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## **Ichneumonidae in the collection of the Institute of Zoology, NAS of Azerbaijan Republic**

### **Part I. Subfamily Pimplinae**

#### **(Hymenoptera)**

With 1 map

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#### **Summary**

The Ichneumonidae (Hymenoptera) collection of the Institute of Zoology, National Academy of Sciences, Azerbaijan Republic, comprises 570 species belonging to 21 subfamilies, 34 tribes and 148 genera. This contribution contains information on 31 species of Pimplinae.

#### **Zusammenfassung**

Die Ichneumonidae (Hymenoptera) Sammlung des Instituts für Zoologie der Nationalen Akademie der Wissenschaften, Aserbaidshans, umfasst 570 Arten in 21 Unterfamilien, 34 Triben und 148 Gattungen. Dieser Beitrag enthält Daten über 31 Arten von Pimplinae.

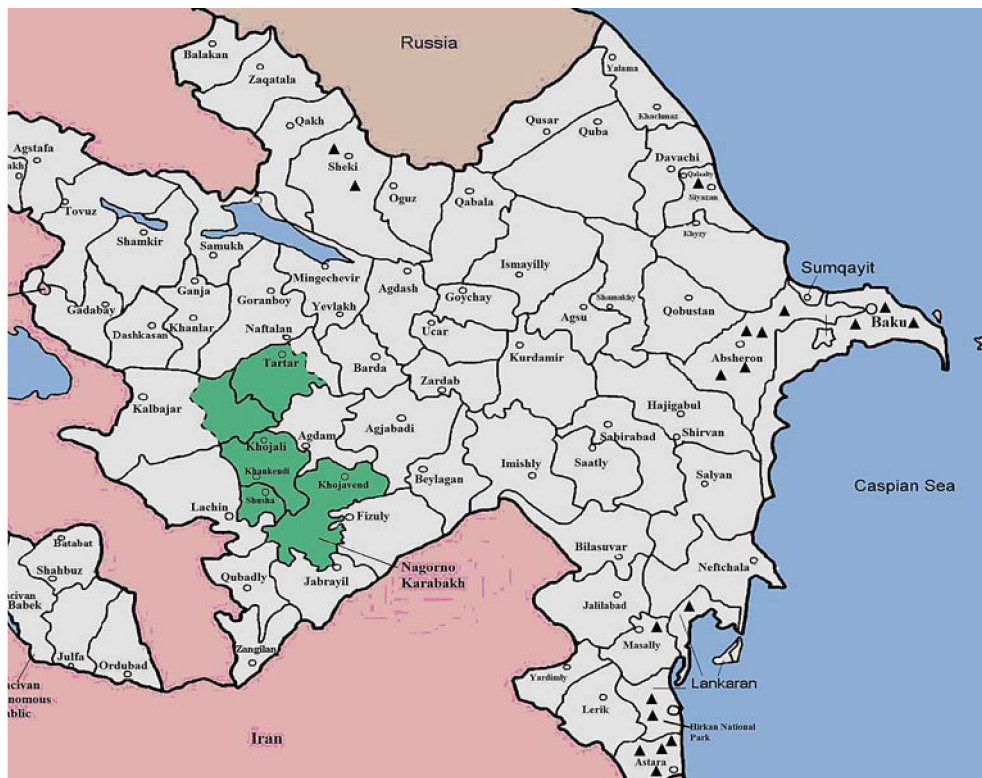
#### **Key words**

Azerbaijan, Ichneumonidae, Pimplinae, host, distribution.

#### **Introduction**

The parasitoids from the family Ichneumonidae represented by 570 species in Azerbaijan Republic, which are presented in paper. These species belong to 21 subfamilies, 34 tribes and 148 genera. From them 355 species are recorded to be new to Azerbaijan fauna, 132 – the fauna of the Caucasus. Two species are described as new to science (A. ALIYEV, 1997). The paper contains information about 31 species of gold wasps from Pimplinae subfamily of Ichneumonidae family.

Information about hosts was taken from literature (Los, W., 2007) and own materials of A. ALIYEV. Geographical distribution of species is described by own materials of A. ALIYEV, by collection materials of Institute of Zoology, NAS of Azerbaijan, Zoological Institute of AS of RF, also by literature data (Los, W. (ed.), 2007) and [http://www.faunaeur.org/distribution\\_table.php](http://www.faunaeur.org/distribution_table.php). Systematical order of species is presented according to H. A. TOWNES (1944), J. - F. AUBERT (1969), A. Z. ATANASOV et al. (1981), Los W. (ed.), (2007), HORSTMANN, K. (2001).



Map of Azerbaijan: O – districts; ▲ – material collection sites.

Subfamily Pimplinae WESMAEL, 1845

Genus *Exeristes* FORSTER, 1869

*Exeristes roborator* (FABRICIUS, 1793)

**Material:**

dist.Quba, 05.VII.1961, motley grass, 1 ♂, leg.Aliyev; dist.Quba, 16.VII.1961, motley grass, 2 ♂♂, leg.Aliyev; dist.Masally, 06.VI.1965, on mustard, 1 ♀, leg.Abdinbekova; dist.Saatly, 23.VI.1969, 1 ♀, leg.Humbetov; dist.Khanlar, 15.V.1974, forest, 2 ♀♀, leg.Aliyev.

**Hosts:**

*Cryptorhynchus lapathi* L., *Larinus sturnus* SCHAL., *L. cynarae* F., *L. scolymi* OL., *Lixus cardui* OL., *Pissodes harcyniae* HERB. (Curculionidae), *Pyropteron affine* STGR., *Synanthedon formicaeformis* ESP., *S. myopaeformis* BKH., *S. speciformis* DEN. et SCHIFF. (Sessidae), *Pseudococcyx turionella* L., *Rhyacionia buoliana* DEN. et SCHIFF., *Retinia resinella* L. (Tortricidae); *Exoteleia dodecella* L. (Gelechiidae), *Homoeosoma nebulella* DEN. & SCHIFF., *Myelois circumvoluta* FOURC., *Ostrinia nubilalis* HB. (Pyralidae). Hyperparasite of *Gregopimpla malacosomae* SEY. (Ichneumonidae).

**Distribution:**

Albania, Austria, North Africa, Belgium, Bulgaria, Canary Is., Corsica, Cyprus, Czech Republic, Finland, French mainland, Germany, Greek mainland, Georgia, Hungary, Italia, Israel, Iran, Iraq, Latvia, Norwegia, The Netherlands, Poland, Romania, Russia, Sardinia, Sicily, Slovakia, Spanish mainland, Turkey, Yugoslavia.

Genus *Liotryphon* ASHMEAD, 1900

*Liotryphon caudatus* RATZBURG, 1848

**Material:**

Nakhichevan AR, dist.Ordubad, 02.VI.1969, 1 ♀, leg.Mamedov; Nakhichevan AR, dist.Batabat, 02.VII.1980, motley grass, 1 ♀, leg.Aliyev.

**Hosts:**

*Cydia pomonella* L. (Tortricidae), *Biorbiza pallida* OL. (Cynipidae).

**Distribution:**

Austria, Britain I., Bulgaria, Cyprus, Czech Republic, French mainland, Germany, Georgia, Hungary, Italian mainland Israel, Iran, Iraq, Lebanon, Republic of Moldova, Norwegian mainland, The Netherlands, Poland, Romania, Russia Central, Slovakia, Sweden, Switzerland, Syria, Turkey, Yugoslavia.

Genus *Endomopoda* HELLÉN, 1939 (= *Scambus* HARTIG, 1838)

*Endromopoda arundinator* (FABRICIUS, 1804)

= *Scambus arundinator* (FABRICIUS, 1804)

**Material:**

dist.Quba, 24.V.1973, motley grass, 1 ♀, 2 ♂♂, leg.Aliyev.

**Hosts:**

*Lipara lucens* MG., *Platycephala* sp. (Chloropidae).

**Distribution:**

Austria, North Africa, Arabian Peninsula, Belgium, Britain I., Bulgaria, Corsica, Czech Republic, Finland, French mainland, Germany, Georgia, Hungary, Italian mainland, Israel, Iran, Iraq, Latvia, Lithuania, Republic of Moldova, Norwegian mainland, Poland, Romania, Russia, Sardinia, Slovakia, Spanish mainland, Syria, Sweden, The Netherlands, Turkey, Yugoslavia.

***Endromopoda detrita* (HOLMGREN, 1860)**= *Scambus detritus* (HOLMGREN, 1860)**Material:**

dist.Quba, 15.VII.1962, motley grass, 1 ♀, leg.Aliyev; dist.Qusar, 15.VII.1962, motley grass, 1 ♀, leg.Aliyev; dist.Lankaran, 18.IX.1972, motley grass, 1 ♀, leg.Aliyev.

**Hosts:**

*Anthonomus pomorum* L. (Curculionidae), *Synanthedon formicaeformis* ESP. (Sessidae), *Hedya nubiferana* Hw., *Lobesia botrana* DEN. et SCHIFF., *Rhyacionia buoliana* DEN. et SCHIFF., *Eupoecilia ambiguella* HB. (Tortricidae), *Argyresthia laevigatella* HEYD., (*Yponomeutidae*), *Chilo phragmitella* HB. (Pyralidae), *Lipara lucens* MG. (Chloropidae), *Cephus pygmeus* L. (Cephididae), *Andricus lignicolus* HTG. (Cynipidae).

**Distribution:**

Austria, Arabian peninsula, North Africa, Belgium, Britain I., Bulgaria, Corsica, Czech Republic, Danish mainland, Faroe Is., Finland, French mainland, Germany, Georgia, Hungary, Italian mainland, Iran, Iraq, Israel, Latvia, Lithuania, Lebanon, Republic of Moldova, The Netherlands, Norwegian mainland, Poland, Portuguese mainland, Romania, Russia, Slovakia, Spanish mainland, Syria, Sweden, Switzerland, Sinai Peninsula (Egypt), Turkey, Yugoslavia.

**Genus *Scambus* HARTIG 1838*****Scambus nigricans* THOMSON, 1877****Material:**

dist. Lankaran, 13.IX.1971, motley grass, 1 ♀, leg. Aliyev.

**Hosts:**

*Epiblema scutulana* DEN. et SCHIFF., *Grapholita discretana* WOCKE (Tortricidae), *Depressaria heraclei* RETZ. (Depressariidae), *Platyptilia nemoralis* ZEL. (Pterophoridae), *Dioryctria abietella* DEN. et SCHIFF. (Pyralidae), *Alsophila aescularia* DEN. et SCHIFF., *Apocheima hispidaria* DEN. et SCHIFF., *Lycia pomonaria* HB., *Phigalia pilosaria* DEN. et SCHIFF. (Geometridae), *Gortyna flavago* DEN. et SCHIFF. (Noctuidae), *Hartigia linearis* SCH. (Cephididae), *Lipara lucens* MG. (Chloropidae).

**Distribution:**

Austria, Arabian peninsula, North Africa, Belgium, Britain I., Bulgaria, Corsica, Czech Republic, Finland, French mainland, Germany, Georgia, Hungary, Italian mainland, Iran, Iraq, Israel, Jordan, Latvia, Lebanon, Republic of Moldova, Norwegian mainland, Poland, Romania, Russia, Sinai Peninsula (Egypt), Slovakia, Spanish mainland, Syria, Sweden, Switzerland, The Netherlands, Turkey, Yugoslavia.

***Scambus* sp.**

**Material:**

dist.Quba, 07.IX.1972, 1 ♀, leg. Mirzazadeh.

**Genus *Ephialtes* GRAVENHORST, 1829**

***Ephialtes manifestator* (LINNAEUS, 1758)**

**Material:**

Nakhichevan AR, dist.Shahbuz, 31.X.1967, 3 ♀ ♀, leg.Mamedov; dist.Shusha, 05.X.1972, fruit garden on motley grass, 1 ♀, leg.Aliyev; Nakhichevan AR, dist.Shahbuz, 02.VII.1980, motley grass, 1 ♀, leg.Aliyev.

**Hosts:**

*Cerambyx cerdo* L., *Pogonocherus hispidus* L., *Saperda populnea* L. (Cerambycidae), *Pissodes castaneus* DE GEER (Curculionidae), *Synanthedon myopaeformis* BORKH. (Sesiidae).

**Distribution:**

Arabian Peninsula, Austria, Belarus, Belgium, Britain I., Bulgaria, Corsica, Czech Republic, Danish mainland, Estonia, Finland, French mainland, Georgia, Germany, Hungary, Iran, Iraq, Israel, Italian mainland, Jordan, Latvia, Lithuania, Lebanon, The Netherlands, Norwegian mainland, Poland, Romania, Russia, Sardinia, Sinai Peninsula (Egypt), Spanish mainland, Syria, Sweden, Switzerland, Turkey, Yugoslavia.

**Genus *Dolichomitus* SMITH, 1877**

***Dolichomitus tuberculatus* (GEOFROY in FOURCROY, 1785)**

**Material:**

dist.Ganja, 29.VII.1933, 1 ♀, leg.Vinovckiy.

**Hosts:**

*Protosima undecimmaculata* HERBST. (Buprestidae), *Acanthocinus aedilis* L., *Aromia moschata* L., *Callidium aeneum* DE GEER, *Cerambyx cerdo* L., *Monochamus galloprovincialis* OL., *M. scutellatus* SAY, *M. sutor* L., *Oplasia cinerea* MUL., *Plagionotus detritus* L., *Rhagium inquisitor* L., *R. mordax* DEGEER, *Saperda populnea* L., *Semanotus undatus* L. (Cerambycidae), *Cryptorhynchus lapathi* L., *Hylobius abietis* L., *Pissodes castaneus* DE GEER, (Curculionidae), *Synanthedon sphaeciformis* DEN. & SCHIFF., *S. vespiformis* L. (Sesiidae), *Yponomeuta cagnagella* HB. (Yponomeutidae), *Lymantria monacha* L. (Lymantriidae).

**Distribution:**

Austria, Belgium, Britain I., Bulgaria, Czech Republic, Finland, French mainland, Germany, Hungary, Italian mainland, Latvia, Lithuania, Norwegian mainland, Poland, Romania, Russia Central, Slovakia, Spanish mainland, Sweden, Switzerland, The Netherlands, Yugoslavia.

***Dolichomitus messor* (GRAVENHORST, 1829)**

**Material:**

dist.Khanlar, 15.V.1974, 1 ♀, leg.Aliyev.

**Hosts:**

*Aromia moschata* L., *Acanthocinus carinulatus* GEBLER, *Lamia textor* L., *Saperda carcharias* L., *S. populnea* L. (Cerambycidae), *Aphomia sociella* L., *Galleria mellonella* L. (Pyralidae), *Pristiphora laricis* HRT. (Tenthredinidae).

**Distribution:**

Arabian peninsula, Austria, Britain I., Bulgaria, Czech Republic, European Turkey, Finland, French mainland, Georgia, Germany, Hungary, Iran, Iraq, Israel, Italian mainland, Jordan, Lebanon, Latvia, The Netherlands, Poland, Romania, Russia, Sinai Peninsula (Egypt), Syria, Sweden, Switzerland, Turkey, Yugoslavia.

***Dolichomitus dux* (TSCHEK 1868)**

**Material:**

dist.Kalbajar, 17.IX.1974, forest, 1 ♀, leg.Aliyev.

**Hosts:**

*Rhagium inquisitor* L. (Cerambycidae).

**Distribution:**

Austria, Bulgaria, Czech Republic, Finland, French mainland, Germany, Hungary, Poland, Romania, Russia, Spanish mainland, Sweden, Switzerland, The Netherlands, Yugoslavia.

***Dolichomitus* sp.**

**Material:**

dist.Kalbajar, 17.IX.1974, forest, on *Juglans* sp., 1 ♂, leg.Aliyev; Nakhichevan AR, c.Nakhichevan, 12.IV.1970, forest, on *Juglans* sp., 1 ♂, leg.Aliyev.

**Genus *Gregopimpla* MOMOI 1965**

***Gregopimpla inquisitor* (SCOPOLI, 1763)**

**Material:**

dist.Mirbashir (now Tartar), 25.V.1961, motley grass, 1 ♀, leg.Aliyev; dist.Qusar, 25.V.1968, forest, motley grass, 1 ♀, leg.Aliyev; dist.Astara, 20.V.1972, motley grass, 1 ♂, leg.Aliyev; dist. Lankaran, 18.IX.1972, motley grass, 1 ♀, 1 ♂, leg. Aliyev.

**Hosts:**

*Anobium punctatum* DE GEER (Anobiidae), *Anthonomus pomorum* L., *Apoderus coryli* L., *Byctiscus betulae* L. (Curculionidae), *Archips rosanus* L., *A. xylosteana* L., *Eana penziana* (THUN.), *Epinotia tetraquetra* HAW., *Notocelia uddmanniana* L., *N. cynosbatella* L., *Tortrix viridana* L., *Cochylis flaviciliana* (WEST.) (Tortricidae), *Yponomeuta cagnagella* (HÜB.), *Y. padella* L. (Yponomeutidae), *Dioryctria abietella* (DEN. & SCHIFF.), *Ortholepis vacciniella* LIENIG & ZELL., *Myelois cribratella* ZELL., *Oncocera semirubella* (SCOP.) (Pyralidae), *Eupithecia veratraria* HER.-SCHÄFF. (Geometridae), *Malacosoma neustrium* L., *Euthrix potatoria* (L.), *Dendrolimus pini* L. (Lasiocampidae), *Lymantria monacha* L., *Calliteara pudibunda* L., *Leucoma salicis* L., *Orgyia recens* (HÜB.) (Lymantriidae), *Lithosia quadra* (L.) (Arctiidae), *Panolis flammea* (DEN. & SCHIFF.) (Noctuidae), *Janus compressus* FAB. (Cephididae), *Nematus bergmanni* DAHL., *N. viridis* STEPH. (Tenthredinidae).

**Distribution:**

Austria, Belarus, Belgium, Britain I., Bulgaria, Czech Republic, Danish mainland, Estonia, Faroe Is., Finland, French mainland, Germany, Hungary, Italian mainland, Latvia, Lithuania, Luxembourg, Republic of Moldova, Poland, Romania, Russia, Sicily.

**Genus *Tromatobia* FÖRSTER 1868*****Tromatobia variabilis* (HOLMGREN, 1856)****Material:**

dist.Masally, 28.VI.1965, on *Brassica* sp., 2 ♀♀, leg.Aliyev; dist.Goranboy, 02.IV.1966, on *Hordeum* sp., 1 ♂, leg.Aliyev.

**Hosts:**

*Araneus* sp. (Araneidae)

**Distribution:**

North Africa, Albania, Arabian peninsula, Austria, Britain I., Bulgaria, Czech Republic, Finland, French mainland, Georgia, Germany, Hungary, Iran, Iraq, Israel, Jordan, Lebanon, Republic of Moldova, The Netherlands, Norwegian mainland, Poland, Romania, Russia, Sinai Peninsula (Egypt), Slovakia, Spanish mainland, Syria, Sweden, Turkey, Yugoslavia.

***Tromatobia ornata* (GRAVENHORST, 1829)****Material:**

dist.Khachmaz, 10.X.1965, motley grass, 1 ♀, leg.Aliyev.

**Hosts:**

*Latrodectus tredecimguttatus* ROSSI (Theridiidae), *Malacosoma neustria* L. (Lasiocampidae).

**Distribution:**

Austria, Belgium, Britain I., Bulgaria, Czech Republic, Finland, French mainland, Germany, Hungary, Italian mainland, Latvia, Norwegian mainland, Poland, Romania, Russia, Slovakia, Spanish mainland, Sweden, The Netherlands, Yugoslavia.

Genus *Schizopyga* GRAVENHORST 1829

*Schizopyga frigida* CRESSON, 1870

= *Schizopyga atra* KRIECHBAUMER, 1887

**Material:**

dist.Quba, 10.VIII.1963, motley grass, 1 ♂, leg.Aliyev; dist.Qazakh, 20.V.1974, fruit garden, 2 ♂ ♂, leg.Aliyev; dist.Qazakh, 30.V.1974, on peach, 1 ♂, leg.Aliyev; dist.Shamkhor (now Shamkir), 05.VI.1974, fruit garden, 1 ♂, leg.Aliyev; dist.Mirbashir (now Tartar), 03.VII.1974, fruit garden, 1 ♀, leg.Aliyev; dist.Qazakh, 18.VII.1974, fruit garden, *Malus* sp., 2 ♀ ♀, 1 ♂, leg.Aliyev; dist.Qazakh, 09.VIII.1975, motley grass, 2 ♀ ♀, leg.Aliyev.

**Hosts:**

unknown.

**Distribution:**

Arabian peninsula, Austria, Britain I., Bulgaria, Czech Republic, Finland, French mainland, Georgia, Germany, Hungary, Italian mainland, Iran, Iraq, Israel, Jordan, Lebanon, The Netherlands, Norwegian mainland, Poland, Romania, Russia, Sinai Peninsula (Egypt), Spanish mainland, Syria, Switzerland, Turkey.

Genus *Polysphincta* GRAVENHORST 1829

*Polysphincta rufipes* GRAVENHORST, 1829

*Polysphincta drewseni* HOLMGREN, 1860

**Material:**

dist.Zaqatala, 09.IX.1974, motley grass, 1 ♀, leg.Aliyev.

**Hosts:**

*Araneus diadematus* CL. (Araneidae).

**Distribution:**

Austria, Britain I., Bulgaria, Czech Republic, Finland, French mainland, Germany, Hungary, Italian mainland, Republic of Moldova, Norwegian mainland, Poland, Romania, Russia, Spanish mainland, Sweden, Switzerland, The Netherlands.



***Polysphincta* sp.****Material:**

dist.Khachmaz, settl.Yalama, 25.IX.1972, leg.Z.Mamedov.

**Hosts:**

*Lymantria dispar* L. (Lymantriidae).

**Genus *Itopectis* FÖRSTER 1869*****Itopectis melanocephala* (GRAVENHORST, 1829)****Material:**

dist.Kurdamir, 10.X.1969, motley grass, 2 ♀ ♀, leg.Aliyev; dist.Yevlakh, 21.VII.1973, motley grass, 1 ♀, leg.Aliyev.

**Hosts:**

*Chilo phragmitella* HB. (Pyralidae), *Ostrinia nubilalis* HB. (Pyralidae), *Mythimna impura* HB., *Heliothis armigera* HB. (Noctuidae).

**Distribution:**

North Africa, Britain I., Bulgaria, Czech Republic, Finland, French mainland, Germany, Hungary, Italian mainland, Latvia, Poland, Romania, Russia, Sicily, Slovakia, Sweden, The Netherlands, Yugoslavia.

***Itopectis viduata* (GRAVENHORST, 1829)****Material:**

dist.Quba, 27.VI.1966, motley grass, 1 ♀, leg.Aliyev.

**Hosts:**

*Acanthopsyche ecksteini* LED., *Megalophanes viciella* DEN. et SCHIFF. (Psychidae), *Zygaena carniolica* SCOP., *Z. filipendulae* L., *Z. laeta* HB., *Z. viciae* (DEN. & SCHIFF., *Z. trifolii* ESP. (Zygaenidae), *Synanthedon spheciformis* DEN. et SCHIFF. (Sesiidae), *Aphelia stigmatana* EV., *Archips rosana* L., *Clepsis* sp.; *Rhyacionia buoliana* DEN. et SCHIFF. (Tortricidae), *Aristotelia brizella* TR., *Excoteleia dodecella* L. (Gelechiidae), *Evergestis limbata* L. (Pyralidae), *Malacosoma neustria* L. (Lasiocampidae), *Lymantria dispar* L., *Orgyia aurolimbata* GN., *O. dubia* *Orgyia dubia* TAUSCH., *O. antiquoides* HÜB., *Calliteara pudibunda* L., *Euproctis similis* FUESSLY (Lymantriidae), *Acronicta* sp., *Autographa gamma* L. (Noctuidae).

**Distribution:**

Albania, Arabian peninsula, Austria, Belgium, Bulgaria, Czech Republic, Danish mainland, Finland, French mainland, Georgia, Germany, Hungary, Iran, Iraq, Israel, Jordan, Lebanon, Republic of Moldova, The Netherlands, Poland, Romania, Russia, Sinai Peninsula (Egypt), Slovakia, Spanish mainland, Syria, Sweden, Turkey, Ukraine, Yugoslavia.

***Itopectis maculator* (FABRICIUS, 1775)****Material:**

dist.Quba, 31.V.1961, on mustard, 2 ♀ ♀, leg.Aliyev; dist.Quba, 01.VI.1961, on mustard, 1 ♀, leg.Aliyev; dist.Quba, 20.VIII.1961, 1 ♀, leg.Abdinbekova; dist.Quba, 02.IV.1962, 1 ♀, leg.Abdinbekova; dist.Quba, 04.V.1962, on mustard, 1 ♀, leg.Aliyev; dist.Quba, 03.VII.1962, fruit garden, motley grass, 1 ♂, leg.Mirzazadeh; dist.Quba, 26.VIII.1962, on *Pimpinella* sp., 1 ♂, leg.Mirzazadeh; dist.Quba, 02.V.1964, 1 ♀, leg.Aliyev; dist.Quba, 17.VII.1964, on alfalfa, 1 ♂, leg.Mirzazadeh; dist.Quba, 20.V.1966, 1 ♀, leg.Aliyev; dist.Quba, 05.VI.1966, 1 ♀, leg.Aliyev; dist.Quba, 25.VI.1966, 4 ♀ ♀, 12 ♂ ♂, leg.Aliyev; dist.Quba, 29.VI.1966, 1 ♀, 1 ♂, leg.Aliyev; dist.Khachmaz, 26.VI.1981, tomato, 1 ♀, leg.Aliyev.

**Hosts:**

*Tortrix viridana* L. (Tortricidae), *Yponomeuta malinellus* Z. (Yponomeutidae).

**Distribution:**

North Africa, Albania, Arabian peninsula, Austria, Belgium, Britain I., Bulgaria, Canary Is., Corsica, Czech Republic, Estonia, Finland, French mainland, Georgia, Germany, Hungary, Iran, Iraq, Israel, Italian mainland, Jordan, Lebanon, Latvia, Lithuania, Luxembourg, Republic of Moldova, The Netherlands, Norwegian mainland, Poland, Portuguese mainland, Romania, Russia, Sardinia, Sinai Peninsula (Egypt), Slovakia, Spanish mainland, Syria, Sweden, Switzerland, Turkey, Ukraine, Yugoslavia

***Itopectis alternans* (GRAVENHORST, 1829)****Material:**

dist.Nukha (now Sheki), 20.VI.1965, 1 ♂, leg.Aliyev; dist.Quba, 21.VI.1965, 1 ♀, leg.Aliyev; dist.Quba, 23.VI.1965, 1 ♂, leg.Aliyev; dist.Quba, 28.VI.1965, 2 ♂ ♂, leg.Aliyev; dist.Quba, 25.VI.1966, 1 ♂, leg.Aliyev; dist.Quba, 21.-27.VI.1966, 2 ♂ ♂, leg.Aliyev; dist.Balakan, 09.VII.1969, forest, 1 ♀, leg.Aliyev; dist.Quba, 16.VIII.1971, 3 ♀ ♀, leg.Aliyev; dist.Lankaran, 16.V.1972, 1 ♀, 1 ♂, leg.Aliyev; dist.Lankaran, 16.V.1972, on alfalfa, 1 ♂, leg.Aliyev; dist.Lankaran, 18.IX.1972, 1 ♂, leg.Aliyev.

**Hosts:**

*Yponomeuta malinellus* Z. (Yponomeutidae), cocoons hymenopterous, pupae tachins.

**Distribution:**

Arabian peninsula, Austria, Belgium, Britain I., Bulgaria, Corsica, Czech Republic, Danish mainland, Finland, French mainland, Georgia, Germany, Hungary, Iran, Iraq, Israel, Italian mainland, Jordan, Latvia, Lebanon, Lithuania, Republic of Moldova, The Netherlands, Norwegian mainland, Poland, Portuguese mainland, Romania, Russia, Sardinia, Sinai Peninsula (Egypt), Slovakia, Spanish mainland, Syria, Sweden, Turkey, Ukraine, Yugoslavia.

*Itoplectis tunetana* (SCHMIEDEKNECHT, 1914)**Material:**

dist.Quba, 25.VI.1966, 1 ♀, 1 ♂, leg.Aliyev; dist.Quba, 26.VI.1966, 1 ♀, 1 ♂, leg.Aliyev; dist.Quba, 27.VI.1966, 1 ♂, leg.Aliyev; dist.Quba, 28.VI.1966, 1 ♀, 1 ♂, leg.Aliyev; dist.Quba, 29.VI.1966, 2 ♂♂, leg.Aliyev; dist.Saatly, 15.VII.1968, 1 ♀, leg.Humbatov; dist.Khachmaz, 20.VIII.1981, motley grass, 1 ♂, leg.Aliyev.

**Hosts:**

*Cacoecimorpha pronubana* HB., *Pandemis chondrillana* H.-S. (Tortricidae), *Choreutis nemorana* HB., *Tebenna bjerkandrella* THUNB. (Choreutidae), *Yponomeuta padella* L., *Y. malinellus* Z., *Y. rorrella* HB. (Yponomeutidae), *Agrotis segetum* (DEN. & SCHIFF.) (Noctuidae), *Acrolepiopsis assectella* Z., (Acrolepiidae), *Coleophora cartilaginella* CHRIST. (Coleophoridae), *Hyposoter ebeninus* GRAV. (Ichneumonidae), pupari of Syrphidae.

**Distribution:**

North Africa, Arabian peninsula, Austria, Bulgaria, Corsica, French mainland, Hungary, Georgia, Lebanon, Iran, Iraq, Israel, Italian mainland, Jordan, Republic of Moldova, Poland, Romania, Russia, Sinai Peninsula (Egypt), Spanish mainland, Syria, Switzerland, Turkey, Ukraine, Yugoslavia.

Genus *Apechthis* FÖRSTER 1869*Apechthis quadridentata* (THOMSON, 1877)**Material:**

dist.Quba, 22.V.1968, forest, motley grass, 2 ♀♀, 2 ♂♂, leg.Aliyev; dist.Quba, 24.V.1968, forest, motley grass, 1 ♀, leg.Aliyev; dist.Qusar, 25.V.1968, forest, motley grass, 1 ♀, leg.Aliyev; dist.Shusha, 24.VI.1974, forest, 1 ♂, leg.Aliyev; dist.Khachmaz, 20.VIII.1981, motley grass, 1 ♂, leg.Aliyev.

**Hosts:**

*Megalophanes viciella* DEN. et SCHIFF. (Psychidae), *Archips crataegana* HB., *A. rosanus* L., *Dichelia histrionana* FROL., *Tortrix viridana* L., *Rhyacionia buoliana* SCHIF. (Tortricidae), *Ortholepis vacciniella* LIEN. & Z. (Pyralidae), *Abraxas grossulariata* L., *Cyclophora linearia* HB., *Thera variata* DEN. et SCHIFF. (Geometridae), *Drepana falcataria* L. (Drepanidae), *Macrothylacia rubi* L., *Malacosoma neustria* L. (Lasiocampidae), *Lymantria monacha* L. (Lymantriidae), *Spilosoma lubricipeda* L. (Arctiidae), *Gonepteryx rhamni* L., *Pieris napi* L. (Pieridae), *Argynnis paphia* L. (Nymphalidae), *Cephalcia abietis* L. (Pamphiliidae), *Diprion pini* L. (Diprionidae), *Tenebrio molitor* L. (Tenebrionidae).

**Distribution:**

Arabian peninsula, Austria, Bulgaria, Czech Republic, Finland, French mainland, Georgia, Germany, Hungary, Iran, Iraq, Israel, Italian mainland, Jordan, Lebanon, Lithuania, Republic of Moldova, The Netherlands, Norwegian mainland, Poland, Romania, Russia, Sinai Peninsula (Egypt), Slovakia, Spanish mainland, Syria, Sweden, Switzerland, Turkey, Ukraine, Yugoslavia.

*Apechthis* sp.**Material:**

dist. Qusar, 25.V.1968, forest, motley grass, 1 ♀, leg. Aliyev; dist. Khanlar, 15.V.1974, forest, 1 ♀, leg. Aliyev.

Genus *Pimpla* FABRICIUS 1804*Pimpla rufipes* (MILLER, 1759)

= *Pimpla instigator* (FABRICIUS, 1793)

**Material:**

dist. Qusar, 11.VII.1960, 1 ♂, leg. Abdinbekova; dist. Quba, 05.V.1964, 1 ♀, leg. Aliyev; dist. Masally, 17.II.1965, oak forest, 1 ♀, leg. Abdinbekova; dist. Masally, 30.III.1965, forest, on spurge, 1 ♂, leg. Abdinbekova; dist. Masally, 16.IV.1965, on fennel, 1 ♀, leg. Abdinbekova; dist. Masally, 19.IV.1965, on motley grass, 1 ♀, leg. Abdinbekova; dist. Masally, 24.IV.1965, on fennel, 1 ♀, leg. Abdinbekova; dist. Masally, 25.IV.1965, wheaten field, 1 ♂, leg. Abdinbekova; dist. Masally, 25.IV.1965, on motley grass, 1 ♂, leg. Abdinbekova; dist. Lankaran, 28.IV.1965, meadow, on spurge, 1 ♂, leg. Abdinbekova; dist. Nukha (now Sheki), 15.V.1965, 1 ♀, leg. Aliyev; dist. Masally, 18.V.1965, forest, motley grass, 1 ♀, leg. Abdinbekova; dist. Masally, 19.V.1965, forest, 1 ♀, leg. Abdinbekova; dist. Masally, 18.VI.1965, 1 ♂, leg. Abdinbekova; dist. Masally, 28.VI.1965, 1 ♂, leg. Abdinbekova; dist. Masally, 04.VII.1965, on fennel, 1 ♀, leg. Abdinbekova; dist. Zaqatala, 16.VI.1967, on crops wheat, 1 ♀, leg. Aliyev; dist. Zaqatala, 16.VI.1967, 1 ♂, leg. Aliyev; dist. Lankaran, 11.VIII.1971, motley grass, 1 ♂, leg. Aliyev; dist. Lankaran, 16.VIII.1971, forest, 1 ♀, leg. Aliyev; dist. Lankaran, 14.IX.1971, motley grass, 1 ♀, leg. Aliyev; dist. Agdam, 23.VII.1973, motley grass, 2 ♀ ♀, leg. Aliyev; dist. Qutqashen (new Qabala), 23.VII.1973, motley grass, 1 ♀, leg. Aliyev; dist. Agdash, 15.IX.1974, motley grass, 1 ♂, leg. Aliyev; dist. Kalbajar, 17.IX.1974, forest, 1 ♂, leg. Aliyev; dist. Khanlar, 15.V.1974, forest, 1 ♀, leg. Aliyev; dist. Lankaran, 25.VIII.1975, fruit garden, 1 ♂, leg. Aliyev.

**Hosts:**

*Pieris brassicae* L. (Pieridae), *Malacosoma neustria* L. (Lasiocampidae), *Hyphantria cunea* DRURY (Arctiidae), *Tortrix viridana* L. (Tortricidae), *Lymantria dispar* L. (Lymantriidae), *Yponomeuta malinella* Z. (Yponomeutidae), *Cimbex femoratus* L. (Cimbridae).

**Distribution:**

North Africa, Albania, Arabian peninsula, Austria, Azores, Belarus, Belgium, Britain I., Bulgaria, Canary Is., Corsica, Cyprus, Czech Republic, Danish mainland, Estonia, Finland, French mainland, Georgia, Germany, Hungary, Italian mainland, Iran, Iraq, Israel, Jordan, Latvia, Lebanon, Lithuania, Madeira, Malta, Republic of Moldova, The Netherlands, Norwegian mainland, Poland, Romania, Russia, Sinai Peninsula (Egypt), Slovakia, Syria, Sweden, Switzerland, Turkey, Ukraine, Yugoslavia.

***Pimpla turionellae* (LINNAEUS, 1758)****Material:**

dist.Kirovabad (now Ganja), 06.VII.1937, 2 ♂♂, leg.Bogachev; dist.Qusar, 07.VII.1960, 1 ♂, leg.Abdirbekova; dist.Qusar, 14.VII.1960, 1 ♂, leg.Abdirbekova; dist.Quba, 30.VII.1960, 1 ♂, leg.Abdirbekova; dist.Khachmaz, 30.VII.1960, forest, 1 ♂, leg.Abdirbekova; c.Baku, 29.IX.1960, 1 ♀, leg.Huseynova; dist.Quba, 27.VII.1961, 1 ♂, leg.Abdirbekova; Nakhichevan AR, dist.Ordubad, 31.V.1965, 1 ♂, leg.Mamedov; dist.Quba, 03.V.1966, 1 ♀, leg.Aliyev; dist. Astara, 21.V.1972, 1 ♀, forest, motley grass, leg.Aliyev.

**Hosts:**

*Laspeyresia pomonella* L., *Rhyacionia buoliana* DEN. et SCHIFF., *Tortrix viridana* L. (Tortricidae), *Choreutis pariana* CL. (Choreutidae), *Yponomeuta cagnagella* HB., *Y. evonymella* L., *Y. malinellus* Z., *Y. padella* L., *Y. vorrella* HB. (Yponomeutidae), *Abraxas grossulariata* L. (Geometridae), *Euproctis chrysorrhoea* L. (Lymantriidae).

**Distribution:**

North Africa, Arabian peninsula, Austria, Belarus, Belgium, Bulgaria, Canary Is., Corsica, Czech Republic, Estonia, Finland, French mainland, Georgia, Germany, Hungary, Iceland, Iran, Iraq, Israel, Italian mainland, Jordan, Latvia, Lebanon, Lithuania, Luxembourg, Republic of Moldova, The Netherlands, Norwegian mainland, Poland, Romania, Russia, Sinai Peninsula (Egypt), Slovakia, Spanish mainland, Syria, Sweden, Switzerland, Turkey, Ukraine, Yugoslavia.

***Pimpla contemplator* (MÜLLER, 1776)****Material:**

dist.Shamkhor (now Shamkir), 05.VI.1971, fruit garden, 2 ♂♂, leg.Aliyev; dist.Shamkhor (now Shamkir), 24.III.1974, forest, 1 ♀, leg.Aliyev; dist.Mirbashir (now Tartar), 06.VII.1974, fruit garden, 1 ♂, leg.Aliyev; dist.Tovuz, 15.VII.1974, apple tree, 1 ♂, leg.Aliyev; dist.Qazakh, 18.VII.1974, fruit garden, 1 ♂, leg.Aliyev.

**Hosts:**

*Archips rosanus* L. (Tortricidae)

**Distribution:**

Arabian peninsula, Austria, Belgium, Bulgaria, Canary Is., Corsica, Czech Republic, Danish mainland, Finland, French mainland, Georgia, Germany, Hungary, Iran, Iraq, Israel, Italian mainland, Jordan, Lebanon, Lithuania, Luxembourg, Republic of Moldova, The Netherlands, Norwegian mainland, Poland, Romania, Russia, Sinai Peninsula (Egypt), Slovakia, Syria, Sweden, Turkey, Ukraine, Yugoslavia.

***Pimpla spuria* GRAVENHORST, 1829****Material:**

dist.Zaqatala, 15.VII.1959, 1 ♀, leg.Abdirbekova; dist.Zaqatala, 27.VIII.1959, 1 ♂, leg. Abdirbekova; dist.Qusar, 10.VII.1960, 1 ♀, leg.Abdirbekova; dist.Quba, 01.X.1961, motley

grass, 1 ♂, leg. Abdinbekova; dist. Quba, 22.IV.1962, 1 ♂, leg. Aliyev; dist. Quba, 22.VI.1962, 1 ♀, 1 ♂, leg. Aliyev; dist. Quba, 07.VII.1962, 1 ♂, leg. Abdinbekova; dist. Khachmaz, 21.VIII.1962, 1 ♀, 1 ♂, leg. Abdinbekova; dist. Khachmaz, 15.VIII.1963, 1 ♀, leg. Abdinbekova; dist. Goychay, 26.IX.1964, cotton field, on motley grass, 1 ♂, leg. Aliyev; dist. Goychay, 29.IX.1964, motley grass, 1 ♂, leg. Abdinbekova; dist. Gadabay, 25.IX.1971, motley grass, 1 ♀, leg. Aliyev; dist. Masally, 16.VI.1975, on fennel, 1 ♀, leg. Abdinbekova.

#### Hosts:

*Cydia pomonella* L., *Lobesia botrana* DEN. & SCHIFF., *Eupoecilia ambiguella* HB. (Tortricidae), *Yponomeuta padella* L., *Y. malinellus* Z. (Yponomeutidae), *Agonopterix propinquella* TR., *Depressaria heraclei* RETZ. (Depressariidae), *Etiella zinckenella* TR., *Loxostege sticticalis* L. (Pyralidae), *Malacosoma castrense* L., *M. neustria* L. (Lasiocampidae), *Hyphantria cunea* DRURY (Arctiidae), *Lymantria dispar* L., *Calliteara pudibunda* L. (Lymantriidae).

#### Distribution:

North Africa, Arabian peninsula, Austria, Belgium, Bulgaria, Canary Is., Corsica, Czech Republic, Danish mainland, Finland, French mainland, Georgia, Germany, Hungary, Iran, Iraq, Israel, Italian mainland, Jordan, Lebanon, Lithuania, Malta, Republic of Moldova, The Netherlands, Norwegian mainland, Poland, Romania, Russia, Sinai Peninsula (Egypt), Slovakia, Spanish mainland, Syria, Sweden, Turkey, Ukraine, Yugoslavia.

### Genus *Theronia* HOLMGREN 1859

#### *Theronia atalantae* (PODA, 1761)

#### Material:

dist. Barda, 14.IX.1974, cotton field, 1 ♂, leg. Aliyev

#### Hosts:

*Apechthis capulifera* KRIECHB., *Pimpla* sp., *Therion circumflexum* L., *Habronyx heros* WESM., *Casinarina nigripes* GRAV., *Hyposoter validus* PFANK. (Ichneumonidae).

#### Distribution:

Arabian peninsula, Austria, Belarus, Belgium, Britain I., Bulgaria, Corsica, Czech Republic, Finland, French mainland, Georgia, Germany, Hungary, Iran, Iraq, Israel, Italian mainland, Jordan, Lebanon, Latvia, Republic of Moldova, The Netherlands, Poland, Romania, Russia Central, Sardinia, Sinai Peninsula (Egypt), Slovakia, Spanish mainland, Syria, Sweden, Switzerland, Turkey, Ukraine, Yugoslavia.

### Genus *Perithous* HOLMGREN 1859

#### *Perithous septemcinctorius* (THUNBERG, 1822)

#### Material:

dist. Quba, 03.V.1962, 2 ♂♂, leg. Abdinbekova; dist. Quba, 24.V.1962, 2 ♂♂, leg. Abdinbekova; dist. Kurdamir, 10.X.1964, 1 ♂, leg. Abdinbekova; Nakhichevan AR, dist. Ilich (now Sharur),

26.V.1965, 1 ♀, leg.Mamedov; dist.Shamkhor (now Shamkir), 24.III.1974, cotton field, 1 ♀, leg.Aliyev.

**Hosts:**

*Pemphredon lugubris* LATR., *P. morio* VAN DER LINDEN, *Mimumesa dahlbomi* WESM., *Psenulus fuscipennis* DHLB., *P. pallipes* PANZ. (Crabronidae).

**Distribution:**

Belgium, Britain I., Bulgaria, Corsica, Czech Republic, Finland, French mainland, Germany, Hungary, Italian mainland, Lithuania, Republic of Moldova, The Netherlands, Norwegian mainland, Poland, Romania, Russia Central, Slovakia, Spanish mainland, Sweden, Switzerland.

***Perithous* sp.**

**Material:**

dist.Khachmaz, 10.X.1965, motley grass, 1 ♀, leg.Aliyev.

Genus *Rhyssa* GRAVENHORST 1829

***Rhyssa persuasoria* (LINNAEUS, 1758)**

**Material:**

dist.Mirbashir (now Tartar), 20.IX.1974, 1 ♀, leg.Aliyev.

**Hosts:**

*Sirex juvencus* L., *S. noctilio* F., *Urocerus augur* KL., *U. gigas* L., *U. japonicus* SMITH., *Xeris spectrum* L. (Siricidae), *Cerambyx cerdo* L., *C. scopoli* FUES., *Monochamus sartor* FABR., *Spondylis buprestoides* L., *Tetropium gabrieli* WEISE (Cerambycidae).

**Distribution:**

North Africa, Arabian peninsula, Australia, Austria, Belgium, Britain I., Georgia, Lebanon, Iran, Iraq, Israel, Jordan, The Netherlands, Sinai Peninsula (Egypt), Syria, Switzerland, Turkey, Yugoslavia.

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