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Updated checklist of Balearic leaf beetles (Coleoptera: Chrysomelidae)

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Abstract

The first updated checklist of Balearic leaf beetles (Chrysomelidae) since 1960 is presented here, evincing the presence of 118 species. This estimation is clearly lower than the 141 species reported in the only list available to date (Jolivet, 1953), and the dissimilarity is even more pronounced if we take into account that 22 new species have been added during this period. The possible explanations for these differences are discussed. The main island in the archipelago holds most of the species (Mallorca, 113 spp.), followed by Menorca (71 spp.), Eivissa (39 spp.) and Formentera (19 spp.). Thus, the Gymnesian islands (Mallorca and Menorca) are more species-rich than the Pityusic ones (Eivissa and Formentera). The number of species per island is significantly correlated with their respective areas not only for the Balearic but also for the much larger western Mediterranean islands of Corsica and Sardinia, and these abundances are not related with their nearness to the closest mainland. Among the different subfamilies and tribes, the Balearic flea-beetles (Alticinae) are clearly more prevalent whereas on the contrary, the Clytrini are less represented in comparison with the nearest mainland (Iberian Peninsula). The presented checklist includes four endemic species, *Cryptocephalus majoricensis* (Mallorca, Menorca and Formentera), *C. tramuntanae* (Mallorca), *Cyrtonus majoricensis* (Mallorca) and *Timarcha balearica* (Mallorca and Menorca). Furthermore, two adventitious species, *Monoxia obesula* and *Epitrix hirtipennis* of North American origin, have been reported for the first time in the Balearic Islands, in agreement with previous findings in other Mediterranean countries.

Key words: leaf beetles, faunistics, Balearic Islands, Western Mediterranean, Spain

Introduction

The Balearic Islands are the most western Mediterranean archipelago (40°05'N 4°1'E to 38°38'N 1°11'E), with a whole area of roughly 5000 km² and they are composed of four main islands, Mallorca (3659 km²), Menorca (702 km²), Eivissa (559 km²) and Formentera (96 km²). Although they are continental islands they display a remarkable number of faunal endemisms of species and subspecies (see Pons & Palmer 1996). Tenenbaum (1915) gave the unique list so far available for Coleoptera, in which 121 species of leaf beetles were quoted. Later on, Jolivet (1953) published the only checklist of Balearic Chrysomelidae based on his personal captures, ancient collections, and old records from papers of the second half of XIX century. The latter comprised 141 species including a fair number of misidentified ones, plus others probably attributed to misleading labels of localities, which deserves an up-to-date revision. Since the arrival to Mallorca of one of the authors (EP) in October 1981, we have regularly collected leaf beetles in this island, with a few trips to the other ones of the archipelago, which has allowed to find new species for a better knowledge of the Balearic fauna (Bastazo *et al.* 1993; Gómez-Zurita & Petitpierre 2004; Gómez-Zurita *et al.* 1996; Palmer & Petitpierre 1993; Petitpierre 1985, 1993, 1997, 1999, 2001, 2016; Petitpierre & Doguet 1981, 1986; Petitpierre & Palmer 1993; Petitpierre & Vives 2008; Petitpierre *et al.* 2007; Sacarés & Petitpierre 2004), as well as the research by other authors who have also contributed to this aim (Berti & Rapilly 1976; Compte 1966, 1968; Teunissen 2002; Whitehead 1993). We have not considered seed beetles (bruchids) as leaf beetles although they have been considered as a subfamily by several authors (Löbl & Smetana 2010; Reid 1995; Gómez-Zurita *et al.* 2007), but not all include them within Chrysomelidae (see Kergoat *et al.* 2005), and also

because bruchids from the Balearic Islands have been recently studied (Yus-Ramos, 2010). We report here all the captures and quotations of the Balearic Chrysomelidae since 1960, thus covering a bit more than 55 years, to compile this updating checklist.

Material and methods

Insects were collected by sampling the vegetation with sweeping nets and beating trays, using an aspirator to take the small-sized species. In addition, we also performed direct searches of leaf beetle specimens on plants and under stones. After collection, individuals were confined in a container enriched with ethyl acetate vapour prior to being dry-mounted, identified and labelled.

For each species we report the island or islands of origin, localities, dates of captures, and number of individuals taken. For brevity, the absence of collecting author data means that the species has been collected by the first author of this paper (EP). The studied material has been deposited at EP and Antoni Sacarés (AS) insect collections.

Minor islands such as Cabrera (11.5 km²) and its neighbour islets in the south of Mallorca, and Sa Dragonera (2.88 km²) in the west are treated within their close large island of Mallorca but as separate entities.

Results

We have adopted the modern and usual order for the subfamilies proposed by Löbl & Smetana (2010) in their catalogue on the Palaearctic Coleoptera, thus considering Clytrini and Cryptocephalini as tribes of Cryptocephalinae and Hispini as one of Cassidinae. The genera and species within each of these subfamilies or tribes are given alphabetically.

Donaciinae

Donacia vulgaris Zschach

MALLORCA—It is probably living in the island but it has not been recently found yet.

MENORCA—barranc de Santa Galdana 18.10.2002, 9 exx.; *ibid* 15.05.2003, 2 exx., all of them on *Typha latifolia* L. (Cyperaceae) (Sacarés & Petitpierre 2004).

Criocerinae

Crioceris asparagi (Linnaeus)

MALLORCA—Port d'Alcúdia: foothills behind 20.10.1990, 1 ex. (Whitehead 1993 *sub C. asparagi* var. *campestris* Linnaeus). A very rare species in the island contrary to its abundance in the Iberian Peninsula.

Crioceris macilentata Weise

MALLORCA—Banyalbufar 11.10.1982, 2 exx.; *ibid* 05.10.1983, 8 exx.; Felanitx: castell de Santueri 13.04.1986, 1 ex.; Son Serra de Marina: torrent Na Borges 17.04.1989, 2 exx.; Esporles 31.10.1999, 1 ex., on *Asparagus albus* L.; *ibid* 14.04.2002, 1 ex. on *A. acutifolius* L.; *ibid* 20.04.2002, 6 exx., on *A. acutifolius*; *ibid* 28.04.2002, 2 exx., on *A. acutifolius*; *ibid* 20.04.2003, 1 ex.; *ibid* 01.05.2003, 1 ex.; *ibid* 03.04.2004, 2 exx.; *ibid* 01.05.2004, 3 exx.; Palma: Campus UIB 08.11.2003, 1 ex. Nevertheless, it has not been captured in the last ten years, which probably means that it is becoming rarer for unknown reasons.

MENORCA—Maó 06.1971, 1 ex. (leg. P. Oromí)

Crioceris paracenthesis (Linnaeus)

MALLORCA—Artà 10.03.1982, 1 ex.; Banyalbufar, 05.10.1983, 1 ex.; Bunyola: torrent, 24.09.1982, 1 ex.;

Can Picafort, 04.07.1984, 2 exx.; Capdepera 10.09.1983, 7 exx.; Esporles 26.05.1984, 1 ex.; *ibid* 23.04.1988, 1 ex.; *ibid* 02.05.1999, 1 ex.; *ibid* 09.10.1999, 2 exx.; *ibid* 14.10.1999, 2 exx.; *ibid* 31.10.1999, 2 exx.; *ibid* 01.11.1999, 1 ex.; *ibid* 14.09.2002, 2 exx.; *ibid* 12.10.2003, 1 ex.; Petra 06.06.1989 (leg. R. Beenen); Son Serra de Marina: torrent Na Borges 10.06.1991, 2 exx. On *Asparagus acutifolius* L. and *A. albus* L. (Liliaceae). This is the most abundant species of *Crioceris* in Mallorca, although as the previous one it seems to have become scarcer recently.

MENORCA—Although we have not collected any individual from this island, this species should be probably there because it has been found in Mallorca and Eivissa.

EIVISSA: Santa Eulària 21.10.1996, 1 ex. (Sacarés & Petitpierre 1999).

***Oulema duftschmidi* (Redtenbacher)**

MALLORCA—Alaró 25.03.1984, 1 ex.; Alcúdia: S'Albufera 14.06.1984, 8 exx.; *ibid* 21.05.1987, 1 ex.; *ibid* 22.06.1988, 4 exx.; *ibid* 16.05.1989, 2 exx.; *ibid* 01.02.1997, 3 exx.; *ibid*: S'Albufereta 11.03.1983, 1 ex.; *ibid* 31.10.1994, 1 ex.; Artà 20.03.1982, 2 exx.; Campanet 03.04.1984, 1 ex.; Manacor 20.03.1983, 2 exx.; Palma: Campus UIB 04.05.2008, 2 exx.; Palma: Es Molinar 19.03.1982, 1 ex.; Pollença 23.04.1982, 1 ex.; *ibid* 01.11.1982, 1 ex.; Port de Pollença: torrent Sant Jordi 07.03.1989, 5 exx.; *ibid* 16.03.1990, 1 ex.; *ibid* 08.05.1990, 4 exx.; *ibid* 26.10.1990, 1 ex.; Santa Margalida 06.06.1989 (leg. R. Beenen); Ses Salines 25.05.1982, 1 ex.; Son Serra de Marina: torrent Na Borges 16.06.1991, 4 exx.; *ibid* 24.05.1997, 1 ex. All of them on several species of Poaceae plants.

MENORCA—Macarella: Son Torralbet 30.X.2002, 16 exx. The records of *Lema melanopa* L. by Compte (1968) should be referred to this species.

Cryptocephalinae tribe Clytrini

***Coptocephala scopolina* (Linnaeus) ssp. *floralis* (Olivier)**

MALLORCA—Baix de Puig 29.05.1984, 1 ex.; *ibid* 08.06.1987, 2 exx.; Cala S'Almunia 04.07.1987, 3 exx.; *ibid* 13.07.1996, 1 ex.; Can Picafort 04.06.1984, 2 exx.; Esporles 29.05.1982, 2 exx.; *ibid* 28.06.1991, 1 ex.; *ibid* 12.07.2016, 4 exx.; *ibid*: Son Cabespre 23.05.1985, 9 exx.; Palma: Establiments Nous 21.05.1983, 1 ex.; *ibid*: Son Espanyol 23.06.1984, 4 exx.; Port de Pollença: badia 28.06.1982, 3 exx.; Sa Calobra: torrent de Pareis 14.07.1985, 3 exx.; Sa Porrassa 18.07.1984, 2 exx.; Son Serra de Marina: torrent Na Borges 26.06.1988, 3 exx.; *ibid* 15.06.1991, 5 exx. Most individuals on *Dittrichia viscosa* (L.) Greuter (Asteraceae).

MENORCA—Barranc de Santa Galdana 16.06.2003, 6 exx.; Fornells 17.06.2003, 7 exx.; Maó (Compte, 1968 *sub C. floralis*); path from Cala Turqueta to Cala Macarella 18.06.2003, 5 exx.

***Lachnaia paradoxa* (Olivier) (= *L. vicina* (Lacordaire))**

MALLORCA—Alcúdia: S'Albufereta 04.05.1982, 7 exx.; Artà 29.05.1985, 1 ex.; Biniarroi 09.05.1999, 1 ex.; Can Picafort 04.07.1984, 1 ex.; Cúber 10.07.1985; Escorca: Manut 15.06.1982, 3 exx.; Esporles 01.05.1982, 2 exx.; *ibid* 21.06.1987, 1 ex.; Palma: Campus UIB, 26.04.1982, 1 ex.; Port d'Alcúdia 20.06.1984 and Port de Sòller 27.05.1972 (Teunissen 2002 *sub L. vicina* Lacordaire); Ses Salines: Sa Vall 01.06.1982, 1 ex. The adult individuals are feeding on plants of many families including Anacardiaceae, Apiaceae, Fabaceae, Lamiaceae, Fagaceae and Rosaceae.

MENORCA—Alaior: Albaida 17.06.2003, 1 ex.; Barranc de Santa Galdana 16.06.2003, 4 exx.; path from Cala Turqueta to Cala Macarella 18.06.2003, 5 exx.; S'Algaiarens 03.05.2013, 3 exx.; Sant Tomàs 17.06.2003, 2 exx. Compte (1968) quoted it *sub L. vicina* Lac.

***Lachnaia tristigma* (Lacordaire)**

EIVISSA—Eivissa 26.05.1974 (Teunissen 2002); Eivissa, 02.05.1984, 1 ex.; Sa Sal Rossa, 15.04.1991, 4 exx. (leg. G. Pons); Ses Figueretes 08.06.1984, 2 exx.; path to Cala Tarida 23.04.2003, 1 ex. (leg. O. Moyá). This species is only found in Eivissa, because in Mallorca and Menorca it is substituted by the previous congeneric *L. paradoxa*.

***Macrolenes dentipes* (Oliver)**

MALLORCA—Alcúdia: road to Alcanada 29.05.1986, 8 exx.; *ibid*: La Victoria, 12.05.1987, 4 exx.; Cala Sant

Vicenç 30.05 to 02.06.1989 (leg. R. Beenen); Can Picafort 14.06.1984, 3 exx.; *ibid* 22.06.1984, 2 exx.; Escorca: Manut 15.06.1982, 1 ex.; Esporles 26.05.1987, 4 exx.; *ibid*: S'Esgleieta 06.05.1983, 5 exx.; Estellencs 23.05.1984, 3 exx.; Lluçmajor 21.05.1982, 10 exx.; Port de Pollença: badia 02.07.1985, 2 exx.; *ibid* 04.05.1986, 5 exx. Also in the islet of Sa Dragonera 03.06.1990, 2 exx.; *ibid* 25.05.1996, 5 exx. (Gómez-Zurita *et al.* 1996) and in the small island of Cabrera: Monument als Francesos 20.07.1984, 1 ex. (Palmer & Petitpierre 1993); Jardí Botànic 18.06.2005, 1 ex. Most adult individuals on *Pistacia lentiscus* L. (Anacardiaceae).

MENORCA—Sant Tomàs 17.05.2003, 2 exx.

EIVISSA—Eivissa 26.05.1974 (Teunissen 2002).

The larvae of this species feed on leaves of *Quercus ilex* and on caterpillars or adults of the moth *Ephestia kuehniella* in lab conditions (Schöller 1998).

Cryptocephalinae tribe Cryptocephalini

***Cryptocephalus (Burlinius) fulvus* (Goeze)**

MENORCA—Maó (Compte 1968). A very doubtful record that should be confirmed because it has not been yet found in Mallorca.

EIVISSA—Serra de Sant Vicenç 21.04.2003, 5 exx.; Ses Salines: carregador de sal 23.04.2003, 1 ex. (Sacarés & Petitpierre 2004)

FORMENTERA—Es Pujols, 01.11.2002, 1 ex.; path to Illetes beach, 22.04.2003, 3 exx.; road to Cap de Barbaria 01.11.2002, 1 ex.; *ibid* 22.04.2003, 1 ex. (Sacarés & Petitpierre 2004).

***Cryptocephalus (Burlinius) luridicollis* Suffrian**

MALLORCA—Betlem 16.07.1989, 4 exx. on *Pistacia lentiscus* L. (Anacardiaceae); Cala S'Almunia 13.07.1996, 4 exx. on *Cistus monspeliensis* L. (Cistaceae); Cúber 24.09.1985, 1 ex.; Escorca 20.09.1984, 1 ex.; Esporles: Son Cabespre 23.05.1985, 2 exx. on *Quercus rotundifolia* Lam. (Fagaceae); Son Serra de Marina: torrent Na Borges 07.07.1989, 2 exx. on *Cistus monspeliensis* L.. Also in the small island of Cabrera: Bellamiranda 17.07.1990, 1 ex. (Palmer & Petitpierre 1993).

MENORCA—path from Cala Turqueta to Cala Macarella 18.06.2003, 1 ex.

***Cryptocephalus (Burlinius) macellus* Suffrian**

MALLORCA—Baix de Puig 29.10.1982, 1 ex.; Bunyola: torrent 24.09.1982, 1 ex.; Sa Porrassa, 05.04. 1983, 1 ex.; Cúber 18.06.1993, 1 ex. on *Quercus rotundifolia* Lam. (Fagaceae).

EIVISSA—Sant Agustí 09.10.1931 (Compte 1966), a very doubtful and old record that should be confirmed.

***Cryptocephalus (Burlinius) majoricensis* Fuente**

MALLORCA—Betlem 02.07.2012, 1 ex.; Porto Cristo 05.09.1998, 2 exx.; Ses Salines: Sa Vall, 01.07.1982, 1 ex.; Son Serra de Marina: torrent na Borges, 07.07.1989, 1 ex.; *ibid* 22.09.2006, 1 ex.; *ibid* 16.08.2007, 3 exx.; Pollença: Ternelles, 09.09.89, 1 ex. Also in the islet of sa Dragonera (Gómez-Zurita *et al.*, 1996); *ibid*: road to Cap de Tramuntana 02.05.2005, 3 exx. on *Pistacia lentiscus* L. (Anacardiaceae) (Petitpierre *et al.* 2007), and the small island of Cabrera: Bellamiranda 17.07.1990; Monument als Francesos 20.07.1985, 5 exx.; Port de Cabrera: Ca'n Feliu 20.08.1991 (Palmer & Petitpierre 1993).

MENORCA—Es Grau: S'Albufera, 19.10.2002, 7 exx.; Binimel·la, 19.10.2002, 1 ex.; Macarella: Son Torralbet, 20.10.2002, 1 ex. All of them on *Pistacia lentiscus* L. (Anacardiaceae).

EIVISSA—Although it has not been collected in this island, it should probably live there because it is found in Formentera.

FORMENTERA—S'Espalmador 26.10.1990, 1 ex. (leg. M. Palmer).

***Cryptocephalus (Burlinius) politus* Suffrian**

MALLORCA—Alcúdia: S'Albufereta 14.05.1995, 76 exx.; Son Serra de Marina: torrent Na Borges 24.05.1997, 14 exx., all of them on blossoms of *Tamarix gallica* auct. (Tamaricaceae) (Petitpierre 1997).

***Cryptocephalus (Burlinius) saucius* Truqui**

MALLORCA—Alcúdia 04.05.1982, 1 ex.; *ibid*: S'Albufera 21.05.1987, 5 exx.; *ibid* 23.05.1989, 3 exx.; *ibid*: La Victoria 13.05.1987, 2 exx.; Bunyola 06.05.1985, 6 exx.; Caimari 27.05.1983, 3 exx.; Camp de Mar 19.04.1996, 2 exx.; Can Picafort 13.05.1985; Cúber 23.05.1985, 9 exx.; *ibid* 05.06.1991; *ibid* 01.06.1994, 1 ex.; *ibid* 22.05.2001, 9 ex.; *ibid* 07.06.2013, 2 exx. all on *Quercus rotundifolia* Lam. (Fagaceae); Escorca: cami de Moncaire 22.06.1984, 2 exx.; Esporles 18.04.1982, 2 exx.; *ibid* 01.05.1982, 2 exx.; *ibid*, 10.04.1983, 5 exx.; *ibid*, 16.04.1983, 5 exx.; *ibid* 24.04.1983, 28 exx.; *ibid* 23.05.1984, 4 exx.; *ibid* 17.04.2001, 1 ex. on *Quercus rotundifolia*; *ibid* 27.05.2001, 3 exx., *ibid* 16.04.2002, 3 exx., *ibid* 20.04.2002, 1 ex.; *ibid*: Son Cabaspre 23.06.1985, 1 ex.; Lluc 04.06.1986, 2 exx.; Puig de Na Moixa 07.05.2014, 1 ex.; S'Arracó 05.05.1984, 1 ex.; Sa Porrassa, 15.05.1983; Son Serra de Marina: torrent Na Borges, 10.06.1991, 2 exx.; *ibid* 01.05.1992, 5 exx. Also in the small island of Cabrera: Bellamiranda 29.03.1991; N'Ensiola 29.03.1991 (Palmer & Petitpierre 1993 *sub C. alboscuteatus* Suffrian).

MENORCA—Compte (1968) gives old quotations in this island *sub C. alboscuteatus* Suffrian.

***Cryptocephalus (Burlinius) tramuntanae* Petitpierre.**

MALLORCA—Cúber 05.06.1991, 13 exx. (Petitpierre 1993); *ibid* 18.06.1993, 6 exx.; *ibid* 01.06.1994, 11 exx.; *ibid* 11.06.1996, 6 exx.; *ibid* 03.06.1997, 8 exx.; *ibid* 07.06.2013, 1 ex.; Sant Llorenç des Cardassar: Calicant 13.04.2011, 1 ex. All on *Carlina corymbosa* L. (Asteraceae) (Petitpierre 1993).

***Cryptocephalus (Cryptocephalus) moraei* (Linnaeus)**

EIVISSA—Eivissa 26.05.1974 (Teunissen 2002).

***Cryptocephalus (Cryptocephalus) muellerianus* Burlini**

MALLORCA—Es Trenc 08.07.2014, 4 exx. on *Limonium* sp. (Plumbaginaceae) (leg. Vela—Bastazo); *ibid* 02.07.2015, 9 exx. on *Limonium* sp.

***Pachybrachis anoguttatus* Suffrian**

MALLORCA—Cala Millor 07.05.2014, 1 ex.; Esporles 23.06.1999, 6 exx.; *ibid* 14.05.2000, 1 ex.; *ibid* 21.05.2000, 5 exx.; *ibid* 27.05.2001, 3 exx.; *ibid* 02.06.2001, 7 exx.; *ibid* 23.06.2002, 5 exx.; *ibid* 26.05.2003, 1 ex.; Palma: Campus UIB 04.05.2008, 1 ex.; *ibid* 30.05.2008, 1 ex.; *ibid* 10.05.2011, 1 ex.; 09.05.2012, 1 ex.; Puig de Na Moixa 07.05.2014, 6 exx.; Son Serra de Marina: torrent Na Borges 13.06.1989, 7 exx.; *ibid* 07.07.1989, 6 exx.; *ibid* 09.06.1990, 7 exx.; *ibid* 15.06.1994, 20 exx.; *ibid* 06.06.1996, 5 exx.; *ibid* 24.05.1997, 11 exx.; *ibid* 04.07.2012, 2 exx. All of them on *Pistacia lentiscus* L. (Anacardiaceae).

MENORCA—Barranc de Santa Galdana 16.06.2003, 2 exx.; Cala Pudent 18.07.1980, 1 ex. (leg. P. Oromí); Maó: Cala Llonga 25.07.1991, 1 ex. on *Pistacia lentiscus*; Sant Tomàs 16.05.2003, 5 exx. Compte (1968) quoted it from the island too, but without giving any location.

The larvae of this species feed on leaves of *Quercus ilex* in lab conditions (Schöller 1998).

Eumolpinae

***Colaspidea proxima* Fairmaire (= *C. oblonga* Blanchard)**

MALLORCA—Sant Llorenç des Cardassar 20.03.1982, 2 exx.

MENORCA—Compte (1968 *sub C. oblonga* Blanchard) reported it from an old quotation, without giving any particular geographic source.

***Pachnephorus bistriatus* Mulsant et Wachanru**

MALLORCA—Alcúdia: S'Albufereta 02.06.1982, 1 ex.; Alcúdia: S'Albufera, 22.05.1984, 5 exx., 24.04.1985, 1 ex.; 10.06.1986, 1 ex., all on *Dittrichia viscosa* (L.) W. Greuter (Asteraceae); *ibid* 08.06.1989 (leg. R. Beenen).

MENORCA—Cala Macarella 18.06.2003, 37 exx. on *Dittrichia viscosa*. Compte (1968) quoted also from the island.

***Pachnophorus cylindricus* P.H. Lucas**

MALLORCA—Alcúdia: S'Albufera, 10.06.1985, 1 ex.; *ibid* 21.05.1987, 1 ex., both on *Dittrichia viscosa* (L.) Greuter (Asteraceae).

MENORCA—Compte (1968) quoted it from the island without giving any location.

Chrysomelinae

***Chrysolina (Chrysolinopsis) americana* (Linnaeus)**

MALLORCA—Bunyola: Binicanella 28.03.1985, 3 exx.; Cala Blava 27.03.1987, 8 exx.; Calvià 31.03.1982, 3 exx.; *ibid*: Illetes 11.09.1982, 1 ex.; Cúber 24.09.1985, 2 exx.; Esporles 04.10.2016, 2 exx.; Es Teix 950m alt. 03.10.1984, 1 ex.; Mortitx 13.05.2001, 1 ex.; Pollença: Castell del Rei 28.10.1984, 8 exx.; *ibid*: Ternelles 09.09.1989, 1 ex.; Puig Roig: surroundings 27.11.1987, 2 exx. Almost all specimens on *Rosmarinus officinalis* L. (Lamiaceae).

MENORCA—Fornells 17.06.2003, 1 ex.; path from Cala Turqueta to Cala Macarella 18.06.2003, 1 ex.

EIVISSA—Es Cavallet 20.05.1994, 2 exx.; S'Espalmador 10.04.1991, 1 ex.; Ses Figueres 08.06.1984, 4 exx.

FORMENTERA—La Mola 17.07.1965 (Compte, 1966); S'Espalmador, 10.04.1991, 1 ex.

***Chrysolina (Chrysolina) banksi* (Fabricius)**

MALLORCA—Alcúdia 15.04.1987, on *Plantago* sp. (Plantaginaceae) (Whitehead 1993); *ibid*: S'Albufera 22.06.1984, 2 exx.; Artà 09.1991, 4 exx.; Cúber 24.09.1985, 3 exx.; *ibid* 17.06.1987, 7 exx.; *ibid* 08.11.1989, 4 exx.; Deià: Son Marroig 09.10.2016, 1 ex.; Esporles 10.1982, 1 ex.; *ibid* 11.05.1983, 1 ex.; *ibid* 27.10.1984, 3 exx.; *ibid* 01.05.1986, 5 exx.; *ibid* 04.04.1987, 2 exx.; *ibid* 02.05.1987, 1 ex.; *ibid* 10.04.1988, 2 exx.; *ibid* 10.1990, 1 ex.; *ibid* 03.10.1999, 3 exx.; *ibid* 15.10.1999, 3 exx.; *ibid* 08.10.2016, 1 ex.; *ibid*: S'Esgleieta 18.11.1982, 1 ex.; *ibid* 18.11.1997, 1 ex.; Manacor: Cala Antena 08.10.2006, 1 ex.; Palma: Campus UIB 05.12.2003, 1 ex.; *ibid* 09.02.2011, 1 ex.; *ibid* 11.2005, 1 ex.; *ibid* 15.10.2012, 3 exx.; Palma: Ses Illetes 13.11.1999, 5 exx.; Sant Llorenç des Cardassar: Calicant 18.10.1987, 1 ex.

MENORCA—Barranc de Santa Galdana, 18.10.2002, 1 ex. on *Mentha suaveolens* Ehrh. (Lamiaceae); Far de Na Cati 02.05.2014, 1 ex.; S'Algaiarens 03.05.2013, 3 exx.

EIVISSA—Eivissa: Sa Sal Rossa 15.04.1991, 1 ex. (leg. G. Pons); Santa Eulària: punta Arabí 13.07.1965, 1 ex.; Talamanca: marismes 07.07.1965, 5 exx. (Compte 1966). Bechyné (1950) has proposed a new subspecies, *Ch. banksi ibizensis*, for the small specimens of this island, a taxon that is not justified to us.

Most adult individuals on Lamiaceae but some of them also on Asteraceae or Plantaginaceae plants.

***Chrysolina (Hypericia) hyperici* (Forster)**

MALLORCA—Calvià 23.10.1983, 1 ex.; road from Sant Llorenç des Cardassar to Artà km. 5, 23.05.1998, 1 ex. on *Hypericum perforatum* L. (Hypericaceae).

***Chrysolina (Hypericia) quadrigemina* (Suffrian)**

MALLORCA—Alcúdia: teatre romà 19.05.1984, 4 exx. (Petitpierre & Doguet 1986 *sub Ch. alternata* (Suffrian)); Baix de Puig 29.05.1984, 6 exx.; Esporles 23.04.1983, 1 ex.; *ibid* 26.05.1983, 1 ex.; *ibid* 04.06.1983, 1 ex. (Petitpierre & Doguet 1986 *sub Ch. alternata* (Suffrian)); Son Serra de Marina: torrent Na Borges, 25.03.1988, 2 exx.; Son Servera 18.10.1983, 2 exx. (Petitpierre & Doguet 1986 *sub Ch. alternata* (Suffrian)). All these individuals on *Hypericum perforatum*.

***Chrysolina (Sulcicollis) peregrina* (Herrich-Schaeffer)**

MALLORCA—Esporles 11.1981, 3 exx.; *ibid* 20.10.1982, 1 ex.; *ibid* 10.11.1982, 1 ex.; *ibid* 20.10.1985, 3 exx., one of them on wild *Daucus carota* L. (Apiaceae) (Petitpierre 1985); *ibid* 26.10.1985, 3 exx.; *ibid* 12.1985, 3 exx.; *ibid* 26.10.1991, 3 exx.; *ibid* 16.05.1999, 3 exx.; *ibid* 19.05.2005, 1 ex.; *ibid* 31.10.2009, 1 ex.; *ibid* 24.04.2010, 1 ex.; *ibid* 02.11.2013, 1 ex.; *ibid* 23.11.2014, 1 ex.; *ibid* 07.10.2016, 1 ex.; *ibid*: S'Esgleieta 06.05.1983, 2 exx.; *ibid* 18.11.1997, 2 exx.; Palma: Campus UIB 11.1986, 3 exx.; *ibid* 17.10.1987, 6 exx.; *ibid* 11.1987, 3 exx.; *ibid* 25.10.1994, 1 ex. on *Daucus carota*; *ibid* 16.11.1994, 3 exx.; *ibid* 24.05.2009, 1 ex.; *ibid*

17.11.2011, 2 exx.; *ibid* 30.11.2011, 1 ex.; *ibid* 1.X.2012; *ibid* 26.10.2012, 1 ex.; *ibid* 12.11.2012, 1 ex.; *ibid* 16.10.2015, 3 exx.; Santa Maria 01.10.1988, 2 exx.; Son Servera 18.10.1983, 1 ex. Many specimens on *Foeniculum vulgare* Miller, its most common host plant (Jolivet & Petitpierre 1976).

MENORCA—Maó, Santa Galdana (Compte 1968).

***Chrysolina (Synerga) viridana* (Küster)**

MALLORCA—Alcúdia: S'Albufera 10.06.1985, 4 exx. on *Mentha suaveolens* Ehrh. (Lamiaceae); Artà: torrent 29.05.1985, 2 exx.; Port de Pollença: torrent Sant Jordi 19.09.1985, 2 exx.; *ibid* 08.10.1985, 4 exx.; *ibid* 16.04.1990, 6 exx. all on *M. suaveolens*; Esporles 01.06.1986, 4 exx. on *M. suaveolens*.

MENORCA—Barranc de Santa Galdana, 18.10.2002, 7 exx. on *Mentha suaveolens*. Compte (1968) quoted also from this island giving old locations.

***Colaphellus sophiae* (Schaller)**

MALLORCA—Alaró 29.11.2015, 9 exx. (leg. J. Verd); Esporles 25.10 to 02.11.2014, 4 exx.

on *Diplotaxis tenuifolia* L. (Brassicaceae) (Petitpierre 2016); *ibid* 14.09.2015, 3 exx.; *ibid* 17.09.2015, 3 exx.; *ibid* 06.10.2015, 4 exx.; *ibid* 25.10.2015, 1 ex.; *ibid* 08.10.2016, 3 exx.; Palma: Campus UIB 17.10.2015, 1 ex. Invader species from Central Europe which has been probably introduced with cultures of wall rocket, *Diplotaxis tenuifolia*.

***Cyrtonus majoricensis* Breit**

MALLORCA—Escorca: Coll de Bini 21.03.1990, 1 death ex.; Es Teix 950m. alt. 20.06.1983, 4 exx.; *ibid* 03.10.1983, 9 exx.; *ibid* 10.10.1983, 4 exx.; *ibid* 03.10.1984, 6 exx.; *ibid* 02.10.1986, 7 exx.; *ibid* 06.10.1989, 14 exx.; *ibid* 26.05.2001, 1 ex.; *ibid* 26.04.2006, elytra of 1 ex. Likewise feeding on plants of the *Leodontodon tuberosus* L. (Asteraceae) growing at the collecting site in Es Teix (Petitpierre 1984). As well as all the other species of *Cyrtonus*, it is a rare nocturnal insect which remains hidden under stones during the day.

***Gastrophysa polygoni* (Linnaeus, 1758)**

MALLORCA—Santa Ponça 01.10.1983, 10 exx. (Petitpierre & Doguet 1986); Alcúdia: S'Albufera 21.08.1984, 1 ex., 10.06.1985, 9 exx. on *Polygonum aviculare* L. (Polygonaceae); Sa Porrassa 18.07.1984, 4 exx.

***Leptinotarsa decemlineata* (Say, 1824)**

MALLORCA—Alcúdia: S'Albufera 29.04.1982, 1 ex.; Esporles 24.06.1984, 1 ex.; *ibid* 18.05.1988, 2 exx.; *ibid* 23.07.1993, 1 ex.; Palma: Es Molinar 26.04.1990, 1 ex.

MENORCA—Although it has not still been collected, it should be present in this island.

EIVISSA—Santa Eulària, two great infestations in 1980s and 1990s (C. Guerau de Arellano *in litt.*). The adult and larval specimens are found on potato crops, *Solanum tuberosum* L. (Solanaceae).

***Timarcha balearica* Gory**

MALLORCA—Alcúdia: road to Cap Pinar 18.10.1986, 1 ex.; Artà: Puig de Ferrutx 519m. alt., 23.10.2011, 1 ex.; *ibid*: Parc Natural Serres de Llevant 14.10.2012, 1 ex.; *ibid* 14.05.2013, 1 ex.; Banyalbufar 02.10.1983, 1 ex.; *ibid* 21.11.2014, 1 ex.; Cala Sant Vicenç 31.05.1989 (leg. R. Beenen); Calvià 21.03.1982, 1 ex.; Cúber 17.06.1987, 1 ex.; *ibid* 08.11.1989, 2 exx.; *ibid* 17.06.1987, 1 ex.; Esporles 11.10.1982, 2 exx.; *ibid* 11.1982, 2 exx.; *ibid* 05.1987, 1 ex.; *ibid* 10.1987, 1 ex.; *ibid* 06.1998, 2 exx.; *ibid* 16.05.1999, 3 exx.; *ibid* 11.1999, 2 exx.; *ibid* 21.10.2015, 2 exx.; *ibid* 28.10.2015, 1 ex.; *ibid* 07.10.2016, 1 ex.; Es Teix 950m. alt. 20.06.1983, 1 ex.; Porto Cristo 1 ex. (Petitpierre 1970a). Most adult and larvae individuals feeding on *Rubia peregrina* L. or *R. angustifolia* L. (Rubiaceae), but at least the adults from Cúber on *Plantago lanceolata* L. (Plantaginaceae).

MENORCA—Ciutadella, Ferreries, Fornells, Maó, Mercadal, Sant Climent, and all the island (Compte 1968); Maó 11 exx. (Petitpierre 1970b); Punta Na Nati: 1 km South 03.05.2014, 1 ex.

Jolivet (1953) published an insightful study on the morphology of immature and adult stages, natural history, habitats, and host-plant affiliations in this species.

Galerucinae

Galeruca (Eumarhopa) rufa Germar, 1824

MALLORCA—Palma: Campus UIB 04.10.1997, 3 exx.; *ibid* 01.07.1998, 1 ex.; *ibid* 28.07.1998, 1 ex.; *ibid* 01.10.2002, 7 exx.; *ibid* 01.10.2002, 3 exx.; *ibid* 06.10.2002, 1 ex.; *ibid* 22.10.2002, 1 ex.; *ibid* 19.11.2002, 1 ex.; *ibid* 03.01.2003, 1 ex.; *ibid* 04.06.2003, 1 ex.; Palma: Es Vivero, 08.10.2002, 5 exx. (Gómez-Zurita & Petitpierre 2004). The host plant of *G. rufa* in Mallorca is probably *Convolvulus arvensis* L. (Convolvulaceae).

MENORCA—The old record of *Lochmaea crataegi* Forster (Jolivet 1953; Compte 1968) might be attributed to this species?.

Leptomona erythrocephala (Olivier)

MALLORCA—Palma: Campus UIB, Font de la Vila 04.05.2008, 16 exx. (Petitpierre & Vives 2008); *ibid* 20.05.2009, 3 exx. All of them on *Potentilla reptans* L. (Rosaceae).

Monoxia obesula Blake

MALLORCA—Palma: Es Carnatge, 10.2015, 15 exx. on bushes of *Atriplex halimus* L. (Chenopodiaceae). This is an invading species of North American origin which had been previously quoted from Sardinia (Clark *et al.* 2014) and Malta very recently (Mifsud 2016).

Our citation is the third Palaearctic record of this species. The event has probably occurred by trade of ornamental plants.

Xanthogaleruca luteola (O.F. Müller)

MALLORCA—Alcúdia: S'Albufera, 15.07.1987, 17 exx.; Esporles 26.10.1991, 1 ex.; Palma: Campus UIB 06.10.1986, 1 ex.; *ibid* 24.09.1990, 1 ex.; *ibid* 19.04.2003, 4 exx.; Porreres 20.04.1986, 6 exx.; Sa Pobla 29.06.1983, 7 exx. All on *Ulmus minor* L. (Ulmaceae), and as occurs in the Iberian Peninsula, it is an important pest for these trees.

MENORCA—Maó, Ferreries (Compte 1968 *sub* *Galerucella luteola*)

EIVISSA—Santa Eulària 13.07.1965, 1 ex. (Compte 1966).

Alticinae

Altica ampelophaga Guerin-Meneville

MALLORCA—Cala Sant Vicenç 29.05 to 01.06.1989 (leg. R. Beenen); Esporles 09.11.1983, 1 ex.; *ibid* 20.09.1984, 1 ex.; *ibid* 25.09.1984, 1 ex.; *ibid* 15.10.1984, 2 exx.; *ibid* 21.11.1984, 1 ex.; *ibid* 23.05.1985 1 ex.; 11.10.1985, 1 ex.; *ibid* 14.09.1986, 2 exx.; *ibid* 28.09.1986, 4 exx.; *ibid* 05.10.1986, 4 exx.; *ibid* 25.09.1994, 1 ex.; Port de Pollença 14.09.2001, 2 exx. All of them on leaves of vine arbours, *Vitis vinifera* L. (Vitaceae).

MENORCA—Maó, Santa Galdana, islet of Coloms, and the whole island (Compte 1968).

EIVISSA—Eivissa city surroundings: 06.07.1965, many specimens on *Vitis vinifera* (Compte 1966).

FORMENTERA—road to Cap de Barbaria 22.04.2003, 2 exx. (Sacarés & Petitpierre 2004).

Altica lythri Aubé

MALLORCA—Alcúdia: S'Albufera 29.4.1983, 8 exx. on *Epilobium* sp. (Onagraceae); *ibid*: S'Albufereta 04.05.1982, 1 ex.; *ibid* 18.06.1983, 1 ex.; Capdepera: Canyamel beach 24.04.1985, 1 ex.

MENORCA—Port d'Addaia 9.10.1984, 1 ex.

Aphthona atrocoerulea Allard

MALLORCA—Artà 15.04.2011, 1 ex.; Cúber 12.06.1993, 5 exx.; Esporles 14.01.1984, 3 exx.; *ibid* 12.02.1984, 1 ex.; *ibid* 24.04.1984, 3 exx.; *ibid* 13.10.1986, 1 ex.; *ibid*: S'Esgleieta 04.11.2001, 4 exx.; Lluc 04.06.1985, 1 ex.; Palma: Campus UIB 24.02.2003, 9 exx. on *Euphorbia helioscopia* L.; *ibid* 22.05.2003, 1 ex.; *ibid* 02.04.2004, 1 ex.; *ibid* 21.05.2004, 1 ex.; *ibid* 04.05.2008, 1 ex.; *ibid* 02.11.2009, 1 ex.; Son Serra de Marina: torrent Na Borges 09.06.1990, 1 ex.; *ibid* 10.06.1991, 1 ex. (Bastazo *et al.* 1993 *sub* *A. cyanella* Redtenbacher);

Vilafranca de Bon Any: santuari 12.05.2001, 2 exx. Also in the islet of Sa Dragonera (Gomez-Zurita *et al.* 1996 *sub A. cyanella*): 03.06.1990, 11 exx.; *ibid* 25.05.1996, 30 exx.; *ibid* (Petitpierre *et al.* 2007): road to Cap de Llebeig, 29.05.2005, 20 exx., *ibid*, 01.10.2005, 7 exx.; *ibid*, 09.06.2006, 46 exx.; *ibid* path to Na Pòpia, 01.10.2005, 8 exx.; *ibid*, 23.10.2005, 34 exx.; *ibid*, 18.04.2006, 11 exx.; *ibid* 09.05.2006, 11 exx. All individuals on *Euphorbia characias* L. (Euphorbiaceae). It is the most abundant leaf beetle in the islet. Furthermore, it lives in the small island of Cabrera: Cala En Ganduf 05.11.1991 (Palmer & Petitpierre 1993 *sub A. cyanella* Redtb.).

MENORCA—Barranc de Santa Galdana, 16.06.2003, 1 ex.; Binimel.la, 19.10.2002, 1 ex.; Macarella: Son Torralbes, 20.10.2002, 1 ex.

EIVISSA—Eivissa (Compte 1966 *sub A. cyanella* Redtb.); Es Canar, 21.04.2003, 1 ex.; Ses Salines, 23.04.2003, 3 exx.; road from Eivissa to Santa Eulària, 21.04.2003, 19 exx.

***Aphthona depressa* Allard**

MALLORCA—Alcúdia 08.11.1990; *ibid*: S'Albufera 01.07.1997, 1 ex.; Biniamar 03.04.1984, 2 exx.; Esporles 19.03.1983, 2 exx.; *ibid* 14.05.1984, 6 exx.; *ibid* 10.11.1985, 2 exx.; *ibid* 25.12.2008, 1 ex.; *ibid* 19.10.2013, 1 ex.; *ibid*: S'Esgleieta 17.01.1983, 9 exx. (Segarra & Petitpierre, 1985; Bastazo *et al.* 1993); *ibid* 23.11.1984, 11 exx.; *ibid* 04.03.1991, 5 exx.; *ibid* 19.03.1992, 6 exx.; *ibid* 16.11.1997, 5 exx.; Palma: Campus UIB 20.10.1982, 1 ex.; *ibid* 01.11.1996, 14 exx.; *ibid* 24.02.2002, 2 exx.; *ibid* 08.11.2003, 23 exx.; *ibid* 02.11.2009, 12 exx.; *ibid* 01.11.2013, 1 ex.; *ibid* 01.11.2016, 5 exx.; *ibid*: Establiments Nous 18.03.1993, 1 ex.; Valldemossa: Son Moragues 10.10.1983, 2 exx. Almost all specimens on unidentified *Euphorbia* spp. (Euphorbiaceae).

***Aphthona euphorbiae* (Schrank)**

MALLORCA—Artà: massif 11.09.1985, 2 exx.; *ibid* 09.09.1986, 1 ex.; *ibid* 20.03.2014, 1 ex.; *ibid*: Sa Duaia 20.03.2014, 1 ex.; Betlem: ermita 28.09.1984, 38 exx., on *Quercus rotundifolia* Lam. (Fagaceae); *ibid* 11.10.2008, 1 ex.; Caimari 27.05.1983, 1 ex.; Cala Blava 02.12.1988, 3 exx.; Cúber 10.07.1985, 3 exx.; *ibid* 24.09.1985, 20 exx., on *Quercus rotundifolia*; *ibid* 18.06.1993, 1 ex.; *ibid* 01.06.1994, 3 exx.; Esporles: Son Cabaspre 23.05.1985, 3 exx. on *Quercus rotundifolia*; Palma 10.01.1986, 1 ex.; Palma: Establiments 21.05.1983, 2 exx.; Pollença: Ternelles 09.09.89, 2 exx.; Port de Pollença: badia 02.07.1985, 1 ex. Also in the islet of Sa Dragonera (Gómez-Zurita *et al.* 1996), and in the small island of Cabrera: Cala En Ganduf 05.11.1991, 1 ex. (Palmer & Petitpierre 1993).

MENORCA—Compte (1968 *sub A. hilaris* Stephens) reports it from this island without giving any locality. Very doubtful.

***Aphthona flaviceps* Allard, 1860**

MALLORCA—Alcúdia: S'Albufereta 02.07.1985, 4 exx.; *ibid* 11.09.1985, 5 exx. (Segarra & Petitpierre 1985); Baix de Puig 16.09.1991, 1 ex.; Bunyola: Binicanella 06.05.1986, 1 ex.; Caimari 27.05.1983, 3 exx.; Coll de Söller 30.10.1981, 23 exx.; Cúber 17.11.1981, 1 ex.; *ibid* 18.06.1993, 7 exx.; *ibid* 24.09.1995, 7 exx.; *ibid* 07.06.2013, 9 exx.; Escorca 20.09.1994, 5 exx.; *ibid*: Binifaldó 13.05.1992, 3 exx.; *ibid*: vall de Son Marc 23.04.1982, 5 exx.; Esporles 07.03.1998, 1 ex.; *ibid*: S'Esgleieta 16.11.1997, 4 exx.; Lluc 04.06.1985, 6 exx.; Palma: Campus UIB 19.05.2011, 3 exx.; Pollença: Ternelles 09.09.1989, 2 exx.; Porreres: Montesión 20.04.1985, 1 ex.; Port de Pollença: torrent Sant Jordi 07.03.1989, 1 ex.; *ibid* 26.10.1990, 2 exx.; Son Serra de Marina: torrent Na Borges 07.07.1989, 1 ex.; *ibid* 16.08.2007, 10 exx.; Valldemossa: Son Moragues 01.05.1983, 1 ex.; *ibid* 03.10.1984, 7 exx.; *ibid* 02.10.1985, 10 exx.. Also in the islet of Sa Dragonera (Gómez-Zurita *et al.* 1996), and in the small island of Cabrera: Monument als Francesos 20.07.1984, 1 ex. Most specimens on *Euphorbia helioscopia* L. or *E. paralias* L. (Euphorbiaceae).

MENORCA—Cavalleria: far 17.06.2003, 4 exx.

EIVISSA—Although it has not been found yet, it would surely live in this island because it is in Formentera.

FORMENTERA—road to the Cap de Barbaria 22.04.2003, 1 ex. (Sacarés & Petitpierre 2004).

***Aphthona nigriceps* (Redtenbacher)**

MALLORCA—Alcúdia 03.11.1990, 1 ex.; *ibid*: road to Alcanada 29.05.1985, 3 exx.; *ibid*: S'Albufera 10.06.1985, 5 exx.; *ibid* 08.06.1989 (leg. R. Beenen); Colonia Sant Pere 26.10.2011, 1 ex.; Cúber 07.06.2013, 1 ex.; Esporles 16.01.1982, 1 ex.; *ibid* 20.01.1982, 2 exx.; *ibid* 30.01.1982, 2 exx.; *ibid* 29.01.1984, 1 ex.; *ibid*

04.02.1995, 2 exx.; *ibid* 28.10.1995, 2 exx.; *ibid* 06.02.2000, 8 exx.; *ibid* 11.11.2000, 4 exx.; *ibid* 27.10.2002, 1 ex.; *ibid* 04.11.2012, 18 exx.; *ibid*: S'Esgleieta 23.11.1984, 11 exx.; *ibid* 19.03.1992, 3 exx.; 10 exx.; *ibid*: Ses Planes de Canet 05.11.1985, 12 exx.; Lluçmajor: marina 21.03.1983, 1 ex.; Manacor 20.10.1983, 1 ex.; Moscardi 29.10.1982, 6 exx.; Palma: campus UIB 17.10.1997, *ibid* 18.11.2001, 3 exx.; *ibid* 06.10.2002, 1 ex.; *ibid* 22.05.2003, 17 exx.; *ibid* 01.11.2016, 4 exx.; Port de Pollença: badia 02.07.1984, 8 exx.; *ibid* 19.09.1985, 5 exx.; *ibid* 08.06.1989 (leg. R. Beenen); *ibid* 26.10.1990, 1 ex.; Port de Pollença: torrent Sant Jordi 26.10.1990, 1 ex.; *ibid* 19.09.1995, 5 exx.; *ibid* 07.1991, 2 exx.; Puig de Na Moixa 07.05.2014, 1 ex.; Son Serra de Marina: torrent Na Borges 02.10.2013, 2 exx. Also in the islet of Sa Dragonera: path to na Pòpia 18.04.2006, 5 exx. (Petitpierre *et al.*, 2007), and probably in the small island of Cabrera (Compte, 1968). All of them on *Geranium* or *Erodium* spp. (Geraniaceae).

MENORCA—Algendar 18.10.2002, 1 ex.; Es Grau: S'Albufera 19.10.2002, 2 exx.; Macarella: Son Torralbet 20.10.2002, 1 ex.; Maó: isla del Rei 10.10.1984, 3 exx.

EIVISSA—Cala Jondal 03.11.2002, 6 exx.; Santa Eulària 21.04.2003, 2 exx. (Sacarés & Petitpierre 2004).

FORMENTERA—(Sacarés & Petitpierre 1999).

***Aphthona punctiventris* Mulsant et Rey**

MALLORCA—Alaró 17.03.1990, 5 exx.; Alcúdia: S'Albufera 01.02.1997, 4 exx.; Caimari 27.05.1983, 2 exx.; Can Picafort 14.06.1984, 1 ex.; Cúber 10.11.1981, 6 exx.; *ibid* 03.05.1997, 1 ex.; *ibid* 15.06.2000, 2 exx.; Escorca: Binifaldó 26.03.1985, 2 exx.; *ibid*: Vall de Sant Marc 23.04.1982, 5 exx.; Esporles 29.01.1984, 1 ex.; *ibid* 18.02.1989, 8 exx.; *ibid*: Son Cabaspre 03.04.2004, 2 exx.; Es Teix 950m. alt. 06.10.1989, 1 ex.; Galilea 21.03.1982, 8 exx.; Lluc 04.06.1985, 1 ex.; Mancor la Vall 08.03.1987, 10 exx. on *Euphorbia dendroides* L.; Port de Sóller 23.04.1985, 1 ex.; Valldemossa 21.4.1982, 7 exx.; *ibid*: Son Moragues 04.05.1983, 11 exx.; *ibid* 09.05.1983, 1 ex.; *ibid*: urbanization George Sand 15.02.1998, 25 exx. on *Euphorbia characias* L. (Euphorbiaceae).

***Batophila aerata* (Marsham)**

MALLORCA—Alcúdia: S'Albufera 21.05.1987, 13 exx.; *ibid* 23.05.1988, 1 ex.; Artà 20.03.1982, 2 exx.; *ibid*: Calicant 15.04.2011, 7 exx.; Banyalbufar 20.10.1985, 1 ex.; Biniamar 03.04.1984, 7 exx.; Cúber 18.06.1993, 1 ex.; Esporles 15.01.1982, 1 ex.; *ibid* 30.01.1982, 1 ex.; *ibid* 19.03.1983, 3 exx.; *ibid* 10.04.1983, 13 exx.; *ibid*: Ses Planes de Canet 13.04.1985, 1 ex.; Lluc 27.05.1983, 1 ex.; *ibid* 04.06.1985, 6 exx.; Orient 05.02.1982, 1 ex.; Palma: Campus UIB 17.10.1997, 1 ex.; *ibid* 08.11.2003, 1 ex.; *ibid* 02.04.2004, 1 ex.; *ibid* 04.05.2008, 15 exx.; *ibid* 30.05.2008, 2 exx.; *ibid* 24.05.2009, 10 exx.; *ibid* 15.04.2011, 4 exx.; Port de Pollença: torrent Sant Jordi 20.10.1990, 1 ex.; Son Serra de Marina: torrent Na Borges 25.03.1988, 1 ex., *ibid* 26.10.1990, 1 ex., *ibid* 10.06.1991, 9 exx. All specimens on *Rubus caesius* L.

MENORCA—Barranc de Santa Galdana 18.10.2002, 1 ex.; *ibid* 16.06.2003, 2 exx. (Sacarés & Petitpierre 2004).

***Chaetocnema (Chaetocnema) hortensis* (Geoffroy)**

MALLORCA—Alcúdia: S'Albufera 01.02.1997, 2 exx.; Esporles 04.02.1995, 1 ex.; *ibid* 29.06.1995, 1 ex.; *ibid* 09.06.1996, 1 ex.; *ibid* 19.10.2008, 1 ex.; *ibid* 27.05.2012, 1 ex.; Palma: campus UIB 04.05.2008, 1 ex.; Port de Pollença 13.09.2002, 1 ex.;

MENORCA—Barranc de Santa Galdana 18.10.2002, 1 ex., 16.06.2003, 6 exx.; Binimel·la 19.10.2002, 1 ex.; Cala Macarella 20.10.2002, 1 ex., 16.06.2003, 1 ex.; Es Grau: S'Albufera 19.10.2002, 1 ex.; Es Migjorn Gran 2 km. NE, 17.06.2003, 54 exx.

The adult specimens caught in both islands were found on different Poaceae grasses.

***Chaetocnema (Tlanoma) depressa* (Boieldieu)**

MALLORCA—Pollença: Ternelles 10.06.1990 (Teunissen 2002); Port de Sóller 23.04.1985, 7 exx.; *ibid* 07.06.1990 (Konstantinov *et al.* 2011); Esporles 20.04.1986, 4 exx., all on *Dorycnium pentaphyllum* Scop. (Fabaceae) (Petitpierre 1985); Manacor: puig de Na Moixa 07.05.2014, 4 exx. on *Dorycnium pentaphyllum*; Sant Elm: La Trapa 02.10.2004, 2 exx.

MENORCA—Compte (1968) without giving any particular locality. It has been also quoted by Konstantinov *et al.* (2011).

***Chaetocnema (Tlanoma) pelagica* Caillol**

This taxon has been recently raised to the species status by Konstantinov *et al.* (2011), who have separated it from *Ch. chlorophana* (Duftschmid) as a good species and not a subspecies.

MALLORCA—Alcúdia: S'Albufera 21.05.1987, 1 ex.; *ibid* 15.07.1987, 1 ex.; *ibid* 23.05.1988, 2 exx.; Artà: sa Canova 27.04.1997, 1 ex.; Cúber 05.06.1991, 3 exx.; *ibid* 18.06.1993, 1 ex.; Escorca: Manut 15.06.1982, 3 exx.; Lluc 27.05.1983, 3 exx.; *ibid* 04.06.1995, 7 exx.; Port de Pollença: badia 25.07.1982, 1 ex.; *ibid* 08.06.1989 (leg. R. Beenen); *ibid*: torrent Sant Jordi, 08.10.1987, 2 exx.; *ibid* 17.05.1988, 2 exx.; *ibid* 07.03.1989, 1 ex.; *ibid* 26.10.1990, 2 exx.; Son Serra de Marina: torrent Na Borges 26.03.1988, 4 exx.; *ibid* Son Servera 18.10.1983, 1 ex.

All specimens on *Juncus acutus* L. (Juncaceae).

MENORCA—Compte (1968 *sub* *C. chlorophana* Duftschmid) without giving any geographic source.

***Chaetocnema (Tlanoma) tibialis* (Illiger)**

MALLORCA—Alcúdia 04.05.1982, 3 exx.; Alcúdia: S'Albufera 10.06.1985, 4 exx.; *ibid* 21.05.1987, 6 exx.; *ibid* 08.06.1989 (leg. R. Beenen); *ibid*: S'Albufereta 12.09.1982, 4 exx.; *ibid* 17.10.1982, 6 exx.; *ibid* 19.09.1985, 4 exx. on *Atriplex hastata* L. (Chenopodiaceae); *ibid* 13.03.1987, 1 ex.; Cala Romàtica 11.09.1988, 4 exx.; Esporles 12.05.1994, 1 ex.; *ibid* 24.09.1994, 6 exx. on *Chenopodium album* L.; *ibid* 19.05.2013, 1 ex.; *ibid* 31.03.2013, 1 ex.; *ibid*: s'Esgleieta 19.06.1992, 7 exx.; Port de Pollença: torrent Sant Jordi 02.07.1985, 6 exx.; *ibid* 16.03.1990, 3 exx.; Porto Petro 01.10.1998, 16 exx. (leg. R. Beenen); Sa Calobra: torrent de Pereis 14.07.1985, 2 exx.; Ses Salines: salines de Llevant 19.03.1982, 4 exx.; *ibid*: sa Vall 01.07.1982, 7 exx.; Son Serra de Marina: torrent Na Borges 07.09.1988, 5 exx.; *ibid* 07.07.1989, 2 exx.; Valldemossa 20.03.1988, 1 ex.

MENORCA—Maó (Compte 1968)

EIVISSA—Eivissa surroundings, 07.07.1965, 2 exx. (Compte 1966).

***Dibolia occultans* (Koch)**

MALLORCA—Alcúdia: S'Albufera 22.05.1988, 1 ex.; Lluc 10.07.1985, 1 ex. (Petitpierre, 1985); Port de Pollença: torrent Sant Jordi 13.04.1992, 8 exx.; Son Serra de Marina: torrent Na Borges 17.04.1989, 2 exx. All of them on *Mentha suaveolens* Ehrh. (Lamiaceae).

***Dibolia peyerimhoffi* Doguet**

EIVISSA—road from Eivissa city to Santa Eulària 21.04.2003, 2 exx. (Sacarés & Petitpierre 2004).

It is a species from the Maghreb, in North Western Africa (Döberl, 2010).

***Epitrix hirtipennis* (Melsheimer, 1847)**

MALLORCA—Sa Pobla 08.1998, 2 exx. on potato crops (leg. J. Gomis).

MENORCA—unknown geographic source 21.06.2016, 17 exx. (leg. D. Olmo).

This invader North American species has been quoted in Europe from Bulgaria, Greece and Italy (Döberl 2010), and very recently in Catalonia, North-Eastern Spain (Viñolas *et al.* 2016).

***Hermaphysa (Orthocrepis) ruficollis* (P.H. Lucas, 1849)**

MALLORCA—Port de Pollença, 15.09.2001, 27 exx., on *Chrozophora tinctoria* A. Juss. (Euphorbiaceae) (Petitpierre 2001), the same host-plant than in France (Doguet, 1994).

***Longitarsus (Longitarsus) aeneus* Kutschera**

MALLORCA—Palma: Campus UIB, 08.11.2003, 1 ex. on *Cyanoglossum creticum* Mill. (Boraginaceae); Son Serra de Marina: torrent Na Borges 17.04.1989, 10 exx. on *Cyanoglossum cheirifolium* L. Also in the islet of sa Dragonera: path to Na Pòpia, 01.10.2005, 1 ex. (Petitpierre *et al.* 2007)

***Longitarsus (Longitarsus) aeruginosus* (Foudras)**

MALLORCA—Alcúdia: S'Albufereta 28.06.1982, 1 ex.; *ibid* 17.10.1982, 3 exx.; *ibid* 06.10.1984, 1 ex.; *ibid* 10.09.2011, 1 ex.; Son Serra de Marina: torrent Na Borges 25.03.1988, 3 exx.; *ibid* 07.09.1988, 10 exx.; *ibid* 13.06.1989, 2 exx.; *ibid* 16.10.1991, 2 exx.; *ibid* 17.09.1992, 1 ex.; *ibid* 06.10.2011, 1 ex.

MENORCA—Cala Macarella 20.10.2002, 2 exx.; *ibid* 20.06.2003, 1 ex.

Longitarsus (Longitarsus) albineus (Foudras)

MALLORCA—Cala d'Or 30.09.1998, 5 exx. (leg. R. Beenen); Esporles 24.09.1994, 5 exx.; *ibid* 01.07.2012, 6 exx.; *ibid* 06.07.2012, 4 exx.; Palma: campus UIB 18.11.2001, 2 exx.; Porreres: Montesión 20.04.1985, 2 exx.; Ses Salines: sa Vall 01.07.1982, 2 exx.; Vilafranca de Bon Any: santuari 13.03.1983, 1 ex. All on *Heliotropium europaeum* L. (Boraginaceae)

MENORCA—Algendar 18.10.2002, 7 exx.; Barranc de Santa Galdana, 16.VI.2003, 1 ex.; Es Grau: S'Albufera, 19.10.2002, 3 exx.; Macarella: Son Torralbet, 20.10.2002, 22 exx. (Sacarés & Petitpierre, 2004), all on *Heliotropium europaeum*.

EIVISSA—road from Eivissa to Santa Eulària, 21.04.2003, 1 ex.

FORMENTERA—Es Pujols 01.11.2002, 1 ex.; path to Illetes beach 22.04.2003, 1 ex.; road to Cap de Barbaria 01.11.2002, 9 exx.; *ibid* 22.04.2003, 2 exx.; Sa Mola 01.11.2002, 1 ex. (Sacarés & Petitpierre 2004).

Longitarsus (Longitarsus) anacardius (Allard)

MALLORCA—Esporles 05.02.1984, 3 exx.; *ibid* 28.10.1995, 1 ex.; *ibid* 21.04.2001, 1 ex.; *ibid* 15.03.2003, 1 ex.; *ibid* 01.04.2004, 1 ex.; *ibid* 20.04.2008, 2 exx.; *ibid* 01.05.2008, 1 ex.; *ibid* 01.01.2009, 1 ex.; *ibid* 18.05.2013, 3 exx.; Palma: Campus UIB 18.11.2001, 1 ex.; *ibid* 22.05.2003, 1 ex.; *ibid* 15.03.2003, 04.05.2008, 20 exx.; *ibid* 08.11.2003, 6 exx. All on *Stachys ocymastrum* (L.) Briq. (Lamiaceae).

MENORCA—Macarella: Son Torralbet, 20.10.2002, 1 ex.; Es Grau: S'Albufera, 19.10.2002, 1 ex.

EIVISSA—road from Eivissa to Santa Eulària, 21.04.2003, 1 ex.; Santa Eulària, 21.09.1996, 1 ex.; Sant Joan, 21.09.1996, 1 ex.; Sant Josep, 21.09.1996, 2 exx. (Sacarés & Petitpierre 1999).

FORMENTERA—21.09.1996, 3 exx. (Sacarés & Petitpierre 1999)

Longitarsus (Longitarsus) atricillus Gyllenhal

MALLORCA—Alcúdia: S'Albufera 23.05.1988, 2 exx.; Lluc 27.05.1983, 1 ex.; *ibid* 04.05.1985, 1 ex.;

Longitarsus (Longitarsus) australis (Mulsant et Rey)

MALLORCA—Cúber 07.06.2013, 1 ex.; Son Serra de Marina: torrent Na Borges 16.09.1991, 5 exx., 17.09.1992, 5 exx., 27.09.1997, 4 exx., all of them on *Scrophularia canina* L. (Scrophulariaceae) (Sacarés & Petitpierre 2004).

MENORCA—Arenal de Son Saura 23.07.1978, 14 exx.; Cala Tirant 26.07.1978, 2 exx.; Cala Pilar 31.07.1980, 6 exx. (Petitpierre & Doguet 1981), also on *Scrophularia canina*.

EIVISSA—The report of *L. foudrasi* Weise, sweeping on *Medicago sativa* L. (Compte 1966), should be probably referred to this species.

Longitarsus (Longitarsus) ballotae (Marsham)

MALLORCA—Alcúdia: S'Albufereta 06.10.1990, 1 ex.; Esporles: S'Esgleieta 16.11.1997, 1 ex.; Porto Petro 28.09.1998, 2 exx. (leg. R. Beenen); Son Serra de Marina: torrent Na Borges 17.09.1989, 2 exx. on *Ballota nigra* L. (Lamiaceae); *ibid* 01.06.1992, 2 exx. Also in the islet of Sa Dragonera (Gómez-Zurita et al. 1996); *ibid*: Na Pòpia 09.05.2005, 7 exx. on *Marrubium vulgare* L.; *ibid*: surroundings of harbour 23.10.2005, 8 exx. (Petitpierre et al. 2007).

MENORCA—Barranc de Santa Galdana, 18.10.2002, 42 exx., 16.06.2003, 1 ex., all on *Ballota nigra* L.

Longitarsus (Longitarsus) brisouti Heikertinger

MALLORCA—Esporles: Ses Planes de Canet 05.11.1985, 1 ex. (Petitpierre & Palmer 1993).

Longitarsus (Longitarsus) candidulus (Foudras)

MALLORCA—Palma: Campus UIB 08.11.2003, 3 exx.; *ibid* 04.05.2008, 14 exx.; *ibid* 30.05.2008, 1 ex.; *ibid* 02.11.2009, 9 exx.; *ibid* 15.05.2011, all on *Thymelaea hirsuta* (L.) Endl. (Thymelaeaceae).

MENORCA—Ciutadella 26.08.1976, 22 exx. (Petitpierre & Doguet 1981); Fornells 17.06.2003, 4 exx., on *T. hirsuta*.

***Longitarsus (Longitarsus) cerinthes* (Schrank)**

MALLORCA—Alcúdia: La Victòria 01.05.1984, 9 exx. on *Echium arenarium* Guss; *ibid*: S'Albufera 23.03.1997, 1 ex. (leg. F. Fritzljar); *ibid* 21.04.2004, 13 exx.; *ibid* 22.09.2006, 2 exx.; *ibid*: S'Albufereta 22.10.1983, 2 exx. on *E. arenarium*; *ibid* 01.05.1984, 3 exx. on *E. arenarium* Guss.; *ibid* 22.09.2006, 2 exx.; Artà 29.05.1985, 1 ex.; Baix de Puig 16.09.1991, 1 ex. on *Heliotropium europaeum* L.; Betlem 02.10.12, 1 ex.; Calicant 15.04.2011, 1 ex. on *Cyanoglossum creticum* Mill.; Camp de Mar 19.04.1996, 4 exx. on *Cyanoglossum creticum* Mill.; Colònia Sant Jordi 20.04.1985, 16 exx.; Esporles 30.04.1988, 1 ex. on *Cyanoglossum cheirifolium* L.; *ibid* 10.05.1992, 1 ex.; *ibid* 05.07.2012, 1 ex.; *ibid*: ses planes de Canet 05.11.1985, 4 exx.; Palma: campus UIB 10.05.2011, 1 ex.; Port de Pollença: torrent Sant Jordi 07.05.1983, 3 exx.; Sa Rapita 27.04.1984, 2 exx.; Son Serra de Marina: torrent Na Borges 05.05.1988, 9 exx.; *ibid* 18.04.1989, 4 exx.; *ibid* 02.10.2012, 1 ex. Also in the islet of Sa Dragonera 03.06.1990, 1 ex., 25.06.1996, 1 ex. (Gómez-Zurita *et al.* 1996, *sub L. nervosus* Woll.); path to Na Pòpia 01.10.2005, 1 ex.; Na Pòpia 300m. alt. 18.04.2006, 1 ex. (Petitpierre *et al.* 2007).

MENORCA—Binimel.là, 19.06.2003, 1 ex. (Sacarés & Petitpierre 2004)

EIVISSA—Jesús 20.05.1994, 4 exx. on *Echium vulgare* L.; Ses Salines: road to carregador de sal, 21.04.2003, 1 ex.

FORMENTERA—21.09.1996, 21 exx. (Sacarés & Petitpierre 1999); Migjorn: beach, 22.04.2003, 6 exx. (leg. Sacarés & Moya); path to Cap de Berberia, 22.04.2003, 1 ex. (leg. Sacarés & Moya); path to Sa Mola, 22.04.2003, 1 ex. (leg. Sacarés & Moya).

***Longitarsus (Longitarsus) codinai* Madar *et* Madar**

MALLORCA—Alcúdia: S'Albufereta 04.05.1982, 2 exx.; *ibid* 28.06.1982, 4 exx.; Betlem 02.10.2012, 1 ex.; Esporles 21.10.2007, 1 ex., *ibid* 18.10.2008, 1 ex.; Palma: Campus UIB 17.10.1997, 1 ex.; *ibid* 08.11.2003, 1 ex.; Porto Cristo 20.09.1998, 1 ex.; Porto Petro 01.10.1998, 4 exx. (leg. R. Beenen).

MENORCA—Fornells 17.06.2003, 2 exx.; Sant Tomàs 17.06.2003, 1 ex.

EIVISSA—Jesús 21.09.1996, 11 exx.; Sant Joan, 21.09.1996, 6 exx.; Sant Josep, 21.09.1996, 11 exx., Santa Eulària, 21.09.1996, 12 exx. (Sacarés & Petitpierre 1999); road from Eivissa to Santa Eulària, 21.04.2003, 5 exx.

FORMENTERA—21.09.1996, 13 exx. (Sacarés & Petitpierre 1996).

Most specimens on *Convolvulus* spp. (Convolvulaceae).

***Longitarsus (Testergus) corynthius* (Reiche *et* Sauley) ssp. *metallescens* (Foudras)**

MALLORCA—Palma: Campus UIB 15.03.2003, 2 exx.; *ibid* 29.03.2003, 1 ex., all of them on *Cyanoglossum creticum* Mill. (Sacarés & Petitpierre 2004).

***Longitarsus (Longitarsus) dorsalis* (Fabricius)**

MALLORCA—Esporles: S'Esgleieta 18.11.1982, 1 ex. (Bastazo *et al.* 1993).

***Longitarsus (Longitarsus) echii* (Koch)**

MALLORCA—Esporles: S'Esgleieta 24.11.1982, 5 exx.; *ibid* 11.01.1983, 2 exx.; *ibid* 14.03.1991, 20 exx. on *Echium plantagineum* L.; Palma: Campus UIB 29.03.2003, 1 ex. on *Borago officinalis* L.; *ibid*: Es Molinar 19.03.1982, 7 exx.; *ibid* 19.03.1982, 3 exx.

***Longitarsus (Longitarsus) exsoletus* (Linnaeus)**

MALLORCA—Alcúdia 02.11.1990, 1 ex.; *ibid*: Alcanada 29.05.1985, 1 ex.; *ibid*: S'Albufereta 06.10.1984, 1 ex.; *ibid*, 26.05.1985, 8 exx. on *Cyanoglossum cheirifolium* L.; Lluc 27.05.1983, 17 exx.; *ibid*, 04.06.1985, 3 exx.; Palma: Campus UIB 01.11.1996, 1 ex.

MENORCA—Barranc de Santa Galdana 18.10.2002, 1 ex.; Ferreries (Compte 1968 *sub L. exoletus*).

EIVISSA—Jesús 20.05.1994, 2 exx.; Santa Eulària 21.09.1996, 1 ex. (Sacarés & Petitpierre 1999).

***Longitarsus (Longitarsus) juncicola* (Foudras)**

MALLORCA—Alcúdia: S'Albufera 13.07.1987, 1 ex. (Petitpierre & Palmer 1993).

***Longitarsus (Longitarsus) lateripunctatus* Rosenhauer**

MALLORCA—Esporles 03.02.1990, 4 exx., 28.10.1995, 2 exx.; *ibid* 12.03.2000, 2 exx.; *ibid*: 11.11.2000, 2 exx.; *ibid*: Son Cabaspre 03.02.1990, 4 exx.; Palma: Campus UIB, 05.04.2015, 6 exx. on *Borago officinalis* L.

MENORCA—Es Grau, 19.10.2002, 2 exx. (Sacarés & Petitpierre 2004).

***Longitarsus (Longitarsus) lycopi* (Foudras)**

MALLORCA—Alcúdia: S'Albufera 10.06.1985, 1 ex.; Artà 29.05.1985, 4 exx.; Canyamel: beach 24.04.1985, 2 exx.; Esporles 30.04.1988, 2 exx.; *ibid* 04.11.2012, 3 exx.; *ibid*: La Granja 11.05.1996, 6 exx.; Lluc 04.06.1985, 3 exx.; Port de Pollença: torrent Sant Jordi 17.09.1986, 1 ex.; *ibid* 17.05.1988, 5 exx.; *ibid* 16.03.1990, 5 exx.; *ibid* 08.05.1990, 2 exx.; *ibid* 26.10.1990, 2 exx.; *ibid* 29.10.1991, 39 exx.; *ibid* 13.04.1992, 10 exx. All on *Mentha suaveolens* Ehrh.

MENORCA—Barranc de Santa Galdana, 16.05.2003, 15 exx. on *M. suaveolens*.

EIVISSA—Santa Eulària 03.07.1965, many exx. (Compte 1966).

***Longitarsus (Longitarsus) melanocephalus* (DeGeer)**

MALLORCA—Capdepera 10.09.1983, 1 ex.

***Longitarsus (Longitarsus) nanus* (Foudras)**

MALLORCA—Alcúdia: S'Albufera (Petitpierre & Doguet, 1986); Alcúdia: S'Albufereta 12.09.1982, 5 exx.; *ibid* 17.10.1982, 4 exx.; *ibid* 08.10.1987, 1 ex.; *ibid* 05.07.1991, 6 exx.; Cala d'Or 02.10.1998, 67 exx. (leg. R. Beenen); Can Picafort (Segarra & Petitpierre 1988); Esporles 12.11.1994, 1 ex.; Son Serra de Marina: torrent Na Borges 07.09.1988, 1 ex. All on *Teucrium polium* L. Also in the small island of Cabrera: Puig des Frare 05.11.1991, 1 ex. (Palmer & Petitpierre 1993). This species was probably misidentified by Jolivet (1953) as *L. membranaceus* (Foudras).

***Longitarsus (Longitarsus) nigrofasciatus* (Goeze)**

MALLORCA—Artà: massif 09.09.1986, 2 exx.; Baix de Puig 29.05.1984, 1 ex.; Alcúdia: S'Albufereta 06.10.1984, 3 exx.; *ibid* 08.10.1987, 2 exx.; Cala S'Almunia 13.07.1996, 1 ex.; Cúber 24.09.1985, 12 exx. on *Scrophularia canina* L.; *ibid* 03.05.1987, 2 exx.; Esporles 05.11.1995, 1 ex.; *ibid* 25.10.2014, 1 ex.; *ibid* 02.11.2014, 1 ex.; *ibid* 14.11.2014, 1 ex.; Gorg Blau 10.09.1982, 7 exx.; *ibid* 20.10.1984, 10 exx.; *ibid* 10.07.1985, 5 exx.; Palma: Campus UIB 01.11.1996, 4 exx. on *Verbascum sinuatum* L.; *ibid* 18.11.2001, 3 exx. on *V. sinuatum*; *ibid* 15.03.2003, 3 exx. on *V. sinuatum*; *ibid* 08.11.2003, 1 ex.; Palma: Establiments Nous 21.05.1983, 10 exx.; Sòller 22.07.1995, 1 ex. (leg. J. Gómez-Zurita); Son Serra de Marina: torrent na Borges 27.09.1997, 1 ex.; *ibid* 22.09.2006, 2 exx.; *ibid* 16.08.2007, 2 exx.; *ibid* 06.10.2011, 3 exx.; *ibid* 04.07.2012, 1 ex. all of them on *Scrophularia canina* L.; *ibid* 07.09.1988, 11 exx. on *S. canina*; *ibid* 18.06.1989, 4 exx. on *S. canina*; *ibid* 13.06.1989, 7 exx. on *S. canina*; *ibid* 07.07.1989, 3 exx. on *S. canina*; *ibid* 16.09.1991, 1 ex. on *S. canina*; *ibid* 17.09.1992, 12 exx. on *S. canina*; *ibid* 15.06.1994, 3 exx. on *S. canina*; Valldemossa: son Moragues 02.10.1985, 14 exx. on *S. canina*; *ibid* 30.09.1987, 6 exx.;

MENORCA—Algendar, 19.10.2002, 1 ex.; Binimel.là, 19.10.2002, 1 ex.; Macarella: son Torralbet, 20.10.2002, 2 exx., all on *Verbascum sinuatum* L.

***Longitarsus (Longitarsus) obliteratoides* Gruev**

MALLORCA—Islet of Sa Dragonera (Petitpierre & Palmer 1993; Gómez-Zurita *et al.* 1996); *ibid*: path to Cap de Llebeig 01.10.2005, 11 exx.; *ibid* 09.05.2006, 1 ex. (Petitpierre *et al.* 2007), and in the small island of Cabrera: N'Ensiola 05.11.1991, Puig des Frare 06–07.11.1991, 22 exx. (Palmer & Petitpierre, 1993).

MENORCA—Cala Macarella, 18.06.2003, 1 ex.; path from Cala Turqueta to Cala Macarella, 18.06.2003, 4 exx. (Sacarés & Petitpierre 2004), all on *Rosmarinus officinalis* L.

EIVISSA—Likewise, it surely lives in this island because it is found in the close neighbour island of Formentera.

FORMENTERA—La Mola 17.07.1965, 1 ex. on *Rosmarinus officinalis* L. (Compte 1966 *sub L. obliteratus* Rosenhauer).

Longitarsus (Longitarsus) obliteratus (Rosenhauer)

MALLORCA—Es Teix 900m. alt. 04.06.1983, 1 ex.

Longitarsus (Longitarsus) ochroleucus (Marsham)

MALLORCA—Esporles 11.12.1994, 1 ex.; Port d'Alcúdia 28.10.1990, 1 ex. (Whitehead 1993).

MENORCA—Algendar 18.10.2002, 1 ex.

EIVISSA—path to Illetes beach 20.04.2003, 1 ex.

FORMENTERA—21.09.1996, 1 ex. (Sacarés & Petitpierre 1999).

Longitarsus (Longitarsus) paludivagus (Peyerimhoff)

MALLORCA—Capdepera 20.03.1982, 12 exx.; Palma: Campus UIB 16.05.2015, 1 ex.; Petra 06.06.1989 (leg. R. Beenen *sub L. reichii* Allard); Port de Pollença: torrent Sant Jordi, 2 exx.; *ibid* 16.03.1990, 12 exx.; *ibid* 29.10.1991, 1 ex.; *ibid*: badia 06.10.1984, 1 ex.; *ibid* 17.09.1986, 2 exx.; *ibid* 13.04.1992, 10 exx. Almost all *sub L. melanocephalus* DeGeer (Sacarés & Petitpierre 2004).

MENORCA—Maó 21.07.1991, 1 ex.

Longitarsus (Longitarsus) pellucidus (Foudras)

MALLORCA—Cúber 07.06.2013, 2 exx.; Palma: Campus UIB 01.11.2016, 2 exx.; Son Serra de Marina: torrent Na Borges 04.07.2012, 1 ex.

MENORCA—Alaior: Albaida 17.06.2003, 8 exx.; barranc de Santa Galdana, 18.05.2002, 2 exx.; *ibid* 18.10.2002, 1 ex.; Cala Macarella 18.06.2003, 1 ex.; Es Migjorn Gran 2 km NE 17.06.2003, 1 ex.; Fornells 17.06.2003, 1 ex.

EIVISSA—Santa Eulària 21.9.1996, 7 exx. (Sacarés & Petitpierre 1999).

FORMENTERA—21.09.1996, 1 ex. (Sacarés & Petitpierre 1999).

Longitarsus (Longitarsus) pratensis (Panzer)

MALLORCA—Alaró 17.03.1990, 1 ex.; Alcúdia 03.11.1990, 1 ex.; *ibid*: S'Albufereta 28.06.1982, 6 exx.; *ibid* 29.06.1983, 2 exx.; *ibid* 05.11.1991, 3 exx.; Artà 20.03.1992, 1 ex.; *ibid*: massís 11.04.1985, 2 exx.; Esporles 19.03.1983, 1 ex.; *ibid* 06.04.1983, 1 ex.; *ibid* 14.01.1984, 4 exx.; *ibid*: Ses Planes de Canet 05.11.1985, 1 ex.; Lloseta 03.04.1984, 1 ex.; Moscarí 29.10.1982, 2 exx.; Orient 05.02.1982, 5 exx.; *ibid* 23.03.1985, 13 exx.; Palma: Campus UIB 04.05.2008, 1 ex.; Port de Pollença: torrent Sant Jordi 19.09.1985, 1 ex.; *ibid* 17.09.1986, 1 ex.; *ibid* 16.03.1990, 1 ex.; *ibid* 29.10.1991, 7 exx.; Son Servera 18.10.1983, 3 exx.

Most specimens on *Plantago* spp. (Plantaginaceae).

Longitarsus (Longitarsus) rubiginosus (Foudras)

MALLORCA—Alcúdia: S'Albufereta 28.06.1982, 1 ex.; *ibid* 18.07.1989, 1 ex.; Port de Pollença: torrent Sant Jordi 22.05.1988, 1 ex.

MENORCA—Cala Trebaluger 29.07.1980, 7 exx.

Longitarsus (Longitarsus) strigicollis Wollaston

MALLORCA—Alcúdia: S'Albufera 17.10.1982, 1 ex.; *ibid*: S'Albufereta 17.10.1982, 1 ex.; Betlem: ermita 28.09.1984, 1 ex. on *Pistacia lentiscus* L.; Bunyola: Binicanella 06.05.1985, 1 ex.; *ibid* 30.05.1985, 1 ex.; Cúber 18.06.1993, 1 ex.; *ibid* 03.06.1997, 1 ex.; Escorca: Sa Coma 01.05.1985, 14 exx.; Esporles 19.03.1983, 1 ex.; *ibid* 14.06.1985, 10 exx.; *ibid* 26.05.1987, 6 exx.; *ibid* 09.05.1988, 6 exx.; Lluc 04.06.1985, 1 ex.; Palma: Campus UIB 22.05.2003, 2 exx.; *ibid* 08.11.2003, 3 exx.; *ibid* 04.05.2008, 9 exx.; *ibid* 30.05.2008, 9 exx.; *ibid* 19.05.2011, 2 exx.; *ibid*: Establiments Nous 18.03.1987, 2 exx.; Port de Pollença 26.05.1985, 1 ex.; *ibid* 08.10.1987, 1 ex.; *ibid* 08.06.1989 (leg. R. Beenen); *ibid*: torrent Sant Jordi 17.05.1988, 1 ex.; *ibid* 16.03.1990, 5 exx.; *ibid* 11.05.1983, 3 exx.; Ses Salines 24.05.1982, 1 ex. (Petitpierre & Doguet, 1986 *sub L. bombycinus* Mohr); Son Serra de Marina: torrent Na Borges 05.05.1988, 11 exx.; *ibid* 10.06.1991, 6 exx.

MENORCA—Although it has not been found in this island, it would probably live because it is reported in the three other main Balearic Islands.

EIVISSA—Santa Eulària 21.9.1996, 1 ex.; Jesús 21.09.1996, 1 ex. (Sacarés & Petitpierre 1999); road from Eivissa city to Santa Eulària 21.04.2003, 9 exx.

FORMENTERA—21.09.1996, 1 ex. (Sacarés & Petitpierre 1999).

Longitarsus (Longitarsus) succineus (Foudras)

MALLORCA—Cúber 07.06.2013, 1 ex.; road to Sa Calobra km 3, 10.09.1982, 1 ex., det. S. Doguet (misidentified as *L. ordinatus* (Foudras) by Petitpierre 1985); road from Sant Llorenç des Cardassar to Artà km 5, 23.05.1998, 3 exx.

Longitarsus (Longitarsus) tabidus (Fabricius)

MALLORCA—Alcúdia: S'Albufereta 04.05.1982, 1 ex.; *ibid* 22.06.1982, 6 exx.; *ibid* 02.07.1982; *ibid* 02.07.1985, 7 exx. on *Verbascum sinuatum* L.; *ibid* 08.10.1987, 1 ex.; Calvià 21.03.1982, 1 ex.; Can Picafort 04.07.1984, 1 ex.; Esporles 14.03.1983, 1 ex. on *V. sinuatum* L.; *ibid*: s'Esgleieta 13.03.1983, 1 ex.; Moscarí 20.10.1982, 4 exx.; Palma: CampusUIB 15.03.2003, 1 ex.; *ibid* 29.03.2003 1 ex. on *V. sinuatum* L.; *ibid* 08.11.2003, 1 ex.; Port de Pollença: torrent Sant Jordi 26.10.1990, 1 ex.; *ibid* 29.10.1991, 3 exx. on *V. sinuatum* L.; Son Serra de Marina: torrent Na Borges 07.09.1988, 4 exx.; *ibid* 13.06.1989, 11 exx.; *ibid* 07.07.1989, 4 exx.; *ibid* 09.06.1990, 6 exx.; *ibid* 16.08.2007, 12 exx. on *Scrophularia canina* L.; *ibid* 06.10.2011, 1 ex. on *S. canina* L.; *ibid* 04.07.2012, 1 ex. on *S. canina* L.; *ibid* 02.10.2012, 1 ex. on *S. canina* L.; Son Servera 18.10.1983, 1 ex.

MENORCA—Alaior: Albaida 17.06.2003, 7 exx.; Algendar 19.10.2002, 4 exx.; Binimel.là 19.10.2002, 3 exx.; Macarella: son Torralbet 20.10.2002, 1 ex., all on *Verbascum sinuatum* L.

Compte (1968) reported it also from the island without giving any locality.

Mantura lutea (Allard)

MENORCA—Barranc de Santa Galdana 16.06.2003, 1 ex. (Sacarés & Petitpierre 2004).

Neocrepidodera impressa (Fabricius)

MALLORCA—Alcúdia: S'Albufera 0.06.1986, 1 ex.; *ibid* 21.05.1987, 5 exx.; *ibid*: 22.05.1988, 2 exx.; *ibid*: S'Albufereta 28.06.1982, 1 ex.; *ibid* 19.10.1982, 4 exx.; *ibid* 22.10.1983, 4 exx.; *ibid* 06.10.1984, 1 ex.; *ibid* 02.07.1985, 2 exx.; *ibid* 19.09.1995, 20 exx.; Port de Pollença: torrent Sant Jordi 17.09.1986, 8 exx.; *ibid* 08.10.1987, 4 exx.; *ibid* 17.09.1990; *ibid* 29.10.1991, 1 ex.; Ses Salines: Sa Vall 01.07.1982, 1 ex.

MENORCA—Barranc de Santa Galdana 18.10.2002, 2 exx.; Sant Cristóbal (Compte 1968 *sub Crepidodera impressa*).

Ochrosis ventralis (Illiger)

MALLORCA—Esporles 27.05.1982, 1 ex.; Es Trenc 26.05.1988, 1 ex.; Sant Llorenç des Cardassar: Calicant 19.10.87, 1 ex. on *Pistacia lentiscus* L. ; Son Serra de Marina: torrent Na Borges 07.09.1998, 1 ex.; *ibid* 15.06.1999, 1 ex. Also in the islet of Sa Dragonera, 18.07.1991, 1 ex.; 25.05.1996, 1 ex. (Gómez-Zurita *et al.*, 1996); path to Cap de Tramuntana, 02.05.2005, 19 exx.; path to Na Pòpia, 01.10.2005, 3 exx., *ibid* 23.10.2005, 7 exx.; *ibid* 18.04.2006, 1 ex.; *ibid* 9.05.2006, 3 exx.; road to Cap de Llebeig, 29.05.2005, 15 exx.; *ibid* 09.05.2006, 25 exx. on *Pistacia lentiscus* (Petitpierre *et al.* 2007).

MENORCA—Alaior, Maó, Sant Cristóbal (Compte 1968).

EIVISSA—Although it has not been found yet, it should surely live in the island because it is in Formentera.

FORMENTERA—Es Pujols 01.11.2002, 1 ex. (Sacarés & Petitpierre 2004).

Phyllotreta atra (Fabricius)

MALLORCA—Alcúdia: S'Albufera 08.06.1989 (leg. R. Beenen); *ibid*: S'Albufereta 28.06.1982, 3 exx.; *ibid* 11.03.1983, 3 exx.; Port de Pollença: torrent Sant Jordi 07.02.1989, 4 exx.

Phyllotreta corrugata (Reiche)

MALLORCA—Alcúdia: S'Albufera 13.03.1987, 1 ex.; Baix de Puig 29.10.1982, 6 exx.; Esporles 19.03.1983, 1 ex.; *ibid* 28.10.1995, 17 exx.; *ibid*: S'Esgleieta 18.11.1982, 5 exx.; *ibid* 24.11.1982, 1 ex.; *ibid* 01.11.1997, 1 ex.; Palma 06.04.1984 2 exx.; *ibid*: Campus UIB 20.11.1982, 18 exx.; *ibid* 09.11.1985, 1 ex.; *ibid* 01.11.1996, 1 ex.;

ibid 18.03.2001, 1 ex.; *ibid* 21.10.2001, 7 exx.; *ibid* 18.11.2001, 8 exx.; *ibid* 06.10.2002, 1 ex.; *ibid*: Es Molinar, 19.03.1982, 1 ex.; *ibid*: Establiments 01.10.1984, 3 exx.; *ibid* 02.11.1984, 18 exx.; *ibid*: Son Pardo 20.03.1994, 3 exx. on *Reseda alba*.; Son Serra de Marina: torrent Na Borges 17.05.1989, 1 ex.

MENORCA—Although not yet found, it probably lives in the island because it is in Mallorca and Eivissa.

EIVISSA—Es Canar 02.11.2002, 1 ex., Santa Eulària, 02.11.2002, 1 ex. (Sacarés & Petitpierre 2004). Compte (1966) reported it as a doubtful species from the island.

***Phyllotreta consobrina* (Curtis, 1837)**

MALLORCA—Alaró 25.03.1984, 7 exx.; Alcúdia: S'Albufera 10.06.1985; *ibid* 04.07.2012, 3 exx.; *ibid*: S'Albufereta 22.09.2006, 2 exx.; Baix de Puig, 29.10.1982, 15 exx.; Biniamar 03.04.1984, 1 ex.; Binifaldó 13.05.1992, 3 exx.; Caimari 17.05.1983, 4 exx.; Camp de Mar 19.04.1996, 3 exx.; Can Picafort 04.07.1984, 1 ex.; Colonia Sant Pere 30.06.1984, 1 ex.; Esporles 28.10.1995, 3 exx.; *ibid* 09.10.1999, 2 exx. on *Brassica oleracea* L.; *ibid* 27.05.2012, 33 exx.; *ibid* 01.07.2012, 12 exx.; *ibid* 19.10.2013, 1 ex.; *ibid* 12.04.2014, 1 ex.; *ibid*: S'Esgleieta 19.03.1992, 2 exx.; Es Trenc, 22.10.1985, 1 ex.; Lloseta 03.04.1984, 4 exx.; Manacor 20.10.1983, 4 exx.; Orient 05.02.1982, 1 ex.; Palma: Campus UIB 01.11.1996, 2 exx.; *ibid* 15.03.1997, 8 exx.; *ibid* 18.03.2001, 2 exx.; *ibid* 29.03.2003, 23 exx.; *ibid* 22.05.2003, 2 exx.; *ibid* 08.11.2003, 1 ex.; *ibid* 02.04.2004, 4 exx.; *ibid*: Establiments Nous, 18.03.1987, 3 exx.; Petra: santuari 13.03.1983, 14 exx.; Port de Pollença: torrent Sant Jordi 17.09.1986, 1 ex.; *ibid* 17.05.1988, 1 ex.; *ibid* 03.07.1989, 2 exx.; *ibid* 16.03.1990, 4 exx.; *ibid* 09.06.1990, 1 ex.; *ibid* 26.10.1990, 1 ex.; *ibid* 13.09.2002, 3 exx.; Porto Petro 01.10.1998, 17 exx. (leg. R. Beenen); Ses Salines: Sa Vall 01.07.1982, 1 ex., *ibid* 18.10.1984, 20 exx.; Son Serra de Marina: torrent na Borges, 10.06.1991, 15 exx.; Vilafranca de Bon Any: santuari 12.05.2001, 21 exx.

MENORCA—Cala Tirant 26.07.1978, 1 ex.; Es Grau: s'Albufera 19.10.2002, 3 exx.; Sant Tomàs 17.06.2003, 1 ex. Compte (1968) quotes it from the island without giving any locality.

EIVISSA—Santa Eulària 21.09.1996, 5 exx., Sant Joan, 21.09.1996, 1 ex. (Sacarés & Petitpierre 1999).

***Phyllotreta cruciferae* (Goeze)**

MALLORCA—Alaró 17.03.1990, 1 ex.; Alcúdia 01.08.1990, 5 exx.; *ibid*: S'Albufera 10.06.1985, 1 ex. on *Sisymbrium officinale* L.; *ibid* 16.05.1989, 1 ex.; *ibid* 08.06.1989 (leg. R. Beenen); *ibid*: s'Albufereta 28.06.1982, 4 exx.; Artà 20.03.1982, 10 exx.; *ibid*: Cala Torta 09.04.1986, 4 exx. on *Lobularia maritima* L.; Capdepera: Canyamel 15.07.1984, 2 exx.; Escorca: Binifaldó 13.05.1992, 1 ex. on *Nasturtium officinale* L.; Esporles 23.03.1986, 1 ex.; *ibid* 01.11.1999, 1 ex.; *ibid* 27.05.2012, 2 exx.; *ibid* 21.07.2015, 18 exx.; *ibid*: S'Esgleieta 19.03.1992, 1 ex.; Lloseta 03.04.1984, 1 ex.; Manacor 20.10.1983, 4 exx.; Palma: Campus UIB 01.10.1985, 6 exx.; *ibid* 18.03.2001, 1 ex.; Palma: es Molinar 19.03.1982, 1 ex.; Palma: Establiments Nous 18.03.1987, 1 ex.; *ibid*: son Pardo 09.03.1997, 1 ex. on *Reseda alba*; Port d'Alcúdia 04.05.1984, 2 exx.; Pollença: Ternelles 29.06.1983, 4 exx.; Port de Pollença 02.07.1985, 12 exx. on *Nasturtium officinale* L.; *ibid* 19.09.1985, 6 exx. on *Nasturtium officinale* L.; *ibid* 20.04.1986, 1 ex.; *ibid*: torrent Sant Jordi 17.09.1982, 9 exx.; *ibid* 08.10.1987, 3 exx.; *ibid* 17.05.1988 2 exx.; *ibid* 22.06.1988, 5 exx.; *ibid* 18.07.1989, 5 exx.; Santa Margalida 06.06.1989 (leg. R. Beenen); Ses Salines: Sa Vall 01.07.1982, 2 exx.; Son Serra de Marina: torrent Na Borges 05.05.1988, 1 ex.; *ibid* 07.09.1988, 12 exx.; *ibid* 10.06.1991, 1 ex.

MENORCA—barranc de Santa Galdana 18.10.2002, 2 exx.; *ibid* 16.06.2003, 16 exx.; Fornells, Maó, Santa Galdana (Compte, 1968).

EIVISSA—Santa Eulària 21.09.1996, 2 exx., Sant Joan, 21.09.1996, 1 ex. (Sacarés & Petitpierre 1999); *ibid* 21.04.2003, 2 exx.

***Phyllotreta foudrasi* (Brisout de Barneville, 1837)**

MALLORCA—Alcúdia: S'Albufera 13.03.1987, 4 exx.; *ibid*: S'Albufereta 28.06.1982, 4 exx.; *ibid* 29.06.1983, 3 exx.; *ibid* 02.07.1985, 4 exx.; *ibid* 30.04.1986, 1 ex.; Artà 20.07.1982, 2 exx.; (Petitpierre & Doguet (1986); Esporles 28.10.1985, 3 exx.; *ibid* 31.07.2015, 1 ex. on *Diplotaxis tenuifolia*; Port de Pollença: torrent Sant Jordi 17.09.1986, 1 ex.; *ibid* 17.05.1988, 1 ex.; *ibid* 22.06.1988, 1 ex.; Son Serra de Marina: torrent Na Borges 17.04.1989, 1 ex.; Valldemossa 20.03.1988, 1 ex.

MENORCA—Barranc de Santa Galdana 16.06.2003, 4 exx.; Binimel.là 19.10.2002, 6 exx.; Es Grau 19.10.2002, 15 exx. (Sacarés & Petitpierre 2004).

***Phyllotreta nigripes* (Fabricius)**

MALLORCA—Can Picafort 07.09.2002, 1 ex.

MENORCA—Although Compte (1968) has quoted from the island, it is very doubtful.

***Phyllotreta nodicornis* (Marsham)**

MALLORCA—Esporles: S'Esgleieta, 04.03.1991, 5 exx. (Bastazo *et al.* 1993).

***Phyllotreta procera* (Redtenbacher)**

MALLORCA—Calvià 21.03.1982, 4 exx.; Esporles 19.10.2013, 1 ex.; *ibid* 12.04.2014, 2 exx.; Manacor 20.10.1983, 1 ex.; Palma: Campus UIB 18.03.2001, 2 exx.; *ibid* 31.03.2001, 3 exx.; *ibid* 21.10.2001, 13 exx.; *ibid* 18.11.2001, 57 exx. on *Reseda alba* L.; *ibid* 24.02.2002, 1 ex.; *ibid* 15.03.2003, 16 exx. on *Reseda alba*; *ibid* 29.03.2003, 6 exx.; *ibid* 02.04.2004, 1 ex.; *ibid*: Son Pardo 20.03.1994, 1 ex. on *Reseda alba* L.; *ibid* 09.03.1997, 21 exx. on *Reseda alba*; Port de Pollença: torrent Sant Jordi 16.03.1990, 3 exx.; Santa Ponça 07.07.1983, 3 exx.; Son Serra de Marina: torrent Na Borges 07.09.1988, 1 ex.. Also in the islet of Sa Dragonera (Gómez-Zurita *et al.* 1996): 03.06.1990, 14 exx. on *Reseda luteola* L.; *ibid* 18.07.1991, 10 exx. on *Reseda luteola* L.; and *ibid*: path to Na Pòpia, 18.04.2006, 11 exx. (Petitpierre *et al.* 2007).

MENORCA—Compte (1968) quotes it from the island without giving any locality.

EIVISSA—path to Cala Vedella, 23.04.2003, 1 ex.

FORMENTERA—Es Caló 23.07.1990, 3 exx.

***Phyllotreta punctulata* (Marsham)**

MALLORCA—Orient 05.02.1982, 5 exx.; Palma: Campus UIB 15.03.2003, 1 ex.

***Phyllotreta rufitarsis* (Allard)**

MALLORCA—Esporles 06.10.1984, 2 exx.; Palma: Campus UIB 18.03.2001, 1 ex.; *ibid* 21.10.2001, 7 exx.; *ibid* 18.11.2001, 8 exx.; *ibid* 06.10.2002, 1 ex.; *ibid*: Establiments 01.10.1984, 3 exx., 02.11.1984, 18 exx.; *ibid*: Son Pardo 20.03.1994, 3 exx. on *Reseda alba*.

***Phyllotreta rugifrons* Küster**

MALLORCA—Alcúdia: S'Albufera 28.06.1982, 1 ex.; *ibid* 29.04.1983, 14 exx.; *ibid* 14.06.1984, 1 ex., *ibid* 10.06.1985, 4 exx.; Alcúdia: S'Albufereta 28.06.1982, 1 ex.; *ibid* 11.03.1983, 1 ex.; *ibid*

02.07.1985, 2 exx.; Port de Pollença: torrent Sant Jordi 11.05.1983, 6 exx.; *ibid* 17.05.1985, 6 exx.; *ibid* 22.06.1988, 11 exx., 07.03.1989, 3 exx.; *ibid* 16.03.1990, 4 exx.; *ibid* 13.04.1992, 14 exx., all on *Nasturtium officinale*.

***Phyllotreta undulata* Kutschera**

MALLORCA—Alcúdia: S'Albufera, 29.04.1983, 1 ex.

***Phyllotreta variipennis* (Boieldieu)**

MALLORCA—Esporles 31.07.2015, 7 exx., on *Diplotaxis tenuifolia*; *ibid* 01.07.2012, 1 ex.; Palma: Campus UIB 01.10.1985, 12 exx.; *ibid* 15.03.1997, 1 ex. on *Carrichtera annua* (L.) DC.; *ibid* 29.03.2003, 24 exx. on *Hirschfeldia incana* (L.) Lagr.; Porto Petro 28.09.1998, 6 exx. (leg. R. Beenen).

MENORCA—Fornells 17.06.2003, 1 ex.

EIVISSA—Eivissa city surroundings 07–12.1965 (Compte 1966); Sant Llorenç de Balàfia 21.04.2003, 1 ex.

FORMENTERA—Es Caló 23.07.1990, 1 ex. (Sacarés & Petitpierre 1999).

***Podagricina fuscicornis* (Linnaeus)**

MALLORCA—Alcúdia: Alcanada 29.05.1985, 4 exx. on *Carduus pycnocephalus* L. (Petitpierre, 1985); *ibid*: S'Albufereta 21.05.2004, 3 exx.; *ibid*: la Victòria 12.05.1987, 6 exx.; *ibid*: Sa Talaia 06.05.1995, 1 ex.; Camp de Mar 16.04.1996, 2 exx.; Cúber 22.05.1985, 1 ex.; Esporles 29.04.1982, 3 exx.; *ibid* 17.04.1983, 10 exx.; *ibid* 07.04.1990, 9 exx.; *ibid* 01.05.1990, 2 exx.; *ibid* 01.04.2002, 1 ex.; *ibid* 28.04.2002, 28.04.2002, 19 exx.; *ibid* 17.04.2004, 3 exx.; *ibid* 17.04.2004, 3 exx.; *ibid* 20.04.2008, 1 ex.; *ibid* 24.04.2008, 4 exx.; *ibid* 26.04.2009, 7 exx.;

03.05.2009, 15 exx.; *ibid* 16.05.2009, 22 exx.; *ibid* 22.04.2016, 5 exx.; *ibid*: S'Esgleieta 03.04.1994, 5 exx.; *ibid*: Ses Planes de Canet 10.04.1985, 3 exx.; Palma: campus UIB 15.05.1999, 18 exx. on *C. pycnocephalus*; *ibid* 09.05.2012, 4 exx.; *ibid* 30.04.2013, 1 ex.; *ibid*: Establiments 25.02.1995, 1 ex.; Port de Pollença 20.04.1986, 1 ex.; *ibid* 08.06.1989 (leg. R. Beenen); Santa Margalida 06.06.1989 (leg. R. Beenen); Son Serra de Marina: torrent Na Borges 05.05.1988, 5 exx.; *ibid* 10.06.1991, 2 exx.; Valldemossa 19.05.1997, 2 exx. on tender leaves of *Tilia platyphyllos* L. (Tiliaceae). Although most adult specimens were found feeding on Malvaceae, some of them can feed on *C. pycnocephalus* L. (Petitpierre 1985), and other plants.

MENORCA—Ciutadella 01.05.2014, 1 ex.; Maó and islet of Coloms (Compte 1968); S'Algaiarens 03.05.2013, 7 exx.

EIVISSA—Eivissa: aeroport 20.04.1973, 24 exx.; path to Cala Vedella 23.04.2003, 4 exx. (leg. O. Moya); Sant Joan, 21.04.2003, 4 exx. (Sacarés & Petitpierre, 2004).

***Podagrica malvae* (Illiger) ssp. *semirufa* (Küster)**

MALLORCA—Alcúdia: Alcanada 29.05.1985, 4 exx.; *ibid*: S'Albufera 13.03.1983, 1 ex.; *ibid*: S'Albufereta 19.11.1983, 3 exx.; *ibid*: la Victòria 01.05.1984, 1 ex.; Banyalbufar 02.10.1983, 1 ex.; Cala Millor 07.05.2014, 2 exx.; Cala Sant Vicens 05.11.1988, 4 exx.; *ibid* 30.05.1989 (leg. R. Beenen); Can Picafort 05.05.1988, 4 exx.; Capdepera 10.09.1983, 1 ex.; Cala d'Or 29.09.1998, 8 exx. (leg. R. Beenen); Esporles 21.09.1986, 5 exx.; *ibid* 11.02.1990; *ibid* 01.05.1990, 5 exx.; 4 exx.; *ibid* 09.04.1994, 1 ex.; *ibid* 05.11.1995, 4 exx.; *ibid*: S'Esgleieta 24.11.1982, 6 exx.; *ibid* 17.01.1983, 1 ex.; *ibid* 23.11.1984, 3 exx.; *ibid* 19.03.1992, 5 exx.; *ibid*: Ses Planes de Canet 05.11.1985, 5 exx.; Estellencs 12.04.1987, 1 ex.; Palma: Campus UIB 01.11.1996, 5 exx.; *ibid* 17.10.1997, 8 exx.; *ibid* 29.03.2003, 2 exx.; *ibid* 01.05.2003, 5 exx.; *ibid*: Es Molinar 19.03.1982, 3 exx.; Palma: Son Pardo 20.03.1994, 2 exx.; Porto Cristo: Cala Petita 12.10.1996, 1 ex.; Santa Margalida 06.06.1989 (leg. R. Beenen); Sant Elm 21.05.1984, 10 exx.; Ses Salines 25.05.1982, 5 exx.; Son Serra de Marina: torrent Na Borges 10.06.1991, 5 exx.; Son Servera 18.10.1983, 5 exx. All specimens on *Althaea hirsuta* L., *Malva* spp. or *Lavatera* spp.

MENORCA—Algendar 18.10.2002, 5 exx.; Barranc de Santa Galdana 18.10.2002, 4 exx.; Cala en Bosc 20.10.2002, 7 exx.; Cala Macarella 18.06.2003, 3 exx.; Maó: isla del Rei 10.10.1984, 4 exx.

EIVISSA—path to Cala Vedella, 23.04.2003 (leg. O. Moya).

***Psylliodes algerica* (Allard)**

MALLORCA—Artà: Sa Duaia 20.03.2014, 1 ex.; Betlem 06.10.2011, 1 ex.; Cúber 17.06.1987, 5 exx.; *ibid* 10.07.1985, 5 exx.; *ibid* 03.06.1997, 11 exx.; 13.06.2000, 5 exx.; road from Sant Llorenç des Cardassar to Artà km. 5 22.05.1998, 5 exx.; Port de Pollença 13.09.2002, 1 ex.

MENORCA—Barranc de Santa Galdana 16.06.2003, 3 exx.; Cala Trebaluger 29.07.1980, 1 ex.; Compte (1968) quoted it from an old record but without giving any locality.

The Balearic specimens of *P. algerica* have been usually found on *Quercus* spp., *Pistacia lentiscus* L. or *Populus alba* L. (Petitpierre, 1985).

***Psylliodes chalconera* (Illiger)**

MALLORCA—Camp de Mar 19.04.1996, 1 ex.; Esporles 14.04.1994, 2 exx.; Son Serra de Marina: torrent Na Borges 17.04.1989, 4 exx.; *ibid* 23.05.1990, 3 exx.; *ibid* 10.06.1991, 2 exx., *ibid* 01.05.1992, 1 ex.; *ibid* Palma: Campus UIB 01.11.1996, 9 exx.; *ibid* 18.11.2001, 15 exx., *ibid* 15.03.2003, 1 ex.; *ibid* 01.05.2003, 1 ex.; *ibid* 08.11.2003, 2 exx.; *ibid* 02.11.2009, 2 exx.

Also in the islet of Sa Dragonera: path to Na Pòpia 09.05.2006, 19 exx. (Petitpierre *et al.* 2007). All on *Carduus* spp. and *Silybum marianum* (L.) Gaertn.

MENORCA—Barranc d'Algendar 18.10.2002, 1 ex. (Sacarés & Petitpierre 2004), on *Silybum marianum*.

The Balearic references to *P. hyoscyami* (Linnaeus) (Compte 1968; Jolivet 1953) should be attributed to *P. chalconera*.

***Psylliodes chrysocephala* (Linnaeus)**

MALLORCA—Alcúdia: S'Albufera 21.05.1987, 1 ex.; *ibid* 08.06.1989 (leg. R. Beenen); *ibid*: S'Albufereta 04.05.1982, 1 ex., 08.10.1982, 1 ex., 01.11.1985, 1 ex., 30.04.1986, 1 ex., 14.05.1994, 1 ex.; Campanet 03.04.1984, 2 exx.; Esporles 28.10.1996, 1 ex., 07.04.2013, 1 ex. 25.10.2014; *ibid*: S'Esgleieta 16.11.1997, 2 exx., 04.11.2001,

4 exx.; *ibid*: Ses Planes de Canet 05.11.1985, 1 ex.; Orient 05.02.1982, 2 exx.; Palma: Campus UIB 01.11.1996, 1 ex.; 29.03.2003, 1 ex.; *ibid*: Establiments 18.03.1987, 2 exx.; Port de Pollença 08.06.1989 (leg. R. Beenen; *ibid*: torrent Sant Jordi 07.03.1989, 3 exx.; *ibid* 16.03.1990, 1 ex.; *ibid* 26.10.1990, 3 exx.; Son Serra de Marina: torrent Na Borges 25.03.1988, 1 ex.; *ibid* 01.05.1992, 1 ex.

MENORCA—Barranc de Santa Galdana 18.10.2002, 18 exx.

EIVISSA—Santa Eulària 21.09.1996, 7 exx. (Sacarés & Petitpierre 1999)

The adult specimens were found on the leaves of several species of Brassicaceae.

***Psylliodes cuprea* (Koch)**

MALLORCA—Alcúdia: S'Albufera 23.05.1988, 1 ex.; Alcúdia: La Victòria 12.05.1987, 1 ex.; Baix de Puig 29.10.1982, 5 exx.; Llucmajor 21.05.1982, 1 ex.; Pollença 23.04.1982, 2 exx.; Santa Ponça 14.05.1983, 19 exx.; Son Serra de Marina: torrent Na Borges 28.03.1988, 1 ex.; *ibid* 17.04.1989, 1 ex.; *ibid* 10.06.1991, 2 exx. Also in the islet of Sa Dragonera (Petitpierre *et al.* 2007): path to Cap de Llebeig 01.10.2005, 1 ex.; *ibid* 09.05.2006, 2 exx.; Na Pòpia 300m. alt. 18.04.2006, 2 exx.

MENORCA—Compte (1968) reports it without giving any locality.

EIVISSA—Sant Joan 21.09.1996, 1 ex.; Santa Eulària 21.9.1996, 6 exx. (Sacarés & Petitpierre 1999).

FORMENTERA—Sa Mola, 01.11.2002, 1 ex., path to the Illetes beach, 22.04.2003, 1 ex. (Sacarés & Petitpierre 2004).

Their host-plants are distinct species of Brassicaceae.

***Psylliodes laticollis* Kutschera**

MALLORCA—Alcúdia: S'Albufera 29.04.1983, 3 exx.; *ibid* 14.06.1984, 16 exx.; *ibid* 10.06.1985, 8 exx. (Petitpierre & Palmer 1993); Pollença: badia 25.10.1990, 1 ex. (Whitehead 1993); Port de Pollença 08.06.1989 (leg. R. Beenen *sub P. fusiformis* Illiger); *ibid*: torrent Sant Jordi 11.03.1983, 1 ex.; *ibid* 17.05.1988, 3 exx.; *ibid* 22.05.1988, 5 exx.; *ibid* 07.03.1989, 4 exx.; *ibid* 16.03.1990, 1 ex. (Petitpierre & Palmer 1993); *ibid* 11.05.1993, 16 exx. All on *Nasturtium officinale*.

***Psylliodes marcida* (Illiger)**

MALLORCA—Icúdia: S'Albufereta 29.06.1983, 1 ex.; Artà: Cala Torta 09.06.1986, 3 exx.; Can Picafort 04.07.1984, 8 exx.; Es Trenc 22.10.1985, 2 exx.; *ibid* 28.05.1988, 26.05.1988, 4 exx.; Port d'Alcúdia 17.09.1990, 1 ex.; Ses Salines: sa Vall 18.10.1984, 2 exx. All of them on *Cakile maritima*.

MENORCA—Binimel.la, 19.10.2002, 7 exx. (Sacarés & Petitpierre, 2004), on *Cakile maritima*.

***Psylliodes pallidipennis* Rosenhauer**

MALLORCA—Alcúdia 17.09.1990, 7 exx.; *ibid* 03.11.1990, 1 ex.; *ibid*: S'Albufereta 12.09.1982, 3 exx.; *ibid* 22.10.1983, 3 exx.; *ibid* 01.05.1984, 22 exx.; *ibid* 14.05.1985, 3 exx. on *Reseda alba* L. (Petitpierre, 1985); *ibid* 30.04.1985, 14 exx. on *Reseda alba*; *ibid* 19.09.1985, 4 exx.; *ibid* 17.09.1986, 2 exx.; *ibid* 17.05.1988, 4 exx.; *ibid* 14.05.1994, 4 exx.; *ibid* 22.04.2006, 2 exx.; Can Picafort 13.05.1985, 2 exx.; Colònia Sant Jordi 20.04.1985, 1 ex.; Es Trenc 22.10.1985, 4 exx.; Port de Pollença: torrent Sant Jordi 07.1991, 1 ex.; Ses Salines: Sa Vall 18.10.1984, 4 exx.; Son Serra de Marina: torrent Na Borges 16.09.1991, 1 ex. Most specimens on *Cakile maritima* Scop.

Also in the Cabrera archipelago: Illa des Conills 04.04.1991 (Palmer & Petitpierre 1993).

MENORCA—Binimel.la, 19.10.2002, 24 exx. (Sacarés & Petitpierre 2004), on *Cakile maritima*.

EIVISSA- path to Cala Jondal, 03.11.2002, 1 ex. (Sacarés & Petitpierre 2004).

FORMENTERA—path to the Illetes beach, 22.04.2003, 4 exx. (Sacarés & Petitpierre 2004).

***Sphaeroderma rubidum* (Graells)**

MALLORCA—Alcúdia: la Victoria 18.05.1987, 16 exx.; Alcúdia: S'Albufereta 26.05.1985 1 ex. on *Galactites tomentosa* L.; *ibid* 17.09.1986, 3 exx.; *ibid* 08.10.1987, Artà: sa Canova 27.09.1997, 2 exx.; Camp de Mar 19.04.1996, 1 ex.; Colònia Sant Pere 30.06.1984, 1 ex.; Esporles 25.05.1987, 1 ex.; *ibid* 30.04.1988, 1 ex. on *Carduus pycnocephalus* L.; *ibid* 09.05.1988, 4 exx.; *ibid* 05.05.1990, 4 exx.; *ibid* 20.06.2006, 1 ex.; *ibid* 01.05.2008, 26 exx. on *Galactites tomentosa* Moench; *ibid* 27.10.2012, 1 ex.; Palma: Campus UIB 23.10.1981, 1 ex.; *ibid* 04.05.2008, 3 exx.; *ibid* 20.05.2009, 1 ex.; *ibid* 09.05.2015, 1 ex.; Port de Pollença 08.06.1989 (leg. R.

Beenen); *ibid*: torrent Sant Jordi 08.10.1987, 8 exx.; *ibid* 17.05.1990, 2 exx.; *ibid* 22.10.1991, 1 ex.; Son Serra de Marina: torrent Na Borges 17.04.1989, 2 exx.; *ibid* 10.06.1991, 5 exx.; *ibid* 16.09.1991, 1 ex.; Vilafranca de Bon Any 28.11.2009, 1 ex.

MENORCA—Algendar 18.10.2002, 11 exx., on *Silybum marianum* (L.) Gaertn.; Es Grau, 19.10.2002, 2 exx.; Alaior: Albaida 17.06.2003, 2 exx.

Cassidinae tribe Hispini

Dicladispa testacea (Linnaeus)

MALLORCA—Alaró: path to castle 11.10.1986, 1 ex.; Alcúdia: La Victoria 12.01.1987, 1 ex.; Artà: Alcanada 29.05.1985, 1 ex.; Betlem 11.10.2008, 1 ex., *ibid* 26.10.2011, 1 ex.; Cala Sant Vicens 31.06.1989 (leg. R. Beenen); Calvià 23.10.1985, 1 ex. *ibid*: Illetes 26.09.1993, 3 exx.; Capdepera: Canyamel 05.07.1984, 1 ex.; Cúber 24.09.1985, 1 ex.; Escorca 20.10.1984, 7 exx.; Esporles 07.03.1983, 1 ex., *ibid* 11.09.1983, 2 exx., *ibid* 12.05.1985, 1 ex., *ibid* 31.10.1991, 3 exx.; *ibid*: Sa Campaneta 15.10.1985, 7 exx.; Formentor 13.10.1994, 1 ex.; Lluc 21.06.1984, 1 ex.; Palma: campus UIB 02.11.2009, 1 ex.; Pollença 01.11.1982, 1 ex., *ibid*: Ternelles 28.10.1984, 1 ex.; Puigpunyent 02.10.1997, 2 exx.; Santa Margalida 06.06.1989 (leg. R. Beenen); Sant Elm 12.05.1984, 1 ex.; Son Serra de Marina: torrent Na Borges 07.07.1989, 4 exx., *ibid* 09.06.1990, 2 exx., *ibid* 16.09.1991, 8 exx., *ibid* 22.09.2006, 8 exx., *ibid* 22.08.2011, 4 exx., *ibid* 06.10.2011, 11 exx. Also in the small island of Cabrera: Cala En Ganduf 06.11.1991, Port de Cabrera: Ca'n Feliu 20.08.1991 (Palmer & Petitpierre 1993). Most captures in Mallorca on *Cistus monspeliensis* L. or *C. salvifolius* L. and a few on *C. albidus* L.

MENORCA—Alaior: Albaida 17.06.2003, 10 exx.; Barranc de Santa Galdana 16.06.2003, 2 exx.; Cala Turqueta 20.10.2002, 5 exx. All on *Cistus monspeliensis*.

EIVISSA—Sant Antoni 09.07.1965, 1 ex. (Compte 1966).

FORMENTERA—21.09.1996, 1 ex. (Sacarés & Petitpierre 1999); path to Cap de Barbaria, 22.04.2003, 1 ex.

Cassidinae tribe Cassidini

Cassida hemisphaerica Herbst

MALLORCA—Alqueria Blanca: Consolació 08.07.1996, 1 ex. (Sacarés & Petitpierre 2004).

Cassida rubiginosa O.F. Müller

MALLORCA—Son Serra de Marina: torrent Na Borges 10.06.1991, 1 ex.

Cassida pusilla Waltl

MALLORCA—Port de Pollença: torrent Sant Jordi 11.03.1983, 1 ex.; *ibid* 02.07.1985, 1 ex. Both on *Dittrichia viscosa* (L.) Greuter.

Cassida vittata Villiers

MALLORCA—Alcúdia: S'Albufera 14.05.1984, 2 exx.; *ibid* 21.06.1984, 1 ex.; *ibid* 10.06.1985, 2 exx.; *ibid* 10.05.1989, 1 ex.; Artà: torrent 29.05.1985, 3 exx.; Campanet 03.04.1984, 2 exx.; Can Picafort 13.03.1987, 10 exx.; Esporles 05.05.1990, 1 ex.; *ibid* 19.10.2013, 1 ex. on *Beta vulgaris* L. (Chenopodiaceae); Manacor 20.10.1983, 4 exx.; Montuiri 09.11.1991, 1 ex.; Palma: Son Pardo 10.03.1994, 1 ex.; *ibid* 09.03.1997, 3 exx.; Port de Pollença: torrent Sant Jordi 21.06.1992, 1 ex.; *ibid* 11.03.1983, 8 exx.; *ibid* 07.05.1983, 5 exx.; *ibid* 09.06.1989, 4 exx.; *ibid* 18.07.1989, 2 exx.; *ibid* 16.03.1990, 6 exx.; Santa Margalida 06.06.1989 (leg. R. Beenen); Santa Ponça 01.10.1983, 5 exx.

MENORCA—Es Migjorn Gran: 3 km NE 17.06.2003, 1 ex.; S'Algaiarens 02.05.2013, 2 exx. on *Beta vulgaris* L.

Hypocassida meridionalis Suffrian

MALLORCA—Alcúdia: S'Albufera 14.06.1984, 1 ex.; Port de Pollença: torrent Sant Jordi 01.06.1982, 1 ex. on *Convolvulus arvensis* L.

MENORCA—Jolivet (1953) quoted it without giving any locality. It should be confirmed from this island before being accepted.

***Hypocassida subferruginea* Schrank**

MALLORCA—Alcúdia: S'Albufera 12.06.1984, 1 ex.; Bunyola: Binicanella 06.05.1985, 1 ex.; Esporles: Ca'n Verd 16.10.1995, 1 ex.; *ibid*: S'Esgleieta 23.06.1984; Manacor 20.10.1983, 1 ex.; Petra 08.06.1989 (leg. R. Beenen); Port de Pollença: torrent Sant Jordi 02.05.1990, 1 ex. All of them on *Convolvulus arvensis* L.

Other species

***Lilioceris lili* (Scopoli, 1763) ssp. *laeviuscula* (Weise, 1881)**

MENORCA—Maó, 2 exx. in coll. Reiche (Berti & Rapilly 1976). It would be necessary to confirm this quotation from a very old collection.

***Cryptocephalus* (*Cryptocephalus*) *cynarae* Suffrian**

MALLORCA—The quotation of this species in Baleares (Duhaldeborde, 2014) is highly doubtful because *Erica scoparia* L. (Ericaceae), its host-plant, is very scarce in the island and this leaf beetle does not live in the Eastern mainland Spain (Petitpierre 2000, 2009).

***Chrysolina* (*Allochrysolina*) *fuliginosa* (Olivier) ssp. *coriacea* (Suffrian)**

MALLORCA—Esporles 10.1983 (Teunissen 2002). A very doubtful species because it has never been quoted or captured in the island out of this record.

***Aphthona illigeri* Bedel**

MALLORCA—Palma 07.1936, 1 ex., at MNCN in Madrid (Bastazo *et al.* 1993). A very doubtful quotation that would deserve to be confirmed.

Discussion and conclusions

The update of the Balearic Chrysomelidae since 1960 has revealed the presence of 118 species plus four doubtful ones. This number clearly differs from that given by Jolivet (1953) who reported 141, probably due to species misidentification by the latter, as well as misleading labels, or to the use of old and suspicious records. Thus, almost 40 of the species he quoted are typical from North and/or Central Europe and are not present (or are very rare) in mid and southern Iberian Peninsula. Namely *Aphthona abdominalis* (Duftschmid), *A. cyparissiae* (Koch), *A. venustula* Kutschera, *Cassida ferruginea* Goeze, *C. flaveola* Thunberg, *C. margaritacea* Schaller, *C. nobilis* Linnaeus, *Chaetocnema aridula* (Gyllenhal), *Ch. confusa* (Boheman), *Chrysolina haemoptera* (Linnaeus), *Ch. herbacea* (Duftschmid), *Ch. rossia* (Illiger), *Coptocephala rubicunda* Laicharting, *C. unifasciata* (Scopoli), *Hippuriphila modeeri* (Linnaeus), *Longitarsus anchusae* (Paykull), *L. brunneus* (Duftschmid), *L. fuscoaeus* Redtenbacher, *Mniophila muscorum* Koch, *Phyllotreta flexuosa* (Illiger), *Ph. lativittata* Kutschera and *Sphaeroderma testaceum* (Fabricius), or strictly endemic species from the Pyrenees such as *Batophila pyrenaea* Allard. Furthermore, *Agelastica alni* (Linnaeus) and *Cassida sanguinolenta* O.F. Müller, two other species quoted by Jolivet (1953), which feed usually on alder (*Alnus glutinosa* Gaertner) and *Achillea millefolium* Linnaeus, respectively, could not live in Mallorca because these plants are not present in the Balearic Islands (Pla *et al.* 1992). Therefore, although our 35-year of research has contributed 22 new species for the archipelago (see the Introduction section for references), they could not compensate with the high number of those erroneously reported by Jolivet (1953).

Table 1 shows that Mallorca, being the largest Balearic island, holds most of the species, 113 (94.92% among the whole 118), whereas Menorca holds 71 (60.17%), Eivissa 39 (33.05%) and Formentera 19 (16.10%). All the 71 species from Menorca except one, *Mantura lutea* (Allard), are also found in Mallorca, and 35 of the 39 species from Eivissa are shared with Mallorca, thereby only four leaf beetle species are found exclusively in the former

island. This is in partial agreement with paleogeological data since both Gymnesian islands (Mallorca and Menorca) were connected to each other until the Pleistocene, and the same happened for the Pityusic (Eivissa and Formentera) (Gelabert *et al.* 2002). In addition, the Gymnesian are more species-rich than the Pityusic (114 and 39, respectively), a fact that can be explained by the much larger area of the former, that is almost sevenfold the surface of the latter. In this sense, the relationship between species richness and area has a high linear regression coefficient ($R^2=0.89$, Fig. 1A), and the same tendency is observed when including the data from the two Western Mediterranean large islands of Corsica (197 spp., Doguet, 1994; Tronquet, 2014) and Sardinia (232 spp., Biondi *et al.* 1995) ($R^2=0.95$, Fig. 1B). On the other hand, the minimum distance respect to the Iberian Peninsula from the Balearic Islands (75 and 179 km, respectively from Eivissa and Mallorca) is not inversely correlated with the number of their leaf beetle species. Thus, the island area is much more in accordance with the number of species than that of their minimum distance to the mainland, as it is predicted for the continental islands in the most classical book on island biogeography (MacArthur and Wilson 1967). These features are also observed in the Balearic ground beetles (Carabidae), although the number of species is strikingly much higher (228) (Serrano *et al.* 2014), than the 118 we have reported for the leaf beetles. Moreover, the number of species in the Pityusic islands are less than those expected according to their area, a fact that has also been observed in the Carabidae beetles (Serrano *et al.* 2014).

TABLE 1. Number of leaf beetle species in the Balearic Islands.

Islands	Nr. spp.	Exclusive	Shared with all	Shared with Menorca only	Shared with Eivissa only
Mallorca+Cabrera +Dragonera	113	43	34	35	1
Menorca	71	1			
Eivissa+Formentera	39	4			
Baleares	118				

However, 10 of our records are based on only one captured individual, namely *Cassida hemisphaerica* Herbst, *C. rubiginosa* O.F. Muller, *Crioceris asparagi* (Linnaeus), *Longitarsus brisouti* Heikertinger, *L. dorsalis* (Fabricius), *L. juncicola* (Foudras), *L. melanocephalus* (DeGeer), *Mantura lutea* (Allard), *Phyllotreta nigripes* (Fabricius) and *Ph. undulata* Kutschera, which means that these ten species should probably be very rare. On the contrary, some others such as *Aphthona atrocaerulea* Allard and *Ochrosis ventralis* (Illiger) in the islet of Sa Dragonera, near the west coast of Mallorca, constitute 53.5% and 20.45% respectively, among the total 357 individuals of the 15 species found during our four year samplings (Petitpierre *et al.* 2007). Very small islands in Western Mediterranean often display a strong decrease in species diversity coupled with a high increase in abundance of a few others, which has also been evidenced in the islet of Nueva Tabarca at 5 km. close to the coast of Alacant (South Eastern Spain) (Español, 1965) and in those of the small Columbretes archipelago at 59 km to the coast of Castelló (East of Spain) (Compte, 1970).

Among the 118 species of Balearic Chrysomelidae reported here, those of Alticinae are clearly prevalent (63.2%) in comparison with the other higher taxa and even also relatively with respect to the 186 (39.6%) species of this subfamily found in the mainland neighbour Catalonia, North Eastern Spain (Petitpierre 2009). This fact emphasizes the more remarkable capacity of Alticinae, probably due to their small size, to be maintained and possibly also for new passive colonizing episodes in the Balearic Islands, after the last separation from the mainland Spain in the Miocene, about five million years ago. Conversely, only four species of Clytrini (3.39%) have been found in the Baleares whereas there are 29 (6.14%) in Catalonia (Petitpierre 2009). This striking difference can be due to the low capacity for island colonisation of Clytrini, and/or the larval habits inside particular ant nests of many species, which determines their scarcity in continental very large islands such as Madagascar, New Guinea and Australia (Jolivet 1997). Moreover, this interpretation is also strengthened in other Mediterranean islands such as Corsica and Sardinia, where the former has only four Clytrini species (2.03%) whereas in mainland France there are 37 (18.78%) (Debreuil 2010). Regarding Sardinia, Clytrini have only ten species (4.31%) among the whole of 43 (18.53%) species of this tribe reported in mainland Italy and/or Sicily by Biondi *et al.* (1995).

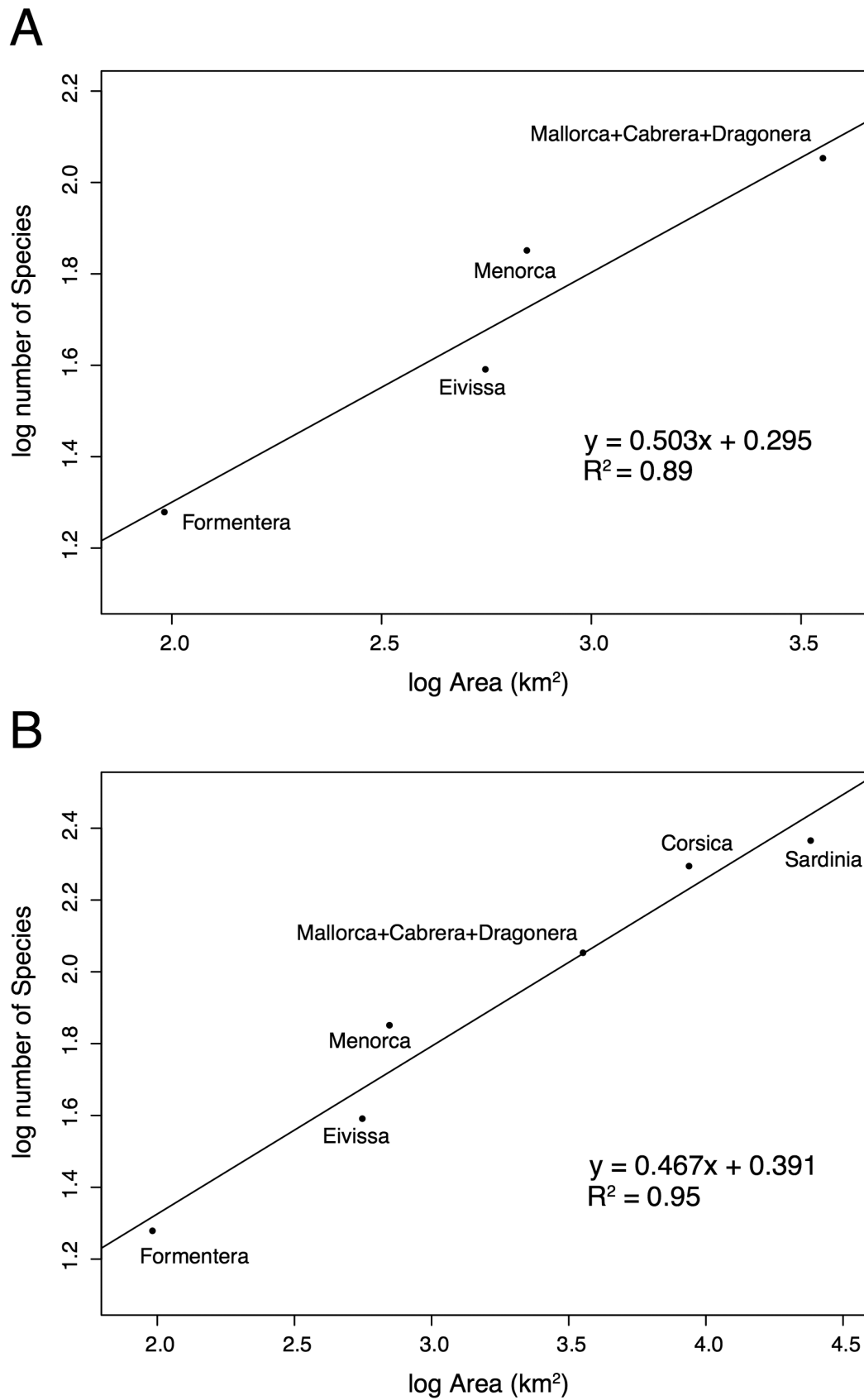


FIGURE 1. Relationship between island area and number of leaf beetle species in the Balearic archipelago (A) and including also Corsica and Sardinia (B). Regression lines, equations and R^2 correlation coefficients have also been plotted in the graphs.

Four species (3.39%) are endemic to the Balearic leaf beetle fauna: *Cryptocephalus majoricensis* Fuente, *C. tramuntanae* Petitpierre, *Cyrtonus majoricensis* Breit and *Timarcha balearica* Gory. The former is found in all four main islands, whereas *T. balearica* is endemic to Mallorca and Menorca, and *C. tramuntanae* and *Cyrtonus majoricensis* are restricted to Mallorca. This seems to point out that the four species had probably arisen in Mallorca, *T. balearica* long time before the separation of both Gymnesian islands (Gómez-Zurita, 2004), such as likely *Cryptocephalus tramuntanae* and *Cyrtonus majoricensis*, whose highly restricted areas in the Sierra de Tramuntana of Mallorca suggests that they had never reached Menorca. Therefore, Eivissa and Formentera do not have any exclusive endemic species of leaf beetles, although Eivissa holds three Iberian, *Lachnaia tristigma* (Lacordaire), *Cryptocephalus fulvus* (Goeze) and *C. moraei* (Linnaeus), and one Maghrebian North Africa species, *Dibolia peyerimhoffi* Doguet, that have not reached the other Balearic Islands.

Our study also reports some species that are found in the Balearic but not in the Iberian fauna, namely *Pachybrachis anoguttatus* Suffrian (restricted to a very small area in Sardinia), *Colaphellus sophiae* (Schaller), *Colaspidea proxima* Fairmaire, *Dibolia peyerimhoffi* Doguet, *Galeruca rufa* (Olivier), *Longitarsus paludivagus* (Peyerimhoff) and *Monoxia obesula* Blake, being two of these, *Colaphellus sophiae* (Schaller) and *Monoxia obesula* (Blake), invasive species that might possibly be also found in mainland Spain and/or Portugal in the future.

Most leaf beetles are oligophagous in their feeding habits which means that they feed on closely related plants of the same family or even of the same genus (Crowson, 1981; Jolivet 1997). In this sense, the range of host flowering-plants selected by the Balearic leaf beetles is very wide covering 35 botanic families and among them standing out the Brassicaceae being eaten by 15 species, Asteraceae by 11, Lamiaceae by 10, Boraginaceae by 9, Convolvulaceae by 7, Euphorbiaceae and Plantaginaceae by 5, whereas the remaining 28 families are selected by four or less leaf beetle species.

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