

AUTEURS CITÉS

- ALONSO-ZARAZAGA M.A. & LYAL C.H.C., 1999. – *A world catalogue of families and genera of Curculionoidea (Insecta: Coleoptera) (excepting Scolytidae and Platypodidae)*. Barcelona: Entomopraxis, 315 p.
- BLANCHARD E., 1851. – Insectos Coleópteros: Tetramerés. Trimeros: 285-564. [in: Gay C. *Historia física y política de Chile según documentos adquiridos en esta República durante doce años de residencia en ella y publicada bajo los auspicios del Supremo Gobierno*. Vol. 5. Paris: C. Gay. 567 p.].
- DESBROCHERS DES LOGES J., 1891a. – Études sur les Curculionides d'Europe et des pays limitrophes. *Le Frelon*, 1(8): 52-60 [25.XI.1891].
- 1891b, 1892a et b. – Études sur les Curculionides d'Europe et des pays limitrophes. [Cont.]. *Le Frelon*, 1(9): 61-76 [25.XII.1891]; *Le Frelon*, 1(10): 77-92 [25.I.1892]; *Le Frelon*, 1(11): 93-107 [25.II.1892].
- KLIMA A., 1935. – Curculionidae: Subfam. *Alophinae*. [in: Schenkling S. (Ed.), *Coleopterorum Catalogus auspiciis et auxilio W. Junk*, 145: 1-14].
- KOCHER L., 1961. – Catalogue commenté des Coléoptères du Maroc. Fascicule IX. Rhynchophora. *Travaux de l'Institut scientifique Chérifien (série Zoologie)*, 24: 1-263.
- 1964. – Catalogue commenté des Coléoptères du Maroc. Fascicule X. Addenda et corrigenda. *Travaux de l'Institut scientifique Chérifien (série Zoologie)*, 30: 1-171.
- 1969. – Catalogue commenté des Coléoptères du Maroc. Fasc. X bis. Nouveaux addenda et corrigenda. *Travaux de l'Institut scientifique Chérifien et de la Faculté des Sciences (série Zoologie)*, 34: 1-132.
- LACORDAIRE Th., 1863. – *Histoire Naturelle des Insectes. Genera des Coléoptères ou exposé méthodique et critique de tous les genres proposés jusqu'ici dans cet ordre d'insectes*. Vol. 6. Paris: Roret, 637 p.
- SCHOENHERR C.J., 1842. – *Genera et species curculionidum, cum synonymia hujus familiae. Species novae aut hactenus minus cognitae, descriptionibus a Dom. L. Gyllenhal, C.H. Boheman, O.J. Fahraeus et entomologis aliis illustratae*. Vol. 6 (2). Paris: Roret, 495 p.
- WINKLER A., 1932. – *Catalogus Coleopterorum regionis palaearticae*, pars 12. Wien: Albert Winkler, p. 1393-1520.

Maurice G. M. JANSEN, Yair BEN-DOV & M. Bora KAYDAN. – **New records of Scale Insects from Crete Island, Greece (Hem., Coccoidea)**

The island of Crete is one of the 13 peripheries of Greece, and agriculture plays a significant role in its economy. The scale insect fauna of Crete has been studied by various scientists such as V. Alexandrakis, L. Argyriou, A. Ayoutantis, A. S. Balachowsky, Y. Ben-Dov, J. Cox, G. Koroneos, F. Kozár, Z. Mendel, L. A. Santas and D. J. Williams. The recorded scale insect fauna of Crete includes 41 species that belong to eight families, namely, Asterolecaniidae, Cerococcidae, Coccidae, Diaspididae, Kermesidae, Matsucoccidae, Monophlebidae and Pseudococcidae (BEN-DOV & MILLER, 2010).

In this note we newly record seven species of scale insects that we have collected while attending the XII International Symposium on Scale Insects, at Crete, April 2010.

Voucher specimens of the species listed here are deposited in: CCVT, Plant Protection Department, Faculty of Agriculture, Yüzüncü Yil University, Van, Turkey ; ICVI, Department of Entomology, the Volcani Center, Bet Dagan, Israel ; PPWN, Plant Protection Service, Department of Entomology, Wageningen, the Netherlands.

COCCIDAE

Protopulvinaria pyriformis (Cockrell). – This species was recorded for the first time in the Mediterranean region in Spain (DEL RIVERO, 1966), and later found in Israel, Italy, France, Greece (mainland) and Portugal (BEN-DOV & MILLER, 2010). The new record from Crete may indicate that *P. pyriformis* is spreading to more territories in the Mediterranean.

Material studied: Crete, Chania, on *Hedera helix* 12.iv.2010, Y. Ben-Dov (ICVI).

DIASPIDIDAE

Aonidiella yehudithae Ben-Dov. – While this armoured scale insect was originally described (BEN-DOV, 2006) from Heraklion region at the centre of the island, here it is recorded from the Imbros gorge at the west of Crete.

Material studied: Crete, Imbros Gorge, near Komitades, north of Sfakia, on *Hedera helix*, 14.iv.2010, M. Jansen (PPWN).

Gonaspidotus minimus (Leonardi). – This species develops mainly on *Quercus* trees in many countries over the Mediterranean region (BALACHOWSKY, 1950). It has been previously recorded from mainland Greece (KORONEOS, 1934).

Material studied: Crete, Aghia Irini, and north of Sougia, on *Quercus coccifera* 13.iv.2010, M. Jansen (PPWN).

Leucaspis pusilla Löw. – The small pine scale is a pine-infesting species in many countries of the Palaearctic region (BALACHOWSKY, 1953), which was previously recorded from mainland Greece (KORONEOS, 1934).

Material studied: Crete, Aghia Irini, north of Sougia, on *Pinus*, 13.iv.2010, M. Jansen (PPWN).

Parlatoria parlatoriae (Šulc). – This conifer-infesting armoured scale is widely distributed in the Palaearctic region (BALACHOWSKY, 1953), and is here newly recorded from Crete.

Material studied: Crete, Aghia Irini, north of Sougia Gorge, on *Pinus*, 13.iv.2010, M. Jansen (PPWN).

PSEUDOCOCCIDAE

Heliooccus bohemicus Šulc. – This highly-polyphagous mealybug is widely-distributed in the Palaearctic region from Western Europe to China. The present new record from Crete supplements its previous record from mainland Greece by MILONAS *et al.* (2008).

Material studied: Crete, Chania, MAICH, on *Rubus* sp., 12.iv.2010, Y. Ben-Dov (ICVI)

Phenacoccus madeirensis Green. – The Madeira mealybug, supposed to be of New World origin (WILLIAMS 2004), was originally described by GREEN (1923) from Madeira Islands. In Europe it was first reported in Western Mediterranean from Sicily (MAROTTA & TRANFAGLIA, 1990) and later from France (MATILE-FERRERO & GERMAIN, 2004). The present new record from Crete indicates that this mealybug is spreading to wider territories in the Mediterranean region.

Material studied: Crete, Chania, *Hibiscus rosa-sinensis*, 13.iv.2010, M.B. Kaydan & Y. Ben-Dov (CCVT, ICVI).

REFERENCES

- BALACHOWSKY A. S., 1950. – Les cochenilles de France, d'Europe, du Nord de l'Afrique et du Bassin Méditerranéen. V. – monographie des Coccoidea ; Diaspidinae (deuxième partie) Aspidiotini. *Entomologie Appliquée Actualités Scientifiques et Industrielles*, **1087**: 397-557.
- 1953. – Les cochenilles de France d'Europe, du Nord de l'Afrique, et du bassin Méditerranéen. VII. – Monographie des Coccoidea ; Diaspidinae-IV, Odonaspadini-Parlatorini. *Entomologie Appliquée Actualités Scientifiques et Industrielles*, **1202**: 725-929.
- BEN-DOV Y., 2006. – Taxonomy of *Aonidiella yehudithae* sp. nov. *Lindingaspis misrae* (Laing) comb. nov. with a key to species of *Aonidiella* Berlese & Leonardi (Hemiptera: Coccoidea: Diaspididae). *Zootaxa*, **1190**: 51-57.
- BEN-DOV Y. & MILLER D. R., 2010. – ScaleNet, Scales in a Country Query Results. 21 September 2010.
- DEL RIVERO J. M., 1966. – Nota sobre una plaga de agrios y aguacates. *Boletín de Patología Vegetal y Entomología Agrícola*, **29**: 59-62.
- GREEN E.E. 1923. – Observations on the Coccidae of the Madeira Islands. *Bulletin of Entomological Research*, **14**: 87-99.
- KORONEOS J., 1934. – Les Coccidae de la Grèce surtout du Pélion (Thessalie). I. Diaspinae. Athens. 95 p.
- MAROTTA S. & TRANFAGLIA A., 1990. – New and little known species of Italian scale insects (Homoptera: Coccoidea), p. 107-112. In: Proceedings of the Sixth International Symposium of Scale Insect Studies, Part II. Cracow, Poland: August 6-12, 1990. Agricultural University Press, Cracow.
- MATILE-FERRERO D. & GERMAIN, J. F., 2004. – *Eriococcus munroi* (Boratynski), nouveau ravageur du Lavandin en France, et note sur deux Pseudococcines nouvelles pour la France (Hemiptera, Eriococcidae et Pseudococcidae). *Bulletin de la Société entomologique de France*, **109** (2): 191-192.
- MILONAS P. G., KOZÁR F. & KONTODIMAS D. C., 2008. – New data on the scale insects (Homoptera: Coccoidea) of the Greek entomofauna. *Hellenic Plant Protection Journal*, **1** (1): 32-34.

(M.G.M.J.: Plant Protection Service, section entomology, P.O. Box 9102, 6700 HC Wageningen, The Netherlands <m.g.m.jansen@minlnv.nl>; Y.B-D: Department of Entomology, Agricultural Research Organization, The Volcani Center, P.O. Box 6, Bet Dagan, 50250 Israel <yairbd@netvision.net.il>; M.B.K.: Yüzüncü Yıl University, Faculty of Agriculture, Department of Plant Protection, 65080, Van, Turkey <bkaydan@hotmail.com>)