

# Braconidae (Hymenoptera) in the collection of the Institute of Zoology, NAS of Azerbaijan Republic Part III. Subfamilies Helconinae, Brachistinae, Euphorinae, Macrocentrinae (Hymenoptera)

With 1 map

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## Summary

The paper gives some faunistic records of the braconids from genera *Cenocoelius*, *Diospilus*, *Taphaeus* belonging to subfamily Helconinae, from genera *Eubazus*, *Polydegmon*, *Triaspis*, *Schizoprymnus* belonging to subfamily Brachistinae, from genera *Meteorus*, *Zelet*, *Chrysopophthorus*, *Aridelus*, *Blacus*, *Dinocampus*, *Microctonus*, *Pigostolus*, *Centistes*, *Ancylocentrus*, *Leiphron*, *Peristenus*, *Wesmaelia*, *Syntretus* belonging to subfamily Euphorinae and from genus *Macrocentrus* belonging to subfamily Macrocentrinae from the collection of the institute of Zoology of the National Academy of Sciences of Azerbaijan located in Baku. For each taxon localities in Azerbaijan, distribution and hosts remarks are given. 27 species from the collection is located in the ZIN (Zoological Institute of the RAS) so we have not presented information about them. This concerns: *Centris* (*Ancylocentrus*) *subculcatus* (THOMSON, 1895), *Allurus muricatus* (HALIDAY, 1833), *Eubazus* (*Aliolus*) *kusarensis* (ABDINBEKOVA, 1969), *Eubazus* (*Allodorus*) *semirugosus* (NEES, 1816), *Chrysopophthorus hungaricus* (KISS, 1927), *Ecclitura primoris* KOKUYEV, 1902, *Eubazus* (*Eubazus*) *pallipes* NEES, 1816, *E. (Brachistes) rufithorax* (ABDINBEKOVA, 1969), *E. (Brachistes) minutus* (RATZEBURG, 1848), *E. (Brachistes) talitzkii* TOBIAS, 1976, *Schizoprymnus crassiceps* (THOMSON, 1891), *Schizoprymnus elongatus* (SZÉPLIGETI, 1898), *Sch. subangustatus* TOBIAS 1976, *Sch. ambiguus* (NEES, 1816), *Sch. globosus* (SZÉPLIGETI, 1898), *Helcon tardator* NEES, 1814, *Homolobus infimator* (LYLE, 1914), *Homolobus annulicornis* (NEES, 1834), *Leiphron palidistigma* CURTIS, 1833, *Meteorus heliophilus* FISCHER, 1970, *Meteorus cespitator* (THUNBERG, 1822), *Perilitus* (*Townesilitus*) *bicolor* (WESMAEL 1835), *Perilitus* (*Townesilitus*) *breviradialis* (TOBIAS, 1976), *Macrocentrus brevicaudifer* VAN ACHTERBERG 1979, *Macrocentrus flavus* SNELLEN VAN Vollenhoven, 1878, *Macrocentrus thoracicus* (NEES, 1812), *Macrocentrus marginatus* (NEES, 1811).

## Zusammenfassung

In der Arbeit werden faunistische Daten der Braconiden-Gattungen *Cenocoelius*, *Diospilus*, *Taphaeus* (Unterfamilie Helconinae), *Eubazus*, *Polydegmon*, *Triaspis*, *Schizoprymnus* (Unterfamilie Brachistinae), *Meteorus*, *Zelet*, *Chrysopophthorus*, *Aridelus*, *Blacus*, *Dinocampus*, *Microctonus*, *Pigostolus*, *Centistes*, *Ancylocentrus*, *Leiphron*, *Peristenus*, *Wesmaelia*, *Syntretus* (Unterfamilie Euphorinae) und *Macrocentrus* (Unterfamilie Macrocentrinae) des Sammlungsmaterials aus dem Institut für Zoologie der nationalen Akademie der Wissenschaften von Aserbaidshan in Baku ausgewertet. Zu jedem Taxon werden Fundorte in Aserbaidshan, Verbreitung und Wirte genannt. Von 27 Arten aus der Sammlung des ZIN (Zoologisches Institut der Russischen Akademie der Wissenschaften) fehlen diese Informationen jedoch. Das betrifft: *Centris* (*Ancylocentrus*) *subculcatus* (THOMSON, 1895), *Allurus muricatus* (HALIDAY, 1833), *Eubazus* (*Aliolus*)

*kusarensis* (ABDINBEKOVA, 1969), *Eubazus* (*Allodorus*) *semirugosus* (NEES, 1816), *Chrysopophthorus hungaricus* (KISS, 1927), *Ecclitura primoris* KOKUYEV, 1902, *Eubazus* (*Eubazus*) *pallipes* NEES, 1816, *E. (Brachistes)* *rufithorax* (ABDINBEKOVA, 1969), *E. (Brachistes)* *minutus* (RATZEBURG, 1848), *E. (Brachistes)* *talitzkii* TOBIAS, 1976, *Schizoprymnus crassiceps* (THOMSON, 1891), *Schizoprymnus elongatus* (SZÉPLIGETI, 1898), *Sch. subangustatus* TOBIAS 1976, *Sch. ambiguus* (NEES, 1816), *Sch. globosus* (SZÉPLIGETI, 1898), *Helcon tardator* NEES 1814, *Homolobus infimator* (LYLE, 1914), *Homolobus annulicornis* (NEES, 1834), *Leiophron palidistigma* CURTIS, 1833 *Meteorus Heliophilus* FISCHER, 1970, *Meteorus cespitator* (THUNBERG, 1822), *Perilitus* (*Townesilitus*) *bicolor* (WESMAEL 1835), *Perilitus* (*Townesilitus*) *breviradialis* (TOBIAS, 1976), *Macrocentrus brevicaudifer* VAN ACHTERBERG 1979, *Macrocentrus flavus* SNELLEN VAN VOLLENHOVEN, 1878, *Macrocentrus thoracicus* (NEES, 1812), *Macrocentrus marginatus* (NEES, 1811).

## Introduction

Subfamily Helconinae is presented by 3 species from 3 genera, subfamily Brachistinae by 17 species from 4 genera and subfamily Euphorinae by 28 species from 12 genera, subfamily Macrocentrinae by 4 species from 1 genus in the entomological collection of the Institute of Zoology NAS of Azerbaijan. The paper includes distribution remarks and host range information for each species. The whole distribution areas in the world are provided for each taxon. Each name of species is accompanied by the author's name and description date. A map showing collection areas in Azerbaijan is presented. Literature data are used for taxonomic analysis of the braconids (ABDINBEKOVA, 1969, 1995; PAPP, 2007, 2009; TOBIAS, BELOKOB- YLSKIY, KOTENKO, 1995, SHENEFELT, 1970, HUDDLESTON, 1980, LOZAN, 2004, VAN A. ACHTERBERG, 1988, 2003).

## Subfamily HELCONINAE

Genus *Cenocoelius* WESTWOOD, 1840

*Cenocoelius analis* (NEES, 1834)

### Material:

dist. Ordubad, 2.VI.1967, 1 ♂, leg. Abdinbekova.

### Hosts:

*Magdalis armigera* GEOFF., *M. ruficornis* L., *Scolytus rugulosus* P.W. J. MÜL. (Curculionidae), *Tetrops praeusta* L. (Cerambycidae).

### Distribution:

West Europe, Azerbaijan (ABDINBEKOVA, 1995).

Genus *Diospilus* HALIDAY, 1833

*Diospilus rufipes* (REINHARD, 1862)

### Material:

dist. Guba, 14.V.1962, 1 ♂, leg. Abdinbekova.

### Hosts:

*Xestobium plumbeum* ILL. (Anobiidae), *Byctiscus populi* L. (Attelabidae), *Tachyerges salicis* L. (Curculionidae).

### Distribution:

West Europe, Caucasus, Azerbaijan (ABDINBEKOVA, 1995).

Genus *Taphaeus* WESMAEL, 1835

*Taphaeus hiator* (THUNBERG, 1822)

### Material:

dist. Khachmaz, 30.V.1960, 1 ♂, leg. Abdinbekova; dist. Kalbajar, 30.VI.1960, 1 ♂, leg. Abdinbekova.

### Host:

*Orchesia micans* Pz., (Melandryidae).

### Distribution:

West Europe, Caucasus, Western Kazakhstan, East Siberia, Azerbaijan (ABDINBEKOVA, 1995).

## Subfamily BRACHISTINAE

Genus *Eubazus* NEES VON ESENBECK, 1814

Subgenus *Brachistes* WESMAEL, 1835

*Eubazus (Brachistes) gallicus* (REINHARD, 1867)

### Material:

dist. Lankaran, 20.V.1965, 1 ♂, leg. Abdinbekova.

### Host:

*Megdalis ruficornis* (L.) (Curculionidae).

### Distribution:

Europe, Turkey (BEYARSLAN, 2011), Caucasus, Azerbaijan (ABDINBEKOVA, 1995).

*Eubazus (Brachistes) parvulus* (RUTHE, 1867)**Material:**

dist. Khachmaz, 28.IV.1963, 1 ♂, leg. Abdinbekova.

**Host:**

unknown.

**Distribution:**

Europe, Mongolia (PAPP, 2009), Caucasus, Azerbaijan (ABDINBEKOVA, 1995).

Subgenus *Eubazus* NEES VON ESENBECK, 1814

*Eubazus (Eubazus) rufiventris* (ABDINBEKOVA, 1975)**Material:**

dist. Khachmaz, 17.V.1962, 1 ♂, leg. Abdinbekova.

**Host:**

unknown.

**Distribution:**

Turkey, Caucasus, Azerbaijan (ABDINBEKOVA, 1995).

*Eubazus (Eubazus) tibialis* (HALIDAY 1835)**Material:**

dist. Ordubad, 15.V.1965, 1 ♂, leg. Abdinbekova.

**Hosts:**

*Byctiscus betulae* L., *B. populi* L. (Attelabidae), *Gilpinia pallida* KL. (Diprionidae), *Anobium* sp. (Coleoptera, Anobiidae) (SHENEFELT, 1970).

**Distribution:**

West Europe, Turkey, Caucasus, Azerbaijan (SHENEFELT, 1970; TOBIAS et al. 1995, ABDINBEKOVA, 1995).

Genus *Polydegmon* FÖRSTER, 1862

*Polydegmon sinuatus* FÖRSTER, 1862**Material:**

dist. Ordubad, 20–29.V.1967, 11 ♀♀, 7 ♂♂, dist. Julfa, 21.V.1967, 2 ♀♀, leg. Abdinbekova.

**Host:**

unknown.

**Distribution:**

West Europe (VLADIMIR, VAN ACHTERBERG, 2010), Turkey, Kazakhstan, Uzbekistan, Caucasus, Azerbaijan (SHENEFELT, 1970; TOBIAS et al. 1995, ABDINBEKOVA, 1995).

Genus *Triaspis* HALIDAY, 1835

*Triaspis aciculatus* (RATZBURG, 1848)**Material:**

dist. Guba, 23.IV.1963, 1 ♂, leg. Abdinbekova; dist. Margushevan (now Khojavend), 21.IV.1966, 2 ♂♂, leg. Abdinbekova.

**Hosts:**

*Anobium rufipes* F., *Ochina ptinoides* MARSH., *Gastrallus corsicus* SCHIL., (Anobiidae), *Anthaxia quadripunctata* (L.) (Buprestidae), *Anthonomus rubi* HERBST, *Ceutorhynchus pleurostigma* MARSH., *Stenocarus ruficornis* (STEPH.), *Rhinusa antirrhini* PAYK., *Gymnetron villosulum* GYLL. (Curculionidae), *Apion damryi* DESB. (Brentidae).

**Distribution:**

West Europe (GAVIN et al. 2011), Caucasus, Azerbaijan (ABDINBEKOVA, 1995, TOBIAS et al. 1995).

*Triaspis caucasicus* ABDINBEKOVA, 1934**Material:**

dist. Marqushevan (now Khojavend), 20.V.1966, 12 ♂♂, leg. Abdinbekova; dist. Lerik, 20.VI.1965, 8 ♀♀, leg. Abdinbekova; dist. Goygol, 23.V.1966, 1 ♂, leg. Abdinbekova; dist. Guba, 11.VI.1961, 1 ♂, leg. Abdinbekova.

**Host:**

unknown.

**Distribution:**

Turkey, Kazakhstan, Caucasus, Azerbaijan (ABDINBEKOVA, 1995, TOBIAS et al. 1995).

*Triaspis caudatus* (NEES VON ESENBECK, 1816)**Material:**

dist. Ordubad, 1.VI.1967, 1 ♂, leg. Abdinbekova; Nakhichevan AR, 19.VI.1967, 1 ♀, leg. Abdinbekova.

**Hosts:**

*Ochina ptinoides* MARSH. (Anobiidae), *Bruchidius fasciatus* OL. (Bruchidae), *Byctiscus betulae* (L.), *Byctiscus populi* (L.) (Attelabidae), *Protapion assimile* W. KIRBY, *P. trifolii* L., (Brentidae).

**Distribution:**

Europe, Caucasus, Azerbaijan (ABDINBEKOVA, 1995, TOBIAS et al. 1995).

*Triaspis obscurellus* (NEES VON ESENBECK, 1816)

**Material:**

dist. Guba, 12.V.1962, 2 ♀ ♀, leg. Abdinbekova; dist. Khachmaz, 15.V.1963, 1 ♂, leg. Abdinbekova; dist. Mirbashir (now Tartar), 27.III.1966, 2 ♀ ♀ leg. Abdinbekova; Margushevan (now Khojavend), 29-31.III.1966, 4 ♀ ♀ leg. Abdinbekova; dist. Barda, 30.III.1966, 23 ♂ ♂, leg. Abdinbekova.

**Hosts:**

*Bruchus rufimanus* (Bruchidae), *Ceratapion carduorum* KBY, (Brentidae), *Ceutorhynchus assimilis* PAYK., *C. contractus* MARSH., *C. picitarsis* GYLL., *C. sulcicollis* GYLL., *C. pleurostigma* MARSH., *Gymnetron antirrhini* PAYK., *G. noctis* HBST., *Rhinusa collina*, (Curculionidae) (SHENEFELT, 1970).

**Distribution:**

West Europe (GAVIN et al. 2011), Greece (LOZAN, 2004), Siberia, Mongolia, Caucasus, Azerbaijan (SHENEFELT, 1970, TOBIAS et al. 1995, ABDINBEKOVA, 1995).

*Triaspis pallipes* (NEES VON ESENBECK, 1816)

**Material:**

dist. Guba, 14.V.1962, 1 ♂, leg. Abdinbekova.

**Hosts:**

*Bruchidius seminarius* L., *Bruchus affinis* F., *B. atomarius* L., *B. lentis* F., *B. rufimanus*, (Bruchidae), *Anthonomus pomorum* (L.), *Ceutorhynchus assimilis* (P.), *Rynchaenus alni*, *R. quercus* (L.), *R. semirufus* GYLL. (Curculionidae).

**Distribution:**

West Europe (GAVIN et al. 2011), Caucasus, Azerbaijan (ABDINBEKOVA, 1995, TOBIAS et al. 1995)

*Triaspis thoracicus* (CURTIS, 1860)

**Material:**

dist. Yardimly, 20.VI.1965, 1 ♂, leg. Abdinbekova.

**Hosts:**

*Acanthoscelides obtectus* SAY, *Bruchus rufimanus* B., *Bruchus pisorum* (L.) (Bruchidae).

**Distribution:**

West Europe (GAVIN et al. 2011), Caucasus, Azerbaijan (ABDINBEKOVA, 1995).

Genus *Schizoprymnus* FÖRSTER, 1862

*Schizoprymnus angustissimus* ŠNÖFLAK, 1952

**Material:**

dist. Kalbajar, 3.VI.1966, 1 ♂, leg. Abdinbekova; dist. Ordubad, 5.VI.1967, 3 ♂ ♂, leg. Abdinbekova; dist. Mardakert (now Aghdere), 16.VI.1967, 1 ♂, leg. Abdinbekova.

**Host:**

unknown.

**Distribution:**

Former USSR, Check Republic, Kazakhstan, (SHENEFELT, 1970; TOBIAS et al. 1995), Turkey (GUCLU, 2006), Caucasus, Azerbaijan (ABDINBEKOVA, 1995).

*Schizoprymnus azerbaijdzhanicus* ABDINBEKOVA, 1912

**Material:**

dist. Barda, 30.III.1966, 1 ♀, leg. Abdinbekova; dist. Agdam, 11.IX.1964, 1 ♀, leg. Abdinbekova; dist. Goychay, 3.VII.1964, 2 ♂ ♂, leg. Abdinbekova.

**Host:**

unknown.

**Distribution:**

Turkey (GUCLU, 2006), Azerbaijan (ABDINBEKOVA, 1995).

*Schizoprymnus nigripes* (THOMSON, 1892)

**Material:**

dist. Nukha (now Sheki), 27.V.1966, 1 ♂, leg. Abdinbekova; dist. Ordubad, 29.V.1967, 1 ♂, leg. Abdinbekova.

**Hosts:**

*Curculio rubidus* GYLL., *Acentrus histrio* (FALD). (Curculionidae) (GUCLU, 2006).

**Distribution:**

Turkey (GUCLU, 2006), Mongolia (PAPP, 2009), Caucasus, Azerbaijan (ABDINBEKOVA, 1995, TOBIAS et al. 1995).

*Schizoprymnus obscurus* NEES VON ESENBECK, 1813**Material:**

dist. Guba, 5.VIII.1961–1962, 5 ♂♂, leg. Abdinbekova; dist. Khachmaz, 5.VI.1962–1963, 5 ♂♂, leg. Abdinbekova; dist. Goychay, 7.VIII.1964, 3 ♀♀, leg. Abdinbekova; dist. Lerik, 20.VI.1965, 1 ♂, leg. Abdinbekova; dist. Gasym-Ismayilov (now Goranboy), 14.VII.1966, 1 ♀, leg. Abdinbekova; dist. Mardakert (now Aghdere), 4.VII.1967, 3 ♂♂, leg. Abdinbekova.

**Hosts:**

*Ceratapion carduorum* KBY (Brentidae), *Ceuthorrhynchus picitarsis* GYLL., *C. sulcicollis* GYLL., *C. assimilis* PAYK., *Gymnetron noctis* HBST., *Rhinusa collina* GYLL, *Rh. antirrhini* PAYK., (Curculionidae).

**Distribution:**

West Europe (GAVIN et al. 2011), Turkey, (GUCLU, 2006), Mongolia (PAPP, 2009), Former USSR, Caucasus, Azerbaijan (ABDINBEKOVA, 1995, TOBIAS et al. 1995).

*Schizoprymnus opacus* (THOMSON, 1892)**Material:**

dist. Agdam, 11.V.1964, 1 ♀, leg. Abdinbekova; dist. Nukha (now Sheki), 27.V.1965, 1 ♂, leg. Abdinbekova; dist. Ordubad, may, 1967, 4 ♂♂, leg. Abdinbekova; Nakhichevan AR, 17.VI.1967, 1 ♂, leg. Abdinbekova; dist. Goygol, 18.VI.1967, 1 ♂, leg. Abdinbekova.

**Host:**

unknown.

**Distribution:**

West Europe, Mongolia, Former USSR (SHENEFELT, 1970; TOBIAS et al. 1995), Caucasus, Azerbaijan (ABDINBEKOVA, 1995).

*Schizoprymnus terebralis* ŠNÖFLAK, 1952**Material:**

dist. Agdam, 26.IV.1966, 1 ♂, leg. Abdinbekova; dist. Shahbuz, 22.V.1967, 1 ♀, leg. Abdinbekova; dist. Gasym-Ismayilov (now Goranboy), 9.VI.1966, 1 ♀, leg. Abdinbekova.

**Host:**

*Mordellistena parvula* GYLL. (Mordelidae).

**Distribution:**

Check Republic, Kazakhstan (SHENEFELT, 1970; TOBIAS et al. 1995) Mongolia (PAPP, 2009), Caucasus, Azerbaijan (ABDINBEKOVA, 1995, TOBIAS et al. 1995).

## SUBFAMILY EUPHORINAE

Genus *Aridelus* MARSHALL, 1887

*Aridelus egregius* (SCHMIEDEKNECHT 1907)**Material:**

dist. Kalbajar, 23.VII.1966, 1 (damaged), leg. Abdinbekova.

**Hosts:**

*Aelia acuminata* (L.), *Aelia cognata* FIEB., *Dolycoris baccarum* (L.), *Eurydema ornata* (L.), *Holcostethus vernalis* WOLF., *Palomena prasina* (L.) (Pentatomidae), *Coptosoma mucronatum* SEID., *Coptosoma scutellatum* GEOFFR. (Plataspidae), *Eurygaster austriaca* SCHRK.), *Eurygaster maura* (L.), (Scutelleridae).

**Distribution:**

Turkey, Former USSR, Caucasus, Azerbaijan (ABDINBEKOVA, 1995).

Genus *Blacus* NEES, 1817

*Blacus armatulus* RUTHE, 1861**Material:**

dist. Khachmaz, 6.VI.1963, 1 ♂, leg. Abdinbekova; dist. Mardakert (now Aghdere), 21.VI.1967, 1 ♂, leg. Abdinbekova.

**Hosts:**

Parasite of Curculionidae (Coleoptera) (VAN ACHTERBERG, 1988).

**Distribution:**

Europe, Russia, Turkey, Moldova, Russia, Caucasus, Azerbaijan, Kazakhstan (TOBIAS, 1986, ABDINBEKOVA, 1995).

*Blacus exilis* (NEES 1811)**Material:**

dist. Khachmaz, 6.VI.1963, 1 (damaged), leg. Abdinbekova.

**Hosts:**

*Pityokteines vorontzowi* JACOBS., *Magdalis armigera* GEOFFR. (Curculionidae), Scolytidae, Curculionidae, Anobiidae (Coleoptera).

**Distribution:**

Caucasus, Kazakhstan, Mid Asia, Eastern Siberia, West Europe, Turkey, Israel, Mongolia, North America (TOBIAS, 1986).



*Blacus instabilis* RUTHE, 1861

**Material:**

dist. Guba, 7.VII.1962, 1 ♂, leg. Abdinbekova.

**Host:**

unknown.

**Distribution:**

Ukraine, North Asia, West Europe, Turkey, Caucasus, Azerbaijan (TOBIAS, 1986, ABDINBEKOVA, 1995)

*Blacus ruficornis* (NEES 1811)

**Material:**

dist. Gusar, 9-10.VII.1960, 3 ♀ ♀, leg. Abdinbekova; dist. Zaqatala, 12.VII.1960, 4 ♂ ♂, leg. Abdinbekova; dist. Guba, 5.VI.1961-62, 7 ♀ ♀, leg. Abdinbekova; dist. Mirbashir (now Tartar), 5.VI.1966, 3 ♂ ♂, leg. Abdinbekova; dist. Gadabay, 28.VIII.1966, 5 ♂ ♂, leg. Abdinbekova; dist. Khachmaz, 6.VII.1960-62, 1 ♂, leg. Abdinbekova; dist. Lankaran, 18.VIII.1964, 1 ♂, leg. Abdinbekova; dist. Lerik, 5.VII.1965-66, 2 (damaged), leg. Abdinbekova; dist. Gasym-Ismayilov (now Goranboy), 22.V.1966, 1 ♂, leg. Abdinbekova; dist. Goygol, 24.IX.1966, 1 ♂, leg. Abdinbekova; dist. Shusha, 18.VIII.1966, 3 ♀ ♀, leg. Abdinbekova; dist. Mardakert (now Aghdere), VI.1966-1967, 3 ♂ ♂, leg. Abdinbekova; dist. Dashkasan, 15.VII.1966, 1 ♂, leg. Abdinbekova; dist. Shamkhor (now Shamkir), 27.VII.1966, 1 ♀, leg. Abdinbekova; dist. Goychay, 19.V.1964, 1 ♀, leg. Abdinbekova.

**Host:**

*Tachyporus obtusus* L. (Staphylinidae)

**Distribution:**

West Europe, Russia, Caucasus, Azerbaijan, Kazakhstan, Siberia, North Asia, North Africa (TOBIAS, 1986, ABDINBEKOVA, 1995).

Genus *Centistes* HALIDAY, 1835

Subgenus *Ancylocentrus*

*Centistes (Ancylocentrus) edentatus* (HALIDAY, 1835)

**Material:**

dist. Gusar, 10.VII.1960, 1 ♀, leg. Abdinbekova; dist. Masally, 18.V.1961, 1 ♂, leg. Abdinbekova.

**Host:**

unknown.

**Distribution:**

West Europe (GAVIN et al. 2011), Kazakhstan (TOBIAS, 1986), Caucasus, Azerbaijan (ABDINBEKOVA, 1995).

Subgenus *Centistes* HALIDAY, 1835

*Centistes (Centistes) cuspidatus* HALIDAY, 1833

**Material:**

dist. Gusar, 7-10.VII.1960, 4 ♂ ♂, leg. Abdinbekova; dist. Guba, 29.V.1962, 1 ♀, leg. Abdinbekova.

**Hosts:**

adults of the genus *Tachyporus* (Staphylinidae).

**Distribution:**

West Europe, Kazakhstan, Kirgizia, Sakhalin Islands, Azerbaijan (TOBIAS, 1986, ABDINBEKOVA, 1995).

*Centistes (Centistes) fuscipes* (NEES, 1834)

**Material:**

dist. Guba, 15.VI.1961, 1 ♂, leg. Abdinbekova; dist. Goranboy, 9.VI.1966, 1 ♂, leg. Abdinbekova.

**Host:**

*Elachista trapeziella* St. (Elachistidae).

**Distribution:**

West Europe, Sakhalin Islands, Primoryan territory (BELOKOBYLSKIY, 1992), Caucasus, Azerbaijan (ABDINBEKOVA, 1995).

Genus *Chrysopophthorus* GOIDANICH, 1948

*Chrysopophthorus elegans* TOBIAS, 1961

**Material:**

Nakhichevan AR, 3.VIII.1964, 1 ♂, leg. Abdinbekova.

**Host:**

*Chrysopa carnea* St. (Chrysopidae).

**Distribution:**

Azerbaijan (ABDINBEKOVA, 1995).

Genus *Dinocampus* FÖRSTER, 1862

*Dinocampus coccinella* (SCHRANK, 1802)

**Material:**

dist. Guba, 11.VI.1961, 1 ♀, leg. Abdinbekova; dist. Astara, 25.IV.1965, 1 ♂, leg. Abdinbekova; dist. Agdash, 8.VII.1966, 1 ♂, leg. Abdinbekova; dist. Mardakert (now Aghdere), 26.VI.1967, 1 ♂, leg. Abdinbekova; dist. Ordubad, 15.VI.1967, 1 ♀, leg. Abdinbekova; dist. Mirbashir (now Tartar), 16.V.1967, 1 ♀, leg. Abdinbekova; dist. Nukha (now Sheki), 28.V.1965, 1 ♀, leg. Abdinbekova; dist. Gakh, 24.VIII.1965, 1 ♂, leg. Abdinbekova; dist. Khachmaz, 15.V.1963, 1 ♂, leg. Abdinbekova.

**Hosts:**

*Adalia bipunctata*, *A. decempunctata* L., *A. deficiens* MULS., *A. flavomaculata*, *Cheilomenes sexmaculata* F., *C. lunata* F., *Coccinella quinquepunctata* L., *C. californica* MANN, *C. trifasciata perplexa* MULS., *C. undecimpunctata aegyptiaca* REICHE., *Harmonia axyridis* PALL., *Coelophora biplagiata* (Sw), *Coleomegilla maculata lengi* TIMB., *Cryptolaemus montrouzieri* MULS., *Eriopsis sede-cimpustulata* LATR., *Hippodamia convergens* GUERIN, *H. parenthesis* SAY., *Megilla maculata* DE GEER. (Coccinellidae).

**Distribution:**

Europe, Japan, China, Egypt, Azerbaijan (SHENEFELT, 1970, TOBIAS et al. 1995, ABDINBEKOVA, 1995).

Genus *Leiophron* NEES, 1818

Subgenus *Leiophron* NEES, 1819

*Leiophron (Leiophron) apicalis* HALIDAY, 1833

**Material:**

dist. Guba, 29.V.1960, 1 ♂, leg. Abdinbekova.

**Hosts:**

*Orthotylus adenocarpi* PERR. *Orthotylus artemisiae* J. SH., *Orthotylus beieri* WAG., *Orthotylus dimorphus* WAG. (Miridae).

**Distribution:**

West Europe, Mid Asia, Ukraine, Kazakhstan, Azerbaijan (ABDINBEKOVA, 1995).

Subgenus *Peristenus* FÖRSTER, 1862

*Leiophron (Peristenus) reclinator* (RUTHE, 1856)

**Material:**

dist. Khachmaz, 11.VIII.1962, 1 ♂, leg. Abdinbekova; dist. Kirovabad (Ganja), 18.VI.1967, 2 ♂ ♂, leg. Abdin-

bekova; dist. Goranboy, 23.VI.1967, 1 ♂, leg. Abdinbekova; dist. Julfa, 21.V.1967, 1 ♂, leg. Abdinbekova.

**Hosts:**

*Lygocoris pabulinus* L., *Liocoris tripustulatus* F. (Miri-  
dae).

**Distribution:**

Mid Europe, Azerbaijan (TOBIAS, 1986, ABDINBEKOVA, 1995).

*Leiophron (Peristenus) orchesiaae* CURTIS, 1833

**Material:**

dist. Masally, 18.V.1965, 4 ♂ ♂, leg. Abdinbekova; dist. Shamakhy, 27.V.1966, 1 ♂, leg. Abdinbekova.

**Hosts:**

*Closterotomus norvegicus* (GML.) (Miridae), *Orchesia micans* PANZ. (Melandryidae).

**Distribution:**

West Europe, Azerbaijan (TOBIAS, 1986, ABDINBEKOVA, 1995).

*Leiophron (Peristenus) pallipes* CURTIS, 1833

**Material:**

dist. Guba, 5.VII.1961-1962, 4 ♂ ♂, leg. Abdinbekova; Nakhichevan AR, 25.V.1967, 1 ♀, leg. Abdinbekova; dist. Kirovabad (now Ganja), 18.VI.1967, 1 ♂, leg. Abdinbekova.

**Hosts:**

*Adelphocoris lineolatus* GZ., *Adelphocoris rapidus* SAY, *Capsus ater* (L.), *Closterotomus norvegicus* (GML.), *Labops hirtus* KNIGHT, *Leptopterna dolabrata* (L.), *Lygus borealis* (KELT.), *Lygus desertus* KNIGHT, *Lygus elisus* VAN D., *Lygus hesperus* KNIGHT., *Lygus lineolaris* (P. DE B.), *Lygus pratensis* (L.), *Lygus rugulipennis* POPP, *Notostira erratica* (L.), *Plagiognathus medicagus* AR., *Trigonotylus coelestialium* (KIRK.) (Miridae), *Timarcha tenebricosa anglica* BECH., *Timarcha tenebricosa* (F.) (Chrysomelidae), *Eustrophus dermestoides* (F.) (Tetratomidae).

**Distribution:**

Europe, Turkey (YILMAZ et al. 2008), Former USSR, Caucasus, Azerbaijan (TOBIAS, 1986, ABDINBEKOVA, 1995).

*Leiophron (Peristenus) picipes* CURTIS, 1833

**Material:**

dist. Lerik, 5.VII.1965, 2 ♀ ♀, leg. Abdinbekova; dist. Goygol, 24.IV.1966, 1 ♂, leg. Abdinbekova.

**Host:**

unknown.

**Distribution:**

Europe, Egypt, China (SHENEFELT, 1970), Turkey (YILMAZ, 2008), Former USSR, Caucasus, Azerbaijan (ABDINBEKOVA, 1995).

Genus *Meteorus* HALIDAY, 1835

*Meteorus abdominator* NEES VON ESENBECK, 1811

**Material:**

dist. Guba, 18.VII.1961, 1 ♀, leg. Abdinbekova; dist. Lerik, 20.VII.1965, 1 ♂, leg. Abdinbekova; dist. Dashkasan, 23.VIII.1966, 1 ♂, leg. Abdinbekova; dist. Gadabay, 1.VII.1967, 1 ♂, leg. Abdinbekova; dist. Shahbuz, 14.IX.1967, 1 ♂, leg. Abdinbekova.

**Hosts:**

*Cheimatobia brumata* L., *Eucosmia certata* HBN., *Larentia fluctuate* L., *L. viridaria* L., (Geometridae) (HUDDLESTON 1980), *Gymnaetron* spp. (Curculionidae) (GUCLU, 2006).

**Distribution:**

Europe (GAVIN et al. 2011), Japan, Former USSR (HUDDLESTON 1980), Caucasus, Azerbaijan (ABDINBEKOVA, 1995).

*Meteorus filator* (HALIDAY, 1835)

**Material:**

dist. Dashkasan, 7.VIII.1966, 2 ♂ ♂, leg. Abdinbekova.

**Host:**

unknown.

**Distribution:**

Europe, Turkey, Russia, Azerbaijan (ABDINBEKOVA, 1995).

*Meteorus gyrator* (THUNBERG, 1822)

**Material:**

dist. Astara, 25.VI.1965, 1 ♂, leg. Abdinbekova.

**Hosts:**

*Lacanobia oleracea* (L.), *Mamestra brassica* (L.), *Spodoptera exigua* (HBN.), *Spodoptera littoralis* (BOISD.), *Chrysodeixis chalcites* (ESP.), *Cosmia diffinis* (L.) (Noctuidae).

**Distribution:**

Europe, Egypt, Russia, Azerbaijan (ABDINBEKOVA, 1995).

*Meteorus ictericus* (NEES, 1811)

**Material:**

dist. Guba, 2.V.1961, 1962, 1964, 2 ♀ ♀, 4 ♂ ♂, leg. Abdinbekova.

**Hosts:**

*Archips crataegana* HBN., *Archips oporana* (L.), *Archips rosana* (L.), *Archips xylosteana* (L.), *Tortrix viridana* (L.) (Tortricidae), *Apamea remissa* (HBN.), *Cosmia trapezina* (L.), *Euproctis chrysorrhoea* (L.), *Eupsilia transversa* (HFN.), *Helicoverpa armigera* (HBN.), *Leucania loreyi* (DUP.), *Leucoma salicis* (L.), *Spodoptera exigua* (HBN.), *Thaumetopoea pityocampa* DEN. & SCHIF., *Thaumetopoea processionea* (L.) (Noctuidae), *Abraxas grossulariata* (L.), *Erannis defoliaria* (CL.), *Hemithea aestivaria* (HBN.), *Eupithecia tripunctaria* (H.-S.), *Eupithecia virgaureata* DOUBL., *Operophtera brumata* (L.), *Rhoptria asperaria* (HBN.), (Geometridae), *Dendrolimus pini* (L.) (Lasiocampidae).

**Distribution:**

Europe, Turkey, China, Japan, Korea, Azerbaijan (ABDINBEKOVA, 1995)

*Meteorus pulchricornis* (WESMAEL, 1835)

**Material:**

dist. Ordubad, 29.V.1967, 1 ♀, leg. Abdinbekova.

**Hosts:**

*Lycophotia porphyrea* (DEN. & SCHIFF.), *Eupsilia transversa* (HFN.) (Noctuidae), *Lymantria dispar* (L.) (Lymantriidae), *Operophtera brumata* (L.), *Agriopis leucophaearia* (DEN. & SCHIFF.), *Agriopis aurantiaria* (HBN.), *Eupithecia nanata* (HBN.) (Geometridae), *Thecla betulae* (L.) (Lycaenidae), *Nola cucullatella* (L.) (Nolidae), *Poecilocampa populi* (L.) (Lasiocampidae), *Charaxes jasius* L. (Nymphalidae) (HUDDLESTON 1980), *Hypocassida subferruginea* SCH. (Chrysomelidae) (GUCLU, 2006).

**Distribution:**

West Europe, New Zealand, Cyprus, Turkey, Japan (HUDDLESTON, 1980), Turkmenistan, Caucasus, Azerbaijan (TOBIAS, 1995, ABDINBEKOVA, 1995).



*Meteorus rubens* (NEES VON ESENBECK, 1811)**Material:**

dist. Gusar, 7.VIII.1960–62, 3 ♀ ♀, leg. Abdinbekova; Nakhichevan AR, 2.VI.1967, 20 ♂ ♂, leg. Abdinbekova; dist. Gobustan, May, 1967, 2 ♀ ♀, leg. Abdinbekova.

**Hosts:**

*Agrotis ipsilon* (HFN.), *Agrotis exclamationis* (L.), *Mamestra brassicae* (L.), *Spodoptera exigua* (HBN.), *Noctua pronuba* (L.) (Lepidoptera, Noctuidae), *Cynthia cardui* (L.) (Lepidoptera, Nymphalidae), *Idaea muricata* (HFN.) (Lepidoptera, Geometridae) (HUDDLESTON, 1980).

**Distribution:**

Europe, Algeria, Cyprus, Egypt, Israel, Japan, Mongolia, Turkey (SHENEFFELT 1970), Caucasus, Azerbaijan (TOBIAS, 1995, ABDINBEKOVA, 1995).

*Meteorus versicolor* (WESMAEL, 1835)**Material:**

dist. Khachmaz, 6.VIII.1962–1963, 2 ♀ ♀, leg. Abdinbekova; dist. Guba, 18.VII.1961, 1 ♀, leg. Abdinbekova; dist. Kalbajar, 25.VIII.1966, 1 ♀, leg. Abdinbekova; dist. Goychay, 8.VIII.1964, 3 ♀ ♀, leg. Abdinbekova; dist. Masally, June, VI.1965, 10 ♂ ♂, leg. Abdinbekova; dist. Agdash, 22.V.1962, 2 ♀ ♀, leg. Abdinbekova.

**Hosts:**

*Lasiocampa quercus* (L.), *Malacosoma neustria* (L.), *Macrothylacia rubi* (L.) (Lasiocampidae), *Dasychira pudibunda* (L.) *Euproctis chrysorrhoea* (L.), *Leucoma salicis* (L.), (Lymantriidae), *Anarta myrtille* (L.), *Lycophotia porphyrea* (DEN. & SCHIF.) (Noctuidae), *Eulithis testata* (L.) (Geometridae), *Maniola jurtina* *Thaumetopoea processionea* (L.) (Satyridae) (HUDDLESTON 1980), *Ips typographus* L. (Curculionidae) (GUCLU, 2006).

**Distribution:**

Europe, Mongolia, Turkey (HUDDLESTON 1980), Caucasus, Azerbaijan (TOBIAS, 1995).

Genus *Microctonus* WESMAEL, 1835*Microctonus aethiopoulos* (LOAN, 1975)**Material:**

dist. Guba, 8–26.IV.1962, 4 ♂ ♂, leg. Abdinbekova; dist. Lankaran, 5.VIII.1964, 1 ♂, leg. Abdinbekova; dist. Lerik, 30.VI.1965, 1 ♂, leg. Abdinbekova; dist. Ordubad,

5.VI.1967, 4 ♂ ♂, leg. Abdinbekova; dist. Norashen (now Sharur), 23.V.1967, 1 ♀, leg. Abdinbekova; dist. Mardakert (now Aghdere), 20.VI.1967, 1 ♂, leg. Abdinbekova; dist. Julfa, 24.VI.1967, 1 ♀, leg. Abdinbekova.

**Hosts:**

*Hypera postica* GYLL., *Hypera meles* F., *Hypera nigrirostris* F., *Sitona discoideus* GYLL., *Sitona lepidus* GYLL., *Listronotus bonariensis* KUSCH. (Curculionidae).

**Distribution:**

All Palaearctic, North America, Australia and New Zealand, Azerbaijan (TOBIAS, 1986, ABDINBEKOVA, 1995).

*Microctonus melanopus* (RUTHE, 1856)**Material:**

dist. Ordubad, 2.VI.1967, 2 ♀ ♀, leg. Abdinbekova; Nakhichevan AR, 2.VI.1967, 1 ♂, leg. Abdinbekova.

**Hosts:**

*Ceutorhynchus assimilis* (PAYK.), *Ceutorhynchus leprieuri* BRIS., *Ceutorhynchus obstrictus* MARSH., *Ceutorhynchus pleurostigma* MARSH., *Ceutorhynchus quadridens* (PAN.), *Ceutorhynchus pallidactylus* MARSH., *Hypera meles* (FABR.) (Curculionidae).

**Distribution:**

West Europe, Mid Asia, Caucasus, Kazakhstan (TOBIAS, 1986).

Genus *Pygostolus* HALIDAY, 1833*Pygostolus falcatus* (NEES, 1834)**Material:**

dist. Gusar, 10.VII.1967, 1 ♀, leg. Abdinbekova; dist. Khachmaz, 28.V.1961, 1 ♂, leg. Abdinbekova; dist. Mardakert (now Aghdere), 21.VI.1967, 1 ♂, leg. Abdinbekova.

**Hosts:**

*Brachyderes incanus* L., *Polydrusus pilosulus* CHEVR., *Oti-orhynchus ovatus* L., *Strophosoma capitatum* DE. GEER., *Sitona humeralis* STEPH. (Curculionidae), *Cryptocephalus bipunctatus* L. (Chrysomelidae).

**Distribution:**

West Europe, Mongolia, North America, Kazakhstan, Kirgizia, Siberia, Sakhalin, Caucasus, Azerbaijan (TOBIAS, 1986, ABDINBEKOVA, 1995).

Genus *Syntretus* FÖRSTER, 1862

Subgenus *Syntretus* FÖRSTER, 1862

*Syntretus (Syntretus) elegans* (RUTHE, 1856)

**Material:**

dist. Guba, 10.IX.1962, 1 ♂, leg. Abdinbekova; dist. Mardakert (now Aghdere), 28.IV.1967, 2 ♀ ♀, leg. Abdinbekova; dist. Barda, 20.V.1966, 1 ♂, leg. Abdinbekova.

**Host:**

unknown.

**Distribution:**

Europe (VAN ACHTERBERG & HAESELBARTH, 2003), Turkey (YILMAZ, 2008), Far East Russia, Kazakhstan, Georgia, and Lithuania (BELOKOBYLSKIY, 2000), Azerbaijan (ABDINBEKOVA, 1995).

Genus *Wesmaelia* FÖRSTER, 1862

*Wesmaelia pendula* FÖRSTER, 1862

**Material:**

dist. Guba, 28.VI.1961, 1 ♂, leg. Abdinbekova; dist. Goychay, 25.V.1964, 1 ♂, leg. Abdinbekova.

**Hosts:**

*Nabis alternatus* PARSH., *Nabis americolimbatus* C., *Nabis capsiformis* GERM. (Nabidae).

**Distribution:**

Europe (GAVIN et al., 2006), Former USSR, Caucasus, Azerbaijan (ABDINBEKOVA, 1995).

Genus *Zele* CURTIS, 1832

*Zele chlorophthalmus* (SPINOLA, 1808)

**Material:**

dist. Guba, 20.VIII.1961, 4 ♀ ♀, leg. Abdinbekova; dist. Shahbuz, 14.IX.1967, 10 ♂ ♂, leg. Abdinbekova; dist. Gutkashen (now Gabala), 17.VII.1965, 1 ♂, leg. Abdinbekova; dist. Gakh, 24.VII.1965, 2 ♂ ♂, leg. Abdinbekova; dist. Shamakhy, 14.VII.1965, 2 ♂ ♂, leg. Abdinbekova.

**Hosts:**

*Bupalus piniaria* L., *Hydriomena furcata* THUNB., *Rheumaptera hastata* L., *Semiothisa continuaria* EVERS., (Geometridae), *Anarta myrtili* (L.) (Noctuidae), *Ostrinia nubilalis* HBN., (Pyralidae), *Acleris variana* FENNALD (Tortricidae).

**Distribution:**

West Europe, Caucasus, Kazakhstan, Siberia, Azerbaijan (ABDINBEKOVA, 1995).

Subfamily MACROCENTRINAE

Genus *Macrocentrus* CURTIS, 1833

*Macrocentrus blandus* EADY at CLARK, 1964

**Material:**

dist. Dashkasan, 6.VIII.1967, 4 ♀ ♀, leg. Abdinbekova; dist. Mardakert (now Aghdere), 26.VI.1967, 2 ♂ ♂, leg. Abdinbekova; dist. Gadabay, 1.VII.1967, 1 ♂, leg. Abdinbekova.

**Hosts:**

*Zeiraphera griseana* HBN. (Tortricidae), *Agrotis segetum* (DEN. et SCHIFF.), *Hydraecia petasitis* DBLD., *Dasypolia templi* (THUNG.), *Mesapamea secalis* (L.), *Hydraecia micacea* (ESP.) (Noctuidae).

**Distribution:**

West Europe (GAVIN et al. 2011), Turkey (GUCLU, 2006), Former USSR, Caucasus, Azerbaijan (ABDINBEKOVA, 1995).

*Macrocentrus collaris* (SPINOLA, 1808)

**Material:**

dist. city Sumgayit, 27.IX.1937, 1 ♀, leg. Vinovsky; dist. Kirovabad (now Ganja), 6.VII.1937, 1 ♂, leg. Vinovsky; dist. Ordubad, 1-6.VII.1937, 1 ♀, 1 ♂, leg. Vinovsky; dist. Norashen (now Sharur), 13.VI.1959, 6 ♀ ♀, 6 ♂ ♂, leg. Gurbanov; dist. Norashen (now Sharur), 13.VI.1959, 1 ♂, leg. Abdinbekova; dist. Gadabay, 2.VII.1959, 1 ♀, 3 ♂ ♂, leg. Jafarov; Same locality, 30.VI.1967, 1 ♀, 28.VI.1966, 3 ♀ ♀, 28.VIII.1966, 2 ♀ ♀, leg. Abdinbekova; dist. Kurekchay (now in the territory of Goranboy district), 29.VIII.1959, 19 ♀ ♀, leg. Abdinbekova; dist. Mirbashir (now Tartar), 14-17.VII.1966, 4 ♀ ♀, 1 ♂, 14.VII.1968, 1 ♀, leg. Abdinbekova; Same locality, 27.III.1966, 2 ♀ ♀, 2 ♂ ♂, leg. Abdinbekova; dist. Barda, 29.VI.1966, 1 ♂, 1 ♀, the same district, village Shirvanly, 17.VI.1966, 1 ♀, leg. Abdinbekova; dist. Guba, 22.VII.1962, 1 ♀, 23.VII.1967, 1 ♂, 24.V.62, 4 ♀ ♀, 9 ♂ ♂, leg. Abdinbekova; the same district village Vladimirovka, 29.VII.1960, 1 ♂, leg. Abdinbekova; the 11<sup>th</sup> sovkhos, 16.V.1961, 1 ♀, 29.IX.1961, 2 ♀ ♀, 4 ♂ ♂, 21.VI.1961, 1 ♀, 10.VIII.1961, 1 ♂, leg. Abdinbekova; dist. Gusar, 11.VII.1960, 1 ♂, leg. Abdinbekova; dist. Gasym-Ismaïlov (now Goranboy), 18.VI.1966, 1 ♀, leg. Abdinbekova; dist. Norashen (now Sharur), 13.VII.1963, 1 ♂, leg. Abdinbekova; dist. Goychay, 2.X.1964, 1 ♂, leg. Abdinbekova; dist. Masally, 12.V.1965, 2 ♀ ♀, 1 ♂,

26.VI.1965, 1 ♂, 16.VII.1965, 1 ♀, 1 ♂, leg. Abdinbekova; dist. Lankaran, 6.VI.1965, 3 ♀♀, 1 ♂, 30.VI.1966, 1 ♀, 5.IX.1965, 2 ♂♂, leg. Abdinbekova; dist. Ordubad, 7.VII.1965, 1 ♀, 1 ♂, 25.V.1966, 4 ♀♀, 2 ♂♂, leg. Mamedov; Same locality, 1.VI.1965, 1 ♂, leg. Mirzazadeh; Same locality, 3-15.VI.1967, 2 ♀♀, 2 ♂♂, leg. Abdinbekova; city Baku, 24-25.VII.1960, in the Botanical garden, 1 ♀, leg. Abdinbekova; dist. Agdash, 13.VI.1966, 1 ♂, leg. Abdinbekova; dist. Kalbajar, 2.VIII.1966, 1 ♂, 25.VIII.1966, 1 ♂, 9.IX.1966, 8 ♀♀, 3 ♂♂, leg. Abdinbekova; dist. Mardakert (now Aghdere), 31.III.1966, 2 ♀♀, 16.VI.1967, 3 ♀♀, 14.VIII.1966, 3 ♀♀, leg. Abdinbekova; Nakhichevan AR, 21.IV.1967, 1 ♂, 13.VI.1967, 6 ♀♀, 2 ♂♂, 16.VI.1967, 1 ♂, leg. Abdinbekova; dist. Margushevan (now Khojavend), 1.VII.1966, 1 ♀, 4.VI.1967, 1 ♂, 3 ♀♀, leg. Abdinbekova; dist. Khanlar (now Goygol), 24.VI.1968, 3 ♀♀, leg. Abdinbekova; dist. Shamakhy, 26.V.1966, 1 ♀, the same district, village Chukhuryurd, 27.V.1966, 2 ♀♀, leg. Abdinbekova; dist. Agdam, 8.VIII.1966, 2 ♀♀, 18.VII.1966, 1 ♀, 1 ♂, leg. Abdinbekova; dist. Dashkasan, 2.VIII.1966, 2 ♀♀, leg. Abdinbekova; Shamkhor (now Shamkir), 19.V.1966, 10 ♀♀, leg. Abdinbekova; dist. Khankendi, 18.VIII.1966, 1 ♂, leg. Abdinbekova; dist. Shahbuz, 14.VI.1967, 2 ♀♀, 2 ♂♂, leg. Abdinbekova; Nakhichevan AR, 2.V.1967, 1 ♂, 23-28.V.1967, 4 ♀♀, 6 ♂♂, leg. Abdinbekova; dist. Julfa, 21.V.1967, 1 ♂, 3 ♀♀, leg. Abdinbekova; dist. Zagatala, 17.V.1959, 3 ♂♂, leg. Abdinbekova; dist. Masally,

29.III.1965, 1 ♂, leg. Abdinbekova; dist. Astarkhan-Bazar (now Jalilabad).

#### Hosts:

*Agriotes lineatus* L. (Elateridae), *Anobium punctatum* (DEG.) (Anobiidae), *Lycia hirtaria* (CL.) (Geometridae), *Polygonia c-album* (L.) (Nymphalidae), *Eupoecilia ambiguella* (HBN.), DEN. et SCHIFF. (Tortricidae), *Agrotis clavis* (HFN.), *Agrotis exclamationis* (L.), *Agrotis ipsilon* (HFN.), *Agrotis segetum* (DEN. et SCHIFF.), *Euxoa cursoria* (HFN.), *Heliothis armigera* (HFN.), *Heliothis virescens* (HFN.), *Lymantria monacha* (L.), *Mamestra brassicae* (L.), *Noctua pronuba* (L.), *Spodoptera littoralis* (BOISD.) (Noctuidae).

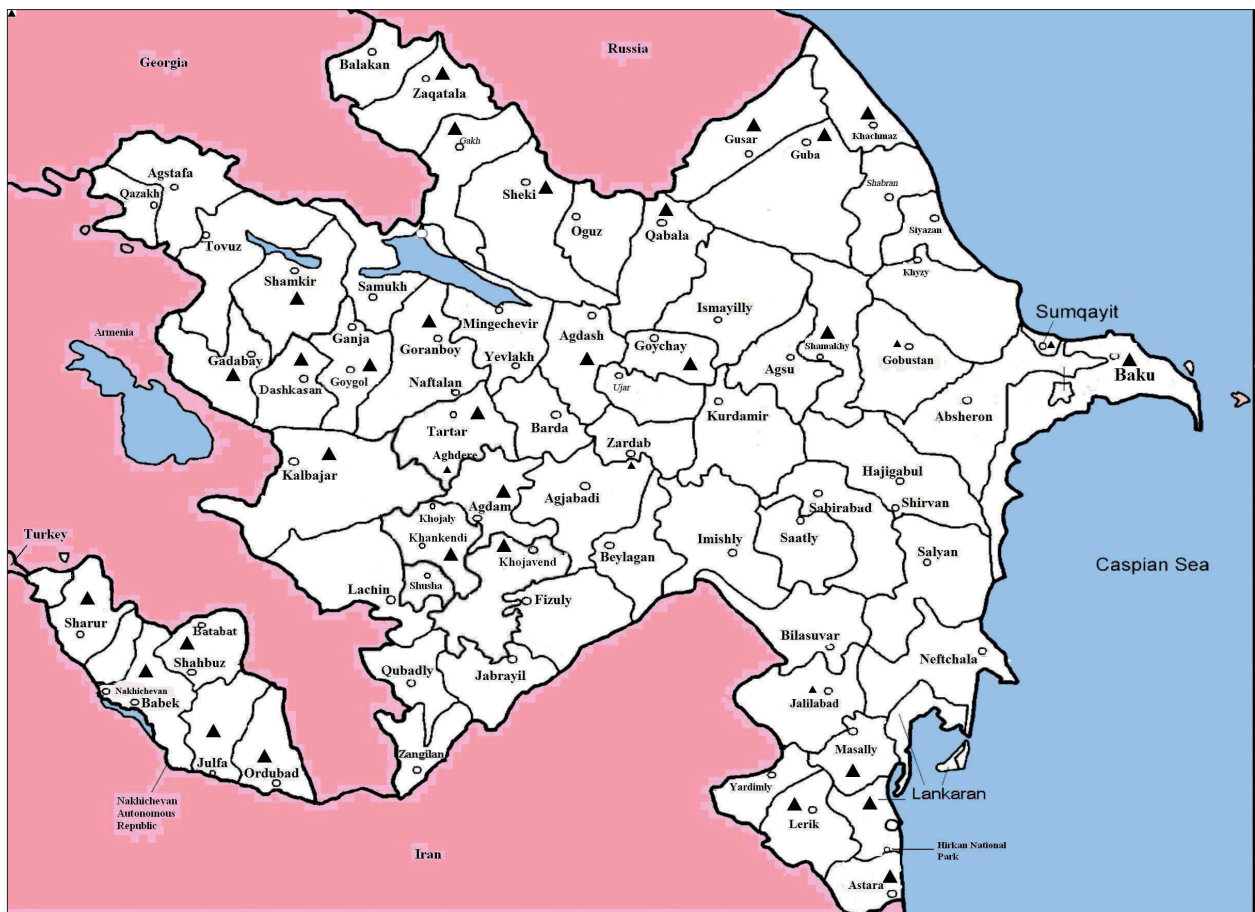
#### Distribution:

West Europe (GAVIN et al. 2011), Turkey (GUCLU, 2006), Former USSR, Caucasus, Azerbaijan (ABDINBEKOVA, 1995).

*Macrocentrus grandii* GOIDANICH, 1937

#### Material:

dist. Mirbashir (now Tartar), 12.VI.1966, 2 ♂♂, leg. Abdinbekova; dist. Kalbajar, 25.VIII.1966, 1 ♂, leg. Abdinbekova.



Map 1: Records of Braconidae in Azerbaijan, places (open circles) and localities (filled triangles).

# Hosts:

*Vanessa atalanta* (L.) (Nymphalidae), *Chilo partellus* SWIN. (Plutellidae), *Eurrhynx hortulata* L., *Ostrinia furnacalis* (GN.) (Pyralidae), *Ostrinia nubilalis* (HBN.), *Pleuroptya ruralis* SCOP. (Pyralidae).

# Distribution:

West Europe (GAVIN et al. 2011), Former USSR, Caucasus, Azerbaijan (ABDINBEKOVA, 1995).

*Macrocentrus linearis* (NEES, 1811)

# Material:

dist. Agdam, 21.IV.1960, 1 ♀, leg. Abdinbekova; dist. Goychay, 14.V.1964, 1 ♂, leg. Abdinbekova; dist. Guba, 22.VI.1962, 1 ♀, leg. Abdinbekova.

# Hosts:

*Achlya flavicornis* (L.), *Drepana arcuata* WLK., *Drepana falcatoria* (L.) (Drepanidae), *Ennomos quercinaria* (HFN.), *Ennomos subsignaria* (HBN.) (Geometridae), *Malacosoma dissitia* HBN., *Malacosoma neustria* (L.) (Lasiocampidae), *Peribatodes rhomboidaria* (DEN. & SCHIF.) (Geometridae), *Acleris comariana* (LIEN. & ZELL.), *Acleris variegana* (DEN. & SCHIF.), *Aleimma loeflingiana* (L.), *Archips rosana* (L.), *Archips xylosteana* (L.), *Tortrix viridana* (L.) (Tortricidae), *Acrobasis sodalella* ZELL., *Anania funebris* (STR.), *Ostrinia nubilalis* (HBN.) (Pyralidae), *Agonopterix alstromeriana* (CL.), *Agonopterix nanatella* ST. (Depressariidae), *Anacamptis populella* CL. (Gelechiidae), *Plutella xylostella* (L.) (Plutellidae).

# Distribution:

West Europe (GAVIN et al. 2011), Former USSR, Caucasus, Azerbaijan (ABDINBEKOVA, 1995).

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