

## Contribution to the Knowledge of the Families Apionidae and Nanophyidae (Coleoptera: Curculionoidea) from Turkey, with New Records

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Data are presented on the occurrence of 43 species of the family Apionidae and two species of the family Nanophyidae in Turkey based on the material obtained mainly by beating stone-fruit trees in NE Turkey. The identity and information about the three species of Apionidae – *Squamapion* sp.cf. *bifarium* (Balfour-Browne), *Protapion* sp.cf. *ruficrus* (Germar), *Catapion* sp.cf. *seniculus* (Kirby) – must be revised. The faunistic data in the present paper on almost all species add to prior knowledge on their distribution in Turkey. *Hypophyes aphyllae* (Peyerimhoff), *Ceratapion kasbekianum* (Gerstaecker), *Squamapion ottonis* (Wagner), *S. samarense* (Faust), *S. phocopus* (Eppelsheim), *Taeniapion rufulum* (Wencker), *Pseudoprotapion astragali* (Paykull), *P. ergenense* (Becker), *Stenopterapion intermedium* (Eppelsheim) and *Oxystoma fausti* (Desbrochers) are reported for the first time in the Turkish fauna.

KEY WORDS: Coleoptera; Apionidae; Nanophyidae; Turkey.

### INTRODUCTION

Apionids feed on a wide range of mostly dicotyledon plant families, especially the Leguminosae. The adults feed on foliage, producing small holes in the leaves. The feeding habitats of larvae are diverse: the larvae form galls, or bore flowers, fruits, seeds, stems, buds, leaves, tubers or roots (16). Apionid adults exhibit a poorly understood phenomenon of congregating in one habitat – such as on shrubs and tree crowns – where they do not feed, and then migrating collectively to another habitat containing their host plants – where they feed, reproduce and develop. After the developmental phase, the new generation disperses before finding places for hibernation.

Although the species listed herein are often collected on stone-fruit trees, they are not pests of these trees but merely congregate there prior to migration to their host plants. This phenomenon, which Wagner (in ref. 19) designated 'Aufbäumen', has been mentioned in a number of papers (*e.g.* 4,24,35) but mostly without any commentary. Ehret (22) studied Apionidae migrations in detail and pointed out the reasons for this event. In his opinion apionids search for shrubs and tree crowns to avoid unfavorable weather when growth of their host plants ceases temporarily or permanently, whether during the growth season or at the end of it (*e.g.* because of drought or mowing). The fact that Apionidae and probably

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also Nanophyidae occur on shrubs and trees during certain periods of their life enables them to be collected there by beating and sweeping the branches.

Although some studies (3,7-13,15,25-29,31,32,34,39,40,42-44) have been conducted by various local and foreign scientists on the species of Apionidae and Nanophyidae occurring in Turkey, the Turkish fauna of these families are not fully known.

## MATERIALS AND METHODS

The material for this study was collected by the authors in various years (mostly 1991 and 1992), from different localities in Turkey, mainly eastern Anatolia, and deposited in the Entomology Museum, Erzurum, Turkey (EMET). Almost all material was obtained by beating stone-fruit trees as a part of a program of investigating phytophagous and predatory insect species in the northeast agricultural region of Turkey (32). A small amount of the material deposited in EMET comes from other collection activities. Most of the reference material was determined by Ing. Karel Schön, and some species by Dr. Marek Wanat. The following information is given about material examined:

**Erzurum**<sup>(1)</sup> Oltu<sup>(2)</sup>, Ayvalı<sup>(3)</sup>, 1100 m<sup>(4)</sup>, 31.07.1991<sup>(5)</sup>, 3<sup>(6)</sup>, (Leg. G. Tozlu)<sup>(7)</sup>.

(1) Administrative district (province)

(2) Town

(3) Village

(4) Altitude

(5) Collecting date (day/month/year)

(6) The number of specimens

(7) Collector. If not otherwise stated, the material was collected by R. Hayat, Ş. Güçlü and H. Özbek.

The cited data are completed by names of trees or other plants from which the species was beaten or swept.

General distribution data on each species in Turkey are give by Dieckmann (19) and Gønget (24). Other data come from revisions in the literature cited herein. If data on the distribution of a certain species in Turkey were not found, or if an occurrence in Turkey is mentioned only in general terms, the distribution is noted along with data in the present paper. The data on distribution not published previously are given in bold print. The distribution in Turkey is presented by list of provinces. If the distribution in Turkey in the literature cited is presented only by enumeration of localities, the authors assigned them to provinces (which are given in parentheses directly after the localities cited).

The taxonomic arrangement of Alonso-Zarazaga and Lyal (2) is followed in this paper.

## RESULTS

Two species of the family Nanophyidae and 43 species of the family Apionidae (the taxonomic status or identity of three species is uncertain) were determined to occur in Turkey during this study.

The enumeration of migrating species published by Dieckmann (19) and Ehret (22) has been amplified by data about the species beaten from fruit trees reported herein.

### Nanophyidae

#### *Dieckmanniellus nitidulus* (Gyllenhal, 1838)

Material Examined: **Adıyaman:** Central, 725 m, 25.07.1994, 1 (Leg. M.F. Özdemir).  
General Distribution: Spain, Portugal, France, Switzerland, Austria, Czechoslovakia, Hungary, Yugoslavia, Albania, Greece, Italy, UdSSR, Turkey, Israel, Egypt, Tunisia, Algeria, Morocco (18).  
Distribution in Turkey: Adana, Sultan Dağı (Isparta), Mersin (İçel) (18), **Adıyaman**.

***Hypophyes aphyllae* (Peyerimhoff, 1929)**

Material Examined: **Erzurum:** İspir, M. Köprübaşı, 1100 m, 24.07.1991, 2. The specimens were found on *Juglans regia* and *Prunus armeniaca*.  
*Tamarix aphyllae* is given as host plant (23).  
General Distribution: Algeria, C. Sahara, Sinai (23), **Turkey**.  
Distribution in Turkey: **Erzurum**.

**Apionidae**

***Ceratapion basicorne* (Illiger, 1807)**

Material Examined: **Erzincan:** Central, 1200 m, 30.07.1991, 1; Y. Çakırman, 1300 m, 28.08.1991, 1. **Erzurum:** İspir, M. Köprübaşı, 1100 m, 24.07.1991, 1. **Iğdır:** Akyumak, 900 m, 18.07.1991, 1. **Kars:** Kağızman, 1400 m, 19.07.1991, 1. The specimens were captured on *Prunus armeniaca* and *P. persica*.

Some Compositae, mainly *Centaurea cyanus*, *C. solstitialis* and *C. virgata* ssp. *squarrosa*, have been mentioned as host plants (34,38).

General Distribution: Europe, SW Asia (24), in detail (38).

Distribution in Turkey: Afyon, Amasya, Ankara, Balıkesir, Erzincan, Erzurum, Eskişehir, İçel, Isparta, Nevşehir, Samsun, Sivas, Tunceli, Yozgat (1); Antakya, Diyarbakır, Kars (38), **Iğdır**.

***Ceratapion beckeri* (Desbrochers, 1875)**

Material Examined: **Erzurum:** İspir, 1000 m, 24.07.1991, 20; M. Köprübaşı, 1100 m, 24.07.1991, 14; Pazaryolu, 1300 m, 23.07.1991, 8. **Kars:** Kağızman, 1400 m, 23.08.1991, 2. The material was collected from *Prunus armeniaca*, *P. domestica* and *P. persica*.

General Distribution: Italy, Hungary, Romania, Macedonia, Bulgaria, Turkey, Lebanon, Iran, Afghanistan, Georgia, Armenia, Azerbaijan, Uzbekistan, Turkmenistan, Tadzhikistan (Karateghin Mts.), Russia (Volga River surroundings, Dagestan) (38).

Distribution in Turkey: Adıyaman, Bingöl, Bayburt, Edirne, Erzurum, Kars, Kayseri, Gaziantep, Giresun, Mardin, Nevşehir (38).

***Ceratapion cylindricolle* (Gyllenhal, 1939)**

Material Examined: **Erzincan:** Bayırbağ, 1300 m, 31.07.1991, 1. **Erzurum:** Olur, Coşkunlar, 1200 m, 13.07.1991, 1; Pazaryolu, 1300 m, 23.07.1991, 1. The specimens were found on *Prunus armeniaca*.

*Xeranthemum cylindraceum* is known as a host plant of this species (38).

General Distribution: France, Italy (Calabria), Hungary, Slovakia, Serbia, Bulgaria, Turkey, Georgia, Russia (Subcaucasian areas, Dagestan), Ukraine (Crimea) (38).

Distribution in Turkey: Kahramanmaraş, Kocaeli (38), **Erzincan, Erzurum**.

***Ceratapion decolor* (Desbrochers, 1875)**

Material Examined: **Erzincan:** Cevizli, 1300 m, 29.08.1991, 1. The specimen was captured on *Prunus avium*.

General Distribution: France, Slovenia, Croatia, Romania, Bulgaria, Greece, Turkey, Iran, Azerbaijan, Nakhichevan Rep., Armenia, Lebanon, Syria, Jordan, Israel, Egypt (38).

Distribution in Turkey: Kars, Kayseri, Konya, Nevşehir (38), **Erzincan**.

***Ceratapion fremuthi* Wanat, 1995**

Material Examined: **Erzincan:** Çatalarmut, 1500 m, 11.08.1992, 1, on *Prunus armeniaca*.

General Distribution: Turkey (Anatolia), Iran, Azerbaijan (38).

Distribution in Turkey: Gümüşhane (38), **Erzincan**.

***Ceratapion gibbirostre* (Gyllenhal, 1813)**

Material Examined: **Artvin:** Yusufeli, 700 m, 09.07.1992, 1. **Erzincan:** Kemaliye, 1000 m, 30.05.1991, 1; Üzümlü, 1300 m, 31.07.1991, 1. **Kars:** Kağızman, 1400 m, 19.07.1991, 1; 23.08.1991, 1. The specimens were collected from *Prunus armeniaca*, *P. avium*, *P. cerasus* and *P. persica*.

The larvae develop in roots, rootstocks and stems of *Carduus acanthoides*, *C. nutans*, *C. pycnocephalus*, *C. tenuiflorus*, *Cirsium arvense* and *C. eriophorum* (38).

General Distribution: Europe, North Africa, C. and SW Asia (24), in detail (38).

Distribution in Turkey: Amasya, Ankara, Çanakkale, İzmir, Kars, Mardin (1); Adana, Bolu, Malatya (38), **Artvin, Erzincan**.

***Ceratapion kasbekianum* (Gerstaecker, 1854)**

Material Examined: **Erzurum:** Narman, 1400 m, 05.07.1980, 1 (Leg. H. Özışık).

General Distribution: Armenia, Georgia, Nakhichevan Rep. (38), **Turkey**.

Distribution in Turkey: **Erzurum**.

***Ceratapion onopordi onopordi* (Kirby, 1808)**

Material Examined: **Erzurum:** University field, 1850 m, 20.04.1982, 2 (Leg. H. Özışık), on *Crambe orientalis*; 15.5.1982, 2 (Leg. H. Özışık), on *Onopordum* sp.; İspir, 1000 m, 07.06.1980, 1 (Leg. H. Özışık).

*Centaurea calcitrapa*, *Carduus* spp. and *Cirsium* spp. are host plants of this species (33).

General Distribution: Europe, North Africa, C. and SW Asia (24), in detail (38).

Distribution in Turkey: Ankara, Bilecik, Bolu, Çorum, Edirne, Eskişehir, İstanbul, Isparta, İzmir, Konya (38), **Erzurum**.

***Aspidapion radiolus radiolus* (Marsham, 1802)**

Material Examined: **Erzincan:** Üzümlü, 1300 m, 31.07.1991, 1; Bayırbağ, 1300 m, 31.07.1991, 1. The specimens were collected from *Prunus armeniaca*.

Malvaceae species are host plants (19).

General Distribution: Palearctic Region (19).

Distribution in Turkey: İzmir, Manisa, Muğla, Uşak (27), **Erzincan**.

***Alocetron curvirostre* (Gyllenhal, 1833)**

Material Examined: **Erzurum:** Horasan, Okçular, 1600 m, 08.06.1996, 2 (Leg. G. Tozlu); İspir, M. Köprübaşı, 1100 m, 28.08.1992, 2. The material was collected from *Althaea* sp. and *Juglans regia*.

Dieckmann (19) and Lodos *et al.* (27) gave *Althaea rosea* as host plant; the latter listed also *Sinapis arvensis*.

General Distribution: Spain, Sicily, SE part of C. Europe, E. and S. Europe, Near East (Anatolia, Georgia, Armenia, Jordan) (19). The statement about the occurrence of the species in Sicily is probably a mistake in spelling 'curvirostre' instead of 'curtirostre' (30). There are doubts about the presence of the species in Spain, too.

Distribution in Turkey: Burdur, Manisa (27), **Erzurum.**

***Squamapion atomarium* (Kirby, 1808)**

Material Examined: **Erzurum:** Pazaryolu, 1300 m, 23.07.1991, 4. The material was captured on *Prunus armeniaca*, *P. cerasus* and *P. domestica*.

Dieckmann (19) recorded *Thymus* spp. as host plants.

General Distribution: Europe, Algeria, Anatolia, Caucasus, Mongolia (19).

Distribution in Turkey: **Erzurum.**

***Squamapion* sp.cf. *bifarium* (Balfour-Browne, 1944)**

The *atomarium*-group of *Squamapion* comprises a number of undescribed, sibling species and requires a thorough revision. Hence, the identity of Anatolian specimens, although closely resembling *S. bifarium* (Balfour-Browne) from Cyprus, is uncertain. They differ from typical *S. bifarium* in finer body vestiture and relatively smaller pronotum (M. Wanat, pers. commun.).

Material Examined: **Erzincan:** Bahçeli, 1400 m, 29.08.1991, 1. **Erzurum:** İspir, 1000 m, 24.07.1991, 1; Pazaryolu, 1300 m, 23.07.1991, 4. The specimens were collected from *Juglans regia* and *Prunus domestica*.

General Distribution of *S. bifarium*: Cyprus (14).

Distribution of *S. bifarium* in Turkey: Not yet verified.

***Squamapion gracilitubus* (Desbrochers, 1896)**

Material Examined: **Artvin:** Yusufeli, İşhan, 900 m, 15.08.1991, 2. **Erzincan:** Karakaya, 1400 m, 31.07.1991, 1. **Erzurum:** İspir, M. Köprübaşı, 1100 m, 24.07.1991, 1; Oltu, 1250 m, 21.07.1992, 3; Ayvalı, 1000 m, 12.07.1991, 1; Olur, Taşlıköy, 1100 m, 20.08.1992, 1; Pazaryolu, 1300 m, 23.07.1991, 1; Tortum, Pehlivanlı, 1300 m, 13.08.1991, 1. **Kars:** Kağızman, 1400 m, 19.07.1991, 1; 23.08.1991, 1. The specimens were captured on *Prunus armeniaca*, *P. cerasus*, *P. domestica* and *P. persica*.

General Distribution: Central and E. Turkey (Iran?, Armenia?) (40).

Distribution in Turkey: Ankara, Hakkari, Van (40), **Artvin, Erzincan, Erzurum, Kars.**

***Squamapion latesquamatum* Wanat, 1997**

Material Examined: **Artvin:** Yusufeli, 700 m, 15.08.1991, 1 (paratype); **Erzurum:** Oltu, 11.07.1991, 1 (in coll. Schön); **Kars:** Kağızman, 1400 m, 19.07.1991, 1 (paratype). The

material was found on *Prunus armeniaca* and *P. persica*.

General Distribution: Turkey (E. Anatolia), Iran (40).

Distribution in Turkey: Artvin, Hakkari, Kars, Van (40), **Erzurum**.

#### *Squamapion oculatum* Wanat, 1997

Material Examined: **Artvin:** Yusufeli, İşhan, 900 m, 05.08.1991, 1. **Erzincan:** Üzümlü, 1300 m, 31.07.1991, 2; 28.08.1991, 2. **Erzurum:** İspir, 1000 m, 24.07.1991, 18; M. Köprübaşı, 1100 m, 24.07.1991, 2; Oltu, 1250 m, 11.07.1991, 5; 21.07.1992, 3; Ayvalı, 1000 m, 12.07.1991, 2; Pazaryolu, 1300 m, 23.07.1991, 5; Tortum, A. Meydanlar, 1300 m, 04.07.1991, 2; Pehlivanlı, 1200 m, 13.08.1991, 3. The specimens were collected from *Prunus armeniaca*, *P. avium*, *P. cerasus*, *P. domestica*, *P. persica* and *Juglans regia*.

General Distribution: Turkey (E. Anatolia), Armenia (40).

Distribution in Turkey: Gümüşhane, Mardin, Van (40), **Artvin, Erzincan, Erzurum**.

#### *Squamapion ottonis* (Wagner, 1914)

Material Examined: **Artvin:** Yusufeli, 700 m, 15.08.1991, 1. **Erzincan:** Cevizli, 1300 m, 29.08.1991, 3; Karakaya, 1400 m, 31.07.1991, 2; Üzümlü, 1300 m, 31.07.1991, 2; Bayırbağ, 1300 m, 31.07.1991, 1. **Erzurum:** İspir, 1000 m, 21.07.1991, 1; 24.07.1991, 1; Oltu, 1250 m, 11.07.1991, 5; 21.07.1992, 2; Ayvalı, 1000 m, 3; Pazaryolu, 1300 m, 23.07.1991, 2. **Kars:** Kağızman, 1400 m, 19.07.1991, 10. The specimens were captured on *Prunus armeniaca*, *P. avium*, *P. cerasus*, *P. domestica* and *P. persica*.

*Thymus* sp. is a host plant of this species (4).

General Distribution: Bulgaria (4), **Turkey**.

Distribution in Turkey: **Artvin, Erzincan, Erzurum, Kars**.

#### *Squamapion phocopus* (Eppelsheim, 1888)

Material Examined: **Artvin:** Yusufeli, İşhan, 900 m, 15.08.1991, 1. **Erzincan:** Cevizli, 1300 m, 29.08.1991, 1; Karakaya, 1400 m, 31.07.1991, 1; Üzümlü, 1300 m, 31.07.1991, 1. **Erzurum:** İspir, 1000 m, 24.07.1991, 1; Oltu, Ayvalı, 1000 m, 15.07.1991, 1; 22.07.1992, 1. **Kars:** Kağızman, 1400 m, 23.08.1991, 1. The material was collected from *Prunus armeniaca*, *P. avium*, *P. domestica* and *P. persica*.

General Distribution: Greece (Sporades Isl.) (36), **Turkey**.

Distribution in Turkey: **Artvin, Erzincan, Erzurum, Kars**.

#### *Squamapion samarense* (Faust, 1891)

Material Examined: **Erzurum:** İspir, M. Köprübaşı, 1100 m, 06.06.1980, 1 (Leg. H. Özişik).

General Distribution: W. Alps, E. Europe, W. and C. Asia (20), Poland (41), **Turkey**.

Distribution in Turkey: **Erzurum**.

#### *Taeniapion rufulum* (Wencker, 1864)

Material Examined: **Erzincan:** Üzümlü, 1300 m, 31.07.1991, 1, on *Prunus avium*.

Dieckmann (19) gave *Urtica urens* as a host plant of this species.

General Distribution: Morocco, Algeria, Libya, Portugal, Spain, France, Italy, Germany,

Poland, Czech Republic, Slovakia, Hungary, Yugoslavia, Greece, Romania, Lebanon (19), **Turkey.**

Distribution in Turkey: **Erzincan.**

***Malvapion malvae* (Fabricius, 1775)**

Material Examined: **Artvin:** Yusufeli, Eygar, 800 m, 06.07.1994, 1; Sebzeçiler, 700 m, 14.08.1991, 1. **Erzincan:** Üzümlü, 1300 m, 31.07.1991, 1. **Erzurum:** University field, 1850 m, 20.06.1973, 1 (Leg. M. Doğanlar); 18.06.1980, 3; Pazaryolu, 1300 m, 23.07.1991, 1. **Iğdır:** Küllük, 900 m, 22.08.1991, 1. The specimens were found on *Juglans regia*, *Medicago sativa*, *Olea europaea* and *Prunus armeniaca*.

*Althaea officinalis*, *Lavatera cretica*, *Malva alcea*, *M. neglecta*, *M. pusilla*, *M. sylvestris* and *Medicago sativa* are given as host plants (19,27,31).

General Distribution: Palearctic Region (missing in northern parts) (19).

Distribution in Turkey: Artvin, Çanakkale, Erzincan, Erzurum, Iğdır, İzmir, Kars, Manisa, Muğla (27,31,32).

***Rhopalapion longirostre* (Olivier, 1807)**

Material Examined: **Erzurum:** Horasan, Okçular, 1600 m, 08.06.1996, 2 (Leg. G. Tozlu), on *Althaea* sp.

*Althaea rosea* is a host plant (25,27,33).

General Distribution: Afghanistan, Iran, Israel, Lebanon, Syria, Turkey, Russia (incl. Caucasus and Ukraine, Crimea), Bulgaria, Romania, Greece, Albania, Hungary, Poland, Croatia, Austria, Slovakia, Switzerland, N. Italy, France (33). The information about the occurrence of the species in Poland is an error (17).

Distribution in Turkey: Afyon, Bilecik, Burdur, Bursa, Çanakkale, Isparta, İzmir, Manisa (25, 27), **Erzurum.**

***Pseudoprotapion astragali* (Paykull, 1800)**

Material Examined: **Artvin:** Yusufeli, İşhan, 900 m, 15.08.1991, 1; Morkaya, 1100 m, 06.06.1991, 1. The specimens were captured on *Juglans regia* and *Prunus persica*.

*Astragalus glycyphyllos* is a host plant (17).

General Distribution: Europe (except N. Scandinavia), Algeria, Syria (17). Dieckmann (19) mentions a wider distribution (Europe, Asia Minor, Middle Asia, Mongolia, N. Africa). He draws attention to the need for critical evaluation of these data because there is a possibility of misidentification of the species with similar *Pseudoprotapion ergenense*, which was originally presented in the literature as a variety or subspecies of *P. astragali*. **Turkey.**

Distribution in Turkey: **Artvin.**

***Pseudoprotapion ergenense* (Becker, 1864)**

Material Examined: **Erzurum:** Olur, Taşlıköy, 1200 m, 12.07.1991, 1, on *Prunus armeniaca*.

General Distribution: Poland, Czechoslovakia (Moravia, Slovakia), Hungary, Bulgaria, Ukraine (Podolia, Bukovina), Russia (Sarepta in lowland of the Volga River [locus typicus]) (19), **Turkey.**

Distribution in Turkey: **Erzurum.**

***Protapion fulvipes* (Geoffroy, 1785)**

Material Examined: **Erzincan:** Kemaliye, Sandık, 1600 m, 20.06.1982, 1 (Leg. H. Özışık). **Erzurum:** Dumlubaba, 2200 m, 25.06.1980, 1 (Leg. H. Özışık); İspir, 1000 m, 24.07.1991, 1; Pazaryolu, 1300 m, 23.07.1991, 1. Two specimens were collected from *Prunus armeniaca*.

*Trifolium repens*, *T. hybridum* and *T. spadiceum* are host plants (19).

General Distribution: Palearctic Region (19).

Distribution in Turkey: **Erzincan, Erzurum.**

***Protapion nigrirtarse* (Kirby, 1808)**

Material Examined: **Erzincan:** Karakaya, 1400 m, 31.07.1991, 2; Üzümlü, 1300 m, 26.09.1989, 1 (Leg. H. Özışık); 31.07.1991, 4; 28.08.1991, 1; 10.08.1992, 6; Bayırbağ, 1300 m, 31.07.1991, 5. **Erzurum:** Pazaryolu, 1300 m, 23.07.1991, 1. The specimens were collected from *Prunus armeniaca*, *P. avium*, *P. cerasus*, *Juglans regia* and *Mentha* sp.

*Trifolium campestre* and *T. aureum* are host plants (19).

General Distribution: Europe, Near East, Middle Asia, Siberia, North Africa (19).

Distribution in Turkey: **Erzincan, Erzurum.**

***Protapion filirostre* (Kirby, 1808)**

Material Examined: **Erzurum:** University field, 1850 m, 23.06.1980, 1 (Leg. H. Özışık), on *Medicago sativa*.

General Distribution: Europe (northern border in S. Sweden), Near East and Middle Asia (19).

Distribution in Turkey: **Erzurum.**

***Protapion sp.cf. ruficrus* (Germar, 1817)**

Considering the fact that all three specimens caught are females, we could not certify the identity of *Protapion ruficrus* by studying the aedeagus and if small morphological differences (for instance the length of rostrum) are in the range of species variability.

Material Examined: **Erzurum:** Oltu, 1250 m, 11.07.1991, 1; 31.07.1992, 1; Olur, Taşlıköy, 1100 m, 12.07.1991, 1. The material was found on *Prunus armeniaca* and *P. persica*.

General Distribution of *P. ruficrus*: Germany, Poland, Czechoslovakia, Austria, Hungary, Romania, Bulgaria, Herzegovina, Latvia, Russia (Samara), Georgia (19).

Distribution of *P. ruficrus* in Turkey: No literature data.

***Protapion trifolii* (Linnaeus, 1768)**

Material Examined: **Artvin:** Yusufeli, 700 m, 07.07.1992, 1. **Erzincan:** Kemaliye, Sandık, 1600 m, 20.06.1982, 2 (Leg. H. Özışık); Üzümlü, 1300 m, 01.07.1992, 1. **Erzurum:** University field, 1850 m, 23.06.1980, 2; Dumlubaba, 2200 m, 25.06.1980, 1 (Leg. M. Doğanlar); İspir, M. Köprübaşı, 1100 m, 24.07.1991, 1; Narman, Semikale, 1600 m, 05.07.1980, 1 (Leg. H. Özışık); Oltu, 1250 m, 11.07.1991, 2; 21.07.1992, 2; Pazaryolu, 1300 m, 23.07.1991, 1. The specimens were collected from *Prunus armeniaca*, *P. avium*, *P. cerasus*, *P. persica* and *Medicago sativa*.

*Trifolium* spp. (19) and *Medicago sativa* (27) are given as host plants of this species.  
General Distribution: Europe, Near East and Middle Asia, North Africa (19).  
Distribution in Turkey: Çanakkale (27), **Artvin, Erzincan, Erzurum.**

***Protapion varipes* (Germar, 1817)**

Material Examined: **Erzurum:** Aşkale, 1650 m, 25.08.1988, 1.  
*Vicia cracca* is a host plant (27).  
General Distribution: Palearctic Region (19).  
Distribution in Turkey: Bilecik (27), **Erzurum.**

***Protapion assimile* (Kirby, 1808)**

Material Examined: **Erzurum:** University field, 1850 m, 23.06.1980, 1, on *Medicago sativa*.  
General Distribution: Palearctic Region (19).  
Distribution in Turkey: Çanakkale, Muğla (27), **Erzurum.**

***Apion frumentarium* (Linnaeus, 1758)**

Material Examined: **Artvin:** Arhavi, 100 m, 10.09.1992, 2 (Leg. S. Karadeniz). **Erzurum:** University field, 1850 m, 05.08.1992, 1. **Iğdır:** Central, 900 m, 18.07.1991, 1, on *Prunus avium*.  
*Rumex obtusifolius*, *R. crispus*, *R. patientia*, *R. conglomeratus*, *R. hydrolapathum* (19), *R. acetocella* (27) are recorded as host plants.  
General Distribution: Europe, Near East and Middle East (19).  
Distribution in Turkey: Afyon, Çanakkale, İzmir (27), **Artvin, Erzurum, Iğdır.**

***Catapion* sp.cf. *seniculus* (Kirby, 1808)**

*Catapion seniculus* is a widespread and highly variable species (21), but the specimens from Anatolia consistently show differences from the European ones, particularly in having shorter rostrum, and may represent a distinct species or subspecies.

Material Examined: **Artvin:** Yusufeli, Çağlayan, 600 m, 06.07.1994, 1; Demirkent, 800 m, 14.08.1991, 1. **Erzurum:** Oltu, Ayvalı, 1000 m, 12.07.1991, 2. The specimens were collected from *Olea europaea*, *Prunus domestica* and *P. persica*.  
*Medicago sativa*, *Onobrychis sativa* and *Trifolium* sp. are recorded as host plants (27).  
General Distribution of *C. seniculus*: Europe, North Africa, C. and SW Asia, Siberia (24), in detail (21).  
Distribution of *C. seniculus* in Turkey: Balıkesir, Bilecik, Çanakkale, İzmir, Muğla, Sakarya (27) – requires revision.

***Catapion burdigalense* (Wencker, 1858)**

Material Examined: **Erzincan:** Kemaliye, Sandık, 1600 m, 20.06.1982, 1 (Leg. H. Özışık).  
General Distribution: Mediterranean and Pontical regions: Algeria, Morocco, Spain, S. France, Italy, Austria, Yugoslavia, Greece, Bulgaria, S.-European Russia, Kazakhstan, Caucasus, Jordan, Syria (19), Turkey (28).  
Distribution in Turkey: Mediterranean Region (28), **Erzincan.**

***Stenopteron intermedium* (Eppelsheim, 1875)**

Material Examined: **Erzurum:** University field, 1850 m, 10.07.1995, 6 (Leg. L. Gültekin), on *Onobrychis viciaefolia*; Dumlu, 27.07.1979, 2 (Leg. H. Özişik).

*Onobrychis viciaefolia* and *O. arenaria* are host plants of this species (19).

General Distribution: France, Italy, Switzerland, Germany, Poland, Czech Republic, Slovakia, Austria, Hungary, Yugoslavia (Istria, Croatia), Bulgaria, S. Russia, Azerbaijan, SW Siberia, S. Kazakhstan (19), **Turkey.**

Distribution in Turkey: **Erzurum.**

***Stenopteron tenue* (Kirby, 1808)**

Material Examined: **Erzurum:** University field, 1850 m, 11.06.1980, 1 (Leg. H. Özişik); 23.06.1980, 3; Narman, Semikale, 1600 m, 05.07.1980, 1 (Leg. H. Özişik).

*Trifolium* spp., *Medicago sativa* and *Onobrychis viciaefolia* are host plants of this species (27,31).

General Distribution: North Africa, Europe, Near East and Middle Asia (19).

Distribution in Turkey: Afyon, Balıkesir, Erzurum, İzmir, Muğla, Tekirdağ, Uşak (27,31).

***Holotrichapion aestimatum* (Faust, 1890)**

Material Examined: **Erzincan:** Üzümlü, 1300 m, 01.07.1992, 3. **Erzurum:** University field, 1850 m, 02.06.1971, 7 (Leg. M. Doğanlar); 11.06.1980, 4 (Leg. Ö. Alaoğlu); 2 (Leg. H. Özişik); 23.06.1980, 7 (Leg. H. Özişik); Dumlubaba, 2200 m, 20.06.1980, 1 (Leg. M. Doğanlar); Pasinler, 1700 m, 04.06.1983, 1 (Leg. H. Özişik); Söğütlü, 1800 m, 12.08.1983, 1 (Leg. Ö. Alaoğlu). Most of the material was collected from *Medicago sativa* and one specimen from *Prunus avium*.

*Medicago* sp. and *M. sativa* are recorded as host plants (5,19,27,31).

General Distribution: Germany, Poland, Czech Republic, Slovakia, Austria, Hungary, Serbia, Bulgaria, Romania, Ukraine, Daghestan, N. Caucasus, Anatolia, Georgia, Middle Asia, Siberia (19), Israel (5).

Distribution in Turkey: Afyon, Erzurum, İzmir (27,31), **Erzincan.**

***Holotrichapion pisi* (Fabricius, 1801)**

Material Examined: **Bursa:** Central, 225 m, 23.07.1984, 2; Karacabey, 08.08.1984, 1; Orhangazi, 30.07.1984, 1 (Leg. Ö. İbrahimağaoğlu). **Erzincan:** Üzümlü, 1300 m, 01.07.1992, 1. **Erzurum:** University field, 1850 m, 23.06.1980, 2, on *Medicago sativa*.

*Medicago* sp. (19) and some Leguminosae (27) are host plants of this species.

General Distribution: Palearctic Region (19).

Distribution in Turkey: Afyon, Balıkesir, Bilecik, Bursa, Çanakkale, Denizli, Edirne, İzmir, Kırklareli, Kocaeli, Kütahya, Manisa, Sakarya (27), **Erzincan, Erzurum.**

***Hemitrichapion pavidum* (Germar, 1817)**

Material Examined: **Erzurum:** İspir, 1000 m, 24.07.1991, 10; M. Köprübaşı, 1100 m, 24.07.1991, 1; Pazaryolu, 1300 m, 23.07.1991, 4; Tortum, A. Meydanlar, 1400 m, 04.07.1991, 1; Pehlivanlı, 1300 m, 13.08.1991, 1. The material was found on *Prunus armeniaca*, *P. avium*, *P. cerasus*, *P. persica* and *Juglans regia*.

*Coronilla varia* is a host plant of this species (19).

General Distribution: Europe (except Scandinavia), Siberia, Near East, Middle Asia, Algeria (19).

Distribution in Turkey: **Erzurum.**

***Hemitrichapion reflexum* (Gyllenhal, 1833)**

Material Examined: **Erzurum:** University field, 1850 m, 25.07.1983, 1 (Leg. H. Özışık).

General Distribution: Europe (except Scandinavia), Siberia, Near East, Middle Asia, North Africa (19).

Distribution in Turkey: **Erzurum.**

***Cyanapion columbinum* (Germar, 1817)**

Material Examined: **Erzurum:** Oltu, 1250 m, 18.07.1988, 1; 21.07.1992, 1, on *Prunus persica*.

*Lathyrus* spp. are given as host plants (19).

General Distribution: Europe (northern border in S. Scandinavia), Near East, Middle Asia (Kazakhstan, Kirgizia), Siberia (19).

Distribution in Turkey: **Erzurum.**

***Oxystoma cerdo* (Gerstaecker, 1854)**

Material Examined: **Artvin:** Yusufeli, Demirkent, 800 m, 14.08.1991, 1; Sebzeçiler, 700 m, 14.08.1991, 1. The material was collected from *Prunus armeniaca* and *P. persica*.

*Vicia* sp. is a host plant (19).

General Distribution: Europe, Near East, Middle Asia, C. and E. Siberia, Mongolia, NE China (19).

Distribution in Turkey: **Artvin.**

***Oxystoma fausti* (Desbrochers, 1889)**

Material Examined: **Artvin:** Yusufeli, Demirkent, 800 m, 14.08.1991, 1. The specimen was collected from *Prunus domestica*.

General Distribution: Caucasus (37), S. Middle Asia (6), **Turkey.**

Distribution in Turkey: **Artvin.**

***Eutrichapion viciae* (Paykull, 1800)**

Material Examined: **Erzurum:** Oltu, 1250 m, 11.07.1991, 1, on *Prunus armeniaca*.

The host plants of this species are *Vicia* sp., *Lathyrus* sp. (19), *V. cracca* (27).

General Distribution: Palearctic Region (19).

Distribution in Turkey: Balıkesir, Bilecik, İzmir, Kütahya, Manisa, Muğla, Tekirdağ (27), **Erzurum.**

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