

**PRELIMINARY LIST OF PSOCOPTERA FROM ISRAEL WITH DESCRIPTION  
OF TWO NEW SPECIES<sup>1</sup>**

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**ABSTRACT**

The 40 species of Psocoptera recorded from Israel are listed. *Blaste (Euclismia) membranosa* n.sp. and *Hemineura trudiae* n.sp. are described and illustrated. *Cerobasis bundyi* Turner, 1977 is synonymized with *C. annulata* (Hagen, 1865); *Psocathropos microps* (Enderlein, 1903) is synonymized with *P. lachlani* Ribaga, 1899. KEY WORDS: Psocoptera, Israel, new species, new records, new synonyms.

**INTRODUCTION**

Until 1984 21 species of psocids had been recorded from Israel (Pearman, 1935; Galil, 1981; Galil and Halperin, 1983; Lienhard, 1984). After a study of about 1000 specimens recently collected by J. Halperin in Israel (mostly on forest and ornamental woody plants) and some additional specimens from the collections of the Museum d'Histoire naturelle of Geneva (MHNG), the British Museum (Natural History) (BMNH) and the American Museum of Natural History (AMNH) — the number of species has reached 40. *Liposeelis divinatorius* (Mueller, 1776), recorded by Galil and Halperin (1983) and generally considered a "nomen dubium" has to be omitted from the list. We assume that these 40 species constitute about 50% of those actually present in Israel (for comparison see the much better investigated fauna of Greece, Where 75 species are actually known; cf. Lienhard, 1987b). Most of the species are widely distributed in the western palaearctic or at least in the Mediterranean region. In the following, information on general distribution is given only for some particularly interesting species.

Unless otherwise specified the material examined was collected by J. Halperin and is deposited in the Museum d'Histoire naturelle of Geneva (MHNG), Switzerland and in the National Collections (NCI), the Department of Zoology, Tel Aviv University, Israel.

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Asterisks indicate species new to Israel. The following abbreviations were used for regions in Israel: CA, Carmel; CN, Central Negev; CP, Coastal Plain; DS, Dead Sea region; GO, Golan Heights; HV, Hula Valley; JM, Judean Mts.; JV, Jordan Valley; LG, Lower Galilee; NN, Northern Negev; SA, Samaria; SH, Shefela; UG, Upper Galilee.

The following abbreviations were used in the descriptions of the new species:  $f_1-f_{11}$  = length of flagellomeres; F = length of hind femur; T = length of hind tibia;  $t_1-t_2$  = length of hind tarsomeres (from condyle to condyle); IO = distance between compound eyes (dorsal view); PO = transversal diameter of compound eye (dorsal view); D = antero-posterior diameter of compound eye (dorsal view).

## Suborder: TROGIOMORPHA

### TROGIIDAE

#### *Cerobasis alfredi* Lienhard, 1984\*

MATERIAL EXAMINED: 2♀, Shivta (CN), 29.III.1988, *Lycium europaeum*; 4♀, Makhtesh Ramon (CN), 30.III.1988, *Atriplex halimus*; 4♀, Be'er Mash'abim (NN), 31.III.1988, *Hammada salicornica*.

Comments: The species was previously known only from the type locality in Tunisia.

#### *Cerobasis annulata* (Hagen, 1865)

##### *Cerobasis bundyi* Turner, 1977 n.syn.

Previous records: Lienhard, 1984.

Comments: Lienhard (1984) showed that *bundyi* is very closely related to *annulata*. A recent study of some more material of *Cerobasis* from different regions of the western palaearctic proved that the presumed diagnostic characters (the number of pores on spermathecal glands and the number of setae in hypandrial brush) are highly variable in this genus, and therefore cannot be used for separation of *C. bundyi* from *C. annulata*.

#### *Cerobasis guestfalica* (Kolbe, 1880)

Previous records: Galil, 1981; Galil and Halperin, 1983.

MATERIAL EXAMINED: 1♀, Miqwe Yisra'el (CP), 19.IV.1985, *Pistacia lentiscus*; 2♀, Hasolim (LG), 3.IV.1988, *Crataegus aronia*; 1♀ and 4 nymphs, Modi'in (SH), 6.IV.1988, *Ephedra* sp. and *Thymelaea hirsuta*; 1♀ and 1 nymph, Be'eri (NN), 17.IV.1988, *Lycium* sp.

#### *Lepinotus reticulatus* Enderlein, 1905\*

MATERIAL EXAMINED: 1♀, Elon (UG), 20.IV.1982, obtained by sifting dead leaves under oak trees, leg. C. Besuchet and I. Loebel; 3♀, Mt. Meron (UG), 700 m, 26.IV.1982, sifting dead leaves under oak trees, leg. C. Besuchet and I. Loebel.

*Trogium pulsatorium* (Linnaeus, 1758)

Previous records: Galil, 1981.

PSYLLIPSOCIDAE

*Psocathropos lachlani* Ribaga, 1899\*

*Psocathropos microps* (Enderlein, 1903) n.syn.

MATERIAL EXAMINED: 1♀, Ne'ot Mordekhay (HV), 5.IV.1986; many ♂♂ and ♀♀, Bar'am (UG), 1-25.VIII.1985; 1♀, Mt. Hazon (LG), 23.XII.1984; 6♂♂ 5♀♀, Tel Aviv (CP), 15.IV.1975, 25.VII.1977, IX.1977; 6♂♂ 1♀, Holon (CP), 1.VII.1982.

Comments: The specimens from Tel Aviv and Holon were found in houses, for example on old books. All other individuals were found on woody parts of plants originating from the localities mentioned above, and kept in the Entomological Laboratory at Ilanot for several weeks or months to observe the emergence of various insects. *P. lachlani* is a domestic species, probably living in this laboratory and occasionally colonizing plant samples stocked for research purposes.

Only very recently we were able to compare some syntypes of *Psocathropos lachlani* Ribaga (2♀♀, 1♂, 3 nymphs from Portici, mounted on slides, deposited in the Istituto Sperimentale per la Zoologia Agraria, Firenze) with the holotype of *Axinopsocus microps* Enderlein (specimen from the Cameroons, Ngoko-Station, mounted on a slide, deposited in the Zoologisches Museum der Humboldt-Universität, Berlin). There could not be detected any significant morphological difference which would justify the separation of *microps* from *lachlani* as a different species.

*Psyllipsocus ramburii* Selys-Longchamps, 1872\*

MATERIAL EXAMINED: 1♀ (micropterous) and 17 nymphs, Rishon le Ziyyon (CP), 20.VI.1983 and 15.IV.88, house furniture.

Suborder: TROCTOMORPHA

AMPHIENTOMIDAE

*Nephax sofadanus* Pearman, 1935

Previous records: Pearman, 1935.

MATERIAL EXAMINED: (type series): 4♂♂ 1♀ (BMNH), Zefat (UG), 13.XI.1926, G.F. Hucklesby.

Comments: This species is also known from Greece (Lienhard, 1987b). A redescription, with designation of the lectotype, is in preparation.

## LIPOSCELIDAE

Remark: It was originally intended to revise the whole material mentioned by Galil (1981) and Galil & Halperin (1983) as *Liposcelis* sp. or *Liposcelis divinatorius*. Unfortunately, the only material placed at our disposals was one sample collected by A. Nadler (Jerusalem, 12.IX.1961) and deposited in the AMNH, it contains 17 females of three species.

### *Liposcelis bostrychophilus* Badonnel, 1931a\*

MATERIAL EXAMINED: 62♀, Gesher (JV), 15.VII.1987; many ♀, Netanya (CP), house furniture 17.XII.1985; 1♀ (AMNH), Jerusalem, 12.IX.1961, leg. A. Nadler; 30♀, Omer (NN), 1.XI.1985.

Comments: The specimens recorded from Omer and Gesher are probably domestic; they were found on plant material in the Entomological Laboratory at Ilanot, under the same conditions as *Psocathropos lachlani* and *Liposcelis entomophilus* (see comments on the former species).

### *Liposcelis decolor* (Pearman, 1925)\*

*Liposcelis terricola* Badonnel, 1945 (cf. Badonnel, 1986, p. 72)

MATERIAL EXAMINED: 15♀ (12♀ AMNH, 3♂ MHNG), Jerusalem, 12.IX.1961, leg. A. Nadler.

### *Liposcelis entomophilus* (Enderlein, 1907a)\*

MATERIAL EXAMINED: 3♀, Bar'am (UG), 10 and 25.VIII.1985; 5♀, Gadot (HV), 25.VIII.1985; 1♀, Omer (NN), 1.XI.1985.

Comments: same as for *Psocathropos lachlani*.

### *Liposcelis pictus* Ball, 1940\*

MATERIAL EXAMINED: 1♀ (BMNH), Nahal Arugot (DS), 14.XI.1971, leg. D. Gerling.

Comments: this interesting free-living species is actually known from Cyprus and Lebanon (Ball, 1940) and from Greece (Lienhard, 1987b).

### *Liposcelis rufus* Broadhead, 1950\*

MATERIAL EXAMINED: 1♀ (AMNH), Jerusalem, 12.IX.1961, leg. A. Nadler.

## PACHYTROCTIDAE

### *Nymphotroctes denisi* Badonnel, 1931b\*

MATERIAL EXAMINED: 1♀, Mt. Meron (UG), 900 m, 21.IV.1982, sifting dead leaves, leg. C. Besuchet and I. Loebl; 1♀, Qazrin (GO), 400 m, 15.IV.1982, sifting under vegetation near small current, leg. C. Besuchet and I. Loebl.

## Suborder: PSOCOMORPHA

### CAECILIIDAE

#### *Caecilius arundinis* Lienhard, 1981\*

MATERIAL EXAMINED: 6♂♂, Wadi Mashash (CN), 16.II.1976, on *Artemisia* sp., leg. A. Freidberg.

Comments: This species has previously been recorded from Portugal and Greece (Lienhard, 1981) and from Tunisia (Lienhard, 1987a).

#### *Caecilius rhenanus* Tetens, 1891

Previous records: Galil, 1981; Galil and Halperin, 1983.

MATERIAL EXAMINED: 2♀♀, Caesarea (CP), 1.IV.1986; 6♀♀, Ilanot (CP), 1.VII.1984, 20.IX.1984 and 1.XII.1984; 2♀♀, Herzliya, 5.V.1982, leg. A. Freidberg; 1♀, Miqwe Yisra'el (CP), 19.IV.1985; 1♀, Kefar Ezyon (JM), 25.X.1984.

Host plants recorded: *Calycotome villosa*, *Cedrus deodara*, *Cistus incanus*, *Pistacia lentiscus*.

### STENOPSOCIDAE

#### *Graphopsocus cruciatus* (Linnaeus, 1768)

Previous records: Galil and Halperin, 1983.

MATERIAL EXAMINED: 1♂, Gilbon (GO), 15.IV.1982, leg. C. Besuchet and I. Loebel; 3♀♀, Lavi (LG), 9.VII.1984, 10.IV.1985; 1♀, Alone Aba (LG), 20.V.1985; 2♂♂ 2♀♀, Caesarea (CP), 1.IV.1986; 15♂♂ 25♀♀, Ilanot (CP), 21.II.1985, 9 and 14.IV, 16 and 19.V.1985; 2♀♀, Hadassim (CP), 9.IV.1985; 4♂♂ 1♀, Miqwe Yisra'el (CP), 19.IV.1985, 19.V.1985; 4♂♂ 8♀♀, Gan Shelomo (CP), 8.IV.1985; 1♂ 4♀♀, Tel Zafit (SH), 17.IV.1985.

Host plants recorded: *Acacia arabica*, *A. saligna*, *Celtis laevigata*, *Cercis siliquastrum*, *Dodonaea viscosa*, *Laurus nobilis*, *Ligustrum japonicum*, *Maclura pomifera*, *Melaleuca megacephala*, *Olea europaea*, *Phillyrea latifolia*, *Pistacia atlantica*, *P. lentiscus*, *Pittosporum tobira*, *P. undulatum*, *Pyrus communis*, *P. syriaca*, *Quercus ithaburensis*, *Rhamnus alaternus*, *Schinus terebinthifolius*.

### LACHESILLIDAE

#### *Lachesilla bernardi* Badonnel, 1938

Previous records: Galil, 1981; Galil and Halperin, 1983.

MATERIAL EXAMINED: 1♀, Tel Dan (UG), 19.VII.1987; 2♂♂, Kefar Szold (HV), 20.XI.1985; 2♂♂ 6♀♀, Gonen (HV), 9.IX.1984; 1♀, Bet Qeshet (LG), 4.X.1984; 2♂♂ 2♀♀, Ilanot (CP), 1.XII.1984; 2♂♂ 3♀♀, Sede Boquer (CN), 16.VII, and 11.IX.1984; 1♂ 1♀, Avedat (CN), 14.X.1984.

Host plants recorded: *Calycotome villosa*, *Pistacia vera*, *Populus alba*, *P. euramericana*.

*Lachesilla pedicularia* (Linnaeus, 1758)

Previous records: Galil, 1981; Galil and Halperin, 1983.

MATERIAL EXAMINED: 1♂, Wadi Nahla'ot (SA), 9.VII.1984, on *Ficus carica*; 1♀, Havat Noy (CP), 20.XI.1984, on *Malus sylvestris*; 1♀, Tel Zafit (SH), 17.IV.1985, on *Pyrus syriaca*.

*Lachesilla quercus* (Kolbe, 1880)

Previous records: Galil, 1981; Galil and Halperin, 1983.

MATERIAL EXAMINED: 15♂♂ 14♀♀, Afiq (GO), 10.VI.1968, on *Pistacia atlantica*; 1♂, Alone Aba (LG), 20.V.1985, on *Quercus ithaburensis*; 1♀, Ilanot (CP), 18.IV.1985, on *Callitris calcaratum*. 1♂, Miqwe Yisra'el (CP), 19.IV.1985, on *Pistacia lentiscus*; 1♀, Ben Shemen (SH), 6.IV.88, on *Lycium* sp.

ECTOPSOCIDAE

*Ectopsocopsis cryptomeriae* (Enderlein, 1907b)\*

MATERIAL EXAMINED: 18♂♂ 5♀♀, Kefar Szold (HV), 20.XI.1985, on *Pistacia vera*; 1♂, Ramat Gan, 5.XII.1985, on *Acacia ligulata*.

*Ectopsocus briggsi* McLachlan, 1899

Previous records: Galil and Halperin, 1983.

MATERIAL EXAMINED: 2♂♂ 3♀♀, Regba (CP), 24.VI.1987, leg. E. Swirski; 2♂♂ 4♀♀, Alone Aba (LG), 20.V.1985; 147♂♂ 209♀♀, Ilanot (CP), 8.V.1981, 12.VI.1981, 26.V.1984, 24.I.1985, 21.II.1985, 9, 14 and 18.IV.1985; 1♀, Hadassim (CP), 9.IV.1985; 2♀♀, Herzliya, 5.V.1982, leg. A. Freidberg; 8♂♂ 15♀♀, Horshim (CP), 20.II.1984, leg. E. Swirski; 3♂♂ 2♀♀, Miqwe Yisra'el (CP), 19.IV.1985, 19.V.1985; 1♂, Gan Shelomo (CP), 8.IV.1985; 1♂, Sede Boqer (CN), 16.VII.1984.

Host plants recorded: *Acacia arabica*, *A. saligna*, *Callitris calcaratum*, *C. propinqua*, *C. verrucosa*, *Celtis laevigata*, *Cercis siliquastrum*, *Cupressis sempervirens*, *Dodonaea viscosa*, *Eucalyptus* sp., *Laurus nobilis*, *Ligustrum japonicum*, *Maclura pomifera*, *Melaleuca megacephala*, *Myrtus communis*, *Persea americana*, *Phillyrea latifolia*, *Pistacia lentiscus*, *P. vera*, *Pittosporum tobira*, *P. undulatum*, *Platanus orientalis*, *Pyrus communis*, *P. syriaca*, *Quercus ithaburensis*, *Rhamnus alaternus*, *Schinus terebinthifolius*, *Styrax officinalis*, *Tetraclinis articulata*, *Ulmus canescens*.

*Ectopsocus meridionalis* Ribaga, 1904

Previous records: Galil, 1981; Galil and Halperin, 1983.

MATERIAL EXAMINED: 1♀, Ramat haShofet (SA), 26.VII.1984; 5♀♀, Ilanot (CP), 26.V.1984, 18.IV.1985, 16 and 18.V.1985, 1♀, Miqwe Yisra'el (CP), 19.IV.1985.

Host plants recorded: *Callitris propinqua*, *Celtis laevigata*, *Maclura pomifera*, *Pistacia lentiscus*, *Ulmus canescens*.

*Ectopsocus vachoni* Badonnel, 1945\*

MATERIAL EXAMINED: 1♀ (macropterous), near Zefat (UG), 500 m, 26.IV.1982, leg. C. Besuchet and I. Loebl, under stones; 1♀ (micropterous), 3 km W of Ginnosar (LG), 24.V.1973, leg. I. Loebl, by sifting under *Eucalyptus* sp.; 1♀ (micropterous), Mt. Carmel (CA), 28.V.1973, leg. I. Loebl, by sifting under *Nerium oleander*.

PERIPSOCIDAE

*Peripsocus parvulus* Kolbe, 1880

Previous records: Galil and Halperin, 1983.

*Peripsocus yuleki* Galil, 1983

Previous records: Galil and Halperin, 1983.

Comments: This interesting species is known only from Israel.

PSEUDOCAECILIIDAE

*Trimerocaecilius becheti* Meinander, 1978\*

MATERIAL EXAMINED: 1♀ 1♂, Ramat haShofet (SA), 11.VII.1984; 16♂♂ 18♀♀, Ilanot (CP), 12.V.1984, 1 and 11.VII.1984, 20.IX.1984.

Host plants recorded: *Fraxinus syriaca*, *Ligustrum ovalifolium*, *Ulmus canescens*.

Comments: The species was known before only from Rumania (Meinander, 1978), Greece (Lienhard, 1981) and Italy (Schneider and Dessart, 1983).

TRICHOPSOCIDAE

*Trichopsocus dalii* (McLachlan, 1867)

Previous records: Galil, 1981; Galil and Halperin, 1983.

MATERIAL EXAMINED: 1♂, Tel Dan (UG), 19.VII.1987; 2♂♂ 7♀♀, Ilanot (CP), 30.XI.1984, 9 and 14.IV.1985, 19.V.1985, 30.X.1985; 1♀, Miqwe Yisra'el (CP), 19.IV.1985.

Host plants recorded: *Celtis laevigata*, *Cercis siliquastrum*, *Laurus nobilis*, *Melaleuca megacephala*, *Myrtus communis*, *Pyrus syriaca*, *Rhamnus alaternus*.

ELIPSOCIDAE

*Elipsocus abdominalis* Reuter, 1904\*

MATERIAL EXAMINED: 1♀, Lavi (LG), 10.IV.1985, on *Olea europaea*; 2♂♂ 1♀, Yodfat (LG), 20.XII.1984, 10.I.1985, on *Pistacia vera*.

*Elipsocus hyalinus* (Stephens, 1836)

Previous records: Galil and Halperin, 1983.

MATERIAL EXAMINED: 1♀, Mt. Hazon (LG), 1.IV.1985, on *Pistacia vera*; 3♀♀, Ilanot (CP), 1.III.1985, on *Calycotome villosa*.

*Hemineura trudiae* n.sp.

Male – not observed.

Female – Coloration: Head (Fig. 5) whitish, with brown spots and light brown longitudinal striae on postclypeus, median frontal spot subdivided. Eyes grey (freshly killed specimen). Antenna brown; maxillary palpus light brown, apex of last segment darker. Legs light brown, tarsi darker, some dark brown spots on femur. Abdomen whitish, tergites finely mottled with small brown spots, laterally somewhat more pigmented, especially on tergite 6.

Morphology: Almost apterous (wing rudiments consist only of extremely small membranous lateral borders of thoracic terga). Compound eyes small; ocelli absent, only very small dark spots at their place (Fig. 5). Antenna with 2-3 placoid sensilla in basal half of  $f_1$ , one such sensillum subapically on  $f_4$  and  $f_6$  and two of them on  $f_{10}$ . Pretarsal claw with slender basal process, distinct preapical tooth and straight, pointed pulvillus. Pearman's organ on hind coxa well developed. Hairs on abdominal tergites 1-2 times as long as the distance between them. Terminalia. Epiproct simple, paraproct with 8-9 trichobothria. Subgenital plate (Fig. 7) without setae-bearing lobes on posterior margin, pigmentation of apical half interrupted by two colourless areas on both sides of the middle. Ovipositor valvulae as in Fig. 6; dorsal valvula in apical half with a small membranous process near dorsal margin; external valvula short, not hatchet-shaped, its dorsal border regularly curved, hairs present on entire external surface.

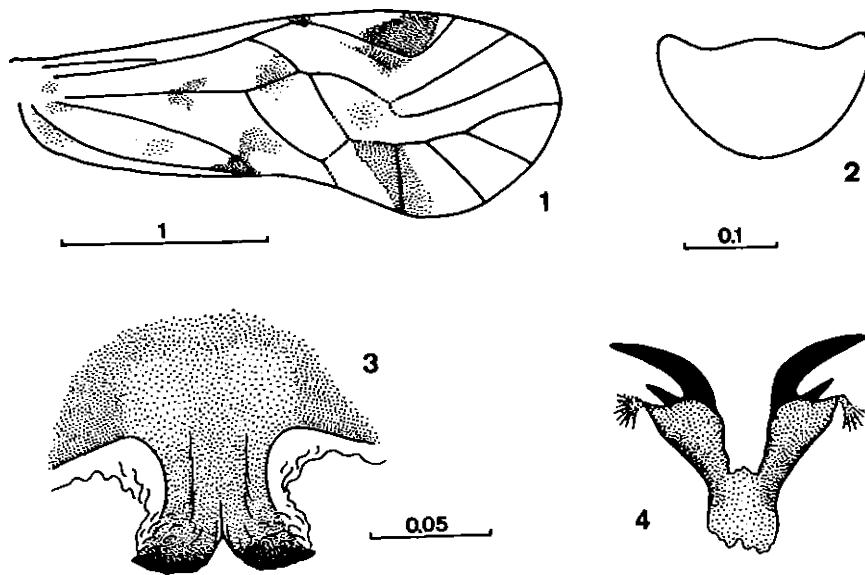
Dimensions (holotype): Body length (in alcohol): 2.5 mm. Antenna: 2.07 mm. Articles of flagellum ( $\mu$ ):  $f_1=386$ ;  $f_2=309$ ;  $f_3=270$ ;  $f_4=202$ ;  $f_5=124$ ;  $f_6=110$ ;  $f_7=105$ ;  $f_8=94$ ;  $f_9=84$ ;  $f_{10}=83$ ;  $f_{11}=105$ . Hindleg ( $\mu$ ): F=606; T=1015;  $t_1=270$ ;  $t_2=71$ ;  $t_3=118$ ; Index  $t_1/t_2+t_3=1.43$ .

MATERIAL EXAMINED: ♀ holotype (MHNG), 1♀ paratype (NCI) and 2 nymphs (♂) (MHNG), Shifta (CN), 29.III.1988, on *Hammada salicornica*.

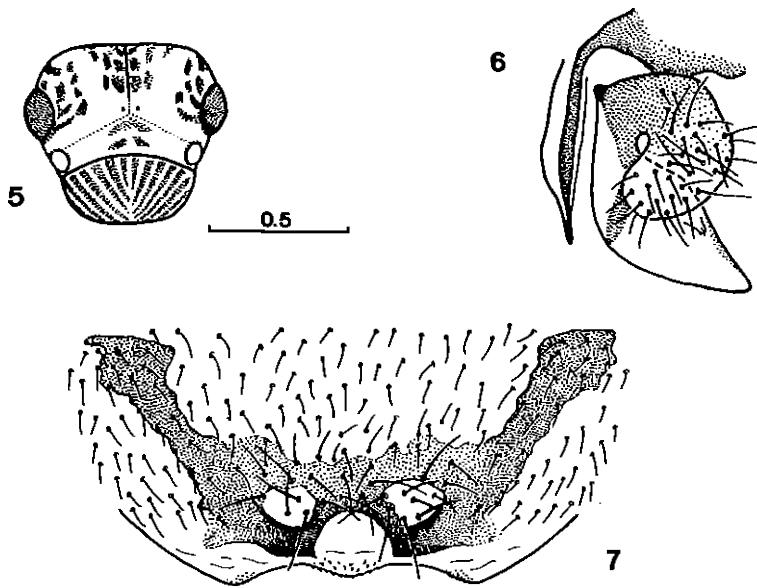
Comments: Even if the adult male is not known, the presence of the two male nymphs in the sample proves the bisexuality of the species. It stands close to the parthenogenetic species *H. bigoti* Badonnel, 1970, known from southern France and Greece (cf. Lienhard, 1986b). These two species are the only ones in the genus *Hemineura* lacking the two setae-bearing lobes on posterior margin of the subgenital plate. They are easily distinguishable by the characters of the external valvula, which is long, straight and bearing hairs only on its ventral half in *H. bigoti*, but much shorter, with curved dorsal border and bearing hairs on the entire external surface in *H. trudiae*. There exist also some differences in coloration (the two colourless areas of the subgenital plate, near distal margin, are lacking in *H. bigoti*) and biometry (index  $t_1/t_2+t_3$  only 1.0-1.1 in *H. bigoti*; cf. Badonnel, 1970).

MESOPSOCIDAE

*Cyrtopsocus* cf. *dromedarius* (Ball, 1937)\*



Figs. 1-4. *Blaste (Euclismia) membranosa* n. sp. ♂. — 1. Forewing; 2. Epiproct; 3. Apical process of hypandrium (posterior view); 4. Phallosome.



Figs. 5-7. *Hemineura trudiae* n.sp. ♀. — 5. Coloration of head; 6. Ovipositor valvulae; 7. Subgenital plate. Scales in mm, same scale for Figs. 2, 4, 6, 7.

MATERIAL EXAMINED: 1♀, Wadi Mashah (CN), 16.II.1976, on *Artemisia* sp., leg. A. Freidberg; 1♂, Nahal Nekarot (CN), 10.XII.1982, leg. N. Erlich.

Comments: Both specimens are damaged, in particular the female is completely lacking the abdomen. Therefore, the specific identification is not absolutely sure. Contrary to the following species the male has only one small median hump on abdominal tergite 5. *C. dromedarius* has previously been recorded only from Morocco (Ball, 1937; Meinander, 1966) and Tunisia (Smithers, 1979).

*Cyrtopsocus gibbosus* Lienhard, 1988\*

MATERIAL EXAMINED: 2 nymphs (♂), Be'er Mash'abim (NN), 31.III.1988, on *Artemisia monosperma* and *Hammada salicornica*.

Comments: The species is characterized, in both sexes, by the pair of humps on abdominal tergite 5, also visible in nymphs. It has previously been recorded only from Greece and Cyprus (Lienhard, 1988).

*Mesopsocus* sp.\*

MATERIAL EXAMINED: Two last instar nymphs (male and female), Tal Grove (HV), 28.IV.1984, on *Pistacia atlantica*.

PSOCIDAE

*Amphigerontia contaminata* (Stephens, 1836)

Previous records: Galil and Halperin, 1983.

MATERIAL EXAMINED: 10♂♂ 10♀♀, Mt. Hazon (LG), 1.XI.1984-1.V.1985; 9♂♂ 6♀♀, Yodefat (LG), 20.XII.1984-2.VI.1985; 1♂, Ilanot (CP), 14.IV.1985; 2♂♂ 1♀, Miqwe Yisra'el (CP), 19.IV.1985; 1♂ 1♀, Kefar Ezyon (JM), 3.IV.1985; 1♂ 1♀, Avi'ezer (SH), 3 and 17.IV.1985; 1♀, Netiv haLamedHe (SH), 7.V.1985.

Host plants recorded: *Cedrus deodara*, *Cercis siliquastrum*, *Pistacia vera*, *Pyrus syriaca*, *Rhamnus palaestina*, *Ulmus* sp.

*Blaste (Euclismia) conspurcata* (Rambur, 1842)

Previous records: Galil and Halperin, 1983.

*Blaste (Euclismia) membranosa* n. sp.

Female — not observed.

Male — Coloration: Head creamy white, dorsally with dark brown spots on occiput, along vertical suture and near compound eyes; postclypeus with numerous fine dark brown longitudinal striae. Antenna dark brown, maxillary palp light brown. Thorax dark brown, yellowish along borders of mesonotal sclerites, legs brown. Wings hyaline, forewings with colour pattern as in Fig. 1; the brown spot at the areola postica highly visible. Abdomen

yellowish, laterally and dorsally with some brown hypodermal pigment, terminalia dark brown.

Morphology: Compound eyes relatively small (holotype: IO/D=2.0; PO/D=0.66). Ocelli well developed. Wing venation as typical for the genus (Fig. 1). Pearman's organ of hindcoxa well developed. Terminalia: Paraproct as typical for the genus, anterior border of epiproct with very weakly developed median lobe (Fig. 2). Apical process of hypandrium characteristic (Fig. 3), consisting of a dorsally directed medially incised protrusion, which is laterally connected with the more basal parts of the hypandrium by hyaline membranes, its apical half with some imbricate sculpture. Phallosome also characteristic (Fig. 4), each half with a long curved inner tooth and a much smaller, almost straight outer tooth.

Dimensions (holotype, mm): Body length (in alcohol): 2.6. Antenna (incomplete, not measured). Forewing length: 2.65. Hindleg: F=0.55; T=1.08;  $t_1=0.337$ ;  $t_2=0.133$ .

MATERIAL EXAMINED: ♂ holotype (MHNG), Ilanot (CP), 16.V.1985, on *Cercis siliquastrum*; 2♂♂ (paratypes) (MHNG), Ilanot, 8.V.1981, on *Cupressus sempervirens*; 1♂ (paratype) (NCI), Mt Hazon (LG), 17.V.1985, on *Pistacia vera*.

Comments: By the characteristic shape of the apical process of the hypandrium and of the phallosome the new species is easily distinguishable from all other species of the genus where males are known.

### *Loensia variegata* (Latreille, 1799)

Previous records: Galil and Halperin, 1983.

MATERIAL EXAMINED: 1♂ 1♀, Yodefat (LG), 10.IV.1985, 1.V.1985, on *Pistacia vera*; 1♂ 1♀, Ramat haShofet (SA), 25.IV.1985, 10.V.1985, on *Ulmus canescens*; 1♂ 2♀♀, Ha'ela Valley (SH), 25 and 30.V.1985, *Acacia albida*.

### *Ptycta nadleri* Galil, 1981

Previous records: Galil, 1981; Galil and Halperin, 1983.

Comments: This very interesting species is known only from Rumania and Israel; supplements to the original description and illustrations of both sexes are given by Lienhard (1986a).

## MYOPSOCIDAE

### *Myopsocus eatoni* McLachlan, 1880

*Phlotodes eatoni* (McMachlan) (cf. Mockford, 1982)

Previous records: Galil and Halperin, 1983.

MATERIAL EXAMINED: 1♀, Kefar Hananya (LG), 6.VI.1985; 27♂♂ 52♀♀, Lavi (LG), 5 and 15.VII.1984, 1.VI.1985; 1♂ 3♀, Ramat haShofet (SA), 11 and 26.VII.1984; 6♂♂ 5♀♀, Ar'ara (SA), 21.VII.1984, 25.V.1985; 1♂, Ilanot (CP), 1.VII.1984.

Host plants recorded: *Crataegus aronia*, *Ligustrum ovalifolium*, *Pistacia vera*, *Rhamnus alaternus*, *Ulmus canescens*, *Vitex agnus-castus*.

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