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Catalogue of beetles (Coleoptera) in Israel and adjacent areas: 2. Anobiidae

Katalog brouků (Coleoptera) Israele a přilehlých území: 2. Anobiidae

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Abstract. This catalogue of deathwatch beetles (Anobiidae) of Israel and adjacent areas is part of a recent effort to catalogue the beetle fauna of Israel. Fifty-six species are presented here. Thirty-six species were collected from stated localities in Israel for twenty species more investigation will be necessary to confirm their occurence in Israel fauna. If known, information about the local, regional and global distribution and host plants of each species is included.

INTRODUCTION

The first comprehensive list of anobiid beetles of Israel (Palestine) appeared in Bodenheimer's (1937) "Prodromus Faunae Palestinae". In the "Prodromus" 17 species of deathwatch beetles were listed for Palestine, but no information was given about their regional or local distribution. More recently, Halperin & Español (1978) mentioned 23 species in Israel and 11 more species in the neighboring countries. They also provided valuable information about host plants of many species.

We took the opportunity to work on the beetle collection in the Zoological Museum of Tel Aviv University (TAU). Insects preserved in the collection have been collected during this century over all the territory of Israel and adjacent countries. The main contributions to the collection of deathwatch beetles were by F. S. Bodenheimer, H. Bytinski-Salz, V. Chikatunov, A. Freidberg, D. G. Furth, D. Gerling, J. Halperin, J. Kugler, T. Pavlíček, and D. Simon. This catalogue is based on this collection and on the cited literature. The division into subfamilies follows Lawrence & Newton (1995), except for the subfamily Ptininae, which was excluded from this catalogue. All specimens in the TAU have been seen by the authors and their identification has been revised by the first author. If known, information about the local, regional and global distribution and host plants of each species is included.

In total, 56 species of deathwatch beetles have been included in the catalogue, of which 36 (64 %) were collected from stated localities in Israel. The distribution of the remaining 20 species will need additional investigation to determine whether they are part of the Israel fauna. Biogeographically, the most represented groups of deathwatch beetles in the Israel are Mediterranean

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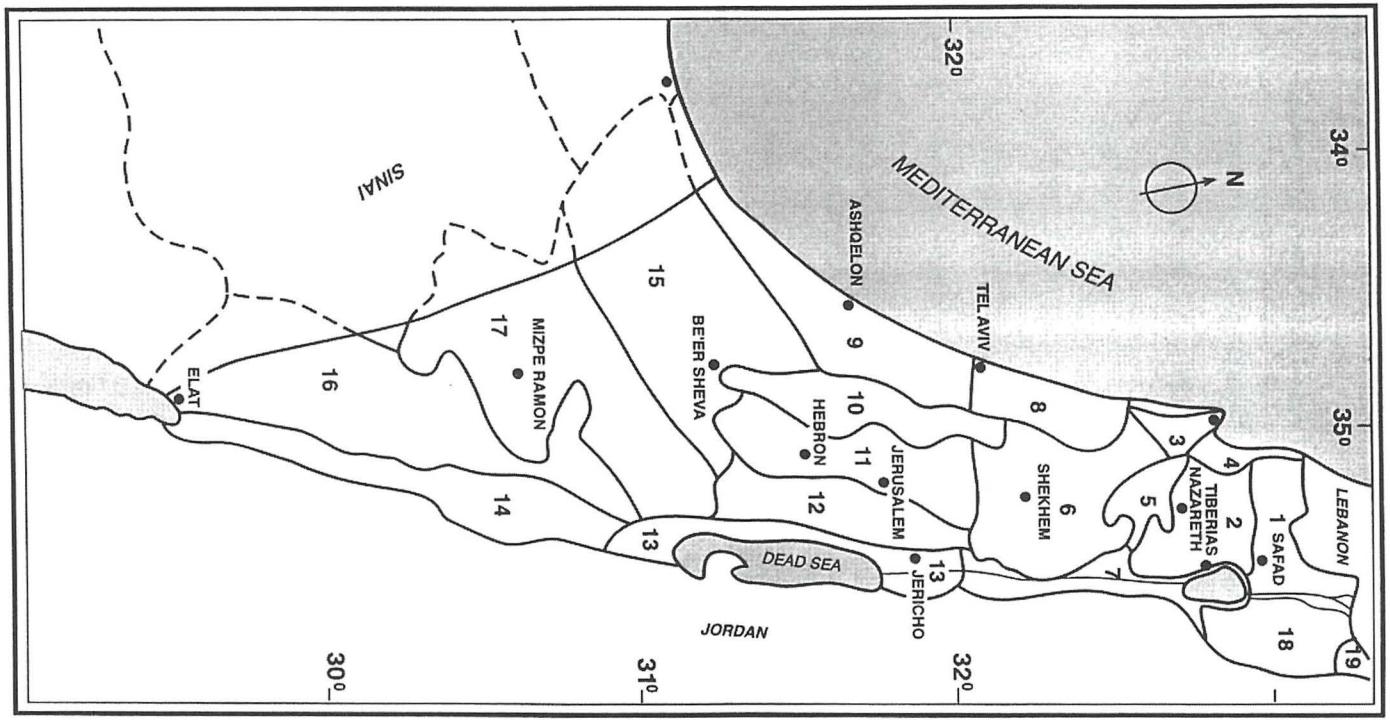


Fig. 1. Zoogeographical areas in Israel (according to Fishelson (1985), modified): 1. Upper Galilee (UG), 2. Lower Galilee (LG), 3. Carmel Ridge (C), 4. Northern Coastal Plain (NCP), 5. Valley of Yizre'el (YV), 6. Samaria (S), 7. Jordan Valley and Southern Golan (JV), 8. Central Coastal Plain (CCP), 9. Southern Coastal Plain (SCP), 10. Foothills of Judea (JF), 11. Judean Hills (JH), 12. Judean Desert (JD), 13. Dead Sea Area (DSA), 14. Arava Valley (AV), 15. Northern Negev (NN), 16. Southern Negev (SN), 17. Central Negev (CN), 18. Golan Heights (GH), 19. Mount Hermon (MH).

Obr. 1. Zoogeografické oblasti Israele (podle Fishelsona (1985), upraveno): 1. Vrchní Galilea (UG), 2. Dolní Galilea (LG), 3. Pohoří Karmel (C), 4. Severní pobřežní rovina (NCP), 5. Údolí Yizre'el (YV), 6. Samaria (S), 7. Údolí řeky Jordán a jižní část Golanských výšin (JV), 8. Centrální pobřežní rovina (CCP), 9. Jižní pobřežní rovina (SCP), 10. Předhoří Judejských hor (JF), 11. Judejské hory (JH), 12. Judejská poušť (JD), 13. Oblast Mrtvého moře (DSA), 14. Údolí Arava (AV), 15. Severní Negev (NN), 16. Jižní Negev (SN), 17. Centrální Negev (CN), 18. Golanské výšiny (GH), 19. Pohoří Hermon (MH).

(9 species), Palaearctic (6 species), Eastern Mediterranean (6 species) and Cosmopolitan species (4 species). Locally distributed Israel and Levantine species are represented by 3 species only. Regionally, the northern areas of Israel harbor more species and the southern desert areas fewer. Table 1 indicates also probable underestimation of species richness in some northern regions, such as Mt. Hermon, Valley of Yizre'el and Lower Galilee. More sampling efforts will be needed to get a more reasonable picture of the distribution of deathwatch beetle species in different zoogeographical areas (Fig. 1) of Israel.

Abbreviations used in the catalogue:
C, E, S, N - Central, Eastern, Southern, Northern.
TAU - entomological collection at the Zoological Museum of Tel Aviv University (Israel).
For abbreviations of zoogeographical areas in Israel, see Fig. 1.

A SURVEY OF SPECIES

Family A N O B I I D A E
species: 56

1. Subfamily **EUCRADINAE**
species: 2

1. ***Clada* (s. str.) *halperini*** Español, 1978 - Israel (Español 1978). Israel: DSA (Español 1978, Halperin & Español 1978, TAU). Development: *Tamarix tetragyna* (Halperin & Español 1978).
2. ***Clada* (s. str.) *tricostata*** (Baudi di Selve, 1874) (= *Hedobia quinquecostata* Schilsky, 1898; *Hedobia tricostata* var. *obscuricolor* Pic, 1909) - Cyprus, Syria (Pic 1912), Lebanon (Pic & Pic 1901), Palestine (Israel?) (Bodenheimer 1937), Israel (Halperin & Español 1978). Israel: C, CCP, DSA, SCP: (Halperin & Español 1978, TAU). Development: *Acacia albida* (Halperin & Español 1978).

2. Subfamily **DRYOPHILINAE**
species: 2

3. ***Dryophilus forticornis*** Abeille de Perrin, 1875 - Sicily (Audisio et al. 1995), Turkey (Zahradník 1998), Syria (Abeille de Perrin 1875, Schilsky 1898, Reitter 1901, Pic 1912, Winkler 1927, Halperin & Español 1978), Palestine (Israel?) (Bodenheimer 1937).
4. ***Dryophilus longicollis*** (Mulsant et Rey, 1853) (= *Dryophilus longicollis* var. *elongatus* Pic, 1921) - C S Europe, N Africa (Horion 1961), Palestine (Israel?) (Bodenheimer 1937). This species probably does not occur in E Mediterranean; the record perhaps refer to the very similar *D. forticornis* Abeille de Perrin, 1875.

3. Subfamily **ERNOBIINAE**
species: 6

5. ***Xestobium* (*Hyperisus*) *plumbeum*** (Illiger, 1801) (= *Anobium aeneicolle* Bach, 1852; *Anobium coerulescens* Geoffroy, 1785; *Anobium cornicularium* Beck, 1817; *Anobium erythro-*

Table 1. List of Anobiidae of Israel and neighbouring countries (abbreviations, see Fig. 1).
Tabulka 1. Seznam červotočovitých (Anobiidae) Izraele a přilehlých území (zkratky viz obr. 1).

	Species (Druh)	AV	C	CCP	CN	DSA	GH	JD	JF	JH	JV	LG	MH	NCP	NN	S	SCP	SN	UG	YV
	Eucradinae																			
1	*Clada* (s. str.) *halperini* Español, 1978					1														
2	*Clada* (s. str.) *tricostata* (Baudi di Selve, 1874)		1	1		1											1			
	Dryophilinae																			
	Dryophilus forticornis Abeille de Perrin, 1875 [1]																			
	Dryophilus longicollis (Mulsant et Rey, 1853) [1,2]																			
	Ernobiinae																			
	Xestobium (*Hyperisus*) *plumbeum* (Illiger, 1801) [3]																			
	Xestobium (s. str.) *rufovillosum* DeGeer, 1774 [3]																			
3	*Ernobius mollis mollis* (Linnaeus, 1758)			1			1							1			1		1	
4	*Ernobius oertzeni* Schilsky, 1900		1				1		1	1		1		1		1			1	
	Ernobius pruinosus (Mulsant et Rey, 1863) [3]																			
	Ernobius syriacus Pic, 1899 [3]																			
	Anobiinae																			
5	*Gastrallus corsicus* Schilsky, 1898		1	1		1						1	1				1			1
	Gastrallus immarginatus (P. W. J. Müller, 1821) [2]																			
6	*Gastrallus laevigatus* (Olivier, 1790)		1																	
7	*Gastrallus pubens* Fairmaire, 1875			1		1				1	1						1		1	
	Falsogastrallus unistriatus (Zoufal, 1897) [3]																			
8	*Oligomerus ptilinoides* (Wollaston, 1854) [4]																			
9	*Stegobium paniceum* (Linnaeus, 1758)		1	1	1	1				1	1						1		1	
	Nicobium auroguttatum Reitter, 1908 [3]																			
10	*Nicobium castaneum* (Olivier, 1790)			1						1										
11	*Anobium punctatum* (DeGeer, 1774)									1				1						
	Priobium carpini (Herbst, 1793) [3]																			
	Priobium dendrobiiforme (Reitter, 1901) [3]																			
	Ptilininae																			
	Ptilinus pectinicornis (Linnaeus, 1758) [3]																			
	Ptilinus sinaitus Pic, 1939 [3]																			
12	*Plumilus grandicollis* (Ménétriés, 1832)									1										
	Xyletininae																			
13	*Metholcus phoenicis* (Fairmaire, 1859)		1	1								1		1		1	1			1
14	*Metholcus rotundicollis* Schilsky, 1898		1																	
15	*Xyletinus* (*Calypterus*) *bucephallus theanus* Reitter, 1901		1		1	1	1		1							1	1		1	
	Xyletinus (*Evaniocerius*) *semilimbatus* Pic, 1899 [1]																			

	Species (Druh)	AV	C	CCP	CN	DSA	GH	JD	JF	JH	JV	LG	MH	NCP	NN	S	SCP	SN	UG	YV
16	*Xyletinus* (*Xyletomimus*) *leprieuri* Chobaut, 1894				1										1					
17	*Xyletinus* (s. str.) *laticollis* (Duftschmid, 1825)		1	1						1						1			1	
	Xyletinus (s. str.) *pectinatus pectinatus* (Fabricius, 1792) [1) 2)]																			
18	*Xyletinus* (s. str.) *subrotundatus* Lareynie, 1853							1												
19	*Xyletinus* (s. str.) *wewalkai* Gottwald, 1977		1																	
20	*Lasioderma baudi* Schilsky, 1899		1	1		1						1					1		1	
21	*Lasioderma bubalus* (Fairmaire, 1860)			1		1					1					1	1		1	
22	*Lasioderma haemorrhoidale* (Illiger, 1807)		1	1		1				1		1		1	1	1	1		1	
23	*Lasioderma kiesenwetteri* Schilsky, 1899		1	1		1					1				1				1	
	Lasioderma laeve (Illiger, 1807) [2)]																			
24	*Lasioderma punctulatum* Reitter, 1884	1	1	1		1	1	1	1	1										
25	*Lasioderma redtenbacheri redtenbacheri* (Bach, 1852)		1	1		1	1		1	1	1					1				
26	*Lasioderma serricorne* (Fabricius, 1792)	1	1	1		1	1		1	1		1	1	1		1	1		1	
	Mesocoelopodinae																			
	Mesothes ferrugineus Mulsant et Rey, 1861 [3)]																			
	Mesocoelopus collaris Mulsant et Rey, 1864 [2)]																			
27	*Mesocoelopus ingibbosus* Pic, 1934		1			1														
	Dorcatominae																			
28	*Priartobium serrifunis* Reitter, 1901		1																	
29	*Synanobium parmatum* (Baudi di Selve, 1874)		1									1								1
	Stagetus curimoides curimoides (Reitter in Brenske et Reitter, 1884) [3)]																			
30	*Stagetus dorcatomoides* (Reitter in Brenske et Reitter, 1884)		1																1	
31	*Stagetus elongatus* (Mulsant et Rey, 1861)		1																	
	Stagetus ferrugineus Español, 1969 [3)]																			
32	*Stagetus franzi* Español, 1969		1																	
33	*Stagetus latior* Pic, 1899																		1	
34	*Stagetus pilula* (Aubé, 1861) [4)]																			
35	*Stagetus puncticollis* (Reitter in Brenske et Reitter, 1884)		1						1											
36	*Stagetus vicinus* (Pic, 1921)																		1	
	Total (Celkem)	2	23	15	3	14	6	2	6	11	5	7	2	6	3	8	11	0	14	3

[1] present in the given zoogeographical area (přítomný v daném území)
[1)] quoted only in Bodenheimer (1937) from "Palestine" (citován pouze Bodenheimerem (1937) z „Palestiny")
[2)] recorded from Israel but probably not occuring here (druh uváděný, ale pravděpodobně se nevyskytující v Israeli)
[3)] occurrence in Israel probable (výskyt v Israeli pravděpodobný)
[4)] occurrence in Israel confirmed without exact data (výskyt v Israeli potvrzen, ale bez bližších známých údajů)

pum Stephens, 1830; *Anobium politum* Duftschmid, 1825; *Anobium thoracicum* Rossi, 1790; *Xestobium ernobiiformis* Reitter, 1901; *Xestobium graecum* Mařan, 1941; *Xestobium plumbeum* var. *bicoloripenne* Pic, 1933; *Xestobium plumbeum* var. *rufonotatum* Pic, 1923; *Xestobium subaeneum* Reitter, 1897; *Xestobium subaeneum* var. *circassicum* Pic, 1922; *Xestobium syriacum* Pic, 1897) - Europe (Horion 1961), Caucasus (Logvinovskiy 1985), Turkey (Zahradník 1998), Syria (Halperin & Español 1978).

6. ***Xestobium* (s. str.) *rufovillosum*** DeGeer, 1774 (= *Anobium fatidicus* Shaw, 1792; *Anobium pulsatorium* Scriba, 1790; *Byrrhus rubiginosus* O. F. Müller, 1776; *Dermestes tessellatus* Villers, 1790; *Ptinus faber* Thunberg, 1784; *Ptinus pulsator* Schaller, 1783; *Xestobium squalidum* Le Conte, 1874) - Europe, N Africa (Horion 1961), C Asia (Logvinovskiy 1985), Turkey (Zahradník 1998), N America (White 1982), New Caledonia (Pic 1912).
7. ***Ernobius mollis mollis*** (Linnaeus, 1758) (= *Anobium convexifrons* Melsheimer, 1845; *Anobium sybaris* Kugelann, 1792; *Ernobius reversus* Sharp, 1916; *Ernobius tarsatus* Kraatz, 1881; *Liozoum consimile* Mulsant et Rey, 1863; *Liozoum sulcatulum* Mulsant et Rey, 1863) - Cosmopolitan: Europe, N Africa, Asia, N America, S Africa, New Zealand, Australia, New Caledonia (Horion 1961, Johnson 1975, Pic 1912), Israel (Halperin & Español 1978). Israel: CCP, GH, NCP, SCP, UG: (Halperin & Español 1978). Development: *Pinus sylvestris* (imported wood from Denmark and Sweden), *P. maritima*, *P. brutia*, *P. radiata* (Halperin & Español 1978).
8. ***Ernobius oertzeni*** Schilsky, 1900 (= *Ernobius schilskyanus* Sharp, 1916) - Italy, Greece (Johnson 1975), Israel (Halperin & Español 1978). Israel: GH, JF, LG, S, UG: (Halperin & Español 1978); C: Nahal Oren (TAU); JF: Asif, Karme Yosef (TAU); JH: Jerusalem (TAU) NCP: Atlit (TAU). Development: *Pinus halepensis*, *P. brutia*, *Cedrus* sp. (Halperin & Español 1978).
9. ***Ernobius pruinosus*** (Mulsant et Rey, 1863) (= *Ernobius beauprei* Pic, 1908; *Ernobius cedri* Reitter, 1901; *Ernobius incisus* Pic, 1904; *Ernobius minutus* Pic, 1921; *Ernobius normandi* Pic, 1899; *Ernobius theryi* Pic, 1902; *Ernobius tuniseus* Pic, 1921) - Mediterranean, Lebanon (Johnson 1975).
10. ***Ernobius syriacus*** Pic, 1899 (= *Ernobius kiesenwetteri pubescens* Pic, 1921) - Turkey (Zahradník 1998), Syria (Pic 1899a, Pic 1912, Winkler 1927, Johnson 1975, Halperin & Español 1978).

4. Subfamily **ANOBIINAE**
species: 12

11. ***Gastrallus corsicus*** Schilsky, 1898 (= *Gastrallus immarginatus* var. *coarticollis* Schilsky, 1898) - Mediterranean (Español 1963), Palestine (Israel?) (Bodenheimer 1937), Israel (Halperin & Español 1978). Israel: C, DSA, YV: (Halperin & Español 1978); C: Gan Shemu'el, Nahal Oren (TAU); CCP: Tel Aviv, Ramat haSharon, Illanot, Ga'ash (TAU); LG: Sharona (TAU); MH: Mt. Hermon (TAU); SCP: Nizzanium (TAU). Development: *Robinia* sp., *Sclerodendron* sp., *Araucaria* sp., *Casuarina* sp., *Populus* sp., *Ulmus* sp., *Celtis* sp., *Morus* sp., *Ficus* sp., *Persea* sp., *Moringa* sp., *Acer* sp., *Cotoneaster* sp., *Acacia* sp., *Cercis* sp., *Ceratonia* sp., *Delonix* sp., *Hibiscus* sp., *Eleagnus* sp., *Olea* sp. (Halperin & Español 1978).
12. ***Gastrallus immarginatus*** (P. W. J. Müller, 1821) (= *Anobium exilis* Gyllenhal, 1827) - Europe, Asia, Japan (Horion 1961, Logvinovskiy 1985, Español 1963). According to Español

(1963) *G. immarginatus* is not distributed in Syria and was misidentified with very similar *Gastrallus corsicus* Schilsky, 1898.

13. ***Gastrallus laevigatus*** (Olivier, 1790) (= *Anobium parallelum* Küster, 1849; *Anobium sericatum* Castelnau, 1840) - Europe, Japan, Syria (Horion 1961, Logvinovskiy 1985, Español 1963), Palestine (Israel?) (Bodenheimer 1937). Israel: C: Nahal Oren (Pavlíček et al. 1998, TAU).
14. ***Gastrallus pubens*** Fairmaire, 1875 (= *Gastrallus rollei* Reitter, 1912; *Gastrallus striatus* Zoufal, 1897; *Gastrallus subtuberculatus* Pic, 1949) - Egypt, Tunis, Senegal, Sudan, Caucasus, Lebanon, Jordan, Israel (Español 1963, Halperin & Español 1978). Israel: CCP, DSA, JH, JV: (Halperin & Español 1978); CCP: Even Yehuda (TAU); SCP: Hulda (TAU); UG: Nahal Yehudiya (TAU). Development: *Moringa peregrina* (Halperin & Español 1978) and books.
15. ***Falsogastrallus unistriatus*** (Zoufal, 1897) - C Asia (Logvinovskiy 1985), Italy (Audisio et al. 1995), Greece, Croatia (Pic 1912), Turkey (Zahradník 1998), Lebanon (Zoufal 1897), Syria (Winkler 1927, Español 1970, Halperin & Español 1978, Logvinovskiy 1985).
16. ***Oligomerus ptilinoides*** (Wollaston, 1854) (= *Anobium oculatum* Wollaston, 1865; *Anobium reyi* Brisout de Barneville in Grenier, 1867) - Mediterranean (Horion 1961), Canary Islands (Español 1962), Japan (Sakai 1982), Syrie (Schimitschek 1944), Israel (Halperin 1992).
17. ***Stegobium paniceum*** (Linnaeus, 1758) (= *Anobium ferrugineum* Herbst, 1783; *Anobium ireos* A. Villa et G. B. Villa, 1833; *Anobium minutum* Fabricius, 1792; *Anobium nanum* Küster, 1849; *Anobium obesum* Melsheimer, 1846; *Anobium tenuistriatum* Say, 1825; *Ptinus rubellus* Marsham, 1802; *Ptinus tenuicornis* Marsham, 1802; *Ptinus testaceus* Thunberg, 1784; *Ptinus upsaliensis* Gmelin, 1790) - Cosmopolitan (Pic 1912), Palestine (Israel?) (Bodenheimer 1937), Israel (Halperin & Español 1978). Israel: C: Nahal Oren, Mt. Carmel (TAU); CCP: Rehovot, Ramat haSharon, Kabri (TAU); CN: Sede Boger (TAU), DSA: Nahal Qumeran (TAU); JH: Jerusalem, Yesodot (TAU); JV: Ashdot Ya'agov (TAU); SCP: Yavne, Tel Gat (TAU); UG: Gadot (TAU). Development: *Delonix regia*, *Quercus calliprinos*, *Q. ithaburensis*, *Eriogaster philipsi*, *Picea* sp., *Triplochit* sp., *Pinus* sp., *Populus* sp., *Prunus* sp., *Acacia* sp., *Cercis* sp., *Pistacia* sp., *Vitis* sp., *Tamarix* sp., *Olea* sp., seeds of cereals and their products, book bindings, etc. (Halperin & Español 1978).
18. ***Nicobium auroguttatum*** Reitter, 1908 - Syria (Reitter 1908, Pic 1912, Winkler 1927).
19. ***Nicobium castaneum*** (Olivier, 1790) (= *Anobium fasciatum* Dufour, 1843; *Anobium tomentosum* Mulsant et Rey, 1863) - S Europe, Caucasus, N America, Japan, Syria, Palestine (Horion 1961), Israel (Halperin & Español 1978). Israel: CCP, JH: (Halperin & Español 1978); CCP: Tel Aviv (TAU). Development: *Delonix* sp., *Pinus* sp. and timber, furniture, etc. (Halperin & Español 1978).
20. ***Anobium punctatum*** (DeGeer, 1774) (= *Anobium amplicolle* Broun, 1880; *Anobium caelatum* Mulsant et Rey, 1864; *Anobium domesticum* Geoffroy in Fourcroy, 1785; *Anobium latreillei* Dufour, 1843; *Anobium striatum* Olivier, 1790; *Anobium ruficorne* Broun, 1880; *Hadrobregmus pumilus* Le Conte, 1865; *Ptinus cylindricus* Marsham, 1802) - Cosmopolitan (Pic 1912, Horion 1961), Palestine (Israel?) (Bodenheimer 1937), Israel (Halperin & Español 1978). Israel: JH: (Halperin & Español 1978); NCP: Haifa (TAU). Development: timber, furniture, etc. (Halperin & Español 1978).
21. ***Priobium carpini*** (Herbst, 1793) (= *Anobium serricorne* Duftschmid, 1825; *Anobium excisum* Mannerheim, 1843) - Europe, Caucasus (Horion 1961), C Asia, N Africa (Logvinovskiy 1985), Turkey (Zahradník 1998), Cyprus (Baudi di Selve 1874), Syria (Baudi di Selve 1874, Reitter 1901, Pic 1912).

22. ***Priobium dendrobiiforme*** (Reitter, 1901) - S Europe, Caucasus, Syria, Turkey (Reitter 1901, Pic 1912, Halperin & Español 1978, Logvinovskiy 1985).

5. Subfamily **PTILININAE**
species: 3

23. ***Ptilinus pectinicornis*** (Linnaeus, 1758) (= *Bostrichus pectinatus* Laicharting, 1781; *Dermestes cylindricus* O. F. Müller, 1776; *Ptilinus aspericollis* Ménétriés, 1832; *Ptilinus discolor* Faldermann, 1838; *Ptilinus impressifrons* Küster, 1847; *Ptinus serraticornis* Marsham, 1802) - Europe, Caucasus, C Asia, Siberia, Turkey (Horion 1961, Logvinovskiy 1985, Zahradník 1998), Syria (Reitter 1901, Winkler 1927, Logvinovskiy 1985).
24. ***Ptilinus sinaitus*** Pic, 1939 - N Sinai - Wadi Isla (Pic 1939, Alfieri 1976). According to the original description, it belongs probably to the genus *Pseudoptilinus* Leiler, 1969. Taxonomic revision is necessary.
25. ***Plumilus grandicollis*** (Ménétriés, 1832) - Caucasus, Turkestan (Logvinovskiy 1985), Israel (Halperin & Español 1978, Español 1983). Israel: JH: (Halperin & Español 1978).

6. Subfamily **XYLETININAE**
species: 17

26. ***Metholcus phoenicis*** (Fairmaire, 1859) (= *Metholcus abyssinicus* Pic, 1903; *Ptilinus cylindricus* Germar, 1817; *Trypopitys raymondi* Mulsant et Godart, 1859; *Xyletinus longipennis* Chevrolat, 1860) - Mediterranean, Somalia, Ethiopia (Español 1972), Palestine (Israel?) (Bodenheimer 1937), Israel (Halperin & Español 1978, Logvinovskiy 1985). Israel: C, CCP, NCP, SCP, YV: (Halperin & Español 1978); C: Nahal Oren (TAU) CCP: Tel Aviv, Herzliyya (TAU); LG: Shaar haAmakim (TAU); S: Nahal Tut (TAU). Development: *Amygdalus* sp., *Ulmus* sp., *Eriogaster philipsi*, *Quercus calliprinos*, macadamia nuts (Halperin & Español 1978).
27. ***Metholcus rotundicollis*** Schilsky, 1898 - Greece, Syria, Egypt, Turkey (Español 1972), Israel (Sahlberg 1913, Español 1972, Halperin & Español 1978). Israel: C: Nahal Oren (TAU).
28. ***Xyletinus* (*Calypterus*) *bucephallus theanus*** Reitter, 1901 (= *Xyletinus brunnescens* Obenberger, 1917; *Xyletinus megatomoides* Roubal, 1917) - E Mediterranean (Gottwald 1977), Sudan (Español 1979a), Egypt - Sinai (Alfieri 1976), Palestine (Israel?) (Bodenheimer 1937), Israel (Gottwald 1977). Israel: CN, DSA, GH, UG: (Halperin & Español 1978); C: Nahal Oren (TAU) JF: Ben Shemen, Gefen (TAU); S: Sir (TAU); SCP: Netivot (TAU).
29. ***Xyletinus* (*Evaniocerius*) *semilimbatus*** Pic, 1899 (= *Xyletinus poliphylloides* Escalera, 1914; *Xyletinus semilimbatus* var. *laterufus* Pic, 1919; *Xyletinus semilimbatus* var. *testaceipennis* Pic, 1905) - N Africa (Español 1979b), Egypt (Pic 1899b, Pic 1911, Alfieri 1976, Español 1979b, Gottwald 1983), Palestine (Israel?) (Bodenheimer 1937).
30. ***Xyletinus* (*Xyletomimus*) *leprieuri*** Chobaut, 1894 (= *Xyletinus flabellatus* Normand, 1949) - N Africa, Spain (Español 1979b). Israel: CN: Dimona, Sde Boger (TAU); NN: Nahal Sekher (TAU).
31. ***Xyletinus* (s. str.) *laticollis*** (Duftschmid, 1825) (= *Xyletinus flavipes* Castelnau, 1840; *Xyletinus flavipes* var. *flavicornis* Rey, 1892; *Xyletinus flavipes* var. *fulvicollis* Reitter, 1890; *Xyletinus fulvicollis* var. *robustus* Pic, 1924; *Xyletinus holosericeus* Dufour, 1854; *Xyletinus*

laticollis var. *simplex* Rey, 1892; *Xyletinus kocheri* Pic, 1952; *Xyletinus oblongulus* Mulsant et Rey, 1864) - Europe, N Africa, Syria, Turkey, Iran, C Asia (Horion 1961, Gottwald 1977, Logvinovskiy 1985), Egypt - Sinai (Jebel Ahmar, TAU) Palestine (Israel?) (Bodenheimer 1937), Israel (Halperin & Español 1978). Israel: C, CCP, JH, S, UG: (Halperin & Español 1978); C: Nahal Oren, Nahal Tut (TAU); CCP: Herzliyya (TAU).

32. ***Xyletinus* (s. str.) *pectinatus pectinatus*** (Fabricius, 1792) (= *Anobium flabellicornis* Herbst, 1793; *Anobium serraticornis* Rossi, 1790; *Xyletinus denticornis* Fabricius, 1792; *Xyletinus pectinatus* var. *schaelkownikovi* Pic, 1904; *Xyletinus pectinatus* var. *gagliardii* Pic, 1933) - Europe, Caucasus, Siberia (Horion 1961), Egypt incl. Sinai (Peyerimhoff 1907, Alfieri 1976), Palestine (Israel?) (Bodenheimer 1937). This species probably does not occur in E Mediterranean, the recorded specimens perhaps belong to some other very similar species of this genus; many of them were described during the last 40 years.
33. ***Xyletinus* (s. str.) *subrotundatus*** Lareynie, 1853 - C S Europe (Horion 1961), Caucasus, C Asia, Turkey (Logvinovskiy 1985), Syria (Sahlberg 1913). Israel: JD: Wadi Kelt (TAU).
34. ***Xyletinus* (s. str.) *wewalkai*** Gottwald, 1977 - Turkey (Gottwald 1977, Zahradník 1998). Israel: C: Nahal Oren (Pavlíček et al. 1998, TAU).
35. ***Lasioderma baudi*** Schilsky, 1899 - Mediterranean (Español 1992), Syria, Israel (Sahlberg 1913). Israel: C: Nahal Oren (TAU); CCP: Rosh ha'Ayin, Tel Aviv (TAU); DSA: Yericho (TAU); LG: Bene Brit (TAU); SCP: Asqelon, Gaza (TAU) UG: Mt. Meron (TAU).
36. ***Lasioderma bubalus*** (Fairmaire, 1860) (= *Pseudochina apicatum* Mulsant et Rey, 1864) - Mediterranean (Español 1992), Israel (Halperin & Español 1978). Israel: CCP, JV, S, SCP, UG: (Halperin & Español 1978); DSA: (TAU). Development: *Pinus halepensis*, fruits of *Prosopis farcta* (Halperin & Español 1978).
37. ***Lasioderma haemorrhoidale*** (Illiger, 1807) (= *Anobium villosum* Castelnau, 1840; *Notiomimus punctulatissimus* Wollaston, 1861; *Lasioderma haemorrhoidale* var. *florieni* Pic, 1911) - Mediterranean (Logvinovskiy 1985), N America (White 1990), Palestine (Israel?) (Bodenheimer 1937), Israel (Halperin & Español 1978). Israel: DSA, LG, NN, S, UG: (Halperin & Español 1978); C: Nahal Oren, Nahal Tut (TAU); CCP: Nahal Poleg (TAU); JH: Jerusalem (TAU); NCP: Akko (TAU); SCP: Ekron (TAU); UG: Akbara (TAU). Development: fruits of *Prosopis farcta* (Halperin & Español 1978).
38. ***Lasioderma kiesenwetteri*** Schilsky, 1899 - S Europe, Turkey, Caucasus, C Asia (Logvinovskiy 1985), Israel (Halperin & Español 1978). Israel: CCP, JV, UG: (Halperin & Español 1978); C: Nahal Oren, Nahal Tut (TAU); DSA: En Gedi (TAU); NN: Lahav (TAU).
39. ***Lasioderma laeve*** (Illiger, 1807) - Portugal, Spain (Español 1992), Cyprus, Syria (Baudi di Selve 1874). This species probably does not occur in E Mediterranean, and the records perhaps refer to some other very similar species of this genus.
40. ***Lasioderma punctulatum*** Reitter, 1884 - Mongolia (Logvinovskiy 1985), Palestine (Israel?) (Sahlberg 1913, Bodenheimer 1937), Israel (Reitter 1884, Schilsky 1899, Halperin & Español 1978, Logvinovskiy 1985,). Israel: AV, CCP, DSA, JH: (Halperin & Español 1978); C: Haifa (Reitter 1884, Schilsky 1899), Nahal Oren (TAU); CCP: Yaqum (TAU); GH: Nahal Zivan (TAU) JD: Wadi Kelt (TAU); JF: Ben Shemen (TAU). Development: fruits of *Prosopis farcta*, *Schinus molle*, branches of *Pyracantha* sp., *Moringa peregrina*, *Fraxinus syriaca* (Halperin & Español 1978).
41. ***Lasioderma redtenbacheri redtenbacheri*** (Bach, 1852) (= *Lasioderma redtenbacheri* var. *caucasica* Pic, 1904; *Pseudochina fulvescens* Mulsant et Rey, 1864; *Xyletinus cyphonoides*

Morawitz, 1861) - C S Europe, Turkey, Caucasus, Iraq, C Asia, Mongolia, Lebanon (Horion 1961), Egypt - Sinai (Alfieri 1976), Palestine (Israel?) (Bodenheimer 1937), Israel (Horion 1961, Halperin & Español 1978). Israel: DSA, JV: (Halperin & Español 1978); LG (Horion 1961); C: Nahal Oren (TAU); CCP: Bet Dagan (TAU); GH: Berekhat Ram (TAU); JF: Ben Shemen (TAU); JH: Hartuv (TAU); S: Wadi Fari'a (TAU). Development: inflorescence of Asteraceae (Halperin & Español 1978).

42. ***Lasioderma serricorne*** (Fabricius, 1792) (= *Ptilinus testaceus* Duftschmid, 1825; *Xyletinus brevis* Wollaston, 1861; *Xyletinus testaceus* Stephens, 1835) - Cosmopolitan (Pic 1912, Horion 1961, Logvinovskiy 1985), Israel (Halperin & Español 1978). Israel: AV: Neot haKikkar (TAU); C: Nahal Tut (TAU); CCP: Ramat Gan, Tel Aviv, Raanana, Kabri, Rehovot, Kvuzat Shiller (TAU); DSA: En Turaba, Yericho, En Gedi (TAU); GH: Betecha (TAU); JF: Latrun, Ben Shemen (TAU); JH: Qiryat Anavim, Jerusalem (TAU); LG: Bet Zera, Bene Berit, Maghar (TAU); MH: Neve Ativ (TAU); NCP: Akko (TAU); S: Janin, Wadi Fari'a, Judaida (= Judeida) (TAU); SCP: Kefa Shemu'el, Bet Dagan, Ashqelon (TAU); UG: Majd el Kurum, Hurfeisch, Gadot, Yir'on (TAU). Development: various plant and animal material (Halperin & Español 1978).

7. Subfamily **MESOCOELOPODINAE**
species: 3

43. ***Mesothes ferrugineus*** Mulsant et Rey, 1861 - C Europe, E Mediterranean (Logvinovskiy 1985), Syria (Schilsky 1898, Reitter 1901, Halperin & Español 1978).
44. ***Mesocoelopus collaris*** Mulsant et Rey, 1864 - C S Europe (Horion 1961, Español 1967), Palestine (Israel?) (Bodenheimer 1937). This species probably does not occur in E Mediterranean the Palestinian record is perhaps based on a misidentification with the very similar *Mesocoelopus ingibbosus* Pic, 1934.
45. ***Mesocoelopus ingibbosus*** Pic, 1934 - Turkey (Zahradník 1998), Egypt, Sudan, Aden (Español 1967), Israel (Halperin & Español 1978). Israel: DSA: (Halperin & Español 1978); C: Nahal Oren (TAU). Development: *Calotropis procera* (Halperin & Español 1978).

8. Subfamily **DORCATOMINAE**
species: 11

46. ***Priartobium serrifunis*** Reitter, 1901 - Algeria, Ukraine - Crimea (Logvinovskiy 1985), Syria (Reitter 1901, Pic 1912, Winkler 1927, Logvinovskiy 1985). Israel: C: Nahal Oren (Pavlíček et al. 1998, TAU).
47. ***Synanobium parmatum*** (Baudi di Selve, 1874) (= *Synanobium ganglbaueri* Schilsky, 1898) - Cyprus, Syria, Egypt, Israel (Halperin & Español 1978). Israel: LG, YV: (Halperin & Español 1978); C: Nahal Oren (TAU). Development: *Cercis siloquastrum* (Halperin & Español 1978).
48. ***Stagetus curimoides curimoides*** (Reitter in Brenske & Reitter, 1884) - Greece (Brenske & Reitter 1884), Syria, Palestine (Israel?) (Sahlberg 1913).
49. ***Stagetus dorcatomoides*** (Reitter in Brenske & Reitter 1884) - Turkey (Zahradník 1998), Syria (Brenske & Reitter 1884, Schilsky 1899, Reitter 1901, Pic 1912, Sahlberg 1913, Winkler 1927, Halperin & Español 1978). Israel: C: Haifa (Schilsky 1899); UG: Elon, Nahal Bezet (TAU).

50. ***Stagetus elongatus*** (Mulsant et Rey, 1861) (= *Theca inplicata* Pic, 1910; *Theca raphaelensis* Aubé, 1861; *Theca rufescens* Pic, 1902) - Mediterranean (Español 1969b). Israel: C: Mt. Carmel, Nahal Oren (Pavlíček et al. 1998, TAU).
51. ***Stagetus ferrugineus*** Español, 1969 – Jordan (Español 1969a), Saudi Arabia (Español 1981), Palestine (Israel?) (Español 1969b, Halperin & Español 1978).
52. ***Stagetus franzi*** Español, 1969 - Mediterranean (Español 1969b), Israel (Español 1969b, Halperin & Español 1978). Israel: C: (Halperin & Español 1978).
53. ***Stagetus latior*** Pic, 1899 (= *Theca dorcatomoides* Reitter, 1885; *Theca reitteri* Schilsky, 1899) - E Mediterranean (Zahradník 1998), Syria (Reitter 1885, Pic 1899, Schilsky 1899, Reitter 1901, Pic 1912, Sahlberg 1913,Winkler 1927, Halperin & Español 1978). Israel: UG: Montfort (TAU).
54. ***Stagetus pilula*** (Aubé, 1861) (= *Stagetus pilula* var. *obscurior* Pic, 1908; *Theca pilula* var. *rufonotata* Pic, 1910) - C S Europe, Turkey, Syria, Algeria (Horion 1961, Logvinovskiy 1985), Palestine (Israel?) (Bodenheimer 1937), Israel (Español 1992, Logvinovskiy 1985).
55. ***Stagetus puncticollis*** (Reitter in Brenske & Reitter, 1884) (= *Theca moreana* Pic, 1912; *Theca pilula* var. *laterufa* Pic, 1921) - Mediterranean (Español 1969b), Syria (Brenske & Reitter 1884, Schilsky 1899, Winkler 1927, Español 1969b, Halperin & Español 1978). Israel: C: Haifa (Schilsky 1899); JF: Bet Shemen (TAU).
56. ***Stagetus vicinus*** (Pic, 1921) - Turkey (Zahradník 1998). Israel: UG: Montfort (TAU); Palestine (Israel?) (TAU).

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SOUHRN

Předložený katalog brouků čeledi Anobiidae Israele a přilehlých území je součástí úsilí o katalogizaci brouků Israele. V katalogu je uvedeno celkem padesát šest druhů červotočů z Israele a přilehlých oblastí; z tohoto počtu bylo přímo v Israeli zaznamenáno třicet šest druhů. U dal-

ších dvaceti druhů bude nutné jejich výskyt v Israeli potvrdit nebo definitivně vyvrátit teprve dalším výzkumem.

První seznam červotočů Israele (Palestiny) byl součástí Bodenheimerova (1937) „Prodromus Faunae Palestinae". V tomto seznamu je uvedeno 17 druhů červotočů, ale bez jakékoliv informace o jejich regionálním nebo lokálním rozšíření. Halperin & Español (1978) uvedli ve své práci 23 druhů z Israele a dalších 11 druhů z přilehlých zemí; současně uvedli cenné informace o hostitelských rostlinách řady druhů.

Katalog byl sestaven především na základě revize červotočů z různých sbírek a na základě literárních údajů. Základním sbírkovým pramenem byla entomologická sbírka uložená na Tel Avivské universitě, která obsahuje hmyz sbíraný v Israeli, resp. Palestině a okolních zemích od počátku století až do současnosti. O sběr červotočů se zasloužili především následující sběratelé: F. S. Bodenheimer, H. Bytinski-Salz, V. Chikatunov, A. Freidberg, D. G. Furth, D. Gerling, J. Halperin, J. Kugler, T. Pavlíček a D. Simon.

V katalogu byl použit systém podle Lawrence & Newtona (1995) s tím rozdílem, že nebyla zahrnuta podčeleď Ptininae. Všechny exempláře ve sbírce Tel Avivské university (TAU) byly revidovány prvním autorem. Pro každý druh je v rámci možnosti uvedena informace o jeho regionálním a globálním rozšíření a hostitelských rostlinách.

Nejčetněji zastoupenými zoogeografickými prvky v israelské fauně jsou podle současného stavu znalostí druhy: a) středozemní (9 druhů) b) palearktické (6 druhů) c) východně středomořské (6 druhů) a d) kosmopolitní (4 druhy). Druhy lokálně rozšířené, tj. israelské a levantinské, jsou zastoupeny pouze 3 zástupci. Počet druhů červotočů se zvyšuje směrem od jihu k severu Israele, kdy jeho severní vlhčí části jsou druhově bohatší než jižní pouštní oblasti.