

New records of Buprestidae (Coleoptera) from Israel with description of a new species

MARK VOLKOVITSH

Zoological Institute, Russian Academy of Sciences, 199034 St. Petersburg, Russia

ABSTRACT

In two expeditions to Israel (in 1994 and 1996), 123 species of Buprestidae (Coleoptera), including one with two subspecies, were collected. Data collected, general distribution, and known larval host plants are given for each species. Fifteen Buprestidae species, and new hosts for four species, are recorded from Israel for the first time, including three new host associations for species that already had other known hosts. *Xantheremia* (*Xantheremia*) *freidbergi* is described as a new species. *Acmaeodera* (*Palaeotethya*) *macchabaea* Abeille de Perrin is resurrected from synonymy with *A. rubromaculata* sensu Volkovitsh, 1986 in part, and two new synonyms, *A. pharsaea* Obenberger and *A. houskai* Obenberger, are established for this species. *Acmaeoderella sefrensis* Pic is a new status for *Acmaeodera rufomarginata* var. *sefrensis* Pic, and two new synonyms are established for it: *A. rufomarginata* var. *stramineipennis* Chobaut and *A. virgulata* var. *lucasi* Thery. *Acmaeodera miribella* Obenberger is a new subspecies of *Acmaeodera elegans* (Harold) n. comb., and *Acmaeodera eucera* Obenberger is its synonym. *Acmaeoderella adspersula arabica* Cobos is elevated to species status. Lectotypes are designated for *A. rufomarginata* var. *sefrensis*, *A. rufomarginata* var. *stramineipennis*, and *A. virgulata* var. *lucasi*.

INTRODUCTION

The study of buprestid fauna of Israel has been relatively poor. Bodenheimer (1937) listed 84 species. There are only a few publications on Israeli buprestids in the 20th century that either summarize data collected (Obenberger, 1946; Niehuis, 1996) or are devoted to buprestid fauna of certain localities (Chikatunov et al., 1999; Volkovitsh et al., 2000). Recently, Halperin and Argaman (2000) listed 173 species of Buprestidae (including some synonyms and misidentifications) with their host plants and data on their distribution and phenology. Additional data can be found in other taxonomic and faunistic works (Richter, 1952, 1949; Volkovitsh, 1986; Niehuis, 1989a,b, 1992, 1997, 2001; Bfly, 1997; etc.) or publications on forestry and agricultural pests (Bodenheimer, 1930; Rivnay, 1946, 1945, 1944; Bytinski-Salz, 1954; Halperin, 1963; Bytinski-Salz and Sternlicht, 1967). In total, nearly 190 buprestid species have been reported from Israel to date (excluding synonyms and obvious misidentifications).

In 1994 and 1996, entomologists from the Zoological Institute of the Russian Academy of Sciences (St. Petersburg, Russia), including the author of this paper, conducted taxonomic and ecological studies of several groups of insects in Israel. The first trip, which was carried out in April and May 1994, covered mainly the desert areas in southern Israel: Ha'Arava Valley, southern and central Negev, and the Dead Sea area, and the highlands and mountain areas of northern Israel: the Upper Galilee, Golan Heights, and Har (Mount) Hermon. To a lesser extent we collected in a few sites in the central Coastal Plain and the Judean Hills, totaling 9 geographical regions and 43 localities. The second trip, which was carried out in late June and July 1996, covered the same regions, as well as a few new sites in the northern Negev, Judean Desert, southern and northern Coastal Plains, and the Karmel (Carmel) Ridge, totalling 11 geographical regions and 32 localities. Selected collection sites included nearly all the vegetation types of Israel (Table 1).

Table 1
Collection sites visited in 1994 and 1996

The data of the table include collecting location number ("loc. No.", as per the collectors' documentation), name of the collecting locality and its geographical region (according to which the localities are grouped together), dates of collecting (day and month), and an indication of the vegetation of the collection site (indicated by the number of the verbal description, below)

Trip of 1994			
Locality number	Geographical region and collecting locality	Collecting date(s)	Vegetation type(s) **
<i>*Ha'arava Valley</i>			
1.	Zofar env.	6.iv.	15
8.	Hazeva, Field School	10–16.iv.	15, 18
11.	Nahal Omer, Zofar distr.	12.iv.	15
<i>*Southern Negev</i>			
2.	*Elat env., Field School	6–9.iv.	15, 18
3.	Elat env.	7.iv.	15
4.	Har Hizqiyahu, 880 m, 9 km NW of Elat	8.iv.	12, 15
5.	Nahal Shelomo, 5 km W of Elat	8.iv.	15
6.	Har Hizqiyahu, 800 m, 12 km NW of Elat	9.iv.	12, 15
7.	Timna' Nat. Park, 25 km N of Elat	10.iv.	15
9.	Nahal Zin, 14 km NW of 'En Hazeva	11.iv.	12, 15
10.	Nahal Zihor, 26 km N of Shizzafon	12.iv.	12, 15
12.	Nahal Hazera, Hamakhtesh Haqatan, 20 km ESE of Dimona	13.iv.	12, 15
13.	Nahal Zafit, 25 km ESE of Dimona	13.iv.	12, 15
14.	*Har Qetura, 4 km SE of Shizzafon	14.iv.	12, 15, 18

Table 1 *continued*

<i>*Central Negev</i>			
18.	*Nahal Neqarot, 11 km SE of Mizpé Ramon	17.iv.	12, 15
19.	*Mizpé Ramon, Field School	17–20.iv.	10, 18
20.	Makhtésh Ramon, 8–14 km ENE of Mizpé Ramon	18.iv.	10, 12, 13
21.	*Nahal Nizzana, 14 km WSW of Mizpé Ramon	18–19.iv.	10, 11
22.	'Avedat	20.iv.	10, 18
<i>*Dead Sea Area</i>			
15.	*Nahal Ze'elim, 4 km N of Horvot Mezada (Massada)	15.iv.	12, 15
16.	Nahal Amazyahu, Ne'ot Hakikkar env.	16.iv.	13, 17
17.	Nahal Tamar, 4 km NNW of 'En Tamar	16.iv.	15, 17
23.	Nahal Zohar, 5 km NW of Newé Zohar	20.iv.	15
24.	*'En Gedi, Dead Sea Coast	20–23.iv.	12, 17
25.	*Nahal David, 'En Gedi env. ('En Gedi Reserve)	21.iv.	12, 14, 18
26.	*Nahal 'Arugot, 'En Gedi env. (Nahal 'Arugot ha'illi Reserve)	22, 23.iv.	12, 14
27.	Nahal Qidron, 25 km NNE of 'En Gedi (Mezuqe haHe'teqim Reserve)	24.iv.	12, 17
<i>Central Coastal Plain</i>			
28.	Petah Tiqwa env.	25–26.iv.	18
<i>Judean Hills</i>			
29.	Yerushalayim (Jerusalem) west. env.	28.iv.	1, 18
30.	Efrata, 15 km SSW of Yerushalayim (Jerusalem)	28.iv.	1, 18
<i>*Upper Galilee</i>			
31.	Nahal Hermon, 10 km E of Qiryat Shemona	2, 3.v.	1
32.	*Shear Yashuv, 7 km ENE of Qiryat Shemona	1–10.v.	4, 18
35.	Mezudat Yesha', 10 km S of Qiryat Shemona	4.v.	1
38.	HaYarden (Jordan) river, 2 km NE of Karkom	6.v.	7
40.	Bar'am Reserve, Bar'am env.	11.v.	1
41.	Har Meron, Field School, 10 km WNW of Zefat	11–17.v.	1
42.	*Har Meron, 7–11 km WNW of Zefat	12–17.v.	1
43.	Nahal Keziv, 'Avdon env.	15.v.	1, 5
<i>Golan Heights</i>			
33.	Har Odem, 16 km E of Qiryat Shemona	3.v.	4
36.	'En Divsha, 4 km S of Gonén	5.v.	2, 4
37.	Nahal Samakh, 5 km SSE of Ramot	5.v.	2, 4
<i>*Har Hermon</i>			
34.	*Mezudat Nimrod, 16 km ENE of Qiryat Shemona	4, 7, 10.v.	1
39.	Har Hermon, 1750 m, 21 km NE of Qiryat Shemona	7.v.	3, 9

table continues next page

Table 1 *continued*

Trip of 1996			
Locality number	Geographical region and collecting locality	Collecting Date(s)	Vegetation type (**)
<i>*Ha'arava Valley</i>			
2.	Sappir env.	30.vi.–1.vii.	12, 15, 18
5.	9 km SW of Yahel	3.vii.	13
<i>*Southern Negev</i>			
3.	Nahal Zefahot Nat. Res., Elat env.	2.vii.	15
4.	*Elat env., Field School	1–4.vii.	15, 18
6.	*Har Qetura, 4 km SE of Shizzafon	4.vii.	12, 15, 18
7.	Nahal Botem, 28 km NNW Elat	5.vii.	12
<i>*Central Negev</i>			
8.	*Nahal Neqarot, 11 km SE of Mizpé Ramon	5, 7.vii.	12, 15
9.	*Mizpé Ramon, Field School	5–7.vii.	10, 18
10.	*Nahal Nizzana, 14 km WSW of Mizpé Ramon	6.vii.	10, 11
11.	Nahal Gevanim, 9 km ESE of Mizpé Ramon	7.vii.	12, 15
13.	Hamakhtesh Hagadol, 12 km ESE of Yeroham	8, 11.vii.	12
<i>Northern Negev</i>			
12.	Shadmot Shezaf 20 km WSW of Ashalim	8.vii.	13
<i>*Dead Sea Area</i>			
14.	'En Gedi, Field School	8–13.vii.	18
15.	*Nahal 'Arugot, 'En Gedi env. (Nahal 'Arugot ha'illi Reserve)	9.vii.	12, 14
16.	*Nahal David, 'En Gedi env. ('En Gedi Reserve)	9.vii.	12, 14, 18
17.	*Nahal Ze'elim, 4 km N of Horvot Mezada (Massada)	10, 13.vii.	12, 15
19.	Mizpé Shalém env.	12.vii.	12, 17
20.	*'En Gedi, Dead Sea Coast	13.vii.	12, 17
<i>Judean Desert</i>			
18.	Nahal Darga, 5 km NW of Mizpé Shalém	12.vii.	12
<i>Southern Coastal Plain</i>			
1.	Nat. Res. No. Evtah	29.vi.	13
<i>Northern Coastal Plain</i>			
21.	Ma'agan Mikha'el env.	19–21.vii.	18
32.	Akhziv env.	28, 29.vii.	13, 18

Table 1 *continued*

<i>Karmel Ridge</i>			
22.	Har Karmel, Nahal Oren, 4 km SW of Bet Oren	18–20.vii.	1
23.	Har Karmel, 'Isfiya env.	19.vii.	1
24.	Har Karmel, Har Sumaq, 5 km SSE of Dāliyat el Karmil	20.vii.	1
25.	Har Karmel, Nahal Me'arot, 10 km S of Tirat Karmel	21.vii.	1
<i>*Upper Galilee</i>			
26.	*Har Meron, 7–11 km WNW of Zefat	22–24.vii.	1
27.	Har Meron, Sasa Hostel	23, 24.vii.	18
28.	Biq'at Bet Zayda Natural Reserve, Yam Kinneret NE Coast	25.vii.	7
31.	*Shear Yashuv, 7 km ENE of Qiryat Shemona	25–28.vii.	4, 18
<i>*Har Hermon</i>			
29.	Har Hermon, 1750 m, 3 km NNW of Newé Ativ	26.vii.	3, 9
30.	*Mezudat Nimrod, 16 km ENE of Qiryat Shemona	26, 27.vii.	1

* Geographical regions and locality visited in both 1994 and 1996.

**The vegetation types of Israel according to Danin (1996): (1) maquis and forests, (2) *Quercus calliprinos* woodlands on basalt, (3) montane forest of Har Hermon, (4) open forests of *Quercus ithaburensis*, (5) open forests of *Ceratonia siliqua* and *Pistacia lentiscus*, (6) *Ziziphus lotus* with herbaceous vegetation, (7) Mediterranean savannoid vegetation, (8) semi-steppe batha, (9) Traganth vegetation of Har Hermon, (10) shrub-steppes, (11) shrub-steppes with trees of *Pistacia atlantica*, (12) desert vegetation, (13) sand vegetation, (14) oases with Sudanian trees, (15) savannoid desert vegetation, (16) swamps and reed thickets, (17) wet salinas, (18) synanthropic vegetation.

During the two trips to Israel we collected over 3000 specimens of Buprestidae, which belong to 124 taxa, including 123 species and two subspecies of *Acmaeoderella adspersula*. Seven species were new; of these, *Anthaxia margaritae* Bílý, *A. meronica* Bílý, *Paratassa acuminata* Bílý and Volkovitsh, *Sphenoptera halperini* Niehuis, *Meliboeus halperini* Niehuis, and *Chalcogenia halperini* Volkovitsh and Bílý have already been described (Bílý, 1995; Bílý and Volkovitsh, 1996; Volkovitsh and Bílý, 1997; Niehuis, 1997, 2001), and *Xanthermia freidbergi* n. sp. is described in this paper. In this paper, fifteen species are recorded from Israel for the first time, larval host plants of four species are established for the first time, and new host associations are recorded for three buprestid species. Thus, the known fauna of Israel now contains 205 species. For each species, the collecting data, general distribution, and larval host plants are given. The abundant material collected during these field trips makes it possible to change the taxonomic status of some taxa and establish new synonyms for several *Acmaeoderini* species from the Near East and Northern Africa.

The following acronyms are used throughout the text: MNHN = Muséum National d'Histoire Naturelle (Paris, France); NMPC = Národní Muzeum v Praze (Prague, Czech Republic); TAU = Zoological Museum of Tel Aviv University (Tel Aviv, Israel); ZIN = Zoological Institute, Russian Academy of Sciences (St. Petersburg, Russia); ZSMC = Zoologische Sammlung des Bayerischen Staates (Munich, Germany). The number of specimens is denoted in the text by ex.

LIST OF BUPRESTID SPECIES COLLECTED IN 1994 AND 1996

JULODINAE Lacordaire, 1857

JULODINI Lacordaire, 1857

Julodis Eschscholtz, 1829

1. *Julodis aequinoctialis* (Olivier, 1790)

LOCATION: *Central Negev*: Nahal Nizzana, 14 km WSW of Mizpé Ramon, 18, 19.iv.1994, Volkovitsh and Dolgovskaya, Zaitzev; Makhtésh Ramon, 8–14 km ENE of Mizpé Ramon, 18.iv.1994, Volkovitsh and Dolgovskaya, Zaitzev; Nahal Neqarot, 11 km SE of Mizpé Ramon, 17.iv.1994, Volkovitsh and Dolgovskaya. *Southern Negev*: Nahal Zafit, 25 km ESE of Dimona, 13.iv.1994, Volkovitsh and Dolgovskaya; Har Hizqiyyahu, 880 m, 9 km NW of Elat, 8.iv.1994, Volkovitsh and Dolgovskaya; Har Hizqiyyahu, 800 m, 12 km NW of Elat, 9.iv.1994, Volkovitsh and Dolgovskaya; Har Qetura, 4 km SE of Shizzafon, 14.iv.1994, Volkovitsh and Dolgovskaya, Zaitzev. 21 ex. on *Retama raetam*, *Ephedra*, *Anabasis*.

DISTRIBUTION: ?Syria, Israel, Sinai, Morocco, Algeria, Tunis, Libya, Egypt, Senegal, Chad, Sudan.

2. *Julodis rothi* Sturm, 1843

LOCATION: *Upper Galilee*: Zefat env., 2.v.1994, Chikatunov. *Central Negev*: Nahal Nizzana, 14 km WSW of Mizpé Ramon, 18, 19.iv.1994, Zaitzev. 3 ex.

DISTRIBUTION: Syria, Israel, Jordan, Saudi Arabia.

POLYCESTINAE Lacordaire, 1857

ACMAEODERINI Kerremans, 1893

Acmaeodera Eschscholtz, 1829

3. *Acmaeodera (Acmaeodera) brevipes saducaea* Obenberger, 1946

LOCATION: *Har Hermon*: Mezudat Nimrod, 16 km ENE of Qiryat Shemona, 7, 10.v.1994, Volkovitsh and Dolgovskaya; Har Hermon, 1750 m, 21 km NE of Qiryat Shemona, 10.v.1994, Zaitzev. *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Volkovitsh, Zaitzev; HaYarden (Jordan) river, 2 km NE of Karkom, 6.v.1994, Volkovitsh and Dolgovskaya. *Golan Heights*: 'En Divsha, 4 km S of Gonén,

5.v.1994, Volkovitsh and Dolgovskaya. 61 ex., mainly on *Convolvulus* flowers and rarely on flowers of other plants.

DISTRIBUTION: Syria, Israel, Jordan, Iraq.

HOST PLANTS: *Quercus calliprinos* (Israel: Bytinski-Salz and Sternlicht, 1967; Halperin and Argaman, 2000).

4. *Acmaeodera (Acmaeodera) pilosellae syriaca* Abeille de Perrin, 1900

LOCATION: *Har Hermon*: Mezudat Nimrod, 16 km ENE of Qiryat Shemona, 7.v.1994, Volkovitsh and Dolgovskaya; *Har Hermon*, 1750 m, 21 km NE of Qiryat Shemona, 10.v.1994, Volkovitsh. *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Volkovitsh, Zaitzev. *Golan Heights*: Har Odem, 16 km E of Qiryat Shemona, 3.v.1994, Zaitzev. 97 ex., mainly on *Convolvulus* flowers and rarely on flowers of yellow Asteraceae.

DISTRIBUTION: Eastern Turkey, Syria, Israel.

HOST PLANTS: *Eucalyptus occidentalis* (Israel: Halperin and Argaman, 2000); *Quercus*, *Corylus*, *Crataegus*, *Prunus*, *Acer*, *Pistacia* (Palearctic, *A. p. pilosellae*: Gobbi, 1986).

5. *Acmaeodera (Acmaeodera) flavolineata flavolineata* Laporte and Gory, 1835

LOCATION: *Har Hermon*: Mezudat Nimrod, 16 km ENE of Qiryat Shemona, 7.v.1994, Volkovitsh and Dolgovskaya. *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Volkovitsh, Zaitzev; HaYarden (Jordan) river, 2 km NE of Karkom, 6.v.1994, Volkovitsh and Dolgovskaya. *Golan Heights*: 'En Divsha, 4 km S of Gonén, 5.v.1994, Volkovitsh and Dolgovskaya. *Central Negev*: Nahal Nizzana, 14 km WSW of Mizpe Ramon, 18, 19.iv.1994, Zaitzev. 53 ex., mainly on *Convolvulus* flowers and more rarely on yellow Asteraceae.

DISTRIBUTION: Bulgaria, Greece, Turkey, Syria, Lebanon, Israel, Jordan, Iraq, Iran, Georgia, Armenia, Azerbaijan.

HOST PLANTS: *Quercus ithaburensis* (Israel: Bytinski-Salz and Sternlicht, 1967; Halperin and Argaman, 2000).

**6. *Acmaeodera (Palaeotethya) macchabaea* Abeille de Perrin, 1891
(restored status)**

LOCATION: *Dead Sea Area*: Nahal Qidron, 25 km NNE of 'En Gedi (Mezuqe haHe'teqim Reserve), 24.iv.1994, Volkovitsh and Dolgovskaya; Nahal Ze'elim, 4 km N of Horvot Mezada, 15.iv.1994, Volkovitsh and Dolgovskaya, Zaitzev; Nahal 'Arugot, 'En Gedi env. (Nahal 'Arugot ha'illi Reserve), 22, 23.iv.1994, Volkovitsh and Dolgovskaya, Zaitzev, Shibanova. *Central Negev*: Nahal Nizzana, 14 km WSW of Mizpe Ramon, 18, 19.iv.1994, Volkovitsh and Dolgovskaya, Zaitzev; 'Avedat, 20.iv.1994, Volkovitsh and Dolgovskaya; Makhtesh Ramon, 8–14 km ENE of Mizpe Ramon, 18.iv.1994,

Volkovitsh and Dolgovskaya; Naḥal Neqarot, 11 km SE of Mizpé Ramon, 17.iv.1994, Volkovitsh and Dolgovskaya, Zaitzev. *Southern Negev*: Naḥal Zafit, 25 km ESE of Dimona, 13.iv.1994, Zaitzev; Naḥal Hazera, Hamakhtésh-Haqatan, 20 km ESE of Dimona, 13.iv.1994, Volkovitsh and Dolgovskaya; Naḥal Zihor, 26 km N of Shizzafon, 12.iv.1994, Zaitzev; Har Qetura, 4 km SE of Shizzafon, 14.iv.1994, Volkovitsh and Dolgovskaya, Zaitzev. 101 ex. on flowers of *Asteriscus graveolens*, *Mesembryanthemum nodiflorum*, *Pulicaria incisa*, *Aaransonia factorovskyi*, and other yellow Asteraceae.

DISTRIBUTION: Syria, Israel, Jordan.

HOST PLANTS: *Acacia* (Israel: M. Niehuis).

REMARKS: First record for larval host plant.

7. *Acmaeodera (Palaeotethya) rubromaculata* Lucas, 1844

LOCATION: *Dead Sea Area*: Naḥal 'Arugot, 'En Gedi env. (Naḥal 'Arugot ha'illi Reserve), 22–23.iv.1994 Volkovitsh and Dolgovskaya; Naḥal Tamar, 4 km NNW of 'En Tamar, 16.iv.1994, Volkovitsh and Dolgovskaya. *Central Negev*: Makhtésh Ramon, 8–14 km ENE of Mizpé Ramon, 18.iv.1994, Volkovitsh and Dolgovskaya; Naḥal Neqarot, 11 km SE of Mizpé Ramon, 17.iv.1994, Volkovitsh and Dolgovskaya, Zaitzev. *Southern Negev*: Naḥal Zafit, 25 km ESE of Dimona, 13.iv.1994, Zaitzev; Naḥal Zin, 14 km NW of 'En Hazeva, 11.iv.1994, Volkovitsh and Dolgovskaya; Naḥal Zihor, 26 km N of Shizzafon, 12.iv.1994, Volkovitsh and Dolgovskaya, Zaitzev; Har Hizqiyahu, 800 m, 12 km NW of Elat, 9.iv.1994, Volkovitsh and Dolgovskaya; Har Qetura, 4 km SE of Shizzafon, 14.iv.1994, Volkovitsh and Dolgovskaya, Zaitzev. 88 ex., together with previous species.

DISTRIBUTION: Spain, Crete, Israel, Sinai, Morocco, Algeria, Tunisia, Libya, Egypt.

HOST PLANTS: *Thymelaea*, *Withania*, *Launaea*, *Artemisia* (Palearctic: Cobos, 1986; G. Magnani).

8. *Acmaeodera (Acmaeotethya) bernardi* Descarpentries, 1953

LOCATION: *Dead Sea Area*: Naḥal Ze'elim, 4 km N of Horvot Mezada 10,13. vii.1996, Volkovitsh and Dolgovskaya. 19 ex. Sweeping on *Atriplex*.

DISTRIBUTION: Israel, Algeria, Chad.

HOST PLANTS: *Acacia raddiana*, *A. tortilis* (Israel: G. Magnani; Sahara: Mateu, 1972).

9. *Acmaeodera (Acmaeotethya) crinita abigail* Obenberger, 1946

LOCATION: *Har Hermon*: Mezudat Nimrod, 16 km ENE of Qiryat Shemona, 7.v.1994, Volkovitsh and Dolgovskaya. *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Volkovitsh, Podlipaev. 15 ex. On flowers of *Convolvulus* and yellow Asteraceae.

DISTRIBUTION: Syria, Israel, Jordan, ? Egypt.

HOST PLANTS: ?*Cupressus sempervirens*, *Pinus halepensis*, *Pistacia palaestina* (Israel: Halperin and Argaman, 2000; Volkovitsh et al., 2000); *Quercus*, *Populus*, *Pyrus*, *Pistacia lentiscus*, *Vitex*, ?*Agave* (Palearctic, *A. c. crinita*: Cobos, 1986; Gobbi, 1986).

10. *Acmaeodera (Acmaeotethya) saxicola saxicola* Spinola, 1838

LOCATION: *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Volkovitsh, Zaitzev, Shibanova; Nahal Hermon, 10 km E of Qiryat Shemona, 2, 3.v.1994, Volkovitsh and Dolgovskaya. 102 ex., mainly on flowers of *Papaver*, less common on *Convolvulus* and yellow Asteraceae.

DISTRIBUTION: The Balkans, Greece, Turkey, Syria, Lebanon, Israel, Jordan, Iraq, Iran.

HOST PLANTS: *Pistacia atlantica*, *Quercus* spp. (Israel: Halperin and Argaman, 2000; Volkovitsh et al., 2000); *Quercus*, *Pyrus* (Palearctic: Knopf, 1971; Niehuis, 1989a; G. Magnani).

11. *Acmaeodera (Acmaeotethya) biseriata* Reitter, 1890

LOCATION: *Har Hermon*: Mezudat Nimrod, 16 km ENE of Qiryat Shemona, 7.v.1994, Volkovitsh and Dolgovskaya. *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Volkovitsh, Zaitzev. 18 ex. on yellow Asteraceae.

DISTRIBUTION: Turkey, Syria, Israel, Iran.

12. *Acmaeodera (Acmaeotethya) simulans simulans* Abeille de Perrin, 1891

LOCATION: *Upper Galilee*: HaYarden (Jordan) river, 2 km NE of Karkom, 6.v.1994, Volkovitsh and Dolgovskaya; Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Shibanova, Volkovitsh. *Golan Heights*: 'En Divsha, 4 km S of Gonén, 5.v.1994, Volkovitsh and Dolgovskaya, Zaitzev. 28 ex. *Dead Sea Area*: Nahal 'Arugot, 'En Gedi env. (Nahal 'Arugot ha'illi Reserve), 22, 23.iv.1994, Zaitzev. *Central Negev*: Nahal Nizzana, 14 km WSW of Mizpé Ramon, 18, 19.iv.1994, Volkovitsh and Dolgovskaya, Zaitzev. One dead specimen was found inside a tunnel in a trunk of *Pistacia atlantica* (Nahal Nizzana, 1994); 28 ex., usually on flowers of yellow Asteraceae or *Convolvulus*.

DISTRIBUTION: Turkey, Syria, Lebanon, Israel, Iraq.

HOST PLANTS: Israel: *Quercus calliprinos* (Bytinski-Salz and Sternlicht, 1967); *Pistacia atlantica*, *P. lentiscus*, *Tamarix* spp., *Prunus dulcis*, *Quercus* sp., *Rhamnus punctatus* (Halperin and Argaman, 2000; Volkovitsh et al., 2000).

13. *Acmaeodera (Acmaeotethya) ottomana ottomana* (Frivaldszky, 1837)

LOCATION: *Har Hermon*: Har Hermon, 1750 m, 21 km NE of Qiryat Shemona, 10.v.1994, Volkovitsh. *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Volkovitsh, Zaitzev, Shibanova. *Golan Heights*: Har Odem, 16 km E of Qiryat Shemona, 3.v.1994, Shibanova, Zaitzev. 45 ex. on flowers of yellow Asteraceae, rarely on *Convolvulus* and others.

DISTRIBUTION: The Balkans, Greece, Turkey, Syria, Lebanon, Israel, Jordan, Iran, Azerbaijan.

HOST PLANTS: *Quercus ithaburensis*, spp. (Israel: Bytinski-Salz and Sternlicht, 1967; Halperin and Argaman, 2000); *Quercus*, *Ficus*, *Pyrus*, *Prunus*, *Amygdalus* (Palearctic: Niehuis, 1989a; Katheh-Bader, 1996; S. Bílý, G. Magnani, V. Sakalian).

14. *Acmaeodera (Acmaeotethya) undulata* Abeille de Perrin, 1891

LOCATION: *Har Hermon*: Mezudat Nimrod, 16 km ENE of Qiryat Shemona, 7.v.1994, Shibanova, Volkovitsh and Dolgovskaya. *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Volkovitsh, Zaitzev. 12 ex. on flowers of yellow Asteraceae, rarely on *Convolvulus*.

DISTRIBUTION: Turkey, Lebanon, Israel, Iran.

HOST PLANTS: Israel: *Quercus calliprinos*, spp. (Bytinski-Salz and Sternlicht, 1967; Halperin and Argaman, 2000), *Ficus carica* (G. Magnani).

REMARKS: New larval host plants.

15. *Acmaeodera (Paracmaeodera) elevata* (Klug, 1829)

LOCATION: *Dead Sea Area*: Nahal 'En Tamar, 4 km NNW of 'En Tamar, 16.iv.1994, Volkovitsh and Dolgovskaya. *Ha'arava Valley*: Sappir env., 1.vii.1996, Volkovitsh and Dolgovskaya. *Southern Negev*: Har Qetura, 4 km SE of Shizzafon, 4.vii.1996, Volkovitsh and Dolgovskaya. 13 ex., collected by beating on *Acacia* trees, dead beetles extracted from wood.

DISTRIBUTION: Israel, Egypt, Sinai, Saudi Arabia, Libya, Algeria, Morocco, Ethiopia, Somalia, Sudan, Kenya, Tanzania, Chad, Nigeria.

HOST PLANTS: *Acacia raddiana* (Israel: Bytinski-Salz, 1954, as *A. nubica*; Halperin and Argaman, 2000; Sahara: Mateu, 1972).

16. *Acmaeodera (Ptychomus) arabica* Gory, 1840

LOCATION: *Dead Sea Area*: Nahal Ze'elim, 4 km N of Horvot Mezada, 15.iv.1994, Volkovitsh and Dolgovskaya. *Southern Negev*: Nahal Zefahot Nat. Res., Elat env. 2.vii.1996, Volkovitsh and Dolgovskaya. 12 ex., dead specimens extracted from the wood of thick branches of *Acacia*.

DISTRIBUTION: Israel, Saudi Arabia, Ethiopia.

HOST PLANTS: *Acacia* (Israel: J. Halperin, G. Magnani, M. Volkovitsh).

REMARKS: First record for larval host plant.

17. *Acmaeodera (Ptychomus) polita* (Klug, 1829)

LOCATION: *Dead Sea Area*: Nahal Zohar, 5 km NW of Newé Zohar, 20.iv.1994, Volkovitsh and Dolgovskaya. *Ha'arava Valley*: Nahal Omer, Zofar distr., 12.iv.1994,

Volkovitsh and Dolgovskaya. *Southern Negev*: Elat env., 7.iv.1994, Volkovitsh and Dolgovskaya; Nahal Shelomo, 5 km W of Elat, 8.iv.1994, Volkovitsh and Dolgovskaya; Nahal Zefahot Nat. Res., Elat env. 2.vii.1996, Volkovitsh and Dolgovskaya. 8 ex., one live specimen extracted from a tunnel in a trunk of *Acacia* (Elat env., 1994), 4 dead ex. from the branches; others collected by beating *Acacia* trees.

DISTRIBUTION: Israel, Egypt, Sinai, Saudi Arabia, Ethiopia, Somalia, Senegal, Sudan, Tanzania, Chad, South Africa.

HOST PLANTS: *Acacia raddiana* (Israel: Bytinski-Salz, 1954; Halperin and Argaman, 2000), *Acacia*, *Ziziphus* (Sahara: Mateu, 1972).

Xantheremia Volkovitsh, 1979

18. *Xantheremia (Xantheremia) philistina* (Marseul, 1865)

LOCATION: *Dead Sea Area*: Nahal 'En Tamar, 4 km NNW of 'En Tamar, 16.iv.1994, Volkovitsh and Dolgovskaya; Nahal David, 'En Gedi env. ('En Gedi Reserve), 21.iv.1994, Volkovitsh and Dolgovskaya. *Ha'arava Valley*: 9 km SW of Yahel, 3.vii.1996, Volkovitsh and Dolgovskaya. *Southern Negev*: Har Qetura, 4 km SE of Shizzafon, 4.vii.1996, Volkovitsh and Dolgovskaya. 25 ex. Beetles were collected in flight around or feeding on yellow Asteraceae, one dead specimen extracted from *Acacia* wood (Har Qetura, 1996).

DISTRIBUTION: ?Turkey, ?Syria, Israel, ?Iran.

HOST PLANTS: *Acacia raddiana* (Israel: Halperin and Argaman, 2000).

19. *Xantheremia (Xantheremia) pantherina* Bílý, 1979

LOCATION: *Ha'arava Valley*: 9 km SW of Yahel, 3.vii.1996, Volkovitsh and Dolgovskaya, Zaitzev. 31 ex. on yellow Asteraceae together with previous species.

DISTRIBUTION: Israel, Iraq, Saudi Arabia.

HOST PLANTS: *Calligonum commosum* (Israel: Halperin and Argaman, 2000; as *X. philistina*, part.)

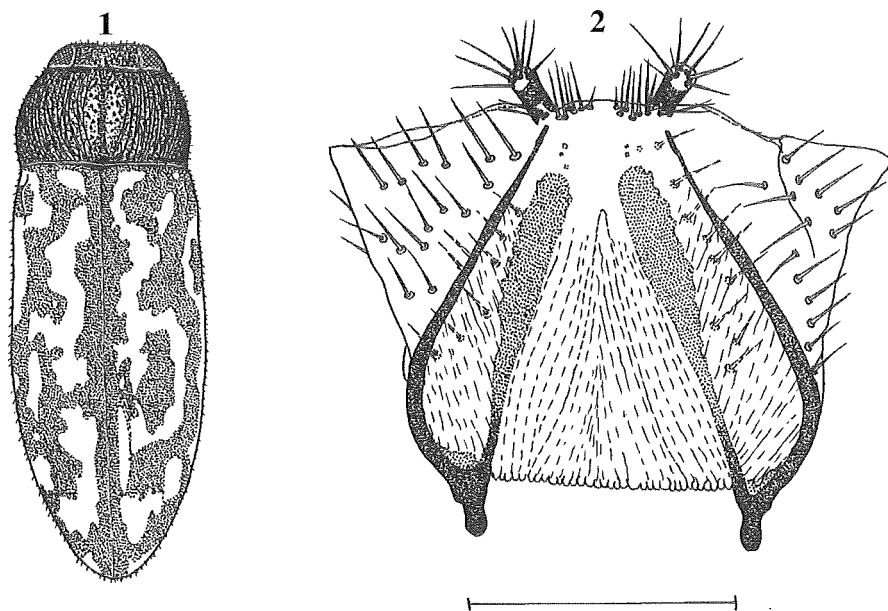
REMARKS: First record for Israel and larval host plant.

20. *Xantheremia (Xantheremia) freidbergi* n. sp.

(Figs. 1, 2)

DESCRIPTION: *BODY*: Small, length 6.3 mm, width 2.0 mm, elongated, slender, slightly flattened (Fig. 1), with poorly marked dorsal curvature; black, with feeble metallic sheen, elytra with asymmetrical pattern of longitudinal, strongly curved, irregular, frequently joined, ochre-yellow and dark brown stripes; covered with sparse, white, thin, lanceolate scales never concealing integument.

HEAD: Broad, flattened; front slightly longitudinally depressed at the middle, with sides feebly curved and hardly diverging to vertex. Vertex with distinct longitudinal keel



Figs. 1–2. *Xantheremia (Xantheremia) freidbergi* n. sp., holotype, female. 1. Body, dorsal view. 2. Ovipositor, dorsal view. Scale: 0.5 mm.

extending to upper part of front; 1.94 times as wide as transverse diameter of eye and 1.07 times as wide as front above antennal depressions. Clypeus wide, with median emargination very deeply arcuate. Front with reticulate-rugulose sculpture of superficial umbilicate punctures with inconspicuous inner surface and indistinct rugosity; intervals shining. Antennae short, 1.3 times as long as height of eye; serrated from 5th antennomere; 2nd antennomere ovoid, thickened; 3rd and 4th antennomeres similar; 5th–10th antennomeres transverse, approx. 2 times as wide as long; 11th antennomere irregularly ovale, transverse.

THORAX: Pronotum convex, without marked basal depressions, with shallow but distinct median groove; basal width 1.43 times its length; greatest width just posterior to midpoint; sides almost parallel towards anterior 1/3, then sharply, arcuately converging anteriorly; anterior margin hardly arcuately projecting, almost straight; basal margin straight. Lateral carina thin, distinct, entire. Sides with rugose sculpture of very coarse concentric rugae, intervals with indistinct traces of umbilicate punctures; central part of disc with punctate sculpture of sparse, fine, simple punctures. Pubescence consisting of sparse, short, decumbent, white, lanceolate scales which do not conceal the sculpture. Anterior prothoracic margin widely arcuate, bordered by a thin groove; prothoracic sculpture consisting of coarse, dense, deep punctures. Hypomera with reticulate sculpture of large, superficial, umbilicate punctures. Metathorax and hind coxae with coarse, almost alveolate punctures.

ELYTRA: 2.48 times as long as wide at base; slightly broadened at humeri; sides almost parallel on anterior 2/3, evenly, arcuately converging to regularly jointly rounded apices. Serrulation in posterior third of epipleura inconspicuous excepting very apex; subhumeral incisure well marked, deep. Striae with big, deep, round punctures, separated at anterior half of elytral length and forming grooves at posterior half of elytron. Intervals slightly convex, 1.5–3 times as wide as striae, covered with superficial, mostly uniseriate puncturation on transversely rugulose background and with white, very fine, lanceolate scales. Elytral pattern consists of longitudinal, strongly curved, irregular, jointing ochre-yellow and dark brown stripes (Fig. 1).

LEGS: Black; hind coxae with posterior margin barely curved, without lateral tooth. Tibiae slender, straight, poorly broadened toward apex, covered with sparse lanceolate scales and setae. Plantar brush poorly developed on first tarsomere, larger toward distal end. Claws long, thin, curved, with sharp tooth just anterior of the middle.

ABDOMEN: Black with metallic sheen and obscure bronze reflection, sides of first sternite ocellately sculptured with large umbilicate punctures; remaining surface with sparser asperate punctures; covered with white, lanceolate, decumbent scales, not concealing background. Anal sternite (female) short, broadly rounded, and bordered apically, without marked depressions.

GENITALIA: Female (Fig. 2). Ovipositor uritiform, short; dorsal hemisterna very thin, strongly curved; ventral hemisterna narrow, stripe-like, poorly sclerotized, yellowish in color; the distance between styli equal to twice their length.

MATERIAL EXAMINED: Holotype, female. *Israel: Central Negev, Hamakhtesh Hagadol, 12 km ESE of Yeroham, 8.vii.1996, Volkovitsh and Dolgovskaya (TAU).*

BIOLOGY: Unknown.

ETYMOLOGY: The species is named in honor of Dr. A. Freidberg of Tel Aviv University who greatly helped to organize our trips to Israel.

DIAGNOSIS AND DISCUSSION: *X. freidbergi* n. sp. is closely related to *X. jelineki* Bílý, 1983 from eastern Iran in elytral pattern and ovipositor structure, but distinguished by having a more elongated body (3.15 times as long as wide at base of elytra); dorsal curvature poorly marked; elytral pattern of mainly longitudinal yellow and brown strips; vertex 1.94 times as wide as diameter of eye; pronotum widest just posterior to midpoint; pronotal disc bearing shallow but distinct median groove; elytral shape; elytral striae consisting of separated punctures forming the grooves on posterior half only; ovipositor with dorsal hemisterna very thin and strongly curved, anterior margin between styli barely arcuately projecting, and distance between styli equal to twice their length (*X. jelineki* has body 2.37 times as long as wide at base of elytra; dorsal curvature well marked resembling *Paracmaeodera*; elytral pattern consists of separated and longitudinally jointing yellow marking on brown background; vertex 1.40–1.47 times as wide as diameter of eye; pronotum widest at the base, without any trace of median line or groove; elytral striae forming the grooves from the base; ovipositor with dorsal

hemisterna thick and poorly curved, anterior margin between styli markedly angularly projecting, and distance between styli equal to their length. *X. philistina* (Marseul, 1865), *X. pantherina* Bílý, 1979 (both occur in Israel), and *X. flavipennis* (Klug, 1829) (occurs in Sinai) differ in having elytra mainly yellow with obscure spots or regular longitudinal stripes; pubescence consisting of lanceolate-oval scales on the pronotal sides and at least on the sides of abdomen which completely conceal the sculpture, and hair-like ones on pronotal disc and elytra; ovipositors of another structure; *X. flavipennis* differs also in having pronotal sides and abdomen yellow.

Acmaeoderella Cobos, 1955

21. *Acmaeoderella (Liogastris) chrysanthemii chrysanthemii* (Chevrolat, 1854)

LOCATION: *Har Hermon*: Mezudat Nimrod, 16 km ENE of Qiryat Shemona, 26, 27.vii.1996, Volkovitsh and Dolgovskaya. *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 22–24.vii.1996, Volkovitsh and Dolgovskaya; HaYarden (Jordan) river, 2 km NE of Karkom, 6.v.1994, Volkovitsh and Dolgovskaya. *Golan Heights*: 'En Divsha, 4 km S of Gonén, 5.v.1994, Volkovitsh and Dolgovskaya. *Karmel Ridge*: Har Karmel, Nahal Oren, 4 km SW of Bet Oren, 18–20.vii.1996, Volkovitsh and Dolgovskaya. 38 ex. on the flowers.

DISTRIBUTION: Bulgaria, Greece, Turkey, Cyprus, Syria, Lebanon, Israel, Jordan, Iraq, Saudi Arabia, Armenia, Azerbaijan.

22. *Acmaeoderella (Liogastris) sefrensis* (Pic, 1895) n.stat. and n. comb.

LOCATION: *Southern Negev*: Nahal Zin, 14 km NW of 'En Hazeva, 11.iv.1994, Volkovitsh and Dolgovskaya; Har Qetura, 4 km SE of Shizzafon, 14.iv.1994, Volkovitsh and Dolgovskaya. 7 ex. on flowers of *Asteriscus graveolens* and other yellow Asteraceae.

DISTRIBUTION: Israel, Egypt, Tunisia, Algeria, Morocco.

REMARKS: First record for Israel.

23. *Acmaeoderella (Liogastris) elegans miribella* (Obenberger, 1946) n.stat. and n. comb.

LOCATION: *Central Negev*: Nahal Nizzana, 14 km WSW of Mizpé Ramon, 18, 19.iv.1994, Volkovitsh and Dolgovskaya, Zaitzev. 11 ex. on flowers of yellow Asteraceae.

DISTRIBUTION: Israel, Jordan.

24. *Acmaeoderella (Liogastris) maculipennis* (Pic, 1897)

LOCATION: *Dead Sea Area*: Nahal Ze'elim, 4 km N of Horvot Mezada, 15.iv.1994, Volkovitsh and Dolgovskaya, Zaitzev; Nahal Zohar, 5 km NW of Newé Zohar, 20.iv.1994, Volkovitsh and Dolgovskaya; Nahal David, 'En Gedi env. ('En Gedi Reserve), 21.iv.1994, Zaitzev; Nahal 'Arugot, 'En Gedi env. (Nahal 'Arugot ha'illi Reserve), 22, 23.iv.1994, Zaitzev. *Central Negev*: Makhtesh Ramon, 8–14 km ENE of

Mizpé Ramon, 18.iv.1994, Volkovitsh and Dolgovskaya. *Southern Negev*: Nahal Hazera, Hamakhtesh Haqatan, 20 km ESE of Dimona, 13.iv.1994, Volkovitsh and Dolgovskaya; Nahal Zafit, 25 km ESE of Dimona, 13.iv.1994, Volkovitsh and Dolgovskaya; Har Qetura, 4 km SE of Shizzafon, 14.iv.1994, Volkovitsh and Dolgovskaya. 51 ex. on flowers of *Asteriscus graveolens* and other yellow Asteraceae.

DISTRIBUTION: Israel, Egypt, Tunisia, Algeria, Morocco.

HOST PLANTS: *Acacia* (Sahara: Mateu, 1972).

REMARKS: First record for Israel.

25a. *Acmaeoderella (Omphalothorax) adspersula adspersula* (Illiger, 1803)

LOCATION: *Har Hermon*: Mezudat Nimrod, 16 km ENE of Qiryat Shemona, 26, 27.vii.1996, Volkovitsh and Dolgovskaya, Zaitzev. *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 22–24.vii.1996, Volkovitsh and Dolgovskaya, Zaitzev. 110 ex. on flowers.

DISTRIBUTION: Portugal, Spain, France, Italy, the Balkans, Greece, Turkey, Cyprus, Syria, Israel, Jordan, Western Iran, Egypt, Tunisia, Algeria, Morocco.

HOST PLANTS: *Pistacia atlantica*, *P. vera*, *Retama raetam* (Israel: Halperin and Argaman, 2000); *Ephedra*, *Quercus*, *Castanea*, *Argania*, *Populus*, *Cistus*, *Ulmus*, *Celtis*, *Ficus*, *Thymelaea*, *Euphorbia*, *Sorbus*, *Prunus*, *Amygdalus*, *Ceratonia*, *Cytisus*, *Spartium*, *Genista*, *Acer*, *Zygophyllum*, *Rhus*, *Pistacia*, *Vitis*, *Launaea* (Palaeartic: Schaefer, 1949; Cobos, 1958; Tassi, 1967; Gobbi, 1986; V. Kubáň, G. Magnani).

25b. *Acmaeoderella (Omphalothorax) adspersula squamiplumis*
(Peyerimhoff, 1931)

LOCATION: *Dead Sea Area*: Nahal 'Arugot, 'En Gedi env. (Nahal 'Arugot ha'illi Reserve), 22, 23.iv.1994, Volkovitsh and Dolgovskaya. *Ha'arava Valley*: Zofar env., 6.iv.1994, Volkovitsh and Dolgovskaya. *Southern Negev*: Nahal Zihor, 26 km N of Shizzafon, 12.iv.1994, Volkovitsh and Dolgovskaya; Har Qetura, 4 km SE of Shizzafon, 14.iv.1994, Volkovitsh and Dolgovskaya. 11 ex. on flowers of *Asteriscus graveolens* and other yellow Asteraceae.

DISTRIBUTION: Israel, Tunisia, Algeria, Morocco.

HOST PLANTS: *Acacia*, *Ziziphus* (Sahara: Mateu, 1972).

26. *Acmaeoderella (Omphalothorax) densisquamis* (Abeille de Perrin, 1904)

LOCATION: *Har Hermon*: Mezudat Nimrod, 16 km ENE of Qiryat Shemona, 26, 27.vii.1996, Volkovitsh and Dolgovskaya, Zaitzev. *Central Negev*: Nahal Neqarot, 11 km SE of Mizpé Ramon, 7.vii.1996, Volkovitsh and Dolgovskaya; Nahal Gevanim, 9 km ESE of Mizpé Ramon, 7.vii.1996, Volkovitsh and Dolgovskaya; Hamakhtesh Hagadol, 12 km ESE of Yeroham, 11.vii.1996, Volkovitsh and Dolgovskaya. 6 ex. on yellow Asteraceae and other flowers.

DISTRIBUTION: Turkey, Israel, Jordan, Iraq.

HOST PLANTS: *Pistacia atlantica*, *P. vera*, *Ulmus* spp. (Israel: Halperin and Argaman, 2000).

27. *Acmaeoderella (Omphalothorax) arabica* Cobos, 1963 n.stat.

LOCATION: *Central Negev*: Nahal Neqarot, 11 km SE of Mizpé Ramon, 5.vii.1996, 7.vii.1996, Volkovitsh and Dolgovskaya, Zaitzev; Hamakhtesh Hagadol, 12 km ESE of Yeroham, 11.vii.1996, Volkovitsh and Dolgovskaya, Zaitzev. *Southern Negev*: Nahal Botem, 28 km NNW of Elat, 5.vii.1996, Volkovitsh and Dolgovskaya. 19 ex., in flight and on yellow Asteraceae.

DISTRIBUTION: Israel, Saudi Arabia, ?Iran.

28. *Acmaeoderella (Omphalothorax) longissima* (Abeille de Perrin, 1904)

LOCATION: *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 22–24.vii.1996, Volkovitsh and Dolgovskaya, 5 ex. on flowers.

DISTRIBUTION: Greece, Turkey, Cyprus, Israel, Iraq, Iran.

29. *Acmaeoderella (Omphalothorax) despecta* (Baudi, 1870)

LOCATION: *Har Hermon*: Mezudat Nimrod, 16 km ENE of Qiryat Shemona, 26, 27.vii.1996, Volkovitsh and Dolgovskaya. *Upper Galilee*: Nahal Hermon, 10 km E of Qiryat Shemona, 2, 3.v.1994, Volkovitsh and Dolgovskaya; HaYarden (Jordan) river, 2 km NE of Karkom, 6.v.1994, Volkovitsh and Dolgovskaya; Bar'am Reserve, Bar'am env., 11.v.1994, Volkovitsh; Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Volkovitsh; 22–24.vii.1996, Volkovitsh and Dolgovskaya. *Golan Heights*: 'En Divsha, 4 km S of Gonén, 5.v.1994, Volkovitsh and Dolgovskaya. *Judean Hills*: Yerushalayim (Jerusalem) west. env., 28.iv.1994, Volkovitsh and Dolgovskaya (ex larvae). 55 ex. Reared from dry branches of *Amygdalus* (Yerushalayim (Jerusalem) west. env., 1994); on flowers of yellow Asteraceae, Umbelliferae and others.

DISTRIBUTION: Turkey, Cyprus, Syria, Lebanon, Israel, Jordan, Iraq, Egypt.

HOST PLANTS: *Amygdalus* (Israel: M. Volkovitsh), *Pistacia atlantica*, *Rhus tripartita*, *Ulmus* spp. (Israel: Halperin and Argaman, 2000); *Ulmus*, *Ficus*, *Pistacia*, *Elaeagnus* (Palearctic: Knopf, 1971; S. Bílý, H. Knopf).

REMARKS: New larval host plants.

30. *Acmaeoderella (Omphalothorax) marcaisi* (Descarpentries and Mateu, 1967)

LOCATION: *Southern Negev*: Nahal Zefahot Nat. Res., Elat env. 2.vii.1996, Volkovitsh and Dolgovskaya, one live beetle extracted from dry *Acacia* trunk.

DISTRIBUTION: Israel, Yemen, Algeria.

HOST PLANTS: *Acacia* (Israel: M. Volkovitsh; Sahara: Mateu, 1972).

REMARKS: First record for Israel.

31. *Acmaeoderella (Carininota) farinosa* (Reiche, 1856)

LOCATION: *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Volkovitsh, Zaitzev; 22–24.vii.1996, Volkovitsh and Dolgovskaya. 16 ex., mainly on flowers of Umbelliferae, rarely on yellow Asteraceae.

DISTRIBUTION: Greece, Turkey, Cyprus, Syria, Israel.

HOST PLANTS: *Prunus* (Palearctic: *S. Bílý*).

REMARKS: First record for Israel.

32. *Acmaeoderella (Carininota) flavofasciata aequistriata* (Abeille de Perrin, 1904)

LOCATION: *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Volkovitsh, Zaitzev, Shibanova, Podlipaev; 22–24.vii.1996, Volkovitsh and Dolgovskaya. 137 ex. on flowers of Umbelliferae, *Scabiosa*, and others together with previous species but more abundant.

DISTRIBUTION: Eastern Turkey, Israel, Iraq, Iran.

HOST PLANTS: *Juniperus*, *Fagus*, *Quercus*, *Castanea*, *Juglans*, *Populus*, *Ulmus*, *Spiraea*, *Pyrus*, *Cotoneaster*, *Cerasus*, *Prunus*, *Amygdalus*, *Sophora*, *Robinia*, *Caragana*, *Astragalus (Tragacantha)*, *Acer*, *Elaeagnus* (Palearctic, different subspecies: Schaefer, 1949; Cobos, 1958, 1986; Tassi, 1967; Hellrigl, 1978a,b; Gobbi, 1986; M. Volkovitsh, S. Bílý, M. Kalashian, G. Magnani).

REMARKS: First record for Israel.

33. *Acmaeoderella (Acmaeoderella) elbursi* (Obenberger, 1924)

LOCATION: *Upper Galilee*: Nahal Hermon, 10 km E of Qiryat Shemona, 2, 3.v.1994, Volkovitsh and Dolgovskaya; HaYarden (Jordan) river, 2 km NE of Karkom, 6.v.1994, Volkovitsh and Dolgovskaya. *Golan Heights*: 'En Divsha, 4 km S of Gonén, 5.v.1994, Volkovitsh and Dolgovskaya, Zaitzev. 14 ex. on flowers of yellow Asteraceae.

DISTRIBUTION: Greece, Turkey, Cyprus, Syria, Lebanon, Israel, Jordan, Iraq, Iran, Armenia.

34. *Acmaeoderella (Acmaeoderella) stricta* (Abeille de Perrin, 1895)

LOCATION: *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Podlipaev, Volkovitsh. 5 ex. on flowers of Umbelliferae, *Scabiosa*.

DISTRIBUTION: Turkey, Syria, Israel, Jordan, Iraq, Iran, Armenia, Azerbaijan.

HOST PLANTS: *Onopordum* (Transcaucasia: M. Danilevsky).

35. *Acmaeoderella (Acmaeoderella) serricornis* (Abeille de Perrin, 1900)

LOCATION: *Har Hermon*: Har Hermon, 1750 m, 3 km NNW of Newé Ativ, 26.vii.1996, Volkovitsh and Dolgovskaya. *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 22–24.vii.1996, Volkovitsh and Dolgovskaya. 5 ex., collected by sweeping flowers.

DISTRIBUTION: Turkey, Syria, Israel, Jordan, Iraq, Armenia, Azerbaijan.

HOST PLANTS: *Marrubium* (Iraq: H. Knopf).

36. *Acmaeoderella (Acmaeoderella) jonica* (Obenberger, 1934)

LOCATION: *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 22–24.vii.1996, Volkovitsh and Dolgovskaya, 9 ex., collected by sweeping flowers.

DISTRIBUTION: Albania, Greece, Turkey, Israel.

REMARKS: First record for Israel.

37. *Acmaeoderella (Acmaeoderella) fulvinaeva* (Reitter, 1890)

LOCATION: *Central Negev*: Nahal Neqarot, 11 km SE of Mizpé Ramon, 17.iv.1994, Volkovitsh and Dolgovskaya. *Southern Negev*: Nahal Zin, 14 km NW of 'En Hazeva, 11.iv.1994, Volkovitsh and Dolgovskaya; Har Qetura, 4 km SE of Shizzafon, 14.iv.1994, Volkovitsh and Dolgovskaya. 7 ex. on flowers of *Asteriscus graveolens* and other yellow Asteraceae.

DISTRIBUTION: Turkey, Israel, Iraq, Armenia, Azerbaijan.

REMARKS: First record for Israel.

38. *Acmaeoderella (Euacmaeoderella) gibbulosa* (Ménétriés, 1832)

LOCATION: *Har Hermon*: Mezudat Nimrod, 16 km ENE of Qiryat Shemona, 26, 27.vii.1996, Volkovitsh and Dolgovskaya. *Upper Galilee*: Nahal Hermon, 10 km E of Qiryat Shemona, 2, 3.v.1994, Volkovitsh and Dolgovskaya; HaYarden (Jordan) river, 2 km NE of Karkom, 6.v.1994, Volkovitsh and Dolgovskaya; Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Volkovitsh; 22–24.vii.1996, Volkovitsh and Dolgovskaya. *Golan Heights*: 'En Divsha, 4 km S of Gonén, 5.v.1994, Volkovitsh and Dolgovskaya, Zaitzev. 18 ex. on flowers of Umbelliferae and others.

DISTRIBUTION: The Balkans, Greece, Turkey, Cyprus, Syria, Lebanon, Israel, Jordan, Iraq, Iran, Southern Ukraine, Southern Russia, Armenia, Azerbaijan, Turkmenistan, Kazakhstan.

HOST PLANTS: *Onopordum*, *Prangos*, *Ferula*, *Malabalia*, *Zosima*, *Chondrilla* (Palearctic: M. Kalashian, Volkovitsh and Alexeev, 1994).

39. *Acmaeoderella (Euacmaeoderella) lanuginosa lanuginosa* (Gyllenhal, 1817)

LOCATION: *Upper Galilee*: Nahal Hermon, 10 km E of Qiryat Shemona, 2, 3.v.1994, Volkovitsh and Dolgovskaya. *Golan Heights*: 'En Divsha, 4 km S of Gonén, 5.v.1994, Shibanova, Volkovitsh and Dolgovskaya, Zaitzev. *Central Negev*: 'Avedat, 20.iv.1994, Volkovitsh and Dolgovskaya. 47 ex. on flowers of Umbelliferae and yellow Asteraceae.

DISTRIBUTION: Spain, France, Italy, Greece, Israel, Jordan, Iraq, Egypt, Sinai, Libya, Tunisia, Algeria, Morocco.

HOST PLANTS: *Ferula communis* (Israel: Halperin and Argaman, 2000); ?*Thapsia*, *Onopordum* (Palearctic: Schaefer, 1951; Cobos, 1986).

40. *Acmaeoderella (Euacmaeoderella) villosula* (Steven, 1830)

LOCATION: *Har Hermon*: Mezudat Nimrod, 16 km ENE of Qiryat Shemona, 7, 10.v.1994; 26, 27.vii.1996, Volkovitsh and Dolgovskaya. *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Volkovitsh, Zaitzev, Podlipaev; 22–24.vii.1996, Volkovitsh and Dolgovskaya; Bar'am Reserve, Bar'am env., 11.v.1994, Volkovitsh, Zaitzev; Nahal Hermon, 10 km E of Qiryat Shemona, 2, 3.v.1994, Volkovitsh and Dolgovskaya; HaYarden (Jordan) river, 2 km NE of Karkom, 6.v.1994, Volkovitsh and Dolgovskaya. *Golan Heights*: Horbat Panyas, 3.v.1994, Chikatunov; 'En Divsha, 4 km S of Gonén, 5.v.1994, Volkovitsh and Dolgovskaya. *Central Negev*: Nahal Nizzana, 14 km WSW of Mizpé Ramon, 18, 19.iv.1994, Volkovitsh and Dolgovskaya. 79 ex., mainly on flowers of Umbelliferae, more rarely on *Scabiosa* and yellow Asteraceae.

DISTRIBUTION: Bulgaria, Greece, Turkey, Cyprus, Syria, Lebanon, Jordan, Israel, Egypt, Sinai, Iraq, Iran, Afghanistan, Georgia, Armenia, Azerbaijan, Turkmenistan, Tadjikistan.

HOST PLANTS: *Ferula*, *Malabalia*, *Zosima* (Palearctic: M. Kalashian; Volkovitsh and Alexeev, 1994).

41. *Acmaeoderella (Euacmaeoderella) judaeorum* (Obenberger, 1914)

LOCATION: *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Volkovitsh. 11 ex., mainly on flowers of Umbelliferae and *Scabiosa* together with previous species.

DISTRIBUTION: Syria, Israel, Jordan.

42. *Acmaeoderella (Euacmaeoderella) squamosa* (Théry, 1912)

LOCATION: *Dead Sea Area*: Nahal Ze'elim, 4 km N of Horvot Mezada, 15.iv.1994, Volkovitsh and Dolgovskaya; Nahal Zohar, 5 km NW of Newé Zohar, 20.iv.1994, Volkovitsh and Dolgovskaya; Nahal 'Arugot, 'En Gedi env. (Nahal 'Arugot ha'illi Reserve), 22, 23.iv.1994, Volkovitsh and Dolgovskaya, Zaitzev; Nahal Qidron, 25 km NNE of 'En Gedi. (Mezuqe haHe'teqim Reserve), 24.iv.1994, Volkovitsh and Dolgovskaya. *Central Negev*: Nahal Neqarot, 11 km SE of Mizpé Ramon, 17.iv.1994, Volkovitsh and Dolgovskaya, Zaitzev; Makhtésh Ramon, 8–14 km ENE of Mizpé Ramon, 18.iv.1994, Volkovitsh and Dolgovskaya. *Southern Negev*: Nahal Zin, 14 km NW of 'En Hazeva, 11.iv.1994, Volkovitsh and Dolgovskaya; Nahal Zihor, 26 km N of Shizzafon, 12.iv.1994, Volkovitsh and Dolgovskaya; Har Qetura, 4 km SE of Shizzafon, 14.iv.1994, Volkovitsh and Dolgovskaya, Zaitzev. 64 ex. on flowers of *Asteriscus graveolens*, *Aaransonia factorovskyi*, *Pulicaria incisa*, and other yellow Asteraceae.

DISTRIBUTION: Syria, Israel, Egypt, Iraq, Saudi Arabia.

43. *Acmaeoderella (Euacmaeoderella) nivifera cheopis* (Obenberger, 1934)

LOCATION: *Southern Negev*: Elat env., 7.iv.1994, Volkovitsh and Dolgovskaya; Har Hizqiyyahu, 800 m, 12 km NW of Elat, 9.iv.1994, Volkovitsh and Dolgovskaya; Har Qetura, 4 km SE of Shizzafon, 14.iv.1994, Volkovitsh and Dolgovskaya. 5 ex. on flowers of *Asteriscus graveolens* and other yellow Asteraceae.

DISTRIBUTION: Israel, Egypt.

POLYCTESINI Cobos, 1955

Polyctesis Marseul, 1865

44. *Polyctesis rhois* Marseul, 1865

LOCATION: *Har Hermon*: Mezudat Nimrod, 16 km ENE of Qiryat Shemona, 10. v.1994, Volkovitsh (ex larva). *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Volkovitsh (ex larva); 22–24.vii.1996, Volkovitsh and Dolgovskaya. 7 ex. Larvae collected inside the wood of thick branches and small trunks of *Rhus coriaria* L., beetles on *Rhus* leaves.

DISTRIBUTION: Turkey, Cyprus, Syria, Israel.

HOST PLANTS: *Rhus coriaria* (Israel: Halperin and Argaman, 2000; M. Volkovitsh).

CHRYSOCHROINAE Laporte, 1835

PARATASSINI Bílý & Volkovitsh, 1996

Paratassa Marseul, 1882

45. *Paratassa acuminata* Bílý & Volkovitsh, 1996

LOCATION: *Dead Sea Area*: Naḥal 'Arugot, 'En Gedi env. (Naḥal 'Arugot ha'illi Reserve), 22, 23.iv.1994, Volkovitsh and Dolgovskaya (allotype). *Southern Negev*: Har Qetura, 4 km SE of Shizzafon, 4.vii.1996, Volkovitsh and Dolgovskaya (2 paratypes). 4 ex. Caught in flight around *Atriplex* shrubs.

DISTRIBUTION: Israel, Sinai.

CHRYSOCHROINI Laporte, 1835

Steraspis Dejean, 1835

46. *Steraspis squamosa* (Klug, 1829)

LOCATION: *Dead Sea Area*: Naḥal Amazyahu, Ne'ot Hakikkar env., 16.iv.1994, Volkovitsh and Dolgovskaya. *Central Negev*: Naḥal Neqarot, 11 km SE of Mizpé Ramon, 17.iv.1994, Zaitzev; 'Avedat, 20.iv.1994, Volkovitsh and Dolgovskaya. *Southern Negev*: Elat env., 7.iv.1994, Zaitzev; Naḥal Shelomo, 5 km W of Elat, 8.iv.1994, Volkovitsh and Dolgovskaya; Naḥal Zihor, 26 km N of Shizzafon, 12.iv.1994, Volkovitsh and Dolgovskaya. 12 ex., collected by beating and sweeping *Tamarix* and *Acacia*.

DISTRIBUTION: Syria, Israel, Jordan, Egypt, Sinai, Algeria, Morocco, Sudan, Senegal, Chad.

HOST PLANTS: *Tamarix* (Israel: Bytinski-Salz, 1954; Halperin and Argaman, 2000).

Chalcophorella Kerremans, 1903

47. *Chalcophorella stigmatica* (Schoenherr, 1817)

LOCATION: *Har Hermon*: Mezudat Nimrod, 16 km ENE of Qiryat Shemona, 10. v.1994, Volkovitsh (ex larva). *Upper Galilee*: Nahal Hermon, 10 km E of Qiryat Shemona, 2, 3.v.1994, Volkovitsh and Dolgovskaya. 9 ex., collected by beating and sweeping *Amygdalus*.

DISTRIBUTION: Sardinia, the Balkans, Greece, Turkey, Cyprus, Syria, Lebanon, Israel, Jordan, Egypt, Iran, ?Georgia.

HOST PLANTS: *Amygdalus*, *Prunus* spp. (Israel: Bodenheimer, 1930; Halperin and Argaman, 2000), *Quercus* (Jordan: Katheh-Bader, 1996).

DICERCINI Gistel, 1848

Lampetis Dejean, 1833

48. *Lampetis (Lampetis) mimosae* (Klug, 1829)

LOCATION: *Dead Sea Area*: Nahal Amazyahu, Ne'ot Hakikkar env., 16.iv.1994, Volkovitsh and Dolgovskaya; Nahal Tamar, 4 km NNW of 'En Tamar, 16.iv.1994, Volkovitsh and Dolgovskaya. *Northern Negev*: Shadmot Shezaf 20km WSW of Ashalim, 8.vii.1996, Zaitzev. *Central Negev*: Nahal Nizzana, 14 km WSW of Mizpe Ramon, 18, 19.iv.1994, Volkovitsh and Dolgovskaya. *Southern Negev*: Elat env., 7.iv.1994, Zaitzev; Har Hizqiyahu, 800 m, 12 km NW of Elat, 9.iv.1994, Volkovitsh and Dolgovskaya; Nahal Zin, 14 km NW of 'En Hazeva, 11.iv.1994, Volkovitsh and Dolgovskaya. 9 ex., collected by beating and sweeping *Acacia*, *Calligonum*, *Tamarix*.

DISTRIBUTION: Syria, Israel, Egypt, Sinai, Saudi Arabia, Iran, Libya, Tunisia, Algeria, Ethiopia, Sudan, Chad.

HOST PLANTS: *Zygophyllum*, ?*Balanites*, *Calligonum commosum*, *Casuarina cunninghamiana*, *Prosopis farcta*, *Tamarix* spp. (Israel: Bytinski-Salz, 1954, Halperin and Argaman, 2000; Egypt: Lotte, 1943).

Capnodis Eschscholtz, 1829

49. *Capnodis cariosa cariosa* (Pallas, 1776)

LOCATION: *Karmel Ridge*: Har Karmel, Har Sumaq, 5 km SSE of Dāliyat el Karmil, 20.vii.1996, Shibanova; Har Karmel, Nahal Me'arot, 10 km S of Tirat Karmel, 21.vii.1996, Volkovitsh and Dolgovskaya. 3 ex. on flight and sweeping *Pistacia lentiscus*.

DISTRIBUTION: Italia, the Balkans, southeast Europe, Greece, Turkey, Syria, Israel, Jordan, Iran, southern Russia, Georgia, Armenia, Azerbaijan.

HOST PLANTS: *Schinus molle*, *Pistacia vera*, *P. lentiscus* (Israel: Bodenheimer, 1930; Richter, 1952; Hellrigl, 1978a; Halperin and Argaman, 2000).

50. *Capnodis excisa alfieri* Théry, 1929

LOCATION: *Dead Sea Area*: Nahal Amazyahu, Ne'ot Hakikkar env., 16.iv.1994, Volkovitsh and Dolgovskaya. *Ha'arava Valley*: 9 km SW of Yabel, 3.vii.1996, Shibanova. 3 ex., collected by beating and sweeping *Calligonum*.

DISTRIBUTION: Israel, Sinai, Saudi Arabia.

HOST PLANTS: *Calligonum commosum* (Israel: Halperin and Argaman, 2000).

***Perotis* Dejean, 1833**

51. *Perotis chlorana* (Laporte and Gory, 1836)

LOCATION: *Upper Galilee*: Shear Yashuv, 7 km ENE of Qiryat Shemona, 25–28.7.1996, Volkovitsh and Dolgovskaya (dead specimen). *Golan Heights*: Har Odem, 16 km E of Qiryat Shemona, 3.v.1994, Zaitzev. 2 ex. on trunk of *Quercus*.

DISTRIBUTION: Greece, Turkey, Cyprus, Syria, Lebanon, Israel, Jordan, southern Iran.

HOST PLANTS: *Cupressus* spp., *Quercus* spp., *Pyrus communis*, *Amygdalus*, *Prunus*, *Punica*, *Casuarina* (Israel: Bodenheimer, 1930; Halperin and Argaman, 2000).

SPHENOPTERINI Lacordaire, 1857

***Sphenoptera* Dejean, 1833**

REMARKS: This large genus, comprising several hundred species that were described from the Palearctic region alone, presents a great problem for taxonomists. Because of the lack of modern taxonomic revision, review, or reliable keys, the only way to determine *Sphenoptera* species is by comparison with type specimens, which are scattered in many collections around the world. This often tends to be confusing, since many species have been frequently redescribed by different authors under different names. My identifications, which are based mainly on the type specimens of Jakovlev (ZIN) and Obenberger (NMPC), were compared with identifications made by Dr. M. Niehuis, who determined *Sphenoptera* species from Israel using the type specimens of Abeille de Perrin, Théry, Descarpentries (MNHN), and other authors. In some instances a consensus was achieved, but sometimes the identifications resulted in debates. For this reason, the names of *Sphenoptera* species are followed by those in accordance with Dr. M. Niehuis's opinion and supposed synonymy.

52. *Sphenoptera (Sphenoptera) ?coracina* (Steven, 1829)

LOCATION: *Southern Negev*: Har Qetura, 4 km SE of Shizzafon, 14.iv.1994, Volkovitsh and Dolgovskaya. The fragments of beetle under *Astragalus* sp.

DISTRIBUTION: The Balkans, Greece, Turkey, Syria, Lebanon, Israel, Iraq, Southern Ukraine, Southern Russia, Armenia, Azerbaijan.

HOST PLANTS: *Astragalus (Tragacantha)* (Palearctic: M. Kalashian, M. Volkovitsh).

53. *Sphenoptera (Deudora) anxia* Jakovlev, 1900

?= *smyrneensis* Gory, 1841; *congrua* Jakovlev, 1900; *inconspicua* Jakovlev, 1900; *captiosa* Jakovlev, 1902.

LOCATION: *Har Hermon*: Mezudat Nimrod, 16 km ENE of Qiryat Shemona, 7.v.1994, Volkovitsh and Dolgovskaya; *Har Hermon*, 1750 m, 21 km NE of Qiryat Shemona, 10.v.1994, Zaitzev. *Upper Galilee*: *Har Meron*, 7–11 km WNW of Zefat, 12–17.v.1994, Volkovitsh. 4 ex., collected by sweeping tall herbs; on ground.

DISTRIBUTION: Turkey, Israel.

REMARKS: First record for Israel.

54. *Sphenoptera (?Chilostetha) liauteyi* Obenberger, 1924

?= *puta* Marseul, 1865; *paradoxa* Abeille de Perrin, 1898.

LOCATION: *Dead Sea Area*: Nahal Ze'elim, 4 km N of Horvot Mezada, 15.iv.1994, Volkovitsh and Dolgovskaya, 2 ex., collected by sweeping *Salsola vermiculata*.

DISTRIBUTION: Israel, Algeria.

55. *Sphenoptera (Chilostetha) halperini* Niehuis, 2001

LOCATION: *Har Hermon*: *Har Hermon*, 1750 m, 3 km NNW of Newé Ativ, 26.vii.1996, Volkovitsh and Dolgovskaya, 1 specimen, in flight.

DISTRIBUTION: Israel.

56. *Sphenoptera (Chilostetha) impressifrons* Fairmaire, 1874

= *excisa* Jakovlev, 1887; *dongolensis*: Théry, 1928 (nec Klug, 1829).

LOCATION: *Dead Sea Area*: Nahal Ze'elim, 4 km N of Horvot Mezada, 13.vii.1996, Volkovitsh and Dolgovskaya. *Central Negev*: Nahal Nizzana, 14 km WSW of Mizpe Ramon, 6.vii.1996, Volkovitsh and Dolgovskaya. 2 ex., collected by sweeping *Artemisia* and *Atriplex*.

DISTRIBUTION: Israel, Egypt, Algeria, Tunisia, Lybia, Marocco, Ethiopia, Sudan, Spain, Sardinia.

57. *Sphenoptera (Chrysoblemma) rotundicollis* Laporte and Gory, 1839

LOCATION: *Southern Negev*: *Har Qetura*, 4 km SE of Shizzafon, 4.vii.1996, Volkovitsh and Dolgovskaya, 2 ex., collected by sweeping *Atriplex*.

DISTRIBUTION: Israel, Egypt, Tunisia, Algeria.

58. *Sphenoptera (Chrysoblemma) scovitzi alfierii* Obenberger, 1923

LOCATION: *Central Negev*: Hamakhtesh Hagadol, 12 km ESE of Yeroham, 8.vii.1996, Volkovitsh and Dolgovskaya, 2 ex., collected by sweeping *Tamarix*.

DISTRIBUTION: Israel, Sinai, Egypt.

HOST PLANTS: *Climacoptera*, *Salsola* (roots) (Turkmenistan, *S. s. scovitzii*: Kaplin, 1981).

59. *Sphenoptera (Chrysoblemma) parumpunctata* (Klug, 1829)

LOCATION: *Central Negev*: Nahal Nizzana, 14 km WSW of Mizpé Ramon, 6.vii.1996, Volkovitsh and Dolgovskaya; Hamakhtesh Hagadol, 12 km ESE of Yeroham, 8, 11.vii.1996, Volkovitsh and Dolgovskaya. 9 ex., collected by sweeping shrubs.

DISTRIBUTION: Israel, Sinai, Egypt, Saudi Arabia, Algeria, Chad.

60. *Sphenoptera (Chrysoblemma) houskai* Obenberger, 1946

LOCATION: *Central Negev*: Hamakhtesh Hagadol, 12 km ESE of Yeroham, 11.vii.1996, Volkovitsh and Dolgovskaya, 5 ex., collected by sweeping shrubs.

DISTRIBUTION: Israel.

61. *Sphenoptera (Chrysoblemma) mauretanica* Théry, 1928

LOCATION: *Ha'arava Valley*: 9 km SW of Yahel, 3.vii.1996, Volkovitsh and Dolgovskaya, 5 ex., collected by sweeping *Calligonum*.

DISTRIBUTION: Israel, Sinai, Egypt, Tunisia, Chad.

Host plants: *Tamarix*, *Salsola* (Sahara: Thery, 1928; Descarpentries and Bruneau de Miré, 1963).

**62. *Sphenoptera (Chrysoblemma) quezeli* Descarpentries and Bruneau de Miré, 1963
?= *cornui* Théry, 1895.**

LOCATION: *Dead Sea Area*: Mizpé Shalém env., 12.vii.1996, Volkovitsh and Dolgovskaya; 'En Gedi, Dead Sea Coast, 13.vii.1996, Volkovitsh and Dolgovskaya; Nahal David, 'En Gedi env. ('En Gedi Reserve), 9.vii.1996, Volkovitsh and Dolgovskaya; Nahal Ze'elim, 4 km N of Horvot Mezada, 10, 13.vii.1996, Volkovitsh and Dolgovskaya. *Central Negev*: Hamakhtesh Hagadol, 12 km ESE of Yeroham, 11.vii.1996, Volkovitsh and Dolgovskaya. *Ha'arava Valley*: 9 km SW of Yahel, 3.vii.1996, Volkovitsh and Dolgovskaya. *Southern Negev*: Nahal Botem, 28 km NNW of Elat, 5.vii.1996, Volkovitsh and Dolgovskaya. 18 ex., collected by sweeping *Tamarix*.

DISTRIBUTION: Israel, Algeria, Chad.

REMARKS: First record for Israel.

63. *Sphenoptera (Hoplistura) arabica* Gory, 1841

LOCATION: *Dead Sea Area*: Nahal 'Arugot, 'En Gedi env. (Nahal 'Arugot ha'illi Reserve), 22, 23.iv.1994, Volkovitsh and Dolgovskaya. One specimen collected by beating

and sweeping *Acacia*; numerous fragments of beetles and larvae were found in branches and trunks of *Moringa peregrina*.

DISTRIBUTION: Israel, Egypt, Saudi Arabia, Sudan.

HOST PLANTS: *Moringa peregrina* (Israel: Halperin and Argaman, 2000).

64. *Sphenoptera (Tropeopeltis) tappesi* Marseul, 1865

LOCATION: *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Podlipaev, Volkovitsh. 3 ex., collected by beating and sweeping trees and shrubs.

DISTRIBUTION: Greece, Turkey, Syria, Israel, Egypt.

HOST PLANTS: *Rosa* sp., *Armeniaca*, *Persica*, *Prunus* (Israel: Halperin and Argaman, 2000; Egypt: Alfieri, 1976).

BUPRESTINAE Leach, 1815

ANTHAXIINI Gory & Laporte, 1839

Chalcogenia Saunders, 1871

65. *Chalcogenia halperini* Volkovitsh and Bílý, 1997

LOCATION: *Dead Sea Area*: Nahal David, 'En Gedi env. ('En Gedi Reserve), 21.iv.1994, Volkovitsh and Dolgovskaya (fragments). *Southern Negev*: Nahal Shelomo, 5 km W of Elat, 8.iv.1994, Volkovitsh and Dolgovskaya (Holotype, 1 Paratype); Nahal Zefahot Nat. Res., Elat env. 2.vii.1996, Volkovitsh and Dolgovskaya (dead beetle from *Acacia* wood); Elat env., Field School, 1–4.vii.1996, Volkovitsh and Dolgovskaya (dead beetle from *Acacia* wood); Har Hizqiyahu, 800 m, 12 km NW of Elat, 9.iv.1994, Volkovitsh and Dolgovskaya (1 Paratype). 3 ex., collected by beating and sweeping *Acacia*, numerous fragments of beetles extracted from trunks and branches of *Acacia*.

DISTRIBUTION: Israel, Jordan, Sinai.

HOST PLANTS: *Acacia* spp. (Israel: Bytinski-Salz, 1954, as *theryi* Ab.; Volkovitsh and Bílý, 1997; Halperin and Argaman, 2000).

Anthaxia Eschscholtz, 1829

66. *Anthaxia (Cratomerus) sponsa* Kiesenwetter, 1857

LOCATION: *Har Hermon*: Mezudat Nimrod, 16 km ENE of Qiryat Shemona, 4, 7, 10.v.1994, Volkovitsh and Dolgovskaya. *Upper Galilee*: Nahal Keziv, 'Avdon env., 15.v.1994, Volkovitsh; Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Volkovitsh, Zaitzev, Shibanova; Bar'am Reserve, Bar'am env., 11.v.1994, Volkovitsh; Nahal Hermon, 10 km E of Qiryat Shemona, 2, 3.v.1994, Volkovitsh and Dolgovskaya. *Golan Heights*: Har Odem, 16 km E of Qiryat Shemona, 3.v.1994, Zaitzev, Shibanova. *Central Negev*: Nahal Nizzana, 14 km WSW of Mizpé Ramon, 18, 19.iv.1994, Volkovitsh and Dolgovskaya. 149 ex. on flowers of yellow Asteraceae and others; most abundant species.

DISTRIBUTION: Bulgaria, Greece, Turkey, Syria, Lebanon, Israel, Jordan, Iran, Georgia, Armenia, Azerbaijan, Turkmenistan.

HOST PLANTS: *Quercus calliprinos*, *Q. ithaburensis*, *Pistacia* spp. (Israel: Bytinski-Salz and Sternlicht, 1967, *A. nupta* errat.; Halperin and Argaman, 2000); *Quercus*, *Juglans*, *Prunus* (Palearctic: Soldatova, 1970; Bílý, 1980).

67. *Anthaxia (Cratomerus) violacea* Bílý, 1977

LOCATION: *Har Hermon*: Mezudat Nimrod, 16 km ENE of Qiryat Shemona, 4, 7, 10.v.1994, Volkovitsh and Dolgovskaya. *Upper Galilee*: Nahal Hermon, 10 km E of Qiryat Shemona, 2, 3.v.1994, Volkovitsh and Dolgovskaya; Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Volkovitsh. *Golan Heights*: Har Odem, 16 km E of Qiryat Shemona, 3.v.1994, Zaitzev, Shibanova. 14 ex., mainly on flowers of yellow Asteraceae together with previous species.

DISTRIBUTION: Israel.

68. *Anthaxia (Cratomerus) eugeniae halperini* Niehuis, 1993

LOCATION: *Har Hermon*: Mezudat Nimrod, 16 km ENE of Qiryat Shemona, 4, 7, 10.v.1994, Volkovitsh and Dolgovskaya; Har Hermon, 1750 m, 21 km NE of Qiryat Shemona, 10.v.1994, Volkovitsh. *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Volkovitsh. *Golan Heights*: Har Odem, 16 km E of Qiryat Shemona, 3.v.1994, Zaitzev. 22 ex. on flowers of yellow Asteraceae and others.

HOST PLANTS: *Quercus calliprinos*, *Ulmus* spp. (Israel: Halperin and Argaman, 2000).

DISTRIBUTION: Israel.

69. *Anthaxia (Cratomerus) diadema diadema* (Fisher, 1823)

LOCATION: *Har Hermon*: Mezudat Nimrod, 16 km ENE of Qiryat Shemona, 4, 7, 10.v.1994, Volkovitsh and Dolgovskaya. *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Volkovitsh, Zaitzev; 22–24.vii.1996, Volkovitsh and Dolgovskaya; Bar'am Reserve, Bar'am env., 11.v.1994, Volkovitsh; Nahal Hermon, 10 km E of Qiryat Shemona, 2, 3.v.1994, Volkovitsh and Dolgovskaya; HaYarden (Jordan) river, 2 km NE of Karkom, 6.v.1994, Volkovitsh and Dolgovskaya. *Golan Heights*: 'En Divsha, 4 km S of Gonén, 5.v.1994, Volkovitsh and Dolgovskaya. 94 ex. on flowers of yellow Asteraceae and others.

DISTRIBUTION: Southeastern Europe, the Balkans, Greece, Turkey, Cyprus, Syria, Lebanon, Israel, Iraq, Southern Ukraine, Southern Russia.

HOST PLANTS: *Quercus calliprinos*, *Q. ithaburensis*, *Acacia saligna*, *Casuarina cunninghamiana*, *Eriobotrya japonica*, *Eucalyptus occidentalis*, *Pyracantha fortuneana*, *Pyrus communis*, *Ulmus pumila*, *Ziziphus spina-christi* (Israel: Bytinski-Salz and Sternlicht, 1967; Halperin and Argaman, 2000), *Populus*, *Salix* (Palearctic: Bílý, 1980).

70. *Anthaxia (Haplanthaxia) kiesenwetteri* Marseul, 1865

LOCATION: *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Volkovitsh. 3 ex. on flowers of yellow Asteraceae.

HOST PLANTS: *Prunus armeniaca* (Israel: Halperin and Argaman, 2000).

DISTRIBUTION: The Balkans, Greece, Turkey, Cyprus, Syria, Israel, Iraq, Georgia.

71. *Anthaxia (Haplanthaxia) marginifera metallescens* Bílý, 1999

LOCATION: *Southern Negev*: Nahal Zefahot Nat. Res., Elat env. 2.vii.1996, Volkovitsh and Dolgovskaya (2 dead beetles from *Acacia* wood). *Dead Sea Area*: Nahal Ze'elim, 4 km N of Horvot Mezada, 13.vii.1996, Volkovitsh and Dolgovskaya. 3 ex., one specimen collected on *Atriplex*.

DISTRIBUTION: Israel, Saudi Arabia.

HOST PLANTS: *Acacia gerrardii negevensis* (Israel: Halperin and Argaman, 2000; M. Volkovitsh; Sahara: Mateu, 1972, *Anthaxia m. marginifera*).

72. *Anthaxia (Haplanthaxia) moises* Obenberger, 1921

LOCATION: *Dead Sea Area*: Nahal Ze'elim, 4 km N of Horvot Mezada, 15.iv.1994, Volkovitsh and Dolgovskaya; Nahal 'Arugot, 'En Gedi env. (Nahal 'Arugot ha'illi Reserve), 22, 23.iv.1994, Volkovitsh and Dolgovskaya. *Central Negev*: 'Avedat, 20.iv.1994, Volkovitsh and Dolgovskaya. *Southern Negev*: Har Hizqiyahu, 800 m, 12 km NW of Elat, 9.iv.1994, Volkovitsh and Dolgovskaya; Nahal Zin, 14 km NW of 'En Hazeva, 11.iv.1994, Volkovitsh and Dolgovskaya. 10 ex. on flowers of *Aaransonia factorovskyi*, *Pulicaria incisa*, and other yellow Asteraceae.

DISTRIBUTION: Syria, Lebanon, Israel, Jordan (Bílý, 1997).

HOST PLANTS: *Acacia* (Israel: Bytinski-Salz, 1954).

73. *Anthaxia (Haplanthaxia) palaestinensis* Obenberger, 1946

LOCATION: *Dead Sea Area*: Nahal 'Arugot, 'En Gedi env. (Nahal 'Arugot ha'illi Reserve), 22, 23.iv.1994, Volkovitsh and Dolgovskaya. 6 ex. on flowers of *Pulicaria incisa*, *Aaransonia factorovskyi*.

HOST PLANTS: *Ficus pseudosycamoros*, *Tamarix jordanis* (Israel: Halperin and Argaman, 2000).

DISTRIBUTION: Syria, Israel (Bílý, 1997).

74. *Anthaxia (Haplanthaxia) kneuckeri* Obenberger, 1920

LOCATION: *Dead Sea Area*: Nahal David, 'En Gedi env. ('En Gedi Reserve), 21.iv.1994, Volkovitsh and Dolgovskaya; Nahal 'Arugot, 'En Gedi env. (Nahal 'Arugot ha'illi Reserve), 22, 23.iv.1994, Volkovitsh and Dolgovskaya; Nahal Tamar, 4 km NNW of 'En Tamar, 16.iv.1994, Volkovitsh and Dolgovskaya; *Central Negev*: Nahal Neqarot,

11 km SE of Mizpé Ramon, 5.vii.1996, 7.vii.1996, Volkovitsh and Dolgovskaya; Naḥal Gevanim, 9 km ESE of Mizpé Ramon, 7.vii.1996, Volkovitsh and Dolgovskaya. *Ha'arava Valley*: Naḥal Omer, Zofar distr., 12.iv.1994, Volkovitsh and Dolgovskaya; Sappir env., 30.vi.–1.vii.1996, Volkovitsh and Dolgovskaya. *Southern Negev*: Naḥal Zihor, 26 km N of Shizzafon, 12.iv.1994, Volkovitsh and Dolgovskaya; Naḥal Zefahot Nat.Res., Elat env. 2.vii.1996, Volkovitsh and Dolgovskaya; Har Qetura, 4 km SE of Shizzafon, 4.vii.1996, Volkovitsh and Dolgovskaya (dead beetle from *Acacia* wood). 27 ex., collected by beating and sweeping *Acacia*.

DISTRIBUTION: Israel, Sinai, Jordan, Saudi Arabia.

HOST PLANTS: *Acacia* spp. (Israel: Halperin and Argaman, 2000; M. Volkovitsh), *A. tortilis* (Saudi Arabia: Bílý, 1979).

75. *Anthaxia (Haplanthaxia) abdita* Bílý, 1982

LOCATION: *Ha'arava Valley*: 9 km SW of Yahel, 3.vii.1996, Volkovitsh and Dolgovskaya. *Southern Negev*: Naḥal Zefahot Nat. Res., Elat env. 2.vii.1996, Volkovitsh and Dolgovskaya. 17 ex., collected by sweeping and beating *Acacia*, sweeping yellow Asteraceae.

HOST PLANTS: *Acacia* sp., *Ficus carica*, *Prosopis farcta* (Israel: Halperin and Argaman, 2000).

DISTRIBUTION: Israel, Jordan, Saudi Arabia (Bílý, 1997).

76. *Anthaxia (Haplanthaxia) millefolii polychloros* Abeille de Perrin, 1894

LOCATION: *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 22–24.vii.1996, Volkovitsh and Dolgovskaya. 2 ex., collected by sweeping on the white Umbelliferae.

DISTRIBUTION: Italy, Sicily, France, Spain, Portugal, Israel, Algeria, Morocco.

HOST PLANTS: *Quercus* spp. (Israel: Halperin and Argaman, 2000); *Ulmus*, *Prunus*, *Sorbus*, *Pyrus*, *Acer*, *Ceratonia*, *Pistacia*, *Nerium* (Palearctic: Richter, 1949; Schaefer, 1949; Soldatova, 1970; Gobbi, 1986).

77. *Anthaxia (Haplanthaxia) houskai* Obenberger, 1946

LOCATION: *Har Hermon*: Mezudat Nimrod, 16 km ENE of Qiryat Shemona, 4, 7, 10.v.1994 Volkovitsh and Dolgovskaya. *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Volkovitsh, Zaitzev; Naḥal Hermon, 10 km E of Qiryat Shemona, 2, 3.v.1994, Volkovitsh and Dolgovskaya. *Golan Heights*: Har Odem, 16 km E of Qiryat Shemona, 3.v.1994, Zaitzev. 135 ex. on flowers of Umbelliferae, yellow Asteraceae.

DISTRIBUTION: Syria, Lebanon, Israel, Jordan.

78. *Anthaxia (Haplanthaxia) cichorii* (Olivier, 1790)

LOCATION: *Har Hermon*: Mezudat Nimrod, 16 km ENE of Qiryat Shemona, 4, 7, 10.v.1994, Volkovitsh and Dolgovskaya. *Upper Galilee*: Har Meron, 7–11 km WNW of

Zefat, 12–17.v.1994, Volkovitsh; Nahal Keziv, 'Avdon env., 15.v.1994, Volkovitsh; Nahal Hermon, 10 km E of Qiryat Shemona, 2, 3.v.1994, Volkovitsh and Dolgovskaya; HaYarden (Jordan) river, 2 km NE of Karkom, 6.v.1994, Volkovitsh and Dolgovskaya. Golan Heights: 'En Divsha, 4 km S of Gonén, 5.v.1994, Volkovitsh and Dolgovskaya. 27 ex. on flowers of yellow Asteraceae and others.

DISTRIBUTION: Northern Africa, central, southern, and eastern Europe, Turkey, Cyprus, Syria, Israel, Iraq, Iran, Georgia, Armenia, Azerbaijan, Turkmenistan.

HOST PLANTS: *Quercus calliprinos*, *Q. ithaburensis*, *Casuarina cunninghamiana*, *Cercis siliquastrum*, *Pistacia atlantica*, *Prosopis farcta*, *Ulmus glabra*, *Vitis vinifera* (Israel: Bytinski-Salz and Sternlicht, 1967; Halperin and Argaman, 2000); *Parrotia*, *Fagus*, *Quercus*, *Salix*, *Ulmus*, *Malus*, *Pyrus*, *Prunus*, *Ceratonia*, *Cercis*, *Acer*, *Pistacia*, *Paliurus*, *Frangula* (Palearctic: Richter, 1949; Soldatova, 1970; Hellrigl, 1978b; Cobos, 1986; Gobbi, 1986).

79. *Anthaxia (Haplanthaxia) jordanensis* Bílý, 1984

KARMEL RIDGE: Har Karmel, Nahal Oren, 4 km SW of Bet Oren, 18–20.vii.1996, Volkovitsh and Dolgovskaya, 5 ex. on flowers of yellow Asteraceae.

DISTRIBUTION: Syria, Israel, Jordan.

REMARKS: First record for Israel.

80. *Anthaxia (Haplanthaxia) berytensis* Abeille de Perrin, 1895

LOCATION: Har Hermon: Mezudat Nimrod, 16 km ENE of Qiryat Shemona, 10.v.1994, Volkovitsh; Har Hermon, 1750 m, 3 km NNW of Newé Ativ, 26.vii.1996, Volkovitsh and Dolgovskaya. 2 ex. on flowers of yellow Asteraceae.

DISTRIBUTION: Turkey, Syria, Lebanon, Israel.

81. *Anthaxia (Melanthaxia) corinthia* Reiche, 1856

LOCATION: Upper Galilee: Bar'am Reserve, Bar'am env., 11.v.1994, Volkovitsh; Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Volkovitsh. 8 ex. on flowers of yellow Asteraceae.

DISTRIBUTION: Turkey, Cyprus, Syria, Lebanon, Israel, Jordan.

HOST PLANTS: *Pinus* spp., *Cedrus* (Israel: Halperin and Argaman, 2000; Jordan: Katheh-Bader, 1996).

82. *Anthaxia (Melanthaxia) pinguis* Kiesenwetter, 1880

LOCATION: Upper Galilee: Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Volkovitsh. 1 ex. on flowers of yellow Asteraceae.

HOST PLANTS: *Pinus halepensis* (Israel: Halperin and Argaman, 2000).

DISTRIBUTION: Greece, Turkey, Cyprus, Syria, Lebanon, Israel.

83. *Anthaxia (Anthaxia) pulex* Abeille de Perrin, 1893

LOCATION: *Ha'arava Valley*: Sappir env., 30.vi.–1.vii.1996, Volkovitsh and Dolgovskaya. 13 ex., collected by beating and sweeping *Acacia*.

DISTRIBUTION: Israel, Egypt, Algeria, Morocco.

HOST PLANTS: *Acacia* (Israel: Halperin and Argaman, 2000; Egypt: Alfieri, 1976; Sahara: Mateu, 1972).

84. *Anthaxia (Anthaxia) mundula* Kiesenwetter, 1857

LOCATION: *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 22–24.vii.1996, Volkovitsh and Dolgovskaya, 9 ex. on white Umbelliferae.

DISTRIBUTION: Turkey, Cyprus, Syria, Israel.

REMARKS: First record for Israel.

85. *Anthaxia (Anthaxia) margarita* Bílý, 1995

LOCATION: *Central Negev*: Nahal Neqarot, 11 km SE of Mizpé Ramon, 17.iv.1994, Volkovitsh and Dolgovskaya; Makhtésh Ramon, 8–14 km ENE of Mizpé Ramon, 18.iv.1994, Volkovitsh and Dolgovskaya; Nahal Nizzana, 14 km WSW of Mizpé Ramon, 18, 19.iv.1994, Volkovitsh and Dolgovskaya. *Southern Negev*: Nahal Hazera, Hamakhtésh-Haqatan, 20 km ESE of Dimona, 13.iv.1994, Volkovitsh and Dolgovskaya; Nahal Zafit, 25 km ESE of Dimona, 13.iv.1994, Volkovitsh and Dolgovskaya; Har Qetura, 4 km SE of Shizzafon, 14.iv.1994, Volkovitsh and Dolgovskaya. 32 ex., (holotype, allotype, paratypes). Exclusively on *Pituranthos triradiatus*.

DISTRIBUTION: Israel.

86. *Anthaxia (Anthaxia) adiyamana* Svoboda, 1994

LOCATION: *Har Hermon*: Har Hermon, 1750 m, 21 km NE of Qiryat Shemona, 7.v.1994, Volkovitsh and Dolgovskaya; Har Hermon, 1750 m, 3 km NNW of Newé Ativ, 26.vii.1996, Volkovitsh and Dolgovskaya. 109 ex. reared or swept from twigs of *Astragalus* sect. *Tragacantha*.

DISTRIBUTION: Turkey, Israel (Bílý, 1997).

HOST PLANTS: *Astragalus* sect. *Tragacantha* (Israel: M. Volkovitsh).

REMARKS: First record for larval host plant.

87. *Anthaxia (Anthaxia) ghazi* Cobos, 1965

LOCATION: *Har Hermon*: Har Hermon, 1750 m, 21 km NE of Qiryat Shemona, 10.v.1994, Volkovitsh. *Golan Heights*: 'En Divsha, 4 km S of Gonén, 5.v.1994, Volkovitsh and Dolgovskaya. 2 ex. on flowers of yellow Asteraceae.

DISTRIBUTION: Turkey, Syria, Israel (Bílý, 1997).

HOST PLANTS: *Cotoneaster* spp., *Genista fasselata* (Israel: Halperin and Argaman, 2000).

88. *Anthaxia (Anthaxia) sedilloti rabinowitchi* Théry, 1938

LOCATION: *Central Negev*: Nahal Neqarot, 11 km SE of Mizpé Ramon, 17.iv.1994, Volkovitsh and Dolgovskaya; Makhtésh Ramon, 8–14 km ENE of Mizpé Ramon, 18.iv.1994, Volkovitsh and Dolgovskaya. *Southern Negev*: Nahal Hazera, Hamakhtésh-Haqatan, 20 km ESE of Dimona, 13.iv.1994, Volkovitsh and Dolgovskaya. 5 ex., collected by sweeping *Pituranthos triradiatus*; on flowers of yellow Asteraceae.

DISTRIBUTION: Israel, Egypt (Bílý, 1997).

HOST PLANTS: *Retama raetam* (Israel: Halperin and Argaman, 2000).

89. *Anthaxia (Anthaxia) meronica* Bílý, 1995

LOCATION: *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Volkovitsh; Bar'am Reserve, Bar'am env., 11.v.1994, Volkovitsh. *Central Negev*: Nahal Nizzana, 14 km WSW of Mizpé Ramon, 18, 19.iv.1994, Volkovitsh and Dolgovskaya. 11 ex. (holotype, allotype, paratypes). Sweeping *Pituranthos triradiatus*; on flowers of yellow Asteraceae.

DISTRIBUTION: Israel.

90. *Anthaxia (Anthaxia) brevis* Laporte & Gory, 1839

LOCATION: *Har Hermon*: Mezudat Nimrod, 16 km ENE of Qiryat Shemona, 4, 7, 10.v.1994, Volkovitsh and Dolgovskaya. *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Volkovitsh, Zaitzev. *Golan Heights*: Har Odem, 16 km E of Qiryat Shemona, 3.v.1994, Zaitzev. *Central Negev*: Nahal Nizzana, 14 km WSW of Mizpé Ramon, 18, 19.iv.1994, Volkovitsh and Dolgovskaya. 59 ex. on flowers of yellow Asteraceae and others.

DISTRIBUTION: Greece, Turkey, Cyprus, Syria, Israel, Iran, southern Ukraine, southern Russia, Armenia, Azerbaijan.

HOST PLANTS: *Cercis siliquastrum*, *Pistacia* spp. (Israel: Halperin and Argaman, 2000); *Quercus*, *Pistacia*, *Rhus*, *Cotinus*, *Fraxinus* (Palearctic: Soldatova, 1970; Niehuis, 1990, 1992).

91. *Anthaxia (Anthaxia) salicis persica* Théry, 1925

LOCATION: *Har Hermon*: Har Hermon, 1750 m, 21 km NE of Qiryat Shemona, 10.v.1994, Volkovitsh. *Upper Galilee*: Nahal Hermon, 10 km E of Qiryat Shemona, 2, 3.v.1994, Volkovitsh and Dolgovskaya; Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Volkovitsh. 14 ex. on flowers.

DISTRIBUTION: Israel, Iraq, Iran (Bílý, 1997).

HOST PLANTS: *Quercus ithaburensis* (Israel: Bytinski-Salz and Sternlicht, 1967, as *A. salicis*; Halperin and Argaman, 2000); *Castanea*, *Quercus*, *Salix*, *Acer* (Palearctic, *A. s. salicis*: Hellrigl, 1978b; Gobbi, 1986).

92. *Anthaxia (Anthaxia) fritschi* Heyden, 1887

LOCATION: *Central Negev*: Nahal Neqarot, 11 km SE of Mizpé Ramon, 17.iv.1994, Volkovitsh and Dolgovskaya; Makhtésh Ramon, 8–14 km ENE of Mizpé Ramon, 18.iv.1994, Volkovitsh and Dolgovskaya. *Southern Negev*: Har Qetura, 4 km SE of Shizzafon, 14.iv.1994, Volkovitsh and Dolgovskaya. 5 ex. on flowers of yellow Asteraceae.

DISTRIBUTION: Israel, Egypt, Algeria, Morocco (Bíly, 1997).

93. *Anthaxia (Anthaxia) bicolor* Faldermann, 1835

LOCATION: *Har Hermon*: Mezudat Nimrod, 16 km ENE of Qiryat Shemona, 7, 10.v.1994, Volkovitsh and Dolgovskaya; *Har Hermon*, 1750 m, 21 km NE of Qiryat Shemona, 10.v.1994, Zaitzev. *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Volkovitsh, Podlipaev; Bar'am Reserve, Bar'am env., 11.v.1994, Volkovitsh; Nahal Hermon, 10 km E of Qiryat Shemona, 2, 3.v.1994, Volkovitsh and Dolgovskaya. Golan Heights: 'En Divsha, 4 km S of Gonén, 5.v.1994, Volkovitsh and Dolgovskaya. 43 ex. on flowers of yellow Asteraceae and others.

DISTRIBUTION: The Balkans, Greece, Turkey, Syria, Israel, Jordan, Iraq, Iran, southern Ukraine, southern Russia, Transcaucasia, Turkmenistan, ?Uzbekistan.

HOST PLANTS: *Olea europaea* (Israel: Halperin and Argaman, 2000); *Fraxinus* (Palearctic: Soldatova, 1970).

94. *Anthaxia (Anthaxia) togata* Abeille de Perrin, 1882

LOCATION: *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Volkovitsh. 11 ex. on flowers of yellow Asteraceae.

DISTRIBUTION: Eastern Turkey, Syria, Lebanon, Israel (Bíly, 1997).

95. *Anthaxia (Anthaxia) muliebris* Obenberger, 1918

LOCATION: *Har Hermon*: Mezudat Nimrod, 16 km ENE of Qiryat Shemona, 4, 7, 10.v.1994, Volkovitsh and Dolgovskaya. *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Volkovitsh, Zaitzev, Shibanova. 50 ex. on flowers of Umbelliferae, yellow Asteraceae, and others.

DISTRIBUTION: Turkey, Syria, Israel, Iran, Armenia, Azerbaijan, Turkmenistan.

HOST PLANTS: *Malus*, *Punica granatum* (Palearctic: Soldatova, 1970).

96. *Anthaxia (Anthaxia) myrmidon* Abeille de Perrin, 1891

LOCATION: *Har Hermon*: Mezudat Nimrod, 16 km ENE of Qiryat Shemona, 10.v.1994,

Volkovitsh. *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Volkovitsh; Naḥal Hermon, 10 km E of Qiryat Shemona, 2, 3.v.1994, Volkovitsh and Dolgovskaya. *Golan Heights*: 'En Divsha, 4 km S of Gonén, 5.v.1994, Volkovitsh and Dolgovskaya. 52 ex. on flowers of yellow Asteraceae and others.

DISTRIBUTION: Turkey, Syria, Lebanon, Israel (Bílý, 1997).

HOST PLANTS: *Calicotome villosa*, *Cercis siliquastrum*, *Citrus* sp., *Ulmus* spp., *Vitex agnus-castus* (Israel: Halperin and Argaman, 2000).

97. *Anthaxia (Anthaxia) klessi* Niehuis, 1991

LOCATION: *Har Hermon*: Mezudat Nimrod, 16 km ENE of Qiryat Shemona, 26, 27.vii.1996, Volkovitsh and Dolgovskaya, Zaitzev. *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 22–24.vii.1996, Volkovitsh and Dolgovskaya. 63 ex. on white Umbelliferae.

DISTRIBUTION: Israel.

98. *Anthaxia (Anthaxia) olympica astoreth* Obenberger, 1934

LOCATION: *Har Hermon*: Har Hermon, 1750 m, 21 km NE of Qiryat Shemona, 10.v.1994, Volkovitsh. *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Volkovitsh. 27 ex. on flowers of yellow Asteraceae.

DISTRIBUTION: Syria, Israel (Bílý, 1997).

99. *Anthaxia (Anthaxia) praeclara* Mannerheim, 1837

LOCATION: *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Volkovitsh, Zaitzev; Bar'am Reserve, Bar'am env., 11.v.1994, Volkovitsh, Shibanova. 94 ex. on flowers of yellow Asteraceae and others.

DISTRIBUTION: Portugal, Spain, France, Italy, Greece, Turkey, Syria, Israel, Jordan, Algeria, Morocco.

HOST PLANTS: *Cedrus* spp., *Pinus halepensis*, spp. (Israel: Halperin, 1963; Halperin and Argaman, 2000); *Cedrus*, *Juniperus* (Turkey: Katheh-Bader, 1996).

100. *Anthaxia (Anthaxia) israelita* Abeille de Perrin, 1882

Upper Galilee: Mezudat Yesha', 10 km S of Qiryat Shemona, 4.v.1994, Volkovitsh and Dolgovskaya; Naḥal Hermon, 10 km E of Qiryat Shemona, 2, 3.v.1994, Volkovitsh and Dolgovskaya; HaYarden (Jordan) river, 2 km NE of Karkom, 6.v.1994, Volkovitsh and Dolgovskaya. *Judean Hills*: Yerushalayim (Jerusalem) west. env., 28.iv.1994, Volkovitsh and Dolgovskaya. *Dead Sea Area*: Naḥal 'Arugot, 'En Gedi env. (Naḥal 'Arugot ha'illi Reserve), 22, 23.iv.1994, Volkovitsh and Dolgovskaya. 36 ex., dead beetles extracted from tunnels in *Amygdalus* dry branch (Yerushalayim (Jerusalem) west. env., 1994); on flowers of *Aaransonnia factorovskyi*, *Pulicaria incisa*, and other yellow Asteraceae.

DISTRIBUTION: Syria, Lebanon, Israel (Bílý, 1997).

HOST PLANTS: *Amygdalus* (Israel: M. Volkovitsh); *Pistacia* spp., *Quercus* spp., *Rhamnus alaternus*, *Rhus tripartita*, *Tamarix* spp., *Ulmus canescens* (Israel: Halperin and Argaman, 2000).

REMARKS: New larval host plant.

AGRILINAE Laporte, 1835

CORAEBINI Bedel, 1921

Coraebus Gory & Laporte, 1839

101. *Coraebus elatus* (Fabricius, 1790)

LOCATION: *Upper Galilee*: Nahal Keziv, 'Avdon env., 15.v.1994, Volkovitsh; Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Volkovitsh. 2 ex., collected by sweeping herbs.

DISTRIBUTION: Northern Africa, Europe, Transcaucasia, Turkey, Syria, Israel.

HOST PLANTS: *Sarcopoterium spinosum* (Israel: Halperin and Argaman, 2000); *Poterium*, *Potentilla*, *Fragaria*, *Agrimonia*, *Spiraea* (Palearctic: Schaefer, 1949; Gobbi, 1986).

Meliboeus Deyrolle, 1865

102. *Meliboeus (Meliboeus) impressithorax* Pic, 1923

LOCATION: *Central Negev*: Nahal Nizzana, 14 km WSW of Mizpé Ramon, 6.vii.1996, Volkovitsh and Dolgovskaya, Zaitzev, 3 ex., collected by sweeping Labiatae.

DISTRIBUTION: Israel, Sinai, Egypt, Algeria.

HOST PLANTS: ?*Stachys aegyptiaca* (Egypt: Alfieri, 1976)

103. *Meliboeus (Melixes) hosccheki* Obenberger, 1916

LOCATION: *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 22–24.vii.1996, Volkovitsh and Dolgovskaya, Zaitzev. *KARMEL RIDGE*: Har Karmel, Nahal Oren, 4 km SW of Bet Oren, 18–20.vii.1996, Volkovitsh and Dolgovskaya. 81 ex., collected by sweeping Labiatae.

DISTRIBUTION: Lebanon, Israel, Egypt.

104. *Meliboeus (Melixes) heydeni* Abeille de Perrin, 1897

LOCATION: *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 22–24.vii.1996, Volkovitsh and Dolgovskaya. *Karmel Ridge*: Har Karmel, Nahal Oren, 4 km SW of Bet Oren, 18–20.vii.1996, Volkovitsh and Dolgovskaya. 14 ex., collected by sweeping Labiatae.

DISTRIBUTION: Turkey, Syria, Lebanon, Israel, ?Egypt, Armenia, Azerbaijan, Turkmenistan.

105. *Meliboeus* (?*Melixes*) *guyoti* Obenberger, 1920

LOCATION: *Dead Sea Area*: Nahal David, 'En Gedi env. ('En Gedi Reserve), 21.iv.1994, Volkovitsh and Dolgovskaya; Nahal 'Arugot, 'En Gedi env. (Nahal 'Arugot ha'illi Reserve), 22, 23.iv.1994, Volkovitsh and Dolgovskaya. *Central Negev*: Nahal Neqarot, 11 km SE of Mizpé Ramon, 17.iv.1994, Volkovitsh and Dolgovskaya. 3 ex., collected by sweeping herbs.

DISTRIBUTION: Israel, Sinai.

HOST PLANTS: ?*Artemisia judaica* (Sinai: Alfieri, 1976).

106. *Meliboeus* (*Meliboeioides*) *violaceus* Kiesenwetter, 1857

LOCATION: *Har Hermon*: Mezudat Nimrod, 16 km ENE of Qiryat Shemona, 4, 7, 10.v.1994, Volkovitsh and Dolgovskaya; Har Hermon, 1750 m, 21 km NE of Qiryat Shemona, 10.v.1994, Volkovitsh. *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Volkovitsh. *Golan Heights*: 'En Divsha, 4 km S of Gonén, 5.v.1994, Volkovitsh and Dolgovskaya. 44 ex., collected by sweeping *Echinops* and others.

DISTRIBUTION: Southern and eastern Europe, Turkey, Syria, Israel, southern Ukraine, ?Transcaucasia, ?Central Asia.

HOST PLANTS: *Cirsium phylocephalum* (Israel: Bodenheimer, 1937; Halperin and Argaman, 2000); *Onopordum*, *Carduus* (Palearctic: Gobbi, 1986).

107. *Meliboeus* (*Meliboeioides*) *adlbaueri* Niehuis, 1989

LOCATION: *Central Negev*: Nahal Nizzana, 14 km WSW of Mizpé Ramon, 18, 19.iv.1994, Volkovitsh and Dolgovskaya. 3 ex., collected by sweeping *Onopordum*.

DISTRIBUTION: Turkey, Syria, Israel, Iran (Niehuis, 1989b).

108. *Meliboeus* (*Nalanda*) *halperini* Niehuis, 1997

LOCATION: *Central Negev*: Nahal Neqarot, 11 km SE of Mizpé Ramon, 7.vii.1996, Volkovitsh and Dolgovskaya, 2 ex., collected by sweeping shrubs.

DISTRIBUTION: Israel.

HOST PLANTS: *Nitraria refusa* (Israel: Niehuis, 1997; Halperin and Argaman, 2000).

AGRILINI Laporte 1835***Agrilus* Curtis, 1825****109. *Agrilus* (*Diplophotus*) *nubeculosus nubeculosus* Fairmaire, 1890**

LOCATION: *Dead Sea Area*: Nahal David, 'En Gedi env. ('En Gedi Reserve), 9.vii.1996, Volkovitsh and Dolgovskaya (fragments in *Acacia* wood). *Southern Negev*: Nahal Shelomo, 5 km W of Elat, 8.iv.1994, Volkovitsh and Dolgovskaya; Nahal Zin, 14 km NW of 'En Hazeva, 11.iv.1994, Volkovitsh and Dolgovskaya; Nahal Zefahot Nat. Res.,

Elat env., 2.vii.1996, Volkovitsh and Dolgovskaya (2 dead specimens in *Acacia* wood). 7 ex., collected by beating and sweeping *Acacia*; two live beetles and numerous larvae extracted from dry branches of *Acacia*; pupal chambers inside the bark.

DISTRIBUTION: Israel, Egypt, Ethiopia.

HOST PLANTS: *Acacia* (Israel: Bytinski-Salz, 1954, as *D. desertus*; Sahara, *A. n. deserus*: Mateu, 1972).

110. *Agrilus (Personatus) andresi* Obenberger, 1920

LOCATION: *Ha'arava Valley*: Naḥal Omer, Zofar distr., 12.iv.1994, Volkovitsh and Dolgovskaya, 1 ex., collected by beating *Acacia*.

DISTRIBUTION: Israel, Sinai, Egypt, Saudi Arabia, Algeria.

HOST PLANTS: *Acacia* (Israel: Bytinski-Salz, 1954; Halperin and Argaman, 2000).

111. *Agrilus (Micragrilus) lituratus* (Klug, 1829)

LOCATION: *Ha'arava Valley*: Naḥal Omer, Zofar distr., 12.iv.1994, Volkovitsh and Dolgovskaya; Sappir env., 30.vi.–1.vii.1996, Volkovitsh and Dolgovskaya. *Southern Negev*: Har Hizqiyahu, 800 m, 12 km NW of Elat, 9.iv.1994, Volkovitsh and Dolgovskaya. *Central Negev*: Naḥal Gevanim, 9 km ESE of Mizpé Ramon, 7.vii.1996, Volkovitsh and Dolgovskaya. *Dead Sea Area*: Naḥal 'Arugot, 'En Gedi env. (Naḥal 'Arugot ha'illi Reserve), 22, 23.iv.1994, Volkovitsh and Dolgovskaya. 7 ex., collected by beating and sweeping *Acacia*.

DISTRIBUTION: ?Sicily, Israel, Saudi Arabia, Egypt, Tunisia, Algeria, Marocco, Sudan, Chad.

HOST PLANTS: *Acacia* (Israel: Bytinski-Salz, 1954; Halperin and Argaman, 2000; Sahara: Mateu, 1972).

112. *Agrilus (Quercuagrilus) obscuricollis* Kiesenwetter, 1857

LOCATION: *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Volkovitsh, 1 ex., collected by sweeping *Quercus*.

DISTRIBUTION: Northern Africa, southern and central Europe, southern and central Russia, Turkey, Israel.

HOST PLANTS: *Quercus*, *Castanea*, *Carpinus*, *Betula*, *Corylus*, *Prunus*, *Pyrus*, *Tilia*, *Ficus*, *Acer* (Palearctic: Schaefer, 1949; Gobbi, 1986).

REMARKS: First record for Israel.

113. *Agrilus (Quercuagrilus) alexeevi* Bellamy, 1998

= *dualis* Alexeev & Bílý, 1980 (homonym).

LOCATION: *Har Hermon*: Mezudat Nimrod, 16 km ENE of Qiryat Shemona, 4, 7, 10.v.1994, Volkovitsh and Dolgovskaya. *Upper Galilee*: Har Meron, 7–11 km WNW of

Zefat, 12–17.v.1994, Volkovitsh. *Golan Heights*: Horbat Panyas, 3.v.1994, Chikatunov. 9 ex., collected by beating and sweeping *Quercus*.

DISTRIBUTION: The Balkans, Greece, Turkey, Israel, Transcaucasia, southern Russia.

HOST PLANTS: *Quercus* (Israel: Halperin and Argaman, 2000; Palearctic: Alexeev and Bily, 1980; as *A. dualis*).

REMARKS: First record for Israel.

114. *Agrilus (Quercuagrilus) derasofasciatus* Lacordaire, 1835

LOCATION: *Upper Galilee*: Naḥal Hermon, 10 km E of Qiryat Shemona, 2, 3.v.1994, Volkovitsh and Dolgovskaya, 3 ex., collected by sweeping *Vitis*.

DISTRIBUTION: Northern Africa, southern and central Europe, Cyprus, Syria, Lebanon, Israel, Egypt.

HOST PLANTS: *Vitis vinifera* (Israel: Bodenheimer, 1937; Halperin and Argaman, 2000); *Pistacia* (Palearctic: Gobbi, 1986).

115. *Agrilus (Quercuagrilus) tenuissimus* Abeille de Perrin, 1891

LOCATION: Karmel Ridge: Har Karmel, Har Sumaq, 5 km SSE of Dāliyāt el Karmil, 20.vii.1996, Volkovitsh and Dolgovskaya, 1 ex., collected by sweeping *Quercus ithaburensis*.

DISTRIBUTION: Syria, Israel.

116. *Agrilus (Rosagrilus) roscidus* Kiesenwetter, 1857

LOCATION: *Har Hermon*: Mezudat Nimrod, 16 km ENE of Qiryat Shemona, 4, 7, 10.v.1994, Volkovitsh and Dolgovskaya. *Upper Galilee*: Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Volkovitsh and Dolgovskaya; 22–24.vii.1996, Volkovitsh and Dolgovskaya; Mezudat Yesha', 10 km S of Qiryat Shemona, 4.v.1994, Volkovitsh and Dolgovskaya; Bet Zayda Natural Reserve, Kinneret N Coast, 25.vii.1996, Volkovitsh and Dolgovskaya (on *Salix*). *Karmel Ridge*: Har Karmel, Naḥal Oren, 4 km SW of Bet Oren, 18–20.vii.1996, Volkovitsh and Dolgovskaya; Har Karmel, Naḥal Me'arot, 10 km S of Tirat Karmel, 21.vii.1996, Volkovitsh and Dolgovskaya. *Judean Hills*: Yerushalayim (Jerusalem) west. env., 28.iv.1994, Volkovitsh and Dolgovskaya. 90 ex., reared from dry branch of *Amygdalus*; and swept from trees.

DISTRIBUTION: Northern Africa, southern, central, and eastern Europe, Turkey, Cyprus, Syria, Israel, Jordan, Egypt, Caucasus, Transcaucasia.

HOST PLANTS: *Amygdalus*, *Ceratonia siliqua*, *Cercis siliquastrum*, *Cotoneaster franchetii*, ?*Pinus halepensis*, ?*Pistacia atlantica*, *Prunus* spp., *Rhamnus alaternus*, *Salix* spp. (Israel: M. Volkovitsh; Halperin and Argaman, 2000); *Alnus*, *Salix*, *Ulmus*, *Malus*, *Pyrus*, *Crataegus*, *Prunus*, *Sorbus*, *Cerasus*, *Amygdalus*, *Mespilus*, *Cydonia*, *Ceratonia*, *Pistacia*, *Viscum* (Palearctic: Hellrigl, 1978; Gobbi, 1986; Niehuis, 1990).

117. *Agrilus (Rosagrilus) sylviae* Niehuis, 1992

LOCATION: *Upper Galilee*: Nahal Keziv, 'Avdon env., 15.v.1994, Volkovitsh. 11 ex., collected by sweeping *Phillyrea latifolia* mainly.

DISTRIBUTION: Turkey, Israel.

HOST PLANTS: *Pistacia atlantica*, *P. palaestina*, *P. lentiscus*, ?*Ulmus* sp. (Israel: Niehuis, 1992; Halperin and Argaman, 2000; Volkovitsh et al., 2000).

118. *Agrilus (Rosagrilus) viridicoerulans viridicoerulans* Marseul, 1865

LOCATION: *Upper Galilee*: Nahal Hermon, 10 km E of Qiryat Shemona, 2, 3.v.1994, Volkovitsh and Dolgovskaya. *Karmel Ridge*: Har Karmel, Nahal Oren, 4 km SW of Bet Oren, 18–20.vii.1996, Volkovitsh and Dolgovskaya. 10 ex., collected by sweeping *Rubus*.

DISTRIBUTION: Syria, Lebanon, Israel.

HOST PLANTS: *Cercis siliquastrum*, *Cotoneaster* spp., *Rubus* sp. (Israel: Halperin and Argaman, 2000); *Rubus* (Palearctic: Schaefer, 1949).

119. *Agrilus (Aridagrilus) chionochaetus* Obenberger, 1913

LOCATION: *Dead Sea Area*: Nahal Qidron, 25 km NNE of 'En Gedi (Mezuqe haHe' teqim Reserve), 24.iv.1994, Volkovitsh and Dolgovskaya; Nahal David, 'En Gedi env. ('En Gedi Reserve), 21.iv.1994, Volkovitsh and Dolgovskaya; Nahal 'Arugot, 'En Gedi env. (Nahal 'Arugot ha'illi Reserve), 22, 23.iv.1994, Volkovitsh and Dolgovskaya; Ze'elim, 4 km N of Horvot Mezada, 15.iv.1994, Volkovitsh and Dolgovskaya. *Ha'arava Valley*: 9 km SW of Yahel, 3.vii.1996, Volkovitsh and Dolgovskaya. *Southern Negev*: Nahal Zafit, 25 km ESE of Dimona, 13.iv.1994, Volkovitsh and Dolgovskaya. 11 ex., collected by sweeping *Salsola vermiculata*, *S. damascena*.

DISTRIBUTION: Israel, Morocco.

REMARKS: First record for Israel.

CYLINDROMORPHINI Portevin, 1931***Paracylindromorphus* Théry, 1928****120. *Paracylindromorphus sinuatus* Abeille de Perrin, 1897**

LOCATION: *Central Negev*: Nahal Nizzana, 14 km WSW of Mizpe Ramon, 18, 19.iv.1994, Volkovitsh and Dolgovskaya. 17 ex., collected by sweeping *Stipa parviflora*.

DISTRIBUTION: Israel, Algeria, Tunisia.

REMARKS: First record for Israel.

TRACHYDINI Laporte, 1835*Trachys* Fabricius, 1801**121. *Trachys troglodytes*** Gyllenhal, 1817

LOCATION: *Upper Galilee*: Naḥal Hermon, 10 km E of Qiryat Shemona, 2, 3.v.1994, Volkovitsh and Dolgovskaya. 2 ex., collected by sweeping tall herbage.

DISTRIBUTION: Southern Europe, Turkey, Israel.

HOST PLANTS: *Scabiosa*, *Knautia*, *Cephalaria* (Palearctic: Schaefer, 1949; Gobbi, 1986).

GALBELLINAE Reitter, 1911**GALBELLINI** Reitter, 1911*Galbella* Westwood, 1848**122. *Galbella (Galbella) felix*** (Marseul, 1865)

LOCATION: *Upper Galilee*: Naḥal Keziv, 'Avdon env., 15.v.1994, Volkovitsh; Har Meron, 7–11 km WNW of Zefat, 12–17.v.1994, Podlipaev. *Karmel Ridge*: Har Karmel, Naḥal Me'arot, 10 km S of Tirat Karmel, 21.vii.1996, Volkovitsh and Dolgovskaya (larvae). 5 ex., collected by sweeping *Phillyrea latifolia*; larvae collected inside twigs.

DISTRIBUTION: Turkey, Cyprus, Syria, Israel.

HOST PLANTS: Israel: ?*Quercus calliprinos*, spp. (Bytinski-Salz and Sternlicht, 1967; Halperin and Argaman, 2000); *Phillyrea latifolia*, *Pistacia lentiscus* (Volkovitsh et al., 2000).

REMARKS: It is not clear (from the above publication) whether this species was reared from *Quercus*, or collected on *Quercus*. Therefore, *Phyllerea* is likely to be the first recorded host plant of the larvae of this species.

123. *Galbella (Galbella) harti* (Janson, 1891)

LOCATION: *Dead Sea Area*: Naḥal Tamar, 4 km NNW of 'En Tamar, 16.iv.1994, Volkovitsh and Dolgovskaya. *Central Negev*: Naḥal Neqarot, 11 km SE of Mizpé Ramon, 17.iv.1994, Volkovitsh and Dolgovskaya. 3 ex., collected by sweeping *Tamarix* and *Zygophyllum dumosum*.

DISTRIBUTION: Israel, Sinai, Egypt, Saudi Arabia.

TAXONOMIC NOTES ON SOME ACMAEODERINI SPECIES

Acmaeodera (Palaeotethya) macchabaea Abeille de Perrin, 1891, stat. rest.

Acmaeodera macchabaea Abeille de Perrin, 1891: 276; Volkovitsh, 1986: 19 (*A. rubromaculata* Luc., part).

A. pharsaea Obenberger, 1946: 13; Volkovitsh, 1977: 806, 1986: 19 (*A. rubromaculata* Luc., part.), n. syn.

A. houskai Obenberger, 1946: 14; Volkovitsh, 1977: 806, 1986: 19 (*A. rubromaculata* Luc., part.), n. syn.

Volkovitsh (1977) synonymized *A. pharsaea* and *A. houskai* with *A. rubromaculata*. Volkovitsh (1986) added *A. macchabaea* as a new synonym of *A. rubromaculata* and noted the great similarity among the lectotypes of all Near East forms. Examining many specimens that were collected during the first trip to Israel revealed that there were two different species: *A. macchabaea* (= *A. pharsaea*, *A. houskai*), and *A. rubromaculata*. Therefore, *A. macchabaea* was incorrectly synonymized with *A. rubromaculata* (Volkovitsh, 1977, 1986) and its original status as a distinct species is restored. This species resembles some forms of *A. flavonotata* Luc. from northern Africa, but the exact taxonomic relationships are still in need of further revision of the subgenus *Palaeotethya*.

MATERIAL EXAMINED: *A. macchabaea*: Lectotype (designated Volkovitsh, 1986): "Syrie" (MNHN). *A. pharsaea*: Holotype, male: "Palestina, Jordan, 4 IV 1943, Houska" (NMPC). *A. houskai*: Holotype, female: "Jordan, 11 VI 1943" (NMPC).

Acmaeoderella (Liogastris) sefrensis (Pic, 1895) n. stat. and n. comb.

Acmaeodera rufomarginata var. *sefrensis* Pic, 1895: 12.

Acmaeodera rufomarginata var. *stramineipennis* Chobaut, 1922: 25, n. syn.

Acmaeodera virgulata var. *lucasi* Théry, 1928: 70, n. syn.

The taxonomic status of these forms was treated differently in various publications. The study of the lectotypes showed that all forms are conspecific. Therefore, the name *A. sefrensis* should be used because it is valid and has priority over the others.

MATERIAL EXAMINED: *A. rufomarginata* var. *sefrensis*: Lectotype (present designation), female (5 labels): "A.-Sefra", "v. *sefrensis* Pic", "type", "Museum Paris, Coll. M. Pic", "*rufomarginata* v. *sefrensis* Pic (= *stramineipennis* Cbt., Théry det." (MNHN). *A. rufomarginata* var. *stramineipennis*: Lectotype (present designation), male (4 labels): "Biskra, Mai 1898, Dr. A. Chobaut", "*Acmaeodera rufomarginata* v. *stramineipennis* Chob.", "Type", "Museum Paris, 1935, coll. A. Théry" (MNHN). *A. virgulata* var. *lucasi*: Lectotype (present designation), female (5 labels): "O. Akreuth pres Rabat (5)", "Type", "*rufomarginata* Luc., var.?", "ssp. *lucasi* Théry", "Museum Paris, 1935, coll. A. Théry" (MNHN).

Acmaeoderella (Liogastris) elegans miribella (Obenberger, 1946) n. stat. and n. comb.

Acmaeodera miribella Obenberger, 1946: 16.

Acmaeodera eucera Obenberger, 1946: 14; Volkovitsh, 1977: 809 (*A. elegans* Har., part.).

The holotype of *A. miribella* seems to be conspecific with *A. elegans* from the Canary Islands and northern Africa, and is therefore treated as a subspecies. *A. eucera*, which was previously synonymized with *A. elegans* (Volkovitsh, 1977), is a synonym of this subspecies.

MATERIAL EXAMINED: *A. miribella*. Holotype, female: "Jericho, Palaestina, Houska leg., 6.1.1942" (NMPC). *A. eucera*. Holotype, male: "W. el Kelt, 2.5.42 [Houska]" (NMPC).

Acmaeoderella (Omphalothorax) arabica Cobos, 1963 n. stat.

Acmaeoderella adpersula arabica Cobos, 1963: 360; Volkovitsh, 1977: 809, 1986: 26 (synonymy).

The examination of a large series of this form collected in 1996 showed that it is a valid species differing significantly from *A. adpersula*. The male genitalia of *A. arabica* resemble those of *A. densisquamis* rather than those of *A. adpersula*.

MATERIAL EXAMINED. Holotype, male: "Arabia centr., El Riad, 7.v.59, leg. E. Diehl" (ZSMC).

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