aspilota blasii*, *Chorebus parvungula* and *Dinotrema parapunctatum*; photo: A. WEIGEL, 24.IX.2008.

2009, F. BURGER leg.

*Distribution.* Palaearctic.

*Hosts.* *Napomyza cichorii* SPENCER, and *N. lateralis* (FALLÉN, 1823) (Diptera).

***Chorebus (Phaenolexis) petiolatus*  
(NEES, 1834)**

*Material examined.* Germany. 1♂, Thuringia, Thüringer Wald, Blankenburg, SCHMIEDEKNECHT leg.

*Distribution.* Oriental and Palaearctic.

*Hosts.* *Plioreocepta poeciloptera* (SCHRANK, 1776) (Diptera).

***Chorebus rufimarginatus*  
(STELFOX, 1954)**

*Material examined.* Germany. 1♀, Thuringia, Rhön, 5426/2, Reichenhausen Blockhalde, 6.IX.2010, R. BELLSTEDT leg.

*Distribution.* Palaearctic. Germany (new record).

***Chorebus scabiosae* GRIFFITHS, 1967**

*Material examined.* Germany. 2♂♂, Thuringia, Kachstedt, Salzstelle, 4633/2, 16.V.2005 and 23.V.2005, R. BELLSTEDT leg.

*Distribution.* Palaearctic.

*Hosts.* *Chromatomyia scabiosae* (HENDEL, 1935) (Diptera).

***Chorebus vernalis* GRIFFITHS, 1968**

*Material examined.* Germany. 1♂, Saxony, Syrau, NSG Syrau-Kauschwitzer Heide, 3.VIII.2007, F. BURGER leg.

*Distribution.* Western Palaearctic. Germany (new record).

*Hosts.* *Cerodontha (Dizygomyza) caricicola* (HERING, 1926) (Diptera).

***Coelinidea elegans* (CURTIS, 1829)**

*Material examined.* Germany. 1♂, Thuringia, Thüringer Wald, Blankenburg, SCHMIEDEKNECHT leg.

*Distribution.* Palaearctic.

*Hosts.* *Lipara lucens* MEIGEN, 1830 (Diptera).

***Coelinidea gracilis* (CURTIS, 1829)**

*Material examined.* Germany. 1♀, Saxony, bei Plauen, NSG Großer Weidenteich, Galgenberg-Südhang, Gelbschale 5A, 18.VIII.2009, F. BURGER leg.; 1♀, Saxony, bei Plauen, NSG Großer Weidenteich, Lanzighang, Gelbschale 5, 3.VIII.2007, F. BURGER leg.; 2♀♀, Thuringia, Jena Experiment, 50°55'N 11°35'E, 130 m, 19.VII. 2010, block plot, A. EBELING leg.

*Distribution.* Palaearctic.

***Coelinidea nigra* (NEES, 1811)**

*Material examined.* Germany. 1♀, Saxony, bei Plauen, NSG Großer Weidenteich, Galgenberg-Südhang, 6.VII.2009, F. BURGER leg.; 1♀, Thuringia, Weimar, Schön-dorf, Garten, Zelt, 1.VII.2006, F. BURGER leg.

*Distribution.* Afrotropical and Palaearctic.

*Hosts.* *Chlorops pumilionis* (BJERKANDER, 1778), *C. strigulus* (F., 1794), *Lasiosina herpini* (GUERIN-MÉNÉVILLE, 1843), and *Tabuda anilis* F. (Diptera).

***Coelinidea semirufa* FISCHER, 1957**

*Material examined.* Germany. 1♀, Thuringia, Thüringer Wald, Blankenburg, SCHMIEDEKNECHT leg.

*Distribution.* Palaearctic. Germany (new record).

***Dacnusa faeroensis* (ROMAN, 1917)**

*Material examined.* Germany. 1♀, Saxony, bei Plauen, NSG Großer Weidenteich, Spomers Grab, 2.VI.2009, F. BURGER leg.

*Distribution.* Palaearctic.

*Hosts.* *Cerodontha* sp. and *Scaptomyza incana* MEIGEN (Diptera).

***Epimicta marginalis* (HALIDAY, 1839)**

*Material examined.* 1♂, Saxony, bei Plauen, NSG Großer Weidenteich, Galgenberg-Südhang, 6.VII.2009, F. BURGER leg.

*Distribution.* Palaearctic.

***Polemochartus liparae* (GIRAUD, 1863)**

*Material examined.* Germany. 1♀, 1♂, Thuringia, Thüringer Wald, Blankenburg, SCHMIEDEKNECHT leg.; 1♀, 1♂, Thuringia, Auleben, Numburger Solquelle W, 4531/4, 19.VI.2005, R. BELLSTEDT leg.; 2♀♀, 3♂♂, Thuringia, Herbsleben, Teichgebiet ex *Lipara*-Galle, 23.IV.2001, 1.V.2001, and 19.V.2001, F. BURGER leg.; 4♀♀, 2♂♂, Saxony-Anhalt, Dübener Heide, Torfhaus, Wildenhainer Bruch, ex *Phragmites*-Galle, 10.V.1999, F. BURGER leg.

*Distribution.* Palaearctic.

Hosts. *Lipara lucens* MEIGEN, 1830 and *L. similis* SCHINER, 1854 (Diptera).

## Discussion

Based on the revision of the Alysiinae material deposited in the Naturkundenmuseum Erfurt (Germany), 29 species are recorded here for the first time for Germany. *Alyisia alticola* (ASHMEAD, 1890), *Aphaereta brevis* TOBIAS, 1962, *Aspilota blasii* FISCHER, 1973, *A. deserta* PAPP, 1967, *Dinotrema affine* (FISCHER, 1973), *D. aureliae* (FISCHER, 1973), *D. belokobylskiji* PERIS-FELIPO 2013, *D. brevisulcus* TOBIAS, 2003, *D. cratocera* (THOMSON, 1895), *D. cruciforme* (FISCHER, 1973), *D. florens* (FISCHER, 1974), *D. incarinatum* (FISCHER, 1973), *D. mareum* PERIS-FELIPO, 2013, *D. naevium* (TOBIAS, 1962), *D. parapunctatum* (FISCHER, 1976), *D. paucicrenae* (FISCHER, 1973), *D. sphaerinembre* (FISCHER, 1973), *D. torpi* MUNK & PERIS-FELIPO, 2014, *D. zimmermannae* PERIS-FELIPO, 2013, *Orthostigma beyarslani* FISCHER, 1995, *O. longicubitale* KÖNIGSMANN, 1969, *Phaenocarpa subruficeps* GURASASHVILI, 1983, *Synaldis glabripleura* FISCHER, 1993, *Chorebus (Stiphrocera) asphodeli* (GRIFFITHS, 1968), *Ch. (Stiphrocera) lar* (MORLEY, 1924), *Ch. nigriscapus* (NIXON, 1949), *Ch. rufimarginatus* (STELFOX, 1954), *Ch. vernalis* GRIFFITHS, 1968, and *Coelinidea semirufa* FISCHER, 1957. Moreover, *Dinotrema affine* (FISCHER, 1973) is recorded for the first time for Switzerland; *Dinotrema cratocera* (THOMSON, 1895) for Nepal, and *Chorebus densepunctatus* BURGHELE, 1959 for Georgia.

With the present work, the number of Alysiinae known from Germany is increased to 393 species (YU et al. 2012, PERIS-FELIPO et al. 2014). This number is higher compared than its adjacent countries such as Austria (278), Czech Republic (130), Denmark (59), France (73), Netherlands (138), Poland (231), and Switzerland (168). Moreover, the number of known Alysiinae is also increased to 40 for Georgia, to 8 species for Nepal, and to 169 species for Switzerland.

Further investigations both on the fauna and host associations of the German Alysiinae are necessary to provide the basis for biological control of the dipterous pests in agricultural and urban landscapes.

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