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**The aculeate Hymenoptera in the collection of the Institute of Zoology
of the National Academy of Sciences of Azerbaijan, Baku.
Part 3. Bees of the genus *Nomada* Scopoli, 1770
(Hymenoptera: Anthophoridae)**

**Жалящие перепончатокрылые в коллекции
Института зоологии НАН Азербайджана.
Часть 3. Пчелы рода *Nomada* Scopoli, 1770 (Hymenoptera:
Anthophoridae)**

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Key words: Hymenoptera, Anthophoridae, *Nomada*, faunistics, distribution, species, cleptoparasite.

Ключевые слова: Hymenoptera, Anthophoridae, *Nomada*, фаунистика, распространение, виды, клептопаразит.

Abstract. The bees of the genus *Nomada* Scopoli, 1770 in the collection of Institute Zoology, NAS of Azerbaijan are represented by 70 species, 20 of them being new to Azerbaijan and 24 to the fauna of the Caucasus. In total, 65 species are reported from Azerbaijan, 13 from Armenia, 2 from Russia, 1 from Uzbekistan and 1 from Tadzhikistan.

Резюме. Пчелиные рода *Nomada* Scopoli, 1770 в коллекции Института зоологии НАН Азербайджана представлены 70 видами, из которых 20 видов впервые отмечены для фауны Азербайджана, 24 – для Кавказа. Всего в коллекции хранится 65 видов из Азербайджана, 13 – из Армении, 2 – из России, по 1 виду из Узбекистана и Таджикистана.

The report presented provides an annotated list of species of the genus *Nomada* kept in the collection of the Institute of Zoology of the National Academy of Sciences of Azerbaijan, Baku (IZB). This paper records 65 *Nomada* species from Azerbaijan; only 26 of them have hitherto been reported from this country [Aliyev, Namazov, 2002; Aliyev, 2004; Aliyev et al., 2006]. Current nomenclature and distribution follows Schwarz [1975, 1978, 1980], Alexander and Schwarz [1994], Schwarz et al. [1996].

Names of collectors are abbreviated as follows: A.B. – leg. A. Bogachev; K.A. – leg. Kh. Aliyev; M.V. – leg. M. Vinovsky; I.D. – leg. I. Drapoljuk; S. – leg. Selivanchik; R.E. – leg. R. Effendi; G.G. – leg. G. Guseynzadekh; V.N. – leg. V. Nazarov; G. – Gumbatov; I.P. – I. Pashenko; A.A. – A. Aliyev.

**Family Anthophoridae
Genus *Nomada* Scopoli, 1770**

Nomada alboguttata Herrich-Schaeffer, 1839

Material. Azerbaijan: 2♀, distr. Lenkoran, in garden, 14–16.06.1929, S.; Tadzhikistan: 4♀, Khovalink, Mullo-Kuni, 20.05.1990, K.A.

Distribution. Widespread in Palaearctic.

Remarks. Occurs in low subtropical landscapes in gardens. Cleptoparasite of *Andrena barbilabris* (Kirby, 1802) [Pesenko, 1974]. First record for Azerbaijan.

Nomada ariasi Dusmet, 1913

Material. Armenia: 1♂, Vedi, Khosrov State Reserve, 22.06.1980, K.A.

Distribution. Spain and Transcaucasia

Remarks. Occurs in lower mountain steppe landscapes. First record for the Caucasus.

Nomada armata Herrich-Schaeffer, 1839

Material. Azerbaijan: 2♂, Ordubad, Ag-dara, 18.06.1980, K.A.

Distribution. Widespread in Europe, including Britaniam Islands, Transcaucasia.

Remarks. Occurs in middle mountain steppe landscapes. A parasite in nests of *Andrena hattorfiana* (Fabricius, 1804) [Osytshnjuk et al., 1978]. In the mountains reaches up to 1900 m a.s.l. Feeds on *Filipendula ulmaria*, *Trifolium spadiceum*, *Oxytropis cyanea*.

Nomada arrogans Schmiedeknecht, 1882

Material. Azerbaijan: 2♀, Gandzha, on Barbareae, 12–13.05.1933, M.V.

Distribution. Greece, Transcaucasia.

Remarks. Occurs in foothill steppe landscapes. Feeds on *Barbarea* sp., *Malcolmia* sp. In the mountains reaches up to 400 m a.s.l. First record for the Caucasus.

Nomada argentipilosa Schwarz, 1966

Material. Azerbaijan: 1♀, distr. Baku, 13.04.1983, K.A.

Distribution. Asia Minor and Transcaucasia.

Remarks. Occurs in low semi-desert landscapes in stony biotopes. A parasite in nests of *Andrena albopunctata* (Rossi, 1792).

Nomada atroscutellaris Strand, 1921

Material. Azerbaijan: 1♀, distr. Baku, 9.04.1986, K.A.; 1♀, Agdash, Turianchay State Reserve, 8.05.1992, K.A.

Distribution. Eastern and Southern Europe, Transcaucasia.

Remarks. Occurs in low semi-desert and foothill steppe landscapes. In the mountains reaches up to 400 m a.s.l.

Nomada basalis Herrich-Schaeffer, 1839

Material. Azerbaijan: 1♂, distr. Lenkoran, on forest clearing,

10.06.1926, S.; 1♂, Major Caucasus, Sheki, zernosovkhoz, 20.04.1976, K.A.; 1♀, Kuba, Askeri, 10.06.1981, K.A.; 1♀, Major Caucasus, Altyagach, 15.06.1983, R.E.; 1♂, Agdash, Turianchay State Reserve, 8.05.1992, K.A.; Armenia: 2♀, Vedi, Khosrov State Reserve, 20.06.1980, K.A.

Distribution. Eurasia, North Africa.

Remarks. Occurs in low subtropical, foothill and low mountain landscapes in forest clearings and steppe areas. In the mountains reaches up to 1000 m a.s.l. Feeds on *Convolvulus arvensis*, *Brassica juncea*, *Sinapis arvensis*, *Glyzirriza echinata*, *Caragana frutex*, *Myozotis* sp., *Stachys recta*, *Salvia tesquicola*, *Carduus uncinatus*, *Inula germanica* and is parasitic in nests of *Andrena truncatilabris* Morawitz, 1878 [Pesenko, 1974].

Nomada bispinosa Mocsary, 1883

Material. Azerbaijan: 1♂, Shusha, Gaybaly, forest, 13.05.1980, K.A.; 2♂, Stepankert (now Khankendi), in forest, 19.05.1980, K.A.; 1♂, Ordubad, in garden, 28.05.1980, K.A.; 1♀, Altyagach, 30.05.1981, K.A.; 1♀, Kuba, Askeri, 10.06.1981, K.A.; 1♂, Agdash, Turianchay State Reserve, 9.05.1992, K.A.

Distribution. Southern Europe, including North of Hungary, Transcaucasia.

Remarks. Occurs in foothills, low mountain steppe and low mountain forest landscapes in gardens and forests, up to 1000 m a.s.l. Feeds on *Geranium sanguineum*, *Ranunculus aceleratus*, *Lythrum salicaria*, *Coronilla varia*. First record for Transcaucasia.

Nomada blepharipes Schmiedeknecht, 1882

Material. Azerbaijan: 1♂, Kuba, Kachresh, 8.06.1981, K.A.

Distribution. Southern Europe, in the north to Switzerland and Hungary, Transcaucasia.

Remarks. Occurs in low mountain forest landscapes at forest edges, up to 700 m a.s.l.

Nomada bluethgeni Stoeckert, 1943

Material. Azerbaijan: 1♂, Kirovabad (now Gandzha), 12.07.1928, A.B.; 1♂, Milskaya steppe, 17.04.1935, A.B.; 1♂, Shamkhor, Daller, on weed, 2.08.1938, A.B.

Distribution. Central and Southeast Europe, Transcaucasia.

Remarks. Occurs in lowland semi-desert and foothill steppe landscapes, up to 500 m a. s. l. in the mountains. First record for Azerbaijan.

Nomada bouceki Kocourek, 1985

Material. Azerbaijan: 1♂, Eldar, village Poylu, on flowers, 18.05.1935, M.V.; 1♀, Ordubad, 7.10.1944, N.J.; 1♂, Kazakh, Alpout, 10.05.1979, K.A.; 1♂, Lerik, Gosmolyan, on Cruciferae, 5.06.1984, K.A.

Distribution. Europe (former Czechoslovakia), Transcaucasia.

Remarks. Occurs in foothill as well as low and middle mountain steppe landscapes up to 1500 m a.s.l. Feeds on species of Brassicaceae. First record for the Caucasus.

Nomada calimorpha Schmiedeknecht, 1882

Material. Azerbaijan: 1♂, Gandzha, on Barbareae, 24.05.1933, M.V.

Distribution. Southern Europe and Western Asia (including Transcaucasia).

Remarks. Occurs in foothill steppe landscapes up to 400 m a.s.l. Feeds on 6 species of plants in 3 families [Pesenko, 1974]. First record for Azerbaijan.

Nomada castellana Dusmet, 1913

Material. Azerbaijan: 2♀, Nakhichevan, bank of Nakhchivanchay River, 19.05.1975, G.

Distribution. Spain, Tyrol, Central Germany.

Remarks. Occurs in low mountain semi-desert landscapes up to 800 m a.s.l. First record for Transcaucasia.

Nomada chrysopyga Morawitz, 1872

Material. Azerbaijan: 2♀, Gandzha, 12–13.05.1933, M.V.

Distribution. Southern Europe, Asia Minor, Transcaucasia, North Africa.

Remarks. Occurs in foothill steppe landscape, up to 400 m a.s.l. First record for Azerbaijan.

Nomada collarae Schwarz, 1964

Material. Azerbaijan: 1♀, Gandzha, in steppe, 13.08.1932, M.V.

Distribution. Asia (Iraq).

Remarks. Occurs in foothill steppe landscapes, up to 400 m a.s.l. First record for Transcaucasia.

Nomada coxalis Morawitz, 1877

Material. Azerbaijan: 1♂, Agdash, Turianchay State Reserve, 8.05.1992, K.A.

Distribution. Iran, Pakistan, the Caucasus, Turkey, Israel.

Remarks. Occurs in foothill steppe landscapes, up to 500 m a.s.l. First record for Azerbaijan.

Nomada crenulata Schwarz, 1987

Material. Azerbaijan: 2♂, 2♀, Baku, Akhmedly, 1–2.05.1977, K.A.; 1♀, Baku, on Barbareae, 23.04.1982, K.A.

Distribution. Turkey, Transcaucasia.

Remarks. Occurs in lowland semi-desert landscapes on dry stony areas.

Nomada cruenta Schmiedeknecht, 1882

Material. Azerbaijan: 1♀, Agdash, Turianchay State Reserve, 9.05.1992, K.A.; 1♀, Gandzha, on Barbareae, 12.05.1933, M.V.

Distribution. Eastern Europe, Greece, Sicily.

Remarks. Occurs in foothill steppe landscape up to 400 m a.s.l. Parasite in nests of *Andrena scita* Eversmann, 1852 [Osytsnjuk et al., 1978]. First record for Transcaucasia.

Nomada distinguenda Morawitz, 1874

Material. Azerbaijan: 1♂, Salyan, 30.08.1938, A.B.; 1♂, Mardakert (now Agdere), Leninavan, 14.05.1979, K.A.; 1♂, same locality, 4.09.1980, K.A.; 1♀, Mir-Bashir (now Terter), 15.10.1979, K.A.; 1♀, Lerik, Gosmolyan, 5.06.1984, K.A.; 1♀, Zakataly, Perzivan, 16.04.1986, K.A.; 1♀, same locality, 26.05.1986, G.G.; 7♀, Zakataly, Muganly, on Cruciferae, Tamarix, 25.05.1986, K.A.; 6♀, same locality, 29.05.1986, G.G.

Distribution. From North-West Africa to Afghanistan.

Remarks. Occurs in lowland semi-desert, foothill steppe, low mountain forest and middle mountain steppe landscapes in tugays, on forest clearings, on steppe areas. In mountains occurs up to 1500 m a.s.l. Feeds on *Potentilla argentea*, *Sisymbrium volgense*, *S. loeselii*, *Convolvulus arvensis*, *Cotinus coggygia*, *Myosotis* sp., *Veronica verna*, *Senecio jacobaea*, *Hagoseris macrantha*. Cleptoparasite of *Lasioglossum villosulum* (Kirby, 1802), *L. nitidiusculum* (Kirby, 1802) [Pesenko, 1974].

Nomada emarginata Morawitz, 1877

Material. Azerbaijan: 1♂, Lerik, Gilidara, 10.07.1979, R.E.; 1♀, Talysh, Zuvand, 14.07.1979, R.E.; 1♀, Salyan, Shirvan State Reserve, 6.06.1999, K.A.

Distribution. South-West Asia, Transcaucasia, Central and Eastern Europe.

Remarks. Occurs in lowland semi-desert and middle mountain landscapes, up to 1900 m a.s.l. Feeds on *Lythrum salicaria*, *Cirsium arvense* [Pesenko, 1974]. First record for Azerbaijan.

Nomada ecarinata Morawitz, 1888

Material. Azerbaijan: 1♀, Agdash, Turianchay State Reserve, 10.05.1992, K.A.

Distribution. Russia (Far East), Mongolia, Transcaucasia.

Remarks. Occurs in foothill steppe landscapes. Feeds on *Tanacetum* sp. First record for Azerbaijan.

Nomada erythrocephala Morawitz, 1870

Material. Armenia: 1♀, Vedi, Khosrov State Reserve, 23.06.1980, K.A.

Distribution. Southern Europe, north to Hungary and Switzerland, Transcaucasia.

Remarks. Occurs in low mountain steppe landscape. First record for the Caucasus.

Nomada fabriciana (Linnaeus, 1767)

Material. Azerbaijan: 1♀, Talysh, Alekseevka (now Burjali), 25.04.1931, A.B.

Distribution. Throughout Europe, Transcaucasia.

Remarks. Occurs in low subtropical landscapes. Feeds on *Tussilago farfara*, *Crocus scepuensis* [Dylewska, 1966]. First record for Azerbaijan.

Nomada facilis Schwarz, 1967

Material. Azerbaijan: 1♂, Shemakha, 3.07.1937, A.B.

Distribution. Central and South-Eastern Europe, Transcaucasia.

Remarks. Occurs in low mountain steppe landscape, up to 800 m a.s.l.

Nomada femoralis Morawitz, 1869

Material. Azerbaijan: 1♂, Lenkoran, Kirovsk, 7.05.1984, K.A.; 2♀, Zakataly, Djar, 23.05.1986, K.A.; 1♀, Agdash, Turianchay State Reserve, 10.05.1992, K.A.

Distribution. Widespread in Europe, Transcaucasia.

Remarks. Occurs in low subtropical, foothill steppe and low mountain forest landscapes. In mountains occurs up to 800 m a.s.l. First record for the Caucasus.

Nomada ferruginata (Linnaeus, 1767)

Material. Azerbaijan: 1♂, Mils kaya steppe, 17.04.1935, A.B.; 1♂, Mardakert (now Agdere), Leninavan, 26.04.1979, K.A.

Distribution. Northern and Central Europe, Transcaucasia.

Remarks. Occurs in low semi-desert and foothill steppe landscapes on the edges of forest belts and on the steppe areas. Feeds on *Veronica* sp., *Potentilla recta* and cleptoparasite of *Andrena humilis* Imhoff, 1832, *A. labialis* (Kirby, 1802) [Pesenko, 1974; Osytsnjuk et al., 1978]. In Azerbaijan feeds on *Cichorium* sp., *Medicago sativa*. In mountains reaches 500 m a.s.l. First record for Azerbaijan.

Nomada flava Panzer, 1798

Material. Azerbaijan: 1♀, Altyagach, 20.06.1981, K.A.

Distribution. Northern and Central Europe.

Remarks. Occurs in low mountain steppe landscape up to 1000 m a.s.l. Cleptoparasite of *Andrena carantonica* Pérez, 1902, *A. nigroaenea* (Kirby, 1802) [Banaszak, 1975]. Feeds on Petasites

albus, *Salix caprea*, *Rubus idaeus*, *Tussilago farfara*, *Crocus scepuensis* [Dylewska, 1966].

Nomada flavilabris Morawitz, 1875

Material. Azerbaijan: 4♂, Mardakert (now Agdere), Leninavan, on alfalfa, 1.07.1980, K.A.; Armenia: 1♂, Vedi, Khosrov State Reserve, 20.06.1980, K.A.

Distribution. South-West Asia.

Remarks. Occurs in foothill steppe and low mountain steppe landscapes. Cleptoparasite of *Andrena nuptialis* Pérez, 1799 [Osytsnjuk et al., 1978]. Feeds on *Medicago sativa*, *Trifolium atrepens*, *Colutea* sp. In mountains reaches 900 m a.s.l. First record for the Caucasus.

Nomada flavoguttata (Kirby, 1802)

Material. Azerbaijan: 1♀, Kazakh, Djafarli, 9.05.1979, K.A.; 1♂, Altyagach, 29.05.1981, K.A.; 1♀, Altyagach, 2.06.1981, K.A.; 1♀, Kuba, Galadyuzi, 14.06.1981, K.A.; 1♀, Saatly, Djafarkhan, on Cruciferae, 10.04.1982, K.A.; 1♂, Oguz, 2.05.1987, K.A.

Distribution. Widespread in the Palaearctic.

Remarks. Occurs in low semi-desert, foothill steppe and low mountain steppe landscapes up to 1000 m a.s.l. Feeds on 5 species of plants of 3 families [Banaszak, 1980]. Cleptoparasite of *Melitta leporina* (Panzer, 1799), *Andrena wilkella* (Kirby, 1802) [Osytsnjuk et al., 1978]. Feeds on alfalfa in the morning hours (8–10 h).

Nomada flavopicta (Kirby, 1802)

Material. Azerbaijan: 5♂, 3♀, Mardakert (now Agdere), Leninavan, on alfalfa, 1.07.1980, K.A.

Distribution. Widespread in Palaearctic.

Remarks. Occurs in foothill steppe landscapes on the edges of patches of alfalfa, up to 400 m a.s.l. Feeds on *Senecio jacobaea*, *Knautia arvensis* [Poikans, 1980] and *Salvia tesquicola*. Cleptoparasite of *Melitta leporina* (Panzer, 1799), *Dasygaster hirtipes* (Fabricius, 1781) [Pesenko, 1974].

Nomada fucata Panzer, 1798

Material. Azerbaijan: 2♂, village Muradkhanly (Kurdistan), 6–14.06.1925, V.N.; 1♂, Gandja distr. Kara-eri, 6.06.1932, M.V.; 2♂, 2♀, Gandja, on Barbareae, 11–24.05.1933, M.V.; 1♀, Nakhichevan, 20.05.1933, M.V.; 1♀, Gandja, on Euphorbia, 30.05.1933, M.V.; 1♀, Baku, 24.03.1938, A.B.; 1♂, Mardakert (now Agdere), 21.04.1976, K.A.; 1♂, same locality, 22.04.1977, K.A.; 1♂, same locality, 28.05.1980, K.A.; 2♂, Mardakert (now Agdere), Leninavan, 24.04.1979, K.A.; 2♂ 1♀, same locality, 15–16.05.1979, K.A.; 7♂ 1♀, Kazakh, Alpout, 10.05.1979, K.A.; 2♂, Altyagach, 2.05.1980, K.A.; 1♂, same locality, 2.06.1981, K.A.; 1♀, Stepanakert (now Khankendi), in forest, 19.05.1980, K.A.; 1♂, Apsheron, on Rosmarin, 16.04.1982, K.A.; 1♀, Baku, 7.04.1983, K.A.

Distribution. Eurasia, North Africa.

Remarks. Occurs in low semi-desert, foothill semi-desert and steppe, low mountain steppe and forest landscapes. Feeds on 43 species of plants from 24 families [Pesenko, 1974]. Cleptoparasite of *Andrena flavipes* Panzer, 1799. In Azerbaijan feeds on *Crataegus* sp., *Padus racemosa*, *Ribes bibersteini*, *Myosotis sparsiflora*, *Nepeta micranta*, *Euphorbia* sp., *Barbareae arcuata*.

Nomada fulvicornis (Fabricius, 1793)

Material. Azerbaijan: 1♀, Gandzha-chay canyon, 10.04.1933, M.V.; 2♀, Gandzha, on Barbareae, 11–12.05.1933, M.V.; 2♀, canyon of Gandzha-chay River on Barbareae, 10.06.1933, M.V.; 1♀, Eldar, Poylu, on Zygaphyllum, 9.05.1935, A.B.; 2♀, Samukh, Karagachly, 1–6.06.1935, A.B.; 2♀, Talysh, Alekseevka (now Burjali), 2–4.05.1936, A.B.; 1♀, Leninavan, 21.04.1976, K.A.; 1♂, Apsheron, Shuvelyan, 14.03.1977, K.A.; 1♂, Baku, 20.04.1979, K.A.; 1♂, Ordubad, Bilav, near river, 13.06.1980, K.A.; 1♀, Baku, 4.04.1983,

I.P.; 1♀, Baku, 7.04.1983, K.A.; 1♂, Apsheron, Baglar, 8.04.1984, K.A.; 1♀, Djejrnbatan, forest, on Taraxacum, 9.04.1984, K.A.

Distribution. Widespread in Palaearctic (from Britain to Japan).

Remarks. Occurs in low semi-desert, low subtropical, foothill and low mountain steppe landscapes in forest belts, on sandy seashores, and in stony steppe areas; in mountains occurs up to 1200 m a.s.l. Feeds on *Salix alba*, *Prunus armeniaca*, *Sisymbrium* sp., *Allium cepa*, cleptoparasite of *Andrena pilipes* Fabricius, 1793, *A. tibialis* (Kirby, 1802), *A. bimaculata* (Kirby, 1802), *A. thoracica* (Fabricius, 1775) [Pesenko, 1974]. In Azerbaijan feeds on *Zygophyllum fabago*, *Taraxacum* sp., *Barbarea* sp.

Nomada furva Panzer, 1798

Material. Armenia: 1♀, Garni, SW slope Gegam range, 25.06.1980, K.A.

Distribution. Central and Southern Europe, Transcaucasia.

Remarks. Occurs in middle mountain steppe-meadow landscapes, up to 1400 m a.s.l. Feeds on *Potentilla recta*, *P. reptans*, *Crambe tatarica*, *Heracleum sibiricum*, *Sinapis gurgur*, *Veronica verna*, *Myosotis* sp., *Vicia* sp., *Cucurbita pepo*, *Helianthus annuus*, *Taraxacum officinale*, and is a cleptoparasite of *Lasioglossum nitidiusculum* (Schenck, 1859), *L. morio* (Fabricius, 1793) and *L. leucopus* (Kirby, 1802) [Pesenko, 1974]. First record for the Caucasus.

Nomada furvodes Stoeckert, 1944

Material. Armenia: 1♂, Vedi, Khosrov State Reserve, 21.06.1980, K.A.; Azerbaijan: 3♂, Lerik, Zuvand, Divagaj, 1400 m, 25.05.2003, K.A.; 1♂, Gobustan, mt. Beuk-Dash, 1.07.2003, K.A.

Distribution. Central Europe, Transcaucasia.

Remarks. Occurs in low semi-desert, middle mountain steppe landscapes, up to 1400 m a.s.l. First record for the Caucasus.

Nomada goodeniana (Kirby, 1802)

Material. Azerbaijan: 1♀, Gandzha, on bird cherry, 2.05.1933, M.V.; 1♂, 1♀, Gandzha, on *Barbarea*, 6–11.05.1933, M.V.; 1♂, Leninavan, 24.04.1976, K.A.

Distribution. Northern and Central Europe, Middle Asia and Siberia.

Remarks. Occurs in foothill steppe landscapes in gardens and on roadsides up to 500 m a.s.l. Feeds on 5 species of plants of 3 families [Marikovskaya, 1982] and is a cleptoparasite of *Andrena nigroaenea* (Kirby, 1802), *Andrena thoracica* (Fabricius, 1775) and *Andrena carantonica* Pérez, 1902 [Osytsnjuk et al., 1978]. First record for Azerbaijan.

Nomada imperialis Schmiedeknecht, 1882

Material. Azerbaijan: 1♀, Sheki, Turut steppe, 22.04.1940, A.B.

Distribution. Mediterranean region (Southern Europe, Asia Minor, Israel, Syria), Transcaucasia.

Remarks. Occurs in low mountain steppe landscape, up to 1000 m a.s.l.

Nomada incisa Schmiedeknecht, 1882

Material. Azerbaijan: 2♂, Kazakh, Alpout, 10.05.1979, K.A.; 1♂, Kuba, Goladyuzi, 14.06.1984, K.A.

Distribution. South-Eastern Europe, Transcaucasia.

Remarks. Occurs in foothill steppe landscapes, up to 500 m a.s.l. Feeds on *Echium melgare* [Pesenko, 1974]. First record for Azerbaijan.

Nomada integra Brullé, 1832

Material. Azerbaijan: 1♀, Kusary, Laza, subalpine meadow,

23.08.1980, K.A.; 1♂, Altyagach, 20.06.1981, K.A.; 1♂, Djejrnbatan, forest, on *Taraxacum*, 9.04.1984, K.A.

Distribution. Widespread in Europe, from Finland and England to Spain and Bulgaria.

Remarks. Occurs in low semi-desert, low mountain forest-steppe and subalpine landscapes in forest belts, on meadows and grassy slopes. In mountain occurs up to 2000 m a.s.l.

Nomada lathburiana (Kirby, 1802)

Material. Azerbaijan: 2♀, 1♂, Ordubad, west slope of Kapudjik mt., 16.06.1980, K.A.; 1♂, Baku, 5.04.2004, A.A.

Distribution. Widespread in Palaearctic.

Remarks. Occurs in low semi-desert and subalpine landscapes to 2300 m a.s.l. Feeds on 4 plant species of 3 families [Banaszak, 1980; Skhirtladze, 1981]. Cleptoparasite of *Andrena vaga* Panzer, 1799, *A. cineraria* (Linnaeus, 1758) [Osytsnjuk et al., 1978]. In Azerbaijan feeds on *Minuartia imbricata*, *Taraxacum stenolepium*, *Leontodon hispidus*, *Senecio taraxifolium*, *Filipendula hexapetala*. First record for Azerbaijan.

Nomada leucophthalma (Kirby, 1802)

Material. Russia: 1♀, "Chitinskaya province, Mochay Guyski distr., near village Udgol, valley Orkhon River, 27.05.1979, leg. Dolgov". Orchon River is situated in Mongolia. Probably species was collected in border of Russia (Chitinskaya province and Mongolia).

Distribution. Northern and Central Europe, Eastern Siberia.

Remarks. In Poland feeds on *Petasites albus*, *Salix caprea*, *Crocus scopusensis* [Dylewska, 1966]. Cleptoparasite of *Andrena clarkella* (Kirby, 1802) [Banaszak, 1975]. First record for Siberia.

Nomada marschamella (Kirby, 1802)

Material. Azerbaijan: 1♂, Lenkaran distr., in garden, 19.06.1926, S.; 1♂, Kurdistan, Hasanriz, 3.07.1936, leg. Alizadekh.

Distribution. Widespread in Palaearctic.

Remarks. Occurs in low subtropical and low mountain steppe landscapes, up to 1000 m a.s.l. Feeds on 4 plant species from 3 families (Marikovskaya, 1982). Cleptoparasite of *Andrena carantonica* Pérez, 1902 [Osytsnjuk et al., 1978]. First record for Azerbaijan.

Nomada mauritanica manni Morawitz, 1872

Material. Azerbaijan: 6♀, Gandzha, on *Barbarea*, 11–18.05.1933, M.V.

Distribution. Mediterranean region (Southern Europe, Algeria), Transcaucasia.

Remarks. Occurs in foothill steppe landscapes on xerothermic areas, along roads. Feeds on *Barbarea* sp. In mountains it occurs up to 400 m a.s.l.

Nomada mocsaryi Schmiedeknecht, 1882

Material. Azerbaijan: 1♂, Lerik, Gasmolyan, 5.06.1984, K.A.; Armenia: 2♀, Vedi, Khosrov State Reserve, 20–23.06.1980, K.A.

Distribution. South-Eastern Europe, Asia Minor, Transcaucasia.

Remarks. Occurs in middle mountain steppe landscape, up to 1500 m a.s.l. First record for the Caucasus.

Nomada mutabilis Morawitz, 1870

Material. Azerbaijan: 1♂, Agdash, Turianchay State Reserve, 10.05.1992, K.A.; Uzbekistan: 1♀, Kitab State Reserve, Khirgay, 13.06.1989, leg. Soldatov.

Distribution. Southern and Central Europe, Middle and Central Asia (Nepal), Transcaucasia.

Remarks. Occurs in foothill steppe and middle mountain steppe landscapes, up to 1500 m a.s.l. Feeds on *Potentilla argentea*, *Tanacetum achilleifolium*, *Sinapis arvensis*, *Brassica nigra*, *Linum austriacum* and is a cleptoparasite of *Andrena chrysopyga* Schenck, 1853, *A. labiata* Fabricius, 1781 and *A. polita* Smith, 1847 [Pesenko, 1974]. First record for the Caucasus.

Nomada mutica Morawitz, 1872

Material. Azerbaijan: 1♂, Mardakert (now Agdere), Leninavan, on alfalfa, 1.07.1980, K.A.; 1♂, Altyagach, 29.05.1981, K.A.

Distribution. Southern and Central Europe.

Remarks. Occurs in foothill steppe and low mountain forest-steppe landscapes up to 1000 m a.s.l. Feeds on 4 plants species of 3 families [Marikovskaya, 1982], and also on alfalfa in the morning hours (8–10 h). Cleptoparasite of *Andrena praecox* (Scopoli, 1770) and *A. ferox* Smith, 1847 [Schmiedeknecht, 1930; Osytsnjuk et al., 1978].

Nomada nobilis Herrich-Schäffer, 1839

Material. Azerbaijan: 1♀, Gandzha, on Barbareae, 24.05.1933, M.V.; 1♀, Agdash, Turianchay State Reserve, 8.05.1992, K.A.; 1♀, Shemakha, Sis, 10.07.2004, K.A.

Distribution. Southern Europe, Asia Minor, Iran, Transcaucasia.

Remarks. Occurs in foothill steppe and low mountain steppe landscapes up to 1200 m a.s.l. Feeds on *Barbareae* sp., *Ranunculus* sp. Feeds on *Vicia villosa*, *Cynoglossum officinale*, *Salvia tesquicola*, cleptoparasite of *Andrena nasuta* Giraud, 1861 [Pesenko, 1974]. First record for the Caucasus.

Nomada obtusifrons Nylander, 1848

Material. Azerbaijan: 1♂, Yardymly, Avash, 16.06.1996, K.A.

Distribution. Throughout Europe, Transcaucasia.

Remarks. Occurs in middle mountain forest landscape on grassy steppes, up to 1500 m a.s.l. First record for Azerbaijan.

Nomada oculata Friese, 1921

Material. Azerbaijan: 1♀, Turut steppe, 5.05.1940, A.B.; 1♀, Ordubad, Nyusnyus, 2000 m, 26.05.1980, K.A.

Distribution. Asia Minor (Turkey), Transcaucasia.

Remarks. Occurs in low mountain steppe and middle mountain steppe landscapes up to 2000 m a.s.l. First record for Azerbaijan.

Nomada oralis Schwarz, 1981

Material. Azerbaijan: 1♀, Baku, Akhmedly, 2.05.1977, K.A.; 7♀, Alyaty, Gil island, 10.04.1983, K.A.

Distribution. Asia Minor (Turkey), Transcaucasia.

Remarks. Occurs in low semi-desert landscape in sandy and stony biotopes. First record for Azerbaijan.

Nomada pallispinosa Schwarz, 1967

Material. Azerbaijan: 1♀, Gandzha, on Barbareae, 11.05.1933, M.V.; 1♀, Baku, Shuvelyan, 17.04.1983, K.A.

Distribution. Greece, Italy, Turkey, Israel, Southwest Asia, Transcaucasia.

Remarks. Occurs in low semi-desert and foothill steppe landscapes in stony and sandy biotopes, up to 400 m a.s.l. Feeds on *Barbareae* sp.

Nomada pilosa Schwarz, 1967

Material. Azerbaijan: 1♂, Shamkhor, Shishtepe, 12.05.1979, K.A.

Distribution. Turkey, Transcaucasia.

Remarks. Occurs in foothill steppe landscapes in stony biotopes, up to 500 m a.s.l. First record for Azerbaijan.

Nomada priesneri Schwarz, 1965

Material. Azerbaijan: 2♀, Lerik, Zuvand, Dizavar, 1400 m., 25.05.2003, K.A.

Distribution. Crete.

Remarks. Occurs in middle mountain steppe landscape in stony xerothermic biotopes. In mountains reaches 1400 m a.s.l. First record for the Caucasus.

Nomada pygidialis Schwarz, 1981

Material. Azerbaijan: 2♂, Djeyranbatan, forest on Taraxacum, 9.04.1984, K.A.

Distribution. Southwestern Europe, Rhodos, Turkey, Transcaucasia

Remarks. Occurs in low semi-desert landscape in forest belts. Feeds on *Taraxacum* sp.

Nomada radoszkowskii Lozinski, 1922

Material. Armenia: 4♀, 1♂, Vedi, Khosrov State Reserve, 20.06.1980, K.A.; 2♀, 1♂, Garni, Khosrov State Reserve, 26.06.1980, K.A.; Azerbaijan: 1♀, Belokany, mt. Rochugel, 2500 m, 22.06.2003, K.A.

Distribution. Western Asia.

Remarks. Occurs in middle mountain forest-steppe and subalpine landscapes, up to 2500 m a.s.l. First record for the Caucasus.

Nomada robertjedianae Panzer, 1799

Material. Azerbaijan: 1♂, Ordubad, Bilav, near river, 13.06.1980, K.A.; 1♂, Agdash, Turianchay State Reserve, 9.05.1992, K.A.

Distribution. Eurasia.

Remarks. Occurs in low mountain steppe and middle mountain steppe landscapes, up to 1400 m a.s.l. Feeds on 3 plants species of 2 families [Banaszak, 1980], and also on alfalfa, *Symphytum caucasicum*, *Rochelia retorta*, *Veronica nudicaulis*, *Alyssum* sp. Cleptoparasite of *Andrena fuscipes* (Kirby, 1802), *A. denticulata* (Kirby, 1802) and *A. coitana* (Kirby, 1802) [Osytsnjuk, 1978]. First record for Azerbaijan.

Nomada rubricosa Eversmann, 1852

Material. Azerbaijan: 1♂, Geokchay distr., Ivanovka, 22.06.1928, leg. Gorbunov.

Distribution. Russia, Transcaucasia.

Remarks. Occurs in foothill steppe landscapes up to 600 m a.s.l. First record for the Caucasus.

Nomada rubriventris Schwarz, 1981

Material. Armenia: 1♀, Vedi, Khosrov State Reserve, 20.06.1980, K.A.

Distribution. Greece, Bulgaria, Turkey, Middle Asia, Transcaucasia.

Remarks. Occurs in low mountain steppe landscapes up to 900 m a.s.l. First record for the Caucasus.

Nomada ruficornis (Linnaeus, 1758)

Material. Azerbaijan: 1♀, Gandzha, 12.04.1933, M.V.

Distribution. Northern and Central Europe, Transcaucasia.

Remarks. Occurs in foothill steppe landscapes in gardens, up to 500 m a.s.l. Feeds on *Salix caprea*, *Crocus scepusiensis*, *Tussilago farfara*, *Potentilla aurea* [Dylewska, 1966]. First record for the Caucasus.

Nomada rufipes Fabricius, 17793

Material. Azerbaijan: 1♂, Baku, 5.04.2004, K.A.

Distribution. Throughout Europe, Transcaucasia.

Remarks. Occurs in low semi-desert landscapes on stony areas. First record for the Caucasus.

Nomada sexfasciata Panzer, 1799

Material. Azerbaijan: 1♂, Gandzha, on bird cherry, 2.05.1933, M.V.; 1♀, same locality, on *Barbarea*, 12.05.1933, M.V.; 1♂, Baku, Cruciferae, 24.04.1937, A.B.; 1♂, Udjary, 30.05.1979, K.A.; 1♂, Altyagach, 2.05.1980, K.A.; 1♂, same locality, 2.06.1981, K.A.; Russia: 1♀, Checheno-Ingushetia, Sovetskoe, Itum-kale (now Chechen Republic, Itum-Kale), 30.06.1987, I.D.

Distribution. Eurasia, North Africa.

Remarks. Occurs in low semi-desert, foothill steppe, low mountain steppe and middle mountain steppe landscapes in xerothermic biotopes up to 1500 m a. s. l. Feeds on *Barbarea* sp., *Padus racemosa*, in Poland on *Echium vulgare* [Dylewska, 1966].

Nomada sheppardana (Kirby, 1802)

Material. Azerbaijan: 1♀, Kazakh, Djafarli, 9.05.1979, K.A.; 1♀, Oguz, 2.05.1987, K.A.; 1♀, Agdash, Turiyanchay State Reserve, 8.05.1992, K.A.

Distribution. Northern and Central Europe, Transcaucasia.

Remarks. Occurs in foothill steppe and low mountain forest landscapes up to 900 m a.s.l. First record for Azerbaijan.

Nomada stigma Fabricius, 1805

Material. Armenia: 1♂, Vedi, Khosrov State Reserve, 23.06.1980, K.A.; Azerbaijan: 2♂, 1♀, Altyagach, 20.06.1981, K.A.

Distribution. Throughout Europe, North Africa, Western Asia (including Transcaucasia).

Remarks. Occurs in low mountain forest-steppe landscape up to 1000 m a.s.l.

Nomada striata Fabricius, 1793

Material. Azerbaijan: 1♂, Lerik, Gilidara, 16.05.1976, K.A.; 1♂, Yardymly, Avash, 16.06.1996, K.A.; Armenia: 2♀, Vedi, Khosrov State Reserve, 20–23.06.1980, K.A.

Distribution. Widespread in Palaearctic.

Remarks. Occurs in middle mountain steppe landscape up to 1800 m a.s.l. Feeds on *Rubus idaeus* [Dylewska, 1966]. First record for Azerbaijan.

Nomada succincta Panzer, 1798

Material. Azerbaijan: 1♀, Samukh, Kragachly, Zygophyllum, 4.06.1935, A.B.; 1♂, 1♀, Lenkoran, Kirovsk, 7.05.1984, K.A.; Armenia: 1♀, Vedi, Khosrov State Reserve, 22.06.1980, K.A.

Distribution. Widespread in Europe, Transcaucasia.

Remarks. Occurs in low subtropical, foothill steppe and low mountain steppe landscapes on the borders of tugays, on forest clearings and on roadsides, up to 1100 m a.s.l. Feeds on *Zygophyllum fabago*, *Ranunculus* sp. First record for the Caucasus.

Nomada sybarita Schmiedeknecht, 1882

Material. Azerbaijan: 1♂, Shemakha, 26.05.1976, K.A.; 1♂, Ordubad,

Ag-dere, 2200 m, 15.06.1980, K.A.; 1♂, Altyagach, 2.06.1981, K.A.

Distribution. Eastern Europe (Hungary), Transcaucasia.

Remarks. Occurs in low mountain steppe, middle mountain steppe and subalpine landscapes to 2200 m a.s.l. First record for the Caucasus.

Nomada tenella Mocsáry, 1883

Material. Azerbaijan: 1♂, Baku, 13.04.1983, K.A.

Distribution. South-Western Asia (including the Caucasus).

Remarks. Occurs in low semi-desert landscape on stony areas.

Nomada transitoria Schmiedeknecht, 1882

Material. Azerbaijan: 1♀, Gandzha, on *Barbarea*, 13.05.1933, M.V.; 1♀, Agdash, Turiyanchay State Reserve, 8.05.1992, K.A.

Distribution. Spain, Southern Russia, Transcaucasia.

Remarks. Occurs in foothill steppe landscapes up to 400 m a.s.l. Feeds on *Barbarea* sp. First record for Transcaucasia.

Nomada trispinosa Schmiedeknecht, 1882

Material. Azerbaijan: 1♀, Karyagino (now Fizuli), village Kurtmakhmudlu, in field, 14.05.1929, leg. Elistratov; 1♀, Gobustan, Karadag, 17.04.1979, leg. P. Kazaryan; 1♂, Djeyranbatan, forest, on *Taraxacum*, 9.04.1984, K.A.

Distribution. Southeast Europe, north of Austria, Asia, east of Northeast China.

Remarks. Occurs in low semi-desert landscape along forest belts, roads.

Nomada zonata Panzer, 1798

Material. Azerbaijan: 1♀, Lenkoran distr., on forest clearing, 11.06.1929, S.; 1♀, same locality, in garden, 20.06.1929, S.; 1♂, Saatly, Djaparkhan, on *Prunus*, 10.04.1982, K.A.; 1♀, Lerik, Gasmolyan, on *Trifolium*, 4.06.1984, K.A.

Distribution. Central Europe, south-west to Spain, Transcaucasia.

Remarks. Occurs in low semi-desert and middle mountain steppe landscapes in gardens and steppe areas up to 1600 m a.s.l. Feeds on *Ficaria ranunculoides*, *Ribes alpinum*, *Cotinus coggygria*, *Berberis* sp., *Deutzia scatra*, *Myosotis* sp., 4 species of Rosaceae, 2 species of Fabaceae, 5 species of Brassicaceae, 6 species of Asteraceae; cleptoparasite of *Andrena ovatula* (Kirby, 1802), *A. ventralis* Imhoff, 1832, *Halictus maculatus* Smith, 1776 [Pesenko, 1974]. In Azerbaijan feeds on *Trifolium* sp., *Prunus* sp. First record for the Caucasus.

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