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**SPIDERS (ARACHNIDA, ARANEAE) OF THE GAVARRES  
(CATALONIA, SPAIN) AND THE ADJACENT COASTAL  
REGION - PART I: 2012-2013**

**JAN BOSSELAERS**



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## **Summary**

The spider fauna of the Gavarres, a massif situated in the Northern part of the Catalonian coastal range, has been studied during six visits to the region in 2012 and 2013. In total, 218 species were identified, two of them, *Tegenaria dalmatica* Kulczyński, 1906 and *Agyneta cauta* (O.P. Cambridge, 1903), being new for the Iberian Peninsula. Another two species, *Euophrys nigripalpis* Simon, 1937 and *Dipoena braccata* (C.L. Koch, 1841), are new to mainland Spain and 36 more are reported from Catalonia for the first time. Habitus photographs of more than 150 species are added, as well as illustrations of the genitalia of a few of the rarer species encountered.

## **Resum**

### **Aranyes (Arachnida, Araneae) de les Gavarres (Catalunya, Espanya) i de la regió costera adjacent - Part I: 2012-2013.**

Al llarg de sis visites a la regió, durant els anys 2012 i 2013, s'han investigat les aranyes de les Gavarres, un massís situat a la part septentrional de la serralada litoral catalana. S'han identificat en total 218 espècies: n'hi ha dues, *Tegenaria dalmatica* Kulczyński, 1906 i *Agyneta cauta* (O.P. Cambridge, 1903), que són noves a la Península Ibèrica, unes altres dues, *Euophrys nigripalpis* Simon, 1937 i *Dipoena braccata* (C.L. Koch, 1841), són noves a l'Espanya peninsular i 36 més s'esmenten a Catalunya per primera vegada. S'inclouen fotografies de l'hàbit de més que 150 espècies, així com dibujos dels genitals d'algunes espècies rares.

## **Resumen**

### **Arañas (Arachnida, Araneae) de las Gavarres (Cataluña, España) y la región costera limítrofa - Parte I: 2012-2013.**

Durante seis visitas a la región, en los años 2012 y 2013, se han investigado las arañas de las Gavarres, un macizo situado en la parte septentrional de la cordillera costero-catalana. En total, se identificaron 218 especies, dos de ellas, *Tegenaria dalmatica* Kulczyński, 1906 y *Agyneta cauta* (O.P. Cambridge, 1903), siendo nuevas para la Península Ibérica. Otras dos especies, *Euophrys nigripalpis* Simon, 1937 y *Dipoena braccata* (C.L. Koch, 1841), son nuevas en España peninsular, y 36 más se mencionan en Cataluña por primera vez. Se añaden fotografías del hábito de más que 150 especies, así como dibujos de los genitales de algunas especies raras.

**Keywords:** Iberian Peninsula, mediterranean, faunistics, biodiversity, Baix Empordà, Gerona

## Introduction

The mediterranean spider fauna is notoriously difficult to study because, apart from SIMON (1914, 1926, 1929, 1932, 1937), no comprehensive keys and identification works exist, synonymies complicate the taxonomy, many species have been poorly (or not at all) illustrated and much still remains to be discovered in this most important biodiversity hotspot (MYERS *et al.* 2000). Fortunately, most of the spider fauna of Catalonia can be identified using the abovementioned *magnum opus* by Simon, but nevertheless few in depth faunistic studies on spiders have been performed in the region. Apart from some dispersed reports on isolated specimens, the main data on the Catalonian spider fauna can be found in BARRIENTOS & ASCASO (1985), BARRIENTOS & FERNANDEZ (2015), BARRIENTOS *et al.* (2015), BARRIENTOS *et al.* (2016), BOSMANS & DE KEER (1985), CUNI I MARTORELL (1880, 1881, 1883, 1885, 1888, 1889, 1898), FERRER I VERT (1904, 1908), PEREZ ACOSTA (1919), PERERA (1989), REIMOSER (1926) and RIBERA (1977). Useful information can further be found in BARRIENTOS & RIBERA (1986).

The author has visited the Baix Empordà region in Catalonia for many years and gradually compiled data on the spider fauna of the Gavarres.

The Gavarres protected natural area is a 300 km<sup>2</sup> hill massif in the Northernmost part of the Catalonian coastal range (SABATER *et al.* 2005), characterised by an amazing biodiversity (ALHAMBRA *et al.* 1989, BOIX *et al.* 2005, BOSSELAERS 2004, BOSSELAERS & VAN KEER 2016, BOTEY I SERRA 2005, JUANOLA & VILAR 1997, PEREZ DE-GREGORIO & RONDOS 2005). The Gavarres are oriented NW-SE, perpendicular to the coastline, and the altitude of the hills varies between 50 and 535 m (Puig d' Arques, N41°53'20.4" E03°59'49.4"). The massif extends over 27 km from Palamós to Girona, approaching the Mediterranean sea to a mere 2 km in Calonge. The widest part in NE direction measures 19 km and is situated between Llagostera and Palafrugell. The Gavarres are composed of two adjacent blocks, separated by the Palamós fault (falla de Palamós), which runs in NW direction from Palamós to Sant Pol in the vicinity of La Bisbal de Empordà (ROQUE I PAU & PALLI I BUZO 1994). The easternmost smaller "Fitor" block comprises the region around the abandoned mountain village of Fitor. The larger western "Angels-Arques" block extends from Romanya de la Selva towards Celrà and reaches altitudes above 400 m in several places.

The geology of the region is strongly influenced by Upper Ordovician explosive volcanism, caused by a collision event of tectonic plates (FERRER MODOLELL 1990). Most of the Northern 75% of the surface area of the Gavarres consists of undifferentiated paleozoic rocks such as green schists, while the Southern 25% is composed of granitoids (ROQUE I PAU & PALLI I BUZO 1994). More specifically, the Gavarres are mainly composed of acid paleozoic rocks: granite in the South, green schists affected by Hercynian regional metamorphism (GIL IBARGUCHI *et al.* 1990) in the centre and slate in the North (JUANOLA I GIRALT 2003). There are a few small outcrops of Devonian limestone around Montnegre and Sant Miquel de Campdorà. Tertiary and Quaternary sediments are encountered in the contact zones with the surrounding plains, for example along Rio Darò from Sant Sadurní de l'Heura over Cruilles to La Bisbal d'Empordà (Figure 2, 3). There are no Mesozoic (Secondary) deposits in the region (ROQUE I PAU & PALLI I BUZO 1994).

Due to the relatively low altitude of the Gavarres and the close proximity of the sea, the vegetation is typically mediterranean, being dominated by *Pinus spp.*, *Quercus suber*, *Quercus ilex*, *Arbutus unedo* and *Erica arborea* (ALHAMBRA *et al.* 1989). The NW-SE orientation of the massif, the variation in substrate types, the topography which is modulated by faults and stream beds, as well as a history of cork oak harvesting going on since the eighteenth century, all contribute to the high biodiversity in the Gavarres area.

## Material and methods

In the framework of this monograph, the Gavarres and adjacent regions were visited for collecting on six occasions during 2012 and 2013: 24 May - 8 June 2012, 9 - 21 July 2012, 23 - 29 March 2013, 28 June - 7 July 2013, 6 - 16 August 2013 and 22 - 28 October 2013. Specimens were collected in 23 locations situated in seven regions of the Gavarres, as indicated in Figure 1. More details on the individual sampling locations are given in Appendix I.

In total, the Gavarres were sampled by the author over a time span of more than 20 years (1995-2018). Due to the magnitude of the work involved, however, these additional data will be published in a subsequent contribution. In exceptional cases, individual captures outside the 2012-2013 timeframe were added to this monograph to illustrate a point, such as male-female conspecificity or distribution of very rare species. However, these data were not included in the statistics.

Spiders were collected by beating bushes, sifting litter, turning logs and stones, hand capture and pitfall traps. Pitfall fluid was a saturated sodium chloride solution with a few drops of dishwashing detergent added.

Most of the species encountered were identified using ALMQUIST (2005, 2006), BARRIENTOS (2004), HEIMER & NENTWIG (1991), LE PERU (2011), LOCKET & MILLIDGE (1951, 1953), LOCKET *et al.* (1974), NENTWIG *et al.* (2017), ROBERTS (1985, 1987, 1993, 1998), and SIMON (1914, 1926, 1929, 1932, 1937). Additional literature was used in specific cases, as indicated in the text. Distribution of species on the Iberian Peninsula was checked with CARDOSO & MORANO (2010) and MORANO *et al.* (2014). All data obtained were entered in ARACON, a Filemaker 12 database programmed by the author, capable of storing diagnostic drawings, generating species lists and calculating species abundance graphs.

Specimens were observed, photographed and drawn using Euromex MIC465 and Olympus SZX9 binocular microscopes. When needed for identification, vulvae were dissected free, cleaned with trypsin (Sigma) for 24h at room temperature and subsequently cleared in methyl salicylate for observation using a Wild M12 compound microscope. When necessary, micrographs were made with a Praktica DC440 digital camera.

Macrophotographs of living specimens were made with Olympus E-3 and E-5 digital SLR cameras equipped with an Olympus 50mm 1:2 macro lens with EX-25 extension tube and an Olympus RF-11 ring flash or TF-22 twin flash system connected to an Olympus HV-1 high voltage battery pack. For the sake of completeness, photographs of the corresponding sex of some species were made from specimens captured outside the time range of this monograph.

Abbreviations used: asl, above sea level; E, East; N, North; pl, prolateral; rl, retrolateral; ve, ventral.

Abbreviations of collections: CJB, collection Jan Bosselaers; CJVK, collection Johan Van Keer.

Taxonomy follows the WORLD SPIDER CATALOG (2017). Where possible, subadult specimens were raised to adulthood for identification.

## Species list

During the two year period, 1830 adult spiders were collected (620 males and 1210 females), belonging to 218 species, 141 genera and 35 families. A taxonomic overview of the collected material is listed below.

### ARANEOMORPHAE

#### MYGALOMORPHAE

##### NEMESIIDAE

###### *Nemesia dubia* O. P.-Cambridge, 1874

###### Material examined

Palamós, La Fosca, rocky bay at sea, rocky slope. N41°51'12.5", E03°08'40.0", 20m asl; pitfall trap, 2 November 2011 - 25 May 2012, 1 male (CJB-2960).

###### *Nemesia raripila* Simon, 1914

###### Material examined

Fitor, Mas Cals, near stream crossing hilltrack. N41°54'47.1", E3°5'4.6", 180m asl; pitfall trap, 15 August - 26 October 2013, 2 males (CJB-2503).

#### AGELENIDAE

###### *Agelena labyrinthica* (Clerck, 1757)

Habitus: Photos 1, 2.

###### Material examined

Fitor, Can Puig de Fitor, rocky hilltop; N41°54'8.3", E3°5'13.4", 279masl; beating vegetation, 16 July 2012, 1 female (CJB-3065).

###### *Eratigena agrestis* (Walckenaer, 1802)

Habitus: Photos 63, 64.

###### Material examined

Can Puig de Fitor, rocky hilltop; N41°54'8.3", E3°5'13.4", 279m asl; turning stones, 26 October 2013, 1 female (CJB-2526). Sant Cebrià de Lledó (Els Metges), hilltop near restaurant; N41°54'45.7", E2°58'5.2", 375m asl; turning stones 25 October 2013, 1 female (CJVK).

#### Remarks

As reported in Bolzern *et al.* (2013: 745-747, fig. 9 D, G), the epigyne of *Eratigena agrestis* is very variable. The epigynes of the two specimens reported here reflect that variability.

#### ***Eratigena atrica* (C. L. Koch, 1843)**

Habitus: Photos 65, 66.

#### Material examined

Fitor, Santa Coloma de Fitor, cork oak wood; N41°54'17.4", E3°5'12.6", 257m asl; turning stones, 26 October 2013, 1 female (CJVK).

#### ***Eratigena fuesslini* (Pavesi, 1873)**

Habitus: Photos 67, 68.

#### Material examined

Palamós, La Fosca, rocky bay at sea, rocky slope; N41°51'12.5", E03°08'40.0", 20m asl; pitfall trap, 26 July 2012 - 30 March 2013, 1 male (CJB-2095); same data, pitfall trap, 30 March - 7 July 2013, 2 males (CJB-2307); same data, pitfall trap, 2 November 2011 - 25 May 2012, 2 males (CJB-2688). Same locality, at base of pine tree; N41°51'12.4", E03°08'40.5", 15m asl; pitfall trap, 7 July - 6 August 2013, 2 females (CJB-2319); same data, pitfall trap, 8 August - 22 October 2013, 1 female (CJB-2447); same data, pitfall trap, 2 November 2011 - 25 May 2012, 3 males (CJB-2711); same data, pitfall trap, 25 May - 15 July 2012, 2 females (CJB-3021). Same locality, at base of pine tree; N41°51'12.4", E03°08'40.2", 15m asl; pitfall trap, 7 July - 6 August 2013, 2 females (CJB-2324); same data, pitfall trap, 8 August - 22 October 2013, 1 female (CJB-2443); same data, pitfall trap, 2 November 2011 - 25 May 2012, 2 males, 1 juvenile (CJB-2702); same data, pitfall trap, 25 May - 15 July 2012, 2 males, 1 female, 1 juvenile (CJB-3032). Same locality, at base of pine tree; N41°51'12.5", E03°08'40.2", 20m asl; pitfall trap 2 November 2011 - 25 May 2012, 1 male (CJB-2698). Same locality, among

*Carpobrotus edulis* vegetation higher up in bay; N41°51'12", E03°08'40", 25m asl; pitfall trap, 8 August - 22 October 2013, 1 female (CJB-2434). Palamós, between Cap Gros and La Fosca, coastal pine wood; turning stones, 26 May 2012, 1 female (CJB-2825). Mont Ras. N41°54'31.0", E03°07'42.5", 130m asl; turning stones, 30 May 2012, 2 females (CJB-2726). Fitor, Mas Cals, near stream crossing hilltrack; N41°54'47.1", E3°5'4.6", 180m asl Pitfall trap, 15 August - 26 October 2013, 2 females (CJB-2504). Fitor, Mas Playa, maquis near water container; N41°54'56.2", E3°5'31.0", 246m asl; beating vegetation, 26 October 2013, 1 female (CJVK). Fitor, Can Puig de Fitor, abandoned hamlet, hilltop with ruined houses; turning stones, 29 May 2012, 2 females (CJB-2756). Sant Cebrià de Lledo ("Els Metges"), Can Gironès, along mountain stream; N41°53'33.0", E2°57'25.7", 295m asl; beating vegetation, 12

August 2013, 1 female (CJB-2377). Same locality, turning stones, 25 October 2013, 1 female (CJVK). Els Angels, mixed wood past monastery; N41°58'54.3", E02°54'15.8", 444m asl; sifting litter, 24 October 2013, 1 female (CJB-2477). Montnegre, roadside on hilltop; N41°57'29.4", E2°55'51.7", 324m asl Beating vegetation, 24 October 2013, 1 female (CJVK). Romanya de la Selva, Dolmen Cova d'en Daina, mixed wood; turning stones, 27 October 2013, 1 female (CJVK).

#### ***Tegenaria dalmatica* Kulczyński, 1906**

#### Material examined

Palamós, La Fosca, rocky bay at sea, at base of pine tree; N41°51'12.4", E03°08'40.5", 15m asl; pitfall trap, 2 November 2011 - 25 May 2012, 2 males (CJB-2713).

#### Remarks

This is the first record of this species for the Iberian Peninsula.

#### ***Tegenaria pagana* C. L. Koch, 1840**

#### Material examined

Fitor, Mas Cals, near stream crossing hilltrack; N41°54'47.1", E3°5'4.6", 180m asl; pitfall trap, 15 August - 26 October 2013, 1 male (CJB-2505).

#### Remarks

This species has been cited before from the Balearic Islands by Ribera (1989). Here it is reported from mainland Catalonia for the first time.

#### ***Textrix caudata* L. Koch, 1872**

Habitus: Photos 169, 170.

#### Material examined

Fitor, Can Puig, abandoned village, along track in grassland on rocky hilltop; N41°54'11.0", E3°5'16.4", 274m asl; turning stones, 2 July 2013, 1 female (CJB-2202). Fitor, cork oak wood, hand capture, 29 May 2012, 1 male (CJB-2795). Fitor, Planes d'en Torroella, crossroads along hilltrack; turning stones, 23 July 2012, 2 females (CJB-3137). Palamós, Cap Gros, pile of bricks next to ruined building; N41°51'0.8", E3°8'29.1", 41m asl; turning stones, 22 October 2013, 1 female, (CJB-2454). Sant Cebrià de Lledo (Els Metges), hilltop near restaurant; N41°54'45.7", E2°58'5.2", 375m asl; turning stones, 25 October 2013, 1 female, 6 juveniles (CJB-2499); same data, turning stones, 2 females (CJVK). Same locality, N41°54'46", E02°58'06", 370m asl; turning stones, 4 June 2012, 3 males, 2 females (CJB-2636).

## **AMAUROBIIDAE**

#### ***Amaurobius erberi* (Keyserling, 1863)**

Habitus: Photos 3, 4.

#### Material examined

Cruilles, Rio Darò, river bank; sifting litter, 29 March 2013, 1 male, 1 female (CJB-2104). Fitor, Can Puig de Fitor, rocky hilltop; N41°54'8.3",

E3°5'13.4", 279m asl; turning stones, 26 October 2013, 2 male, 2 females (CJB-2521). Same locality, Can Puig de Fitor, hilltop with ruined houses; turning stones, 29 May 2012, 3 females (CJB-2802). Same locality, Santa Coloma de Fitor, cork oak wood; N41°54'17.4", E3°5'12.6", 257m asl; turning stones, 26 October 2013, 4 males, 3 females (CJVK). Mont Ras, bridge over small stream in hills; turning stones, 5 June 2012, 1 female (CJB-2766). Montnegre, roadside on hilltop; N41°57'29.4", E2°55'51.7", 324m asl; turning stones, 24 October 2013 (CJVK). Palamós, Cap Gros, grassy hillside with shrubs and pine trees; N41°51'0.8", E03°8'29.1", 41m asl; turning stones, 22 October 2013, (CJVK). Palamós, between Cap Gros and La Fosca, coastal pine wood; turning stones, 26 May 2012, 2 females (CJB-2824). Palamós, La Fosca, rocky bay at sea, rocky slope; N41°51'12.5", E03°08'40.0", 20m asl; pitfall trap, 6 August - 22 October 2013, 1 female (CJB-2440); same data, pitfall trap, 2 November 2011 - 25 May 2012, 1 female (CJB-2689). Same locality, at base of pine tree; N41°51'12.4", E03°08'40.5", 15m asl; pitfall trap, 2 November 2011 - 25 May 2012, 4 males (CJB-2710). Same locality, at base of pine tree; N41°51'12.4", E03°08'40.2", 15m asl; pitfall trap, 30 March - 7 July 2013, 1 male (CJB-2303); same data, pitfall trap, 2 November 2011 - 25 May 2012, 2 males (CJB-2701). Same locality, at base of pine tree; N41°51'12.5", E03°08'40.2", 20m asl; pitfall trap 26 July 2012 - 24 March 2013, 3 males, 2 juveniles (CJB-2087); same data, pitfall trap, 30 March - 7 July 2013, 1 male, 1 female, 1 juvenile (CJB-2316); same data, pitfall trap, 2 November 2011 - 25 May 2012, 5 males (CJB-2696). Same locality, rocky slope in coastal pine wood; hand capture, 24 March 2013, 2 females (CJB-2068). Romanya de la Selva, Dolmen Cova d'en Daina, mixed wood; turning stones, 27 October 2013, 1 male, 7 females (CJVK). Same locality, Menhir de la Murtra, mixed wood; N41°51'25.7", E2°59'9.4", 324m asl; turning stones, 27 October 2013, 2 males, 3 females (CJVK). Sant Cebrià de Lledo (Els Metges), hilltop near restaurant; N41°54'45.7", E2°58'5.2", 375m asl; turning stones, 25 October 2013, 2 females, 1 juvenile (CJB-2498); same data, turning stones, 25 October 2013, 10 males, 7 females (CJVK).

#### *Amaurobius similis* (Blackwall, 1861)

Habitus: Photos 5, 6.

##### Material examined

Els Angels, mixed wood past monastery; N41°58'54.3", E02°54'15.8", 444m asl; turning stones, 24 October 2013, 2 males, 7 females (CJVK).

## ANYPHAENIDAE

### *Anyphaena accentuata* (Walckenaer, 1802)

Habitus: Photos 9, 10.

##### Material examined

Sant Cebrià de Lledo (Els Metges), Can Gironès, along mountain stream; N41°53'33.0", E2°57'25.7", 295m asl; beating vegetation, 12 August 2013, 1 female (CJB-2381).

## ARANEIDAE

### *Agalenatea redii* (Scopoli, 1763)

Habitus: Photo 193.

##### Material examined

Palamós, La Fosca, rocky slope in coastal pine wood; hand capture, 24 March 2013, 1 male (CJB-2069).

### *Araneus angulatus* Clerck, 1757

##### Material examined

Romanya de la Selva, maquis near village; N41°51'23.9", E2°59'3.0", 340m asl; hand capture, 27 October 2013, 1 female (CJVK).

### *Araneus diadematus* Clerck, 1757

Habitus: Photos 13, 14.

##### Material examined

Mont Ras, former quarry with pond; N41°54'55.1", E3°8'25.6", 103masl; beating vegetation, 23 October 2013, 2 females (CJB-2462); same data, 2 females (CJVK). Sant Cebrià de Lledo (Els Metges), Can Gironès, along mountain stream; N41°53'33.0", E2°57'25.7", 295m asl; beating vegetation, 12 August 2013, 1 male (CJB-2376). Vall Llobregat, along hilltrack in maquis; beating vegetation, 10 August 2013, 1 male (CJB-2362).

### *Araneus sturmi* (Hahn, 1831)

Habitus: Photos 15, 16.

##### Material examined

Els Angels, mixed wood past monastery; N41°58'54.1", E2°54'16.2", 452m asl; beating vegetation, 13 August 2013, 1 female (CJB-2389). Fitor, Can Puig de Fitor, hilltop with ruined houses; beating vegetation, 29 May 2012, 1 male (CJB-2761). Fitor, Mas Cals, maquis at small stream; N41°54'53", E03°04'32", 170m asl; beating vegetation, 1 June 2012, 2 males (CJB-2676). Fitor, Santa Coloma de Fitor, track to dolmen del Llobinar, cork oak wood; N41°54'18.4", E3°5'0.3", 244m asl; beating vegetation, 1 July 2013, 1 male (CJB-2151). Llofriú, track to Fitor; beating vegetation, 5 July 2013, 1 female (CJB-2285). Mont Ras, along dried out mountain stream; N41°54'31", E03°07'42,5", 130m asl; beating vegetation, 30 May 2012, 1 male, 1 female (CJB-2660). Same locality, bridge over small stream in hills; beating vegetation, 5 June 2012, 1 female

(CJB-2644). Sant Sadurní de l'Heura, stream and field border at road to Els Metges; N41°56'52.5", E2°58'9.2", 87m asl; beating vegetation, 3 July 2013, 1 female (CJB-2221).

***Araneus triguttatus* (Fabricius, 1793)**

Habitus: Photos 17, 18.

Material examined

Sant Cebrià de Lledo (Els Metges), Can Gironès, along mountain stream; N41°53'33.0", E2°57'25.7", 295m asl; beating vegetation, 12 August 2013, 1 female (CJB-2384).

***Argiope bruennichi* (Scopoli, 1772)**

Habitus: Photos 19, 20.

Material examined

Cruilles, Rio Darò, dried out river bed; N41°56'33", E03°00'27", 50m asl; beating vegetation, 23 October 2013, 1 female (CJVK). Palamós, Cap Gros, rocky coastal hillside with shrubs and pine trees; N41°51'00.2", E03°08'31.4", 52m asl; beating vegetation, 20 July 2012, 1 male (CJB-3112).

***Cyclosa algerica* Simon, 1885**

Habitus: Photos 41, 42.

Material examined

Fitor, Can Puig de Fitor, rocky hilltop; N41°54'8.3", E3°5'13.4", 279m asl; beating vegetation, 16 July 2012, 1 female (CJB-3064). Palamós, Cap Gros, coastal pine wood; N41°51'5", E3°8'35.9", 56m asl; beating vegetation, 9 August 2013, 2 females (CJB-2345).

***Cyclosa conica* (Pallas, 1772)**

Habitus: Photos 43, 44.

Material examined

Castell, Puig Boter, maquis near coast; beating vegetation, 25 March 2013, 1 male (CJB-2078).

***Cyclosa groppalii* Pesarini, 1998 (Fig. 5)**

Habitus: Photo 199.

Material examined

Sant Cebrià de Lledo (Els Metges), Can Gironès, along mountain stream; N41°53'33.0", E2°57'25.7", 295m asl; beating vegetation, 12 August 2013, 1 male (CJB-2383).

Remarks

This rare species was known from Ibiza (GROPPALI *et al.* 1998) and Crete (BOSMANS *et al.* 2013). It was reported from the mainland for the first time by BARRIENTOS & FERNANDEZ (2015). The male habitus is depicted in Figure 5.

***Cyrtarachne ixoides* (Simon, 1870) (Figs. 6-7)**

Habitus: Photos 47, 48.

Material examined

Cruilles, Rio Darò, river bank; N41°56'30.5", E03°00'18.3", 55m asl; beating vegetation, 24 July 2012, 1 female. (CJB-3152). Same locality, N41°56'36.9", E03°00'37.8", 60m asl; beating

vegetation, 24 July 2012, 1 male (CJB-3159). Same locality, N of road crossing river, river bank; beating vegetation, 28 June 2013, 2 females, 1 juvenile (CJB-2121). Mont Ras, along river; N41°54'13", E03°07'47.2", 87m asl; beating vegetation, 12 July 2012, 1 male (CJB-2986).

Remarks

Although this attractive species is generally considered rare, it is not uncommon in the vegetation of river banks in the Gavarres. Good illustrations of the genitalia can be found in LEVY (1998, figs. 1-11). The male palp is illustrated here in Figure 6, the epigyne in Figure 7.

***Cyrtophora citricola* (Forskål, 1775)**

Habitus: Photo 200.

Material examined

Palamós, Cap Gros, rocky hilltop at coast; N41°51'0.9", E03°08'37.2", 75m asl; beating vegetation, 20 July 2012, 2 females (CJB-3117).

***Gibbaranea bituberculata* (Walckenaer, 1802)**

Habitus: Photos 81, 82.

Material examined

Castell, Puig Boter, maquis near coast; beating vegetation, 25 March 2013, 1 male (CJB-2077). Fitor, cork oak wood; beating vegetation, 28 March 2013, 1 male, 1 female (CJB-2097). Fitor, Mas Playa, maquis near water container; N41°54'56.2", E3°5'31.0", 246m asl; beating vegetation, 26 October 2013, 1 subadult male, adult 26 November 2013 (CJB-2517); same data, 1 female (CJVK). Romanya de la Selva, maquis near village; N41°51'23.9", E2°59'3.0", 340m asl; beating vegetation, 27 October 2013, 1 male (CJB-2553).

***Larinoides cornutus* (Clerck, 1757)**

Habitus: Photo 210.

Material examined

Cruilles, Rio Darò, dried out river bed; N41°56'33", E03°00'27", 50m asl; beating vegetation, 23 October 2013, 1 subadult male, adult 26 October 2013 (CJB-2465); same data, 1 female (CJVK).

***Mangora acalypha* (Walckenaer, 1802)**

Habitus: Photos 107, 108.

Material examined

Cruilles, Rio Darò, N of road crossing river, river bank; beating vegetation, 28 June 2013, 1 male (CJB-2122). Els Angels, mixed wood past monastery; N41°59'0.9", E2°54'4.5", 439m asl; beating vegetation, 14 August 2013, 1 female (CJB-2406). Fitor, Mas Cals, maquis at small stream; N41°54'53", E03°04'32", 170m asl; turning stones, 1 June 2012, 1 female (CJB-2843). Fitor, Planes d'en Torroella, border of cultivated land; N41°54'37.7", E03°06'16.7", 262m asl; beating vegetation, 23 July 2012, 1 female (CJB-3144). Fitor, Santa Coloma de Fitor, track to dolmen del Llobinar, cork oak wood; N41°54'18.4", E3°5'0.3",

244m asl; beating vegetation, 1 July 2013, 1 male (CLB-2149). Mont Ras, along dried out mountain stream; N41°54'31", E03°07'42.5", 130m asl; beating vegetation, 30 May 2012, 1 male (CJB-2658). Mont Ras, bridge over small stream in hills; beating vegetation, 5 June 2012, 1 female (CJB-2642). Palamós, La Fosca, rocky bay at sea, at base of pine tree; N41°51'12.4", E03°08'40.5", 15m asl; pitfall trap, 25 May - 15 July 2012, 1 female (CJB-3023). Romanya de la Selva, maquis near village; N41°51'23.9", E2°59'3.0", 340m asl; beating vegetation, 27 October 2013, 1 female (CJB-2549). Santa Pellaia, track on hillslope in mixed wood; N41°55'11.6", E2°54'57.8", 365m asl; beating vegetation, 4 July 2013, 1 female (CJB-2275). Vall Llobrega, along hilltrack in maquis; beating vegetation, 10 August 2013, 1 male (CJB-2366).

#### ***Neoscona adianta* (Walckenaer, 1802)**

Habitus: Photos 115, 116.

##### Material examined

Cruilles, Rio Darò, river bank; beating vegetation, 6 June 2012, 2 males, 3 females (CJB-2631). Same locality, N of road crossing river, river bank; beating vegetation, 28 June 2013, 1 male (CJB-2123). Fitor, Can Puig de Fitor, hilltop with ruined houses; beating vegetation, 29 May 2012, 1 male, 2 subadult males (CJB-2759). Fitor, Can Puig, abandoned village, grassland on rocky hilltop; N41°54'0.5", E3°5'55.6", 284m asl; beating vegetation 2 July 2013, 2 females (CJB-2190). Fitor, Can Puig, abandoned village, rocky hilltop; N41°54'8.0", E3°5'10.2", 285m asl; beating vegetation 1 July 2013, 1 female (CJB-2168). Palamós, Cap Gros, coastal pine wood; N41°51'5", E3°8'35.9", 56m asl; beating vegetation, 13 July 2012, 1 female (CJB-2999). Romanya de la Selva, Creu de Romanya de la Selva, maquis; N41°51'18.9", E02°59'05.9", 330m asl; beating vegetation, 18 July 2012, 1 female (CJB-3081). Sant Sadurní de l'Heura, stream and field border at road to Els Metges; N41°56'52.5", E2°58'9.2", 87m asl; beating vegetation, 3 July 2013, 1 female (CJB-2220). Same locality, stream close to village; N41°56'50.7", E2°58'28.7", 95m asl; beating vegetation, 3 July 2013, 1 male, 1 female (CJB-2229). Santa Pellaia, track on hillslope in mixed wood; N41°55'11.6", E2°54'57.8", 365m asl; beating vegetation, 4 July 2013, 1 female (CJB-2276).

#### ***Nuctenea umbratica* (Clerck, 1757)**

Habitus: Photos 121, 122.

##### Material examined

Fitor, Santa Coloma de Fitor, cork oak wood; N41°54'17.4", E3°5'12.6", 257m asl; turning stones, 26 October 2013, 1 female (CJVK).

#### ***Zilla diodia* (Walckenaer, 1802)**

Habitus: Photos 187, 188.

##### Material examined

Fitor, Mas Cals, maquis at small stream; N41°54'53", E03°04'32", 170m asl; beating vegetation, 1 June 2012, 1 male, 1 female (CJB-2665). Fitor, Santa Coloma de Fitor, track to dolmen del Llobinar, cork oak wood; N41°54'18.4", E3°5'0.3", 244m asl; beating vegetation, 1 July 2013, 1 male (CJB-2150). Mont Ras, bridge over small stream in hills; beating vegetation, 5 June 2012, 1 male (CJB-2643). Romanya de la Selva, Creu de Romanya de la Selva, maquis; N41°51'18.9", E02°59'05.9", 330m asl; beating vegetation, 18 July 2012, 1 female (CJB-3084).

#### ***Zygiella x-notata* (Clerck, 1757)**

Habitus: Photos 191, 192.

##### Material examined

Els Angels, mixed wood past monastery; N41°59'0.9", E02°54'4.5", 439m asl; beating vegetation, 14 August 2013, 1 male (CJB-2407). Same locality, N41°58'54.1", E2°54'16.2", 452m asl; beating vegetation, 13 August 2013, 3 males (CJB-2593). Fitor, Santa Coloma de Fitor, cork oak wood; N41°54'17.4", E3°5'12.6", 257m asl; sifting litter, 26 October 2013, 1 female (CJVK). Mont Ras, former quarry with pond; N41°54'55.1", E3°8'25.6", 103m asl; beating vegetation, 28 October 2013, 1 male (CJB-2556). Palamós, Cap Gros, grassy hillside with shrubs and pine trees; N41°51'0.8", E3°8'29.1", 41m asl; beating vegetation, 22 October 2013, 3 males, 7 females (CJVK). Palamós, La Fosca, rocky bay at sea; N41°51'12.5", E3°8'40.2", 20m asl; sifting litter, 22 October 2013, 1 female (CJB-2450). Palamós, town, on houses; hand capture, 22 October 2013, 2 females (CJB-2433). Romanya de la Selva, maquis near village; N41°51'23.9", E2°59'3.0", 340m asl; beating vegetation 27 October 2013, 1 female (CJB-2550). Sant Cebrià de Lledó (Els Metges), Can Gironès, along mountain stream; N41°53'33.0", E2°57'25.7", 295m asl; beating vegetation, 12 August 2013, 2 males (CJB-2382).

## CLUBIONIDAE

#### ***Clubiona brevipes* Blackwall, 1841**

Habitus: Photos 33, 34.

##### Material examined

Fitor, Can Puig de Fitor, hilltop; N41°54'06.8", E03°05'17.3", 266m asl; beating vegetation, 19 July 2012, 1 female (CJB-3088). Same locality, N41°54'8.3", E3°5'13.4", 279m asl; beating vegetation, 16 July 2012, 1 female (CJB-3068). Fitor, Mas Cals, maquis at small stream; N41°54'53", E03°04'32", 170m asl; beating vegetation, 1 June 2012, 1 male (CJB-2675). Mont Ras, along dried out mountain stream; N41°54'31", E03°07'42.5", 130m asl; beating vegetation, 30

May 2012, 1 male (CJB-2659). Mont Ras, bridge over small stream in hills; beating vegetation, 5 June 2012, 1 male (CJB-2649). Romanya de la Selva, maquis near village; N41°51'23.9", E2°59'3.0", 340m asl; beating vegetation, 27 October 2013, 1 female (CJB-2552). Santa Pellaia, track on hillslope in mixed wood; N41°55'11.6", E2°54'57.8", 365m asl; beating vegetation, 4 July 2013, 1 male (CJB-2270).

#### ***Clubiona comta* C. L. Koch, 1839**

Habitus: Photos 35, 36.

##### Material examined

Castell, Puig Boter, maquis near coast; beating vegetation, 25 March 2013, 1 female (CJB-2075). Cruilles, Rio Darò, river bank; sifting litter, 29 March 2013, 1 male, 1 female (CJB-2103). Fitor, cork oak wood; beating vegetation 28 March 2013, 2 males, 2 females (CJB-2098). Fitor, Santa Coloma de Fitor, track to dolmen del Llobinar, cork oak wood.; N41°54'18.4", E3°5'0.3", 244m asl; beating vegetation, 1 July 2013, 1 female (CJB-2144).

#### ***Clubiona leucaspis* Simon, 1932**

Habitus: Photos 37, 38.

##### Material examined

Palamós, edge of town, riverside with *Vitex agnus-castus*; N41°51'59.3", E3°7'38.3", 25m asl; beating vegetation 10 August 2013, 1 female (CJB-2357).

##### Remarks

This species was reported from Catalonia for the first time by BARRIENTOS & FERNANDEZ (2015).

## **DICTYNIDAE**

#### ***Dictyna kosiorowiczi* Simon, 1873 (Figs. 8-10)**

Habitus: Photos 49, 50.

##### Material examined

Cruilles, Rio Darò, N of road crossing river, river bank; beating vegetation, 28 June 2013, 1 male (CJB-2118). Fitor, Can Puig, abandoned village, grassland on rocky hilltop; N41°54'0.5", E03°05'55.6", 284m asl; beating vegetation, 2 July 2013, 1 male (CJB-2195). Fitor, Can Puig, rocky hilltop at abandoned village; N41°54'8.0", E03°05'10.2", 285m asl; beating vegetation, 1 July 2013, 1 male (CJB-2169). Fitor, Santa Coloma de Fitor, track to dolmen del Llobinar, cork oak wood; N41°54'18.4", E03°05'0.3", 244m asl; beating vegetation, 1 July 2013, 1 male (CJB-2146). Llofriú, track to Fitor; beating vegetation, 5 July 2013, 1 male, 1 female (CJB-2287). Sant Sadurní de l'Heura, river banks of Rio Darò in woods; N41°56'20.8", E02°58'5.0", 86m asl; beating vegetation, 4 July 2013, 1 female (CJB-2260). Same locality, stream and field border at road to Els Metges; N41°56'52.5", E02°58'9.2", 87m asl; beating vegetation, 3 July 2013, 2 males, 1 female (CJB-2216). Same locality, stream close to village;

N41°56'50.7", E02°58'28.7", 95m asl; beating vegetation, 3 July 2013, 1 male (CJB-2240). Santa Pellaia, track on hillslope in mixed wood; N41°55'11.6", E02°54'57.8", 365m asl; beating vegetation, 4 July 2013, 1 female (CJB-2269).

##### Remarks

Although generally considered rare (SIMON 1914: 53), this species is not uncommon in the Gavarres. Adults can be found on bushes in June and early in July. Few illustrations exist: the male palp and abdominal pattern are depicted in BARRIENTOS & FERNANDEZ (1982) and SIMON (1914). The male palp (Figs. 8, 9) and epigyne (Fig. 10) are illustrated here. The species is reported from Catalonia for the first time.

#### ***Dictyna uncinata* Thorell, 1856**

##### Material examined

Sant Sadurní de l'Heura, river banks of Rio Darò in woods; N41°56'20.8", E02°58'5.0", 86m asl; beating vegetation, 4 July 2013, 1 female (CJB-2261).

#### ***Lathys humilis* (Blackwall, 1855)**

Habitus: Photos 99, 100.

##### Material examined

Fitor, cork oak wood; beating vegetation, 28 March 2013, 4 males, 1 subadult male (CJB-2100). Fitor, Can Puig, rocky hilltop at abandoned village; N41°54'8.0", E03°05'10.2", 285m asl; beating vegetation, 1 July 2013, 1 female (CJB-2170). Fitor, Santa Coloma de Fitor, dolmen del Llobinar, cork oak wood; N41°54'15.2", E03°05'3.5", 274m asl; beating vegetation, 1 July 2013, 2 females (CJB-2161). Same locality, track to dolmen del Llobinar, cork oak wood; N41°54'18.4", E03°05'0.3", 244m asl; beating vegetation, 1 July 2013, 1 female (CJB-2147).

#### ***Nigma puella* (Simon, 1870)**

Habitus: Photos 117, 118.

##### Material examined

Cruilles, Rio Darò, N of road crossing river, river bank; beating vegetation, 28 June 2013, 2 females (CJB-2117). Fitor, Mas Cals, along stream crossing hilltrack; N41°54'41", E03°05'11", 180m asl; beating vegetation, 26 October 2013, 1 male (CJVK). Romanya de la Selva, Menhir de la Murtra, mixed wood; N41°51'25.7", E2°59'9.4", 324m asl; beating vegetation, 27 October 2013, 1 male, 1 female (CJVK). Sant Sadurní de l'Heura, stream and field border at road to Els Metges; N41°56'52.5", E2°58'9.2", 87m asl; beating vegetation, 3 July 2013, 1 female (CJB-2212); same data, 1 female (CJB-2217). Same locality, stream close to village; N41°56'50.7", E2°58'28.7", 95m asl; beating vegetation, 3 July 2013, 3 females (CJB-2241).

## DYSDERIDAE

### *Dysdera erythrina* (Walckenaer, 1802)

Habitus: Photos 53, 54.

#### Material examined

Fitor, Can Puig de Fitor, rocky hilltop. N41°54'8.3", E3°5'13.4", 279m asl; turning stones, 26 October 2013, 2 females (CJVK). Mont Ras, bridge over small stream in hills; turning stones, 5 June 2012, 2 females (CJB-2767). Mont Ras, former quarry with pond; N41°54'55.1", E3°8'25.6", 103m asl; turning stones, 23 October 2013, 1 female (CJB-2463); same data, turning stones, 1 male, 6 females (CJVK). Montnegre, roadside on hilltop; N41°57'29.4", E2°55'51.7", 324m asl; turning stones, 24 October 2013, 1 male, 1 female (CJVK). Palamós, Cap Gros, grassy hillside with shrubs and pine trees; N41°51'0.8", E3°8'29.1", 41m asl; turning stones, 22 October 2013, 4 males, 1 female (CJVK). Palamós, between Cap Gros and La Fosca, coastal pine wood; turning stones, 26 May 2012, 1 female (CJB-2826). Palamós, La Fosca, rocky bay at sea, among *Carpobrotus edulis* higher up in bay; N41°51'12", E03°08'40", 25m asl; pitfall trap, 9 August - 22 October 2013, 1 female (CJB-2435). Same locality, rocky slope; N41°51'12.5", E03°08'40.0", 20m asl; pitfall trap, 6 August - 22 October 2013, 1 female (CJB-2438); same data, pitfall trap, 2 November 2011 - 25 May 2012, 1 male, 2 females, 2 juveniles (CJB-2687); same data, pitfall trap, 26 July 2012 - 30 March 2013, 1 male (CJB-2094). Same locality, at base of pine tree; N41°51'12.4", E03°08'40.5", 15m asl; pitfall trap, 2 November 2011 - 25 May 2012, 7 males, 3 females, 2 juveniles (CJB-2709); same data, pitfall trap, 15 - 22 July 2012, 1 male, 1 juvenile (CJB-3133); same data, pitfall trap, 26 July 2012 - 24 March 2013, 1 male (CJB-2084); same data, pitfall trap, 24 March - 7 July 2013, 1 male (CJB-2302); same data, pitfall trap 7 July - 6 August 2013, 1 male, 1 juvenile (CJB-2322); same data, pitfall trap, 6 August - 22 October 2013, 1 female (CJB-2446). Same locality, at base of pine tree; N41°51'12.4", E03°08'40.2", 15m asl; pitfall trap, 26 July - 30 March 2013, 2 males, 2 females (CJB-2089); same data, pitfall trap, 30 March - 7 July 2013, 1 male, 2 juveniles (CJB-2304); same data, pitfall trap, 2 November 2011 - 25 May 2012, 1 female, 2 juveniles (CJB-2703); same data, pitfall trap, 25 May - 15 July 2012, 2 males, 2 females (CJB-3015); same data, pitfall trap, 25 May - 15 July 2012, 1 male, 1 female, 5 juveniles (CJB-3031); same data, pitfall trap, 15 - 22 July 2012, 2 males, 1 female, 1 juvenile (CJB-3130). Same locality, at base of pine tree; N41°51'12.5", E03°08'40.2", 20m asl; pitfall trap, 22 November - 25 May 2012, 2 males, 1 female (CJB-2697); same data, pitfall trap, 25 May - 15 July 2012, 1 female, 2 juveniles (CJB-3048); same data, pitfall trap, 26 July 2012 - 24

March 2013, 1 male (CJB-2090). Palamós, La Fosca, rocky slope in coastal pine wood; hand capture, 24 March 2013, 2 males, 1 female (CJB-2073). Romanya de la Selva, Dolmen Cova d'en Daina, mixed wood; turning stones, 27 October 2013, 1 female (CJVK). Sant Cebrià de Lledo (Els Metges), Can Gironès, along mountain stream; N41°53'33.0", E2°57'25.7", 295m asl; turning stones, 25 October 2013, 1 male (CJB-2497). Sant Cebrià de Lledo (Els Metges), hilltop near restaurant; N41°54'45.7", E2°58'5.2", 375m asl; turning stones, 25 October 2013, 1 male (CJVK).

#### Remarks

Specimens which can be referred to *Dysdera erythrina* as presently defined were found frequently during this investigation: 67 specimens in total. However, *Dysdera erythrina* may be a complex of at least a dozen closely related species (ARNEDO 2016, personal communication). REZAC *et al.* (2018) described 16 new species within this complex. Unfortunately, this publication appeared in print too late to be included in the present monograph.

### *Harpactea dufourii* (Thorell, 1873) (Figs. 11-12)

#### Material examined

Mont Ras, former quarry with pond; N41°54'55.1", E3°8'25.6", 103m asl; turning stones, 23 October 2013, 2 males, 3 females, 1 juvenile (CJVK).

#### Remarks

Until recently, this species was only known from the Balearic Islands. It was reported from the mainland for the first time by BOSSELAERS & VAN KEER (2016). The male palp is illustrated in Figure 11, the epigyne in Figure 12.

### *Harpactea hombergi* (Scopoli, 1763)

Habitus: Photos 83, 84.

#### Material examined

Els Angels, mixed wood past monastery; N41°59'0.9", E2°54'4.5", 439m asl; beating vegetation, 14 August 2013, 1 female, 1 juvenile (CJB-2596). Fitor, Can Puig de Fitor, hilltop with ruined houses; turning stones, 29 May 2012, 1 male (CJB-2757); same data, 1 male, (CJB-2807).

## EUTICHURIDAE

### *Cheiracanthium mildei* L. Koch, 1864

Habitus: Photos 29, 30.

#### Material examined

Fitor, Can Puig de Fitor, hilltop with ruined houses; beating vegetation, 29 May 2012, 1 male (CJB-2763). Fitor, Mas Cals, maquis at small stream; N41°54'53", E03°04'32", 170m asl; turning stones, 1 June 2012, 1 female (CJB-2851).

***Cheiracanthium montanum* L. Koch, 1877**

Material examined

Palamós, edge of town, riverside with *Vitex agnus-castus*; N41°51'59.3", E3°7'38.3", 25m asl; beating vegetation, 10 August 2013, 1 female (CJB-2355).

***Cheiracanthium seidlitzii* L. Koch, 1864**

Material examined

Fitor, Can Puig de Fitor, hilltop with ruined houses; beating vegetation, 29 May 2012, 1 female (CJB-2852).

Remarks

This species is reported from Catalonia for the first time.

**GNAPHOSIDAE**

***Aphantaulax cincta* (L. Koch, 1866)**

Habitus: Photos 11, 12.

Material examined

Fitor, Mas Cals, maquis at small stream; N41°54'53", E03°04'32", 170m asl; beating vegetation, 1 June 2012, 1 female (CJB-2674). Mont Ras, bridge over small stream in hills; beating vegetation, 5 June 2012, 1 female (CJB-2648).

***Aphantaulax trifasciata* (O. P.-Cambridge, 1872)**

Habitus: Photo 197.

Material examined

Cruilles, Rio Darò, N of road crossing river, river bank; beating vegetation, 28 June 2013, 2 females (CJB-2106). Sant Sadurní de l'Heura, stream close to village; N41°56'50.7", E2°58'28.7", 95m asl; beating vegetation, 3 July 2013, 1 male (CJB-2246).

***Civizelotes medianus* (Denis, 1935)**

Habitus: Photos 31, 32.

Material examined

Fitor, Can Puig de Fitor, hilltop with ruined houses; turning stones, 29 May 2012, 1 female (CJB-2806). Fitor, Can Puig, abandoned village, along track in grassland on rocky hilltop; N41°54'11.0", E3°5'16.4", 274m asl; turning stones, 2 July 2013, 1 Female (CJB-2201). Fitor, Mas Cals, maquis at small stream; N41°54'53", E03°04'32", 170m asl ; turning stones, 1 June 2012, 1 male, 1 female (CJB-2853). Fitor, Mas Cals, rocky slope along hilltrack; N41°54'52.8", E03°05'01.6", 190m asl; turning stones, 31 May 2012, 1 female (CJB-2856). Palamós, La Fosca, rocky bay at sea, at base of pine; N41°51'12.4", E03°08'40.5", 15m asl; pitfall trap, 25 May - 15 July 2012, 2 males, 1 juvenile (CJB-3028).

***Drassodes lapidosus* (Walckenaer, 1802)**

Habitus: Photos 51, 52.

Material examined

Cruilles, Rio Darò, river bank; turning stones, 6 June 2012, 2 females (CJB-2737). Cruilles, Rio Darò, N of road crossing river, river bank; turning stones, 28 June 2013, 1 female (CJB-2124). Els Angels, mixed wood past monastery; N41°58'54.3", E02°54'15.8", 444m asl; turning stones, 24 October 2013, 1 female (CJVK). Fitor, Can Puig de Fitor, hilltop with ruined houses; turning stones, 29 May 2012, 1 male, 1 female (CJB-2754). Fitor, Can Puig, abandoned village, along track in grassland on rocky hilltop; N41°54'11.0", E3°5'16.4", 274m asl; turning stones, 2 July 2013, 1 male, 1 female (CJB-2203). Fitor, Mas Cals, maquis at small stream; N41°54'53", E03°04'32", 170m asl; turning stones, 1 June 2012, 2 males, 1 subadult female (CJB-2842). Fitor, Mas Cals, rocky slope along hilltrack; N41°54'52.8", E03°05'01.6", 190m asl; turning stones, 31 May 2012, 1 female (CJB-2746).

***Gnaphosa lucifuga* (Walckenaer, 1802)**

Habitus: Photo 206.

Material examined

Cruilles, Rio Darò, river bank; turning stones, 6 June 2012, 1 male (CJB-2738). Cruilles, Rio Darò, N of road crossing river, river bank; turning stones, 28 June 2013, 2 females (CJB-2108). Fitor, Can Puig de Fitor, hilltop; N41°54'06.8", E03°05'17.3", 266m asl; turning stones, 19 July 2012, 1 female (CJB-3098).

Remarks

Surprisingly, this species, which is not uncommon in the Gavarres in the vicinity of water, was reported from Catalonia only recently (BARRIENTOS *et al.* 2016).

***Haplodrassus signifer* (C. L. Koch, 1839)**

Material examined

Fitor, Mas Cals, rocky slope along hilltrack; N41°54'52.8", E03°05'01.6", 190m asl; turning stones, 31 May 2012, 1 female (CJB-2748).

***Heser nilicola* (O. P.-Cambridge, 1874)**

Material examined

Palamós, La Fosca, rocky bay at sea, rocky slope; N41°51'12.5", E03°08'40.0", 20m asl; pitfall trap, 7 July - 7 August 2013, 1 female (CJB-2328).

Remarks

This species was reported from Catalonia for the first time by BARRIENTOS *et al.* (2016).

***Micaria dives* (Lucas, 1846)**

Habitus: Photos 111, 112.

Material examined

Palamós, between Cap Gros and La Fosca, coastal pine wood; hand capture, 26 May 2012, 1 male, 2 females (CJB-2775).

Remarks

This is the first record of this species from Catalonia.

***Nomisia aussereri* (L. Koch, 1872)**

Material examined

Fitor, Can Puig de Fitor, rocky hilltop; N41°54'8.3", E3°5'13.4", 279m asl; turning stones, 26 October 2013, 2 females (CJB-2523).

***Nomisia celerrima* (Simon, 1914)**

Habitus: Photo 217.

Material examined

Fitor, Mas Cals, rocky slope along hilltrack; N41°54'52.8", E03°05'01.6", 190m asl; turning stones, 31 May 2012, 1 male (CJB-2857). Mont Ras, N41°54'31.0", E03°07'42.5", 130m asl; turning stones, 30 May 2012, 1 male (CJB-2732).

Remarks

This is the first record of this species from Catalonia. However, the genus *Nomisia* Dalmas, 1921 is badly in need of revision. The distinction between *Nomisia celerrima* (Simon, 1914) and *Nomisia excerpta* (O. P.-Cambridge, 1872) is especially confusing. The illustration in SIMON (1914: fig. 401) strongly suggests that what Simon described as *Nomisia celerrima* is actually *Nomisia excerpta*. This suspicion is reinforced by the illustrations in LEDOUX (2004: fig. 9A-C), which are based on Simon's specimens and clearly represent the same animal illustrated by PICKARD-CAMBRIDGE (1872: fig. 4) as *Nomisia excerpta*. DALMAS (1921: fig. 84) later described an obviously different species as *Nomisia celerrima*. DENIS (1938: fig. 11) described the supposed female of that species.

***Nomisia exornata* (C. L. Koch, 1839)**

Habitus: Photos 119, 120.

Material examined

Cruilles, Rio Darò, river bank; turning stones, 6 June 2012, 1 male (CJB-2735). Cruilles, Rio Darò, N of road crossing river, river bank; turning stones, 28 June 2013, 1 male (CJB-2107). Fitor, Can Puig, rocky hilltop at abandoned village; N41°54'8.0", E3°5'10.2", 285m asl; turning stones, 1 July 2013, 1 female (CJB-2173).

***Scotophaeus scutulatus* (L. Koch, 1866)**

Habitus: Photo 231.

Material examined

Palamós, La Fosca, rocky bay at sea; N41°51'12.5", E3°8'40.2", 20m asl; sifting litter, 22 October 2013, 1 female (CJB-2451).

Remarks

This species was reported from Catalonia for the first time by BARRIENTOS & FERNANDEZ (2015).

***Trachyzelotes fuscipes* (L. Koch, 1866)**

Material examined

Palamós, between Cap Gros and La Fosca, coastal pine wood; turning stones, 26 May 2012, 1 male, 1 female (CJB-2829).

***Trachyzelotes holosericeus* (Simon, 1878)**

Material examined

Palamós, La Fosca, rocky bay at sea, among *Carpobrotus edulis* higher up in bay; N41°51'12", E03°08'40", 25m asl; pitfall trap, 25 May - 15 July 2012, 2 females (CJB-3041). Same locality, rocky slope; N41°51'12.5", E03°08'40.0", 20m asl; pitfall trap, 30 March - 7 July 2013, 1 male (CJB-2309). Same locality, at base of pine tree; N41°51'12.4", E03°08'40.5", 15m asl; pitfall trap, 25 May - 15 July 2012, 2 females (CJB-3026). Same locality, at base of pine tree; N41°51'12.4", E03°08'40.2", 15m asl; pitfall trap, 25 May - 15 July 2012, 1 male, 1 female (CJB-3019); same data, pitfall trap, 1 male, 2 females, 1 juvenile (CJB-3038). Same locality, at base of pine tree; N41°51'12.5", E03°08'40.2", 20m asl; pitfall trap, 25 May - 15 July 2012, 1 male (CJB-3051).

Remarks

This species was reported from Catalonia for the first time by BARRIENTOS *et al.* (2016).

***Trachyzelotes mutabilis* (Simon, 1878)**

Habitus: Photo 243.

Material examined

Palamós, La Fosca, rocky bay at sea, rocky slope; N41°51'12.5", E03°08'40.0", 20m asl; pitfall trap, 30 March - 7 July 2013, 1 female (CJB-2310); same data, pitfall trap, 2 November 2011 - 25 May 2012, 1 male (CJB-2693). Same locality, at base of pine tree; N41°51'12.4", E03°08'40.5", 15m asl; pitfall trap, 2 November 2011 - 25 May 2012, 1 male (CJB-2715); same data, pitfall trap, 25 May - 15 July 2012, 2 females (CJB-3027); same data, N41°51'12.4", E03°08'40.2", 15m asl; pitfall trap, 25 May - 15 July 2012, 1 male (CJB-3020); same data, N41°51'12.5", E03°08'40.2", 20m asl; pitfall trap, 25 May - 15 July 2012, 2 females (CJB-3050).

Remarks

This is the first record of this species from Catalonia.

***Zelotes gallicus* Simon, 1914**

Habitus: Photos 185-186.

Material examined

Els Angels, mixed wood past monastery; N41°58'54.1", E2°54'16.2", 452m asl; sifting litter, 13 August 2013, 1 female (CJB-2403). Same locality, N41°58'54.3", E02°54'15.8", 444m asl; pitfall trap, 14 August - 24 October 2013, 2 males, 1 female (CJB-2475). Fitor, Can Puig de Fitor, hilltop with ruined houses; turning stones, 29 May 2012, 3 females (CJB-2801). Fitor, Mas Cals, near stream crossing hilltrack; N41°54'47.1", E3°5'4.6", 180m asl; pitfall trap, 15 August - 26 October 2013, 3 males (CJB-2507). Fitor, Mas Cals, rocky slope along hilltrack; N41°54'52.8", E03°05'01.6", 190m asl; turning stones, 31 May 2012, 1 female (CJB-2854). Montnegre, roadside on hilltop;

N41°57'29.7", E2°55'51.7", 312m asl; turning stones, 16 August 2013, 1 male (CJB-2424). Romanya de la Selva, Dolmen Cova d'en Daina, mixed wood; turning stones, 27 October 2013, 1 female (CJVK). Sant Cebrià de Lledo (Els Metges), Can Gironès, along mountain stream; N41°53'33.0", E2°57'25.7", 295m asl; turning stones, 25 October 2013 (CJVK).

***Zelotes tenuis* (L. Koch, 1866)**

Material examined

Cruilles, Rio Darò, river bank; turning stones, 6 June 2012, 1 male, 3 females (CJB-2736).

***Zelotes thorelli* Simon, 1914**

Habitus: Photo 249.

Material examined

Fitor, Can Puig de Fitor, hilltop with ruined houses; turning stones, 29 May 2012, 4 females (CJB-2800). Can Puig, abandoned village, grassland on rocky hilltop; N41°54'0.5", E3°5'55.6", 284m asl; turning stones, 2 July 2013, 1 female (CJB-2192). Fitor, Can Puig, abandoned village, rocky hilltop; N41°54'8.0", E3°5'10.2", 285m asl; turning stones, 1 July 2013, 1 female (CJB-2172). Fitor, Mas Cals, maquis at small stream; N41°54'53", E03°04'32", 170m asl; turning stones, 1 June 2012, 2 females (CJB-2841). Fitor, Mas Cals, rocky slope along hilltrack; N41°54'52.8", E03°05'01.6", 190m asl; turning stones, 31 May 2012, 2 females (CJB-2747). Mont Ras, former quarry with pond; N41°54'55.1", E3°8'25.6", 103m asl; turning stones, 27 October 2013, 1 female (CJVK). Mont Ras, N41°54'31.0", E03°07'42.5", 130m asl; turning stones, 30 May 2012, 4 females (CJB-2727). Montnegre, roadside on hilltop; N41°57'29.4", E2°55'51.7", 324m asl; turning stones, 24 October 2013, 1 male (CJB-2492); same data, 1 female (CJVK). Palamós, between Cap Gros and La Fosca, coastal pine wood; turning stones, 26 May 2012, 1 female (CJB-2828). Palamós, La Fosca, rocky bay at sea, rocky slope; N41°51'12.5", E03°08'40.0", 20m asl; pitfall trap, 30 March - 7 July 2013, 2 males (CJB-2308); same data, pitfall trap, 7 July - 7 August 2013, 1 female (CJB-2329). Same locality, at base of pine tree; N41°51'12.4", E03°08'40.2", 15m asl; pitfall trap 7 July - 6 August 2013, 1 female (CJB-2327). Sant Cebrià de Lledo (Els Metges), hilltop near restaurant; N41°54'45.7", E2°58'5.2", 375m asl Turning stones, 25 October 2013, 1 male, 1 female (CJB-2501). Same data, 1 female (CJVK). Same locality, N41°54'46", E02°58'06", 370m asl; turning stones, 4 June 2012, 2 females (CJB-2780).

Remarks

This is the most common *Zelotes* species in the Gavarres.

**HAHNIIDAE**

***Hahnia petrobia* Simon, 1875**

Habitus: Photo 207.

Material examined

Els Angels, mixed wood past monastery; N41°59'0.9", E2°54'45.", 439m asl; beating vegetation, 14 August 2013, 1 male (CJB-2409). Same locality, N41°58'54.3", E02°54'15.8", 444m asl; pitfall trap, 14 August - 24 October 2013, 16 males (CJB-2473); same data, sifting litter, 24 October 2013, 2 females (CJB-2479). Fitor, Mas Cals, near stream crossing hilltrack; N41°54'47.1", E3°5'4.6", 180m asl; pitfall trap, 15 August - 26 October 2013, 9 males (CJB-2511). Montnegre, roadside on hilltop; N41°57'29.7", E2°55'51.7", 312m asl; sifting litter, 16 August 2013, 1 male (CJB-2427). Montnegre, roadside on hilltop; N41°57'29.4", E2°55'51.7", 324m asl; turning stones, 24 October 2013, 1 female, (CJB-2490).

Remarks

Although this species is common in the Catalonian hills, few illustrations exist. Good figures can be found in BARRIENTOS (1985) and SIMON (1937).

***Iberina candida* (Simon, 1875)**

Material examined

Els Angels, mixed wood past monastery; N41°58'54.3", E02°54'15.8", 444m asl; sifting litter, 24 October 2013, 1 female (CJB-2480). Montnegre, roadside on hilltop; N41°57'29.4", E2°55'51.7", 324m asl; turning stones, 24 October 2013, 1 female (CJB-2491).

***Iberina montana* (Blackwall, 1841)**

Material examined

Cruilles, Rio Darò, pine wood on river bank; N41°56'40.6", E03°00'41.2", 50m asl; sifting litter, 23 October 2013, 1 male (CJB-2470). Romanya de la Selva, Menhir de la Murtra, mixed wood; N41°51'25.7", E2°59'9.4", 324m asl; sifting litter, 27 October 2013, 2 males (CJB-2533).

Remarks

This is the first record of this species from Catalonia.

**LINYPHIIDAE**

***Agyneta cauta* (O. P.-Cambridge, 1903)**

Material examined

Palamós, La Fosca, rocky bay at sea, at base of pine tree; N41°51'12.4", E03°08'40.2", 15m asl; pitfall trap, 25 May - 15 July 2012, 1 male (CJB-3039).

Remarks

This is the first record of this species from the Iberian peninsula.

### ***Agyneta fuscipalpa* (C.L. Koch, 1836)**

#### Material examined

Romanya de la Selva, Menhir de la Murtra, mixed wood; N41°51'25.7", E2°59'9.4", 324m asl; beating vegetation, 27 October 2013, 1 female (CJB-2544). Same locality, maquis near village; N41°51'23.9", E2°59'3.0", 340m asl; beating vegetation, 27 October 2013, 1 male (CJB-2547).

#### Remarks

This species has been reported from the Balearics, and for the first time from mainland Catalonia by BARRIENTOS *et al.* (2016). All Catalonian records of the related *Agyneta rurestris* (C.L. Koch, 1836) are most probably misidentifications: in my view, *Agyneta rurestris* is absent from the Mediterranean.

### ***Centromerus albidus* Simon, 1929**

#### Material examined

Palamós, La Fosca, rocky bay at sea, at base of pine tree; N41°51'12.5", E03°08'40.2", 20m asl; pitfall trap 26 July 2012 - 24 March 2013, 1 male (CJB-2093).

### ***Centromerus prudens* (O. P.-Cambridge, 1873)**

#### Material examined

Romanya de la Selva, Menhir de la Murtra, mixed wood; N41°51'25.7", E2°59'9.4", 324m asl; sifting litter, 27 October 2013, 2 females (CJB-2541).

### ***Ceratinella brevis* (Wider, 1834)**

#### Material examined

Palamós, La Fosca, rocky bay at sea, at base of pine tree; N41°51'12.4", E03°08'40.5", 15m asl; pitfall trap, 2 November 2011 - 25 May 2012, 8 males, 1 female (CJB-2714). Same locality, N41°51'12.5", E03°08'40.2", 20m asl; pitfall trap, 25 May - 15 July 2012, 1 female (CJB-3054).

### ***Cresmatoneta mutinensis* (Canestrini, 1868)**

(Figs. 13-14)

Habitus: Photos 39, 40.

#### Material examined

Mont Ras, former quarry with pond; N41°54'55.1", E3°8'25.6", 103m asl; beating vegetation, 23 October 2013, 1 female (CJVK). Palamós, Cap Gros, grassland with *Spartium junceum*; N41°51'1.7", E3°8'30.3", 40m asl; beating vegetation, 13 July 2012, 5 females (CJB-2792).

#### Remarks

This strikingly myrmecomorph linyphiid was reported from the Iberian Peninsula for the first time by Barrientos & Fernández (2015). Diagnostic figures can be found in BAYRAM *et al.* (2007) and MILLIDGE (1984). I have only collected specimens in the vicinity of the invasive Argentine ant *Linepithema humile* (Mayr, 1868), mostly on plants infested by aphids, preferably *Spartium junceum*. As associations between Argentine ants and aphids are known (BRISTOWE 1991, GROVER *et al.* 2008),

a tritrophic interaction is possible. The male palp (Figure 13) and epigyne (Figure 14) are illustrated.

### ***Diplostyla concolor* (Wider, 1834)**

#### Material examined

Sant Cebrià de Lledo (Els Metges), Can Gironès, along mountain stream; N41°53'33.0", E2°57'25.7", 295m asl; turning stones, 25 October 2013, 1 female (CJB-2495).

### ***Erigone dentipalpis* (Wider, 1834)**

#### Material examined

Cruilles, Rio Darò, N of road crossing river, river bank; beating vegetation, 28 June 2013, 1 female (CJB-2125). Palamós, between Cap Gros and La Fosca, coastal pine wood; turning stones, 26 May 2012, 1 male (CJB-2834). Sant Sadurní de l'Heura, river banks of Rio Darò in woods; N41°56'20.8", E2°58'5.0", 86m asl; beating vegetation, 4 July 2013, 2 females (CJB-2262). Same locality, stream close to village; N41°56'50.7", E2°58'28.7", 95m asl; beating vegetation, 3 July 2013, 1 female (CJB-2239).

### ***Frontinellina frutetorum* (C. L. Koch, 1834)**

Habitus: Photos 79, 80

#### Material examined

Els Angels, mixed wood past monastery; N41°58'54.1", E2°54'16.2", 452m asl; beating vegetation, 13 August 2013, 1 male, 1 female (CJB-2392). Same locality, N41°58'54.3", E02°54'15.8", 444m asl; beating vegetation, 24 October 2013, 1 female (CJVK). Montnegre, roadside on hilltop; N41°57'33.1", E2°55'58.0", 318m asl; beating vegetation, 16 August 2013, 1 female (CJB-2432). Sant Sadurní de l'Heura, stream close to village; N41°56'50.7", E2°58'28.7", 95m asl; beating vegetation, 3 July 2013, 1 female (CJB-2238). Santa Pellaia, track on hillslope in mixed wood; N41°55'11.6", E2°54'57.8", 365m asl; beating vegetation, 4 July 2013, 1 female (CJB-2274).

### ***Gnathonarium dentatum* (Wider, 1834)**

#### Material examined

Cruilles, Rio Darò, dried out river bed; N41°56'33", E03°00'27", 50m asl; beating vegetation, 23 October 2013, 1 male, 1 female (CJB-2466); same data, turning stones, 4 males, 6 females (CJVK). Mont Ras, former quarry with pond; N41°54'55.1", E3°8'25.6", 103m asl; turning stones, 23 October 2013, 1 female (CJB-2464).

#### Remarks

This is the first record of this species from Catalonia.

### ***Gonatium ensipotens* (Simon, 1881)**

#### Material examined

Palamós, Cap Gros, grassy hillside with shrubs and pine trees; N41°51'0.8", E3°8'29.1", 41m asl; beating vegetation, 22 October 2013, 1 male, 2

females (CJB-2455). Same data, 2 males, 1 female (CJVK).

Remarks

Juveniles of this strikingly orange linyphiid are common in summer on coastal bushes. Adults are only found later in fall.

***Hybocoptus corrugis* (O. P.-Cambridge, 1875)**

Habitus: Photos 91, 92.

Material examined

Castell, Puig Boter, maquis near coast; beating vegetation, 25 March 2013, 2 males, 1 female (CJB-2083). Fitor, cork oak wood; beating vegetation, 28 March 2013, 1 male (CJB-2099).

Remarks

This is the first record of this species from Catalonia.

***Leptophantes minutus* (Blackwall, 1833)**

Habitus: Photo 211.

Material examined

Fitor, Santa Coloma de Fitor, cork oak wood; N41°54'17.4", E3°5'12.6", 257m asl; turning stones, 26 October 2013, 1 female (CJVK). Sant Cebrià de Lledo (Els Metges), hilltop near restaurant; N41°54'45.7", E2°58'5.2", 375m asl; turning stones, 25 October 2013, 1 female (CJVK).

Remarks

This is the first record of this species from Catalonia.

***Linyphia maura* Thorell, 1875**

Habitus: Photos 101, 102.

Material examined

Fitor, Mas Playa, maquis near water container; N41°54'56.2", E3°5'31.0", 246m asl; beating vegetation, 26 October 2013, 4 females (CJB-2512). Mont Ras, former quarry with pond; N41°54'55.1", E3°8'25.6", 103m asl; beating vegetation, 28 October 2013, 3 females (CJB-2557). Same locality, beating vegetation, 23 October 2013, 1 male, 3 females (CJVK). Montnegre, roadside on hilltop; N41°57'29.4", E2°55'51.7", 324m asl; beating vegetation, 24 October 2013, 1 female (CJVK). Palamós, Cap Gros, grassy hillside with shrubs and pine trees; N41°51'0.8", E3°8'29.1", 41m asl; beating vegetation, 22 October 2013, 6 females (CJVK). Romanya de la Selva, Menhir de la Murtra, mixed wood; N41°51'25.7", E2°59'9.4", 324m asl; beating vegetation, 27 October 2013, 1 female (CJVK). Sant Sadurní de l'Heura, river banks of Rio Darò in woods; N41°56'20.8", E2°58'5.0", 86m asl; beating vegetation, 24 October 2013, 1 female (CJVK).

Remarks

Differences between this species and the closely related *Linyphia triangularis* are aptly diagnosed in VAN HELSDINGEN (1969: 31-48). Although

*Linyphia maura* is more common than *Linyphia triangularis* in the Gavarres, it has not been

reported from Catalonia before. Adults are found in fall, later in the year than those of *Linyphia triangularis*.

***Linyphia triangularis* (Clerck, 1757)**

Habitus: Photos 103, 104.

Material examined

Els Angels, mixed wood past monastery; N41°58'54.1", E2°54'16.2", 452m asl; beating vegetation, 13 August 2013, 2 males (CJB-2391). Same locality, N41°59'0.9", E2°54'4.5", 439m asl; beating vegetation, 14 August 2013, 1 male (CJB-2404). Sant Cebrià de Lledo (Els Metges), Can Gironès, along mountain stream; N41°53'33.0", E2°57'25.7", 295m asl; beating vegetation, 12 August 2013, 1 male, 1 female (CJB-2380).

***Neriene radiata* (Walckenaer, 1841)**

Material examined

Mont Ras, along river; N41°54'13", E03°07'47.2", 87m asl; beating vegetation, 12 July 2012, 2 females (CJB-2983). Same locality, bridge over small stream in hills; hand capture, 5 June 2012, 1 male (CJB-2771).

***Pocadicnemis pumila* (Blackwall, 1841)**

Material examined

Cruilles, Rio Darò, river bank; turning stones, 6 June 2012, 1 female (CJB-2742).

***Prinerigone vagans* (Audouin, 1826)**

Material examined

Cruilles, Rio Darò, N of road crossing river, river bank; beating vegetation, 28 June 2013, 1 male (CJB-2126).

Remarks

Surprisingly, this rather common species had not been recorded from Catalonia until recently, when it was reported by BARRIENTOS *et al.* (2014) from the Montseny region.

***Sintula diceros* Simon, 1926 (Figs. 15-16)**

Material examined

Palamós, La Fosca, rocky bay at sea, rocky slope; N41°51'12.5", E03°08'40.0", 20m asl; pitfall trap, 2 November 2011 - 25 May 2012, 1 male, 1 female (CJB-2691). Same locality, at base of pine tree; N41°51'12.4", E03°08'40.5", 15m asl; pitfall trap, 2 November 2011 - 25 May 2012, 1 male (CJB-2716). Same locality, at base of pine tree; N41°51'12.4", E03°08'40.2", 15m asl; pitfall trap, 2 November 2011 - 25 May 2012, 1 male (CJB-2706).

Remarks

This species was reported from the Iberian Peninsula for the first time by BARRIENTOS *et al.* (2016). Male palp illustrated in Figure 15, epigyne Figure 16.

### ***Sintula retroversus* (O. P.-Cambridge, 1875)**

#### Material examined

Cruilles, Rio Darò, pine wood on river bank; N41°56'40.6", E03°00'41.2", 50m asl; sifting litter, 23 October 2013, 1 female (CJB-2471). Fitor, Can Puig de Fitor, rocky hilltop; N41°54'8.3", E3°5'13.4", 279m asl; turning stones, 26 October 2013, 2 males (CJB-2525). Sant Cebrià de Lledo (Els Metges), Can Gironès, along mountain stream; N41°53'33.0", E2°57'25.7", 295m asl; turning stones, 25 October 2013, 1 male, 1 female (CJVK).

#### Remarks

This species was reported from the Iberian Peninsula for the first time by BARRIENTOS *et al.* (2015).

### ***Styloctetor romanus* (O. P.-Cambridge, 1872)**

#### Material examined

Fitor, Can Puig de Fitor, rocky hilltop; N41°54'8.3", E3°5'13.4", 279m asl; beating vegetation, 16 July 2012, 1 female (CJB-3070). Fitor, Can Puig, rocky hilltop at abandoned village; N41°54'8.0", E3°5'10.2", 285m asl; beating vegetation, 1 July 2013, 5 females, 1 subadult male (CJB-2183). Fitor, Santa Coloma de Fitor, cork oak wood; N41°54'17.4", E3°5'12.6", 257m asl; turning stones, 26 October 2013, 1 female (CJVK). Palamós, Cap Gros, rocky coastal hillside with shrubs and pine trees; N41°51'00.2", E03°08'31.4", 52m asl; beating vegetation, 22 July 2012, 1 female (CJB-3115).

### ***Tapinopa longidens* (Wider, 1834)**

#### Material examined

Els Angels, mixed wood past monastery; N41°58'54.1", E2°54'16.2", 452m asl; sifting litter, 13 August 2013, 1 female (CJB-2399). Fitor, Mas Cals, near stream crossing hilltrack; N41°54'47.1", E3°5'4.6", 180m asl; pitfall trap, 15 August - 26 October 2013, 1 male, 1 subadult male (CJB-2510).

### ***Tenuiphantes herbicola* (Simon, 1884)**

Habitus: Photo 235.

#### Material examined

Castell, Puig Boter, maquis near coast; beating vegetation, 25 March 2013, 1 female (CJB-2080). Els Angels, mixed wood past monastery; N41°58'54.1", E2°54'16.2", 452m asl; sifting litter, 13 August 2013, 1 female (CJB-2400). Same locality, N41°59'0.9", E2°54'4.5", 439m asl; beating vegetation, 14 August 2013, 1 female (CJB-2405). Same locality, N41°58'54.0", E2°54'16.0", 452m asl; sifting litter, 14 August 2013, 1 female (CJB-2413). Same locality, N41°58'55.8", E2°54'11.0", 440m asl; turning stones, 14 August 2013, 2 males, 4 females (CJB-2415). Same locality, N41°58'54.3", E02°54'15.8", 444m asl; pitfall trap, 14 August - 24 October 2013, 1 female (CJB-2474). Fitor, Can Puig, abandoned village, along track in grassland on rocky hilltop; N41°54'11.0",

E3°5'16.4", 274m asl; turning stones, 2 July 2013, 1 female (CJB-2200). Fitor, Mas Cals, near stream crossing hilltrack; N41°54'47.1", E3°5'4.6", 180m asl; pitfall trap, 15 August - 26 October 2013, 4 males, 1 female (CJB-2508). Montnegre, roadside on hilltop; N41°57'29.7", E2°55'51.7", 312m asl; sifting litter, 16 August 2013, 2 males, 9 females (CJB-2426). Same locality, N41°57'29.4", E2°55'51.7", 324m asl; sifting litter, 24 October 2013, 4 females (CJB-2488); same data, 2 females (CJVK). Palamós, La Fosca, rocky bay at sea, at base of pine tree; N41°51'12.4", E03°08'40.2", 15m asl; pitfall trap, 25 May - 15 July 2012, 1 female (CJB-3017); same data, 1 female (CJB-3037).

Romanya de la Selva, Menhir de la Murtra, mixed wood; N41°51'25.7", E2°59'9.4", 324m asl; sifting litter, 27 October 2013, 1 male, 1 female (CJB-2538). Sant Cebrià de Lledo (Els Metges), Can Gironès, along mountain stream; N41°53'33.0", E2°57'25.7", 295m asl; turning stones, 25 October 2013, 2 females (CJVK). Sant Cebrià de Lledo (Els Metges), hilltop near restaurant; N41°54'45.7", E2°58'5.2", 375m asl; turning stones, 25 October 2013, 1 female (CJB-2500).

#### Remarks

This *Tenuiphantes* species, easily recognised by its striking orange colour, is very common in the Gavarres.

### ***Tenuiphantes tenuis* (Blackwall, 1852)**

Habitus: Photos 167, 168.

#### Material examined

Els Angels, mixed wood past monastery; N41°58'54.1", E2°54'16.2", 452m asl; sifting litter, 13 August 2013, 1 male (CJB-2401). Same locality, N41°58'54.0", E2°54'16.0", 452m asl; sifting litter, 14 August 2013, 2 females (CJB-2412). Same locality, N41°58'55.8", E2°54'11.0", 440m asl; turning stones, 14 August 2013, 1 male, 1 female (CJB-2416). Fitor, Mas Cals, near stream crossing hilltrack; N41°54'47.1", E3°5'4.6", 180m asl; pitfall trap, 15 August - 26 October 2013, 1 female (CJB-2509). Fitor, Santa Coloma de Fitor, track to dolmen del Llobinar, cork oak wood; N41°54'18.4", E3°5'0.3", 244m asl; beating vegetation, 1 July 2013, 1 female (CJB-2148). Montnegre, roadside on hilltop; N41°57'29.4", E2°55'51.7", 324m asl; sifting litter, 24 October 2013, 1 female (CJB-2489). Palamós, Cap Gros, coastal pine wood; N41°51'5", E3°8'35.9", 56m asl; beating vegetation, 9 August 2013, 1 male (CJB-2348). Same locality, grassy hillside with shrubs and pine trees; N41°51'0.8", E3°8'29.1", 41m asl; turning stones, 22 October 2013, 1 male, 1 female (CJVK). Palamós, La Fosca, rocky bay at sea, at base of pine tree; N41°51'12.4", E03°08'40.2", 15m asl; pitfall trap, 2 November 2011 - 25 May 2012, 1 male (CJB-2707). Romanya de la Selva, Menhir de la Murtra, mixed wood; N41°51'25.7", E2°59'9.4", 324m asl; sifting litter, 27 October 2013, 1 female

(CJB-2539). Romanya de la Selva, Menhir de la Murtra, mixed wood; N41°51'25.7", E2°59'9.4", 324m asl; beating vegetation, 27 October 2013, 1 male (CJVK). Sant Cebrià de Lledo (Els Metges), Can Gironès, along mountain stream; N41°53'33.0", E2°57'25.7", 295m asl; turning stones, 25 October 2013, 2 females (CJB-2494). Sant Sadurní de l'Heura, river banks of Rio Darò in woods; N41°56'20.8", E2°58'5.0", 86m asl; turning stones, 4 July 2013, 1 female (CJB-2251). Same locality, N41°56'20.8", E2°58'5.0", 86m asl; beating vegetation, 24 October 2013 (CJVK).

#### ***Theonina cornix* (Simon, 1881)**

##### Material examined

Romanya de la Selva, Menhir de la Murtra, mixed wood; N41°51'25.7", E2°59'9.4", 324m asl; sifting litter, 27 October 2013, 1 male (CJB-2540).

##### Remarks

This is the first record of this species from Catalonia.

#### ***Walckenaeria corniculans* (O. P.-Cambridge, 1875)**

Habitus: Photo 245.

##### Material examined

Fitor, Santa Coloma de Fitor, cork oak wood; N41°54'17.4", E3°5'12.6", 257m asl; turning stones, 26 October 2013, 1 female (CJVK). Montnegre, roadside on hilltop; N41°57'29.4", E2°55'51.7", 324m asl; beating vegetation, 24 October 2013, 1 male (CJVK). Romanya de la Selva, Menhir de la Murtra, mixed wood; N41°51'25.7", E2°59'9.4", 324m asl; sifting litter, 27 October 2013, 2 males (CJB-2536). Sant Cebrià de Lledo (Els Metges), hilltop near restaurant; N41°54'45.7", E2°58'5.2", 375m asl; turning stones, 25 October 2013, 1 male (CJVK).

## **LIOCRANIDAE**

#### ***Agraecina lineata* (Simon, 1878)**

Habitus: Photo 194.

##### Material examined

Cruilles, Rio Darò, RIver bank; turning stones, 6 June 2012, 1 male (CJB-2741).

##### Remarks

This species was reported from Catalonia a for the first time by BARRIENTOS *et al.* (2016).

#### ***Scotina celans* (Blackwall, 1841)**

Habitus: Photo 230.

##### Material examined

Cruilles, Rio Darò, river bank; sifting litter, 29 March 2013, 1 female (CJB-2102). Palamós, La Fosca, rocky bay at sea, at base of pine tree; N41°51'12.4", E03°08'40.2", 15m asl; pitfall trap, 2 November 2011 - 25 May 2012, 1 male (CJB-2684); same data, 1 female (CJB-2704); same data, pitfall trap, 25 May - 15 July 2012, 1 female (CJB-

3036). Romanya de la Selva, Menhir de la Murtra, mixed wood; N41°51'25.7", E2°59'9.4", 324m asl; sifting litter, 27 October 2013, 5 males, 6 females, 9 juveniles (CJB-2530); same data, turning stones, 1 female (CJVK).

## **LYCOSIDAE**

#### ***Alopecosa albofasciata* (Brullé, 1832)**

Habitus: Photo 195.

##### Material examined

Fitor, Can Puig de Fitor, abandoned hamlet, hilltop with ruined houses; turning stones, 29 May 2012, 1 male (CJB-2805).

#### ***Alopecosa laciniosa* (Simon, 1876) (Figs. 17-20)**

##### Material examined

Fitor, Mas Playa, maquis near water container; N41°54'56.2", E3°5'31.0", 246m asl; beating vegetation, 26 October 2013, 1 female (CJVK). Montnegre, roadside on hilltop; N41°57'29.4", E2°55'51.7", 324m asl; turning stones, 24 October 2013, 2 males, 1 female (CJVK).

##### Remarks

The male palp (Figure 17, 18) and epigyne (Figure 19, 20) are illustrated.

#### ***Arctosa lacustris* (Simon, 1876) (Figs. 21-23)**

##### Material examined

Sant Sadurní de l'Heura, Rio Darò, river banks in woods; N41°56'20.9", E2°58'3.8", 106m asl; turning stones, 24 October 2013, 1 male (CJB-2484). Same data, 1 male, 1 female (CJVK).

##### Remarks

The male palp (Figure 21, 22) and epigyne (Figure 23) are illustrated.

#### ***Hogna radiata* (Latreille, 1817)**

Habitus: Photos 89, 90.

##### Material examined

Els Angels, mixed wood past monastery; N41°58'54.3", E02°54'15.8", 444m asl; turning stones, 24 October 2013, 2 females (CJVK). Fitor, Can Puig de Fitor, rocky hilltop; N41°54'8.3", E3°5'13.4", 279m asl; turning stones, 26 October 2013, 1 female (CJB-2527); same data, 2 females (CJVK). Fitor, Can Puig de Fitor, rocky hilltop; N41°54'8.3", E3°5'13.4", 279m asl; turning stones, 16 July 2012, 1 female (CJB-3057). Fitor, Santa Coloma de Fitor, cork oak wood; N41°54'17.4", E3°5'12.6", 257m asl; turning stones, 26 October 2013, 3 females (CJVK). Montnegre, roadside on hilltop; N41°57'29.4", E2°55'51.7", 324m asl; turning stones, 24 October 2013, 1 female (CJVK). Palamós, Cap Gros, top of rock, coastal open grassland on rocks; hand captured at night, 16 July 2012, 2 males, 1 subadult female (CJB-3056).

##### Remarks

This large, typically black-bellied lycosid is common on rocky outcrops in the Gavarres. Egg

sacs are often parasitised (ASPÖCK 1996) by larvae of the beautiful mantispid *Mantispa styriaca* (Poda, 1761), see photo 252.

#### ***Pardosa hortensis* (Thorell, 1872)**

Habitus: Photo 221.

##### Material examined

Cruilles, Rio Darò, river bank; turning stones, 6 June 2012, 1 female (CJB-2739). Can Puig de Fitor, rocky hilltop; N41°54'8.3", E3°5'13.4", 279m asl; turning stones, 16 July 2012, 1 female (CJB-3072). Fitor, Can Puig de Fitor, abandoned hamlet, hilltop with ruined houses; turning stones, 29 May 2012, 2 females (CJB-2755). Fitor, Can Puig, abandoned village, old cattle pond at rocky hilltop; N41°54'8.1", E3°5'19.0", 279m asl; turning stones, 2 July 2013, 1 female (CJB-2204). Fitor, Mas Cals, along stream crossing hilltrack; N41°54'41", E03°05'11", 180m asl; turning stones, 31 May 2012, 23 females (CJB-2720). Fitor, Mas Cals, maquis at small stream; N41°54'53", E03°04'32", 170m asl; turning stones, 1 June 2012, 7 females (CJB-2838). Fitor, Mas Cals, rocky slope along hilltrack; N41°54'52.8", E03°05'01.6", 190m asl; turning stones, 31 May 2012, 4 females (CJB-2749). Fitor, Santa Coloma de Fitor, cork oak wood; N41°54'20.6", E3°5'11.3", 243m asl; turning stones, 1 July 2013, 1 male, 2 females (CJB-2129). Mont Ras, along river; N41°54'13", E03°07'47.2", 87m asl; turning stones, 12 July 2012, 6 females (CJB-2992). Mont Ras, bridge over small stream in hills; turning stones, 5 June 2012, 2 females (CJB-2768).

#### ***Pardosa morosa* (L. Koch, 1870)**

Habitus: Photo 222.

##### Material examined

Sant Sadurní de l'Heura, river banks of Rio Darò in woods; N41°56'20.8", E2°58'5.0", 86m asl; turning stones, 4 July 2013, 2 females (CJB-2249). Sant Sadurní de l'Heura, Rio Darò, river banks in woods; N41°56'20.9", E2°58'3.8", 106m asl; turning stones, 24 October 2013, 4 males, 5 females (CJB-2483); same data, 4 males, 4 females (CVJK).

#### ***Pardosa proxima* (C. L. Koch, 1847)**

Habitus: Photos 135, 136.

##### Material examined

Cruilles, Rio Darò, dried out river bed; N41°56'33", E03°00'27", 50m asl; turning stones, 23 October 2013, 1 female (CJVK).

#### ***Pirata piraticus* (Clerck, 1757)**

Habitus: Photo 227.

##### Material examined

Fitor, Can Puig, abandoned village, old cattle pond at rocky hilltop; N41°54'8.1", E3°5'19.0", 279m asl; turning stones, 26 October 2013, 1 female (CJVK). Fitor, Mas Cals, along stream crossing hilltrack;

N41°54'41", E03°05'11", 180m asl; turning stones, 31 May 2012, 4 females (CJB-2721).

##### Remarks

This species was reported from Catalonia for the first time by BARRIENTOS & FERNANDEZ (2015).

#### ***Piratula latitans* (Blackwall, 1841)**

##### Material examined

Fitor, Mas Cals, along stream crossing hilltrack; N41°54'41", E03°05'11", 180m asl; turning stones, 31 May 2012, 1 male (CJB-2723). Sant Sadurní de l'Heura, river banks of Rio Darò in woods; N41°56'20.8", E2°58'5.0", 86m asl; turning stones, 4 July 2013, 1 female (CJB-2250).

##### Remarks

This is the first record of this species from Catalonia.

#### ***Trabea paradoxa* Simon, 1876**

Habitus: Photo 242.

##### Material examined

Palamós, La Fosca, rocky bay at sea, at base of pine tree; N41°51'12.4", E03°08'40.2", 15m asl; pitfall trap, 26 July 2012 - 30 March 2013, 2 females (CJB-2086). Same locality, pitfall trap, 25 May - 15 July 2012, 1 male, 3 females (CJB-3035).

#### ***Trochosa hispanica* Simon, 1870**

Habitus: Photo 244.

##### Material examined

Fitor, Mas Cals, along stream crossing hilltrack; N41°54'41", E03°05'11", 180m asl; turning stones, 31 May 2012, 1 male (CJB-2722).

#### ***Trochosa robusta* (Simon, 1876)**

##### Material examined

Els Angels, mixed wood past monastery; N41°58'55.8", E2°54'11.0", 440m asl; turning stones, 14 August 2013, 1 male (CJB-2419). Montnegre, roadside on hilltop; N41°57'29.7", E2°55'51.7", 312m asl; turning stones, 16 August 2013, 1 male (CJB-2422).

##### Remarks

This is the first record of this species from Catalonia.

#### ***Trochosa ruricola* (De Geer, 1778)**

##### Material examined

Fitor, Mas Playa, maquis near water container; N41°54'56.2", E3°5'31.0", 246m asl; beating vegetation, 26 October 2013, 1 male (CJVK). Sant Sadurní de l'Heura, Rio Darò, river banks in woods, N41°56'20.9", E2°58'3.8", 106m asl; turning stones, 24 October 2013, 1 male (CJB-2485).

#### **MIMETIDAE**

#### ***Ero aphana* (Walckenaer, 1802)**

Habitus: Photo 204.

##### Material examined

Els Angels, mixed wood past monastery; N41°58'54.0", E2°54'16.0", 452m asl; sifting litter, 14 August 2013, 1 female (CJB-2411). Fitor, Can Puig de Fitor, hilltop; N41°54'06.8", E03°05'17.3", 266m asl; beating vegetation, 19 July 2012, 2 females (CJB-3093). Fitor, Can Puig, abandoned village, grassland on rocky hilltop; N41°54'0.5", E3°5'55.6", 284m asl; beating vegetation, 2 July 2013, 2 females (CJB-2191). Fitor, Can Puig, at abandoned village, rocky hilltop; N41°54'8.0", E3°5'10.2", 285m asl; beating vegetation, 1 July 2013, 1 female (CJB-2164). Fitor, Santa Coloma de Fitor, dolmen del Llobinar, cork oak wood; N41°54'15.2", E3°5'3.5", 274m asl; beating vegetation, 1 July 2013, 1 female (CJB-2155). Llofriú, track to Fitor; beating vegetation, 5 July 2013, 1 female (CJB-2284). Llofriú, track to hilltop; N41°55'45.4", E3°72.7", 182m asl; beating vegetation, 5 July 2013, 2 females (CJB-2299). Palamós, Cap Gros, coastal pine wood; N41°51'5", E3°8'35.9", 56m asl; beating vegetation, 9 August 2013, 1 female (CJB-2343). Same locality, beating vegetation, 13 July 2012, 1 female (CJB-3005). Palamós, Cap Gros, rocky hilltop at coast; N41°51'0.,9", E03°08'37.2", 75m asl; beating vegetation, 20 July 2012, 1 female (CJB-3124). Sant Cebrià de Lledo (Els Metges), Can Gironès, along mountain stream; N41°53'33.0", E2°57'25.7", 295m asl; beating vegetation, 12 August 2013, 1 female (CJB-2379). Sant Sadurní de l'Heura, stream close to village; N41°56'50.7", E2°58'28.7", 95m asl; beating vegetation, 3 July 2013, 2 females (CJB-2234).

#### *Ero flammeola* Simon, 1881 (Fig. 24)

##### Material examined

Palamós, La Fosca, rocky bay at sea, at base of pine tree; N41°51'12.5", E03°08'40.2", 20m asl; pitfall trap, 30 March - 7 July 2013, 2 females (CJB-2317).

##### Remarks

Apparently, this rare species lives close to the ground. It is reported from Catalonia for the first time here. The epigyne is illustrated in Figure 24.

#### *Ero furcata* (Villers, 1789)

##### Material examined

Sant Sadurní de l'Heura, river banks of Rio Darò in woods; N41°56'20.8", E2°58'5.0", 86m asl; beating vegetation, 24 October 2013, 1 female (CJVK).

#### *Ero tuberculata* (De Geer, 1778)

Habitus: Photo 205.

##### Material examined

Castell, Puig Boter, maquis near coast; beating vegetation, 25 March 2013, 2 females (CJB-2074). Fitor, Mas Playa, maquis near water container; N41°54'56.2", E3°5'31.0", 246m asl; beating vegetation, 26 October 2013, 1 male, 2 females (CJB-2514). Fitor, Santa Coloma de Fitor, cork oak

wood; N41°54'17.4", E3°5'12.6", 257m asl; beating vegetation, 26 October 2013, 1 female (CJB-2520). Same locality, track to dolmen del Llobinar, cork oak wood; N41°54'18.4", E3°5'0.3", 244m asl; beating vegetation, 1 July 2013, 1 female (CJB-2145). Palamós, Cap Gros, grassland with *Spartium junceum*; N41°51'1.7", E3°8'30.3", 40m asl; beating vegetation, 13 July 2012, 1 female (CJB-2781). Palamós, Cap Gros, grassy hillside with shrubs and pine trees; N41°51'0.8", E3°8'29.1", 41m asl; beating vegetation, 22 October 2013, 1 male (CJVK). Romanya de la Selva, Menhir de la Murtra, mixed wood; N41°51'25.7", E2°59'9.4", 324m asl; beating vegetation, 27 October 2013, 3 females (CJB-2542); same data, 1 male, 2 females (CJVK). Sant Sadurní de l'Heura, field border; N41°56'50.5", E2°58'11.0", 87m asl; beating vegetation, 24 October 2013, 1 female (CJB-2481).

## OECOBIIDAE

#### *Oecobius navus* Blackwall, 1859

##### Material examined

Palamós, La Fosca, rocky bay at sea, among *Carpobrotus edulis* higher up in bay; N41°51'12", E03°08'40", 25m asl; pitfall trap, 25 May - 15 July 2012, 1 male, 3 females (CJB-3043). Palamós, La Fosca, rocky bay at sea, rocky slope; N41°51'12.5", E03°08'40.0", 20m asl; pitfall trap, 30 March - 7 July 2013, 10 males, 1 female (CJB-2311). Same locality, pitfall trap, 7 July - 7 August 2013, 1 male (CJB-2331). Same locality, pitfall trap, 7 August - 22 October 2013, 2 males (CJB-2441). Palamós, La Fosca, rocky bay at sea, at base of pine tree; N41°51'12.4", E03°08'40.5", 15m asl; pitfall trap, 25 May - 15 July 2012, 1 male (CJB-3024). Same locality, at base of pine tree; N41°51'12.5", E03°08'40.2", 20m asl; pitfall trap, 25 May - 15 July 2012, 2 males (CJB-3049).

##### Remarks

This common species was reported from Catalonia for the first time by BARRIENTOS & FERNANDEZ (2015).

#### *Uroctea durandi* (Latreille, 1809)

Habitus: Photos 179, 180.

##### Material examined

Fitor, Can Puig de Fitor, rocky hilltop; N41°54'8.3", E3°5'13.4", 279m asl; turning stones, 26 October 2013, 1 female (CJVK). Fitor, Can Puig, abandoned village, along track in grassland on rocky hilltop; N41°54'11.0", E3°5'16.4", 274m asl; turning stones, 2 July 2013, 2 females (CJB-2198). Mont Ras, former quarry with pond; N41°54'55.1", E3°8'25.6", 103m asl; turning stones, 23 October 2013, 1 male (CJVK). Montnegre, roadside on hilltop; N41°57'29.7", E2°55'51.7", 312m asl; turning stones, 16 August 2013, 1 female (CJB-2425). Romanya de la Selva, Creu de Romanya de la Selva, maquis; N41°51'18.9", E02°59'05.9", 330m

asl; turning stones, 18 July 2012, 1 female (CJB-3073). Sant Cebrià de Lledo (Els Metges), hilltop near restaurant; N41°54'45.7", E2°58'5.2", 375m asl; turning stones, 25 October 2013, 1 male, 5 females (CJVK).

## OONOPIDAE

### *Oonops gavarrensis* Bosselaers, 2017

(Figs. 25-26)

Habitus: Photo 219.

#### Material examined

Romanya de la Selva, Menhir de la Murtra, mixed wood; N41°51'25.7", E2°59'9.4", 324m asl; sifting litter, 27 October 2013, 3 males, 1 female, 1 juvenile (CJB-2537). Sant Cebrià de Lledo (Els Metges), Can Gironès, along mountain stream; N41°53'33.0", E2°57'25.7", 295m asl; turning stones, 25 October 2013, 1 female (CJB-2496).

#### Remarks

This species is only known from the Gavarres and was described as new for science by BOSSELAERS (2017). The male palp is illustrated in Figure 25, the epigyne in Figure 26.

### *Oonops placidus* Dalmas, 1916

#### Material examined

Palamós, La Fosca, rocky slope in coastal pine wood; hand capture, 24 March 2013, 1 male (CJB-2070).

### *Silhouetella loricatula* (Roewer, 1942)

Habitus: Photo 233.

#### Material examined

Mont Ras, bridge over small stream in hills; turning stones, 5 June 2012, 1 female (CJB-2772).

#### Remarks

This species was reported from Catalonia for the first time by BARRIENTOS *et al.* (2016).

## OXYOPIDAE

### *Oxyopes lineatus* Latreille, 1806

Habitus: Photos 125, 126.

#### Material examined

Cruilles, Rio Darò, N of road crossing river, river bank; beating vegetation, 28 June 2013, 1 male, 1 female (CJB-2116). Sant Sadurní de l'Heura, stream and field border at road to Els Metges; N41°56'52.5", E2°58'9.2", 87m asl; beating vegetation, 3 July 2013, 1 female (CJB-2222).

### *Oxyopes nigripalpis* Kulczyński, 1891

Habitus: Photos 127, 128.

#### Material examined

Fitor, Mas Cals, maquis at small stream; N41°54'53", E03°04'32", 170m asl; beating vegetation, 1 June 2012, 1 male, 1 female (CJB-2778). Palamós, Cap Gros, coastal pine wood; N41°51'5", E3°8'35.9", 56m asl; beating vegetation,

9 August 2013, 2 females (CJB-2344). Palamós, edge of town, riverside with *Vitex agnus-castus*; N41°51'59.3", E3°7'38.3", 25m asl; beating vegetation, 10 August 2013, 1 female (CJB-2350). Palamós, La Fosca, pine wood on rocks near coast; N41°51'5.6", E3°8'39", 41m asl; beating vegetation, 8 August 2013, 3 females (CJB-2332). Sant Sadurní de l'Heura, river banks of Rio Darò in woods; N41°56'20.8", E2°58'5.0", 86m asl; beating vegetation, 4 July 2013, 1 female (CJB-2258). Same locality, stream and field border at road to Els Metges; N41°56'52.5", E2°58'9.2", 87m asl; beating vegetation, 3 July 2013, 1 female (CJB-2223). Same locality, stream close to village; N41°56'50.7", E2°58'28.7", 95m asl; beating vegetation, 3 July 2013, 1 female (CJB-2237).

#### Remarks

Although *Oxyopes nigripalpis* is more common than *Oxyopes lineatus* in the Gavarres, the species is reported here from Catalonia for the first time. It can be assumed that many specimens have been misidentified as *Oxyopes lineatus* in the past. The differences between both species are diagnosed and illustrated in BARRIENTOS (1984).

## PHILODROMIDAE

### *Philodromus albidus* Kulczyński, 1911

Habitus: Photo 223.

#### Material examined

Fitor, Can Puig, abandoned village, grassland on rocky hilltop; N41°54'0.5", E3°5'55.6", 284m asl; beating vegetation, 2 July 2013, 2 females (CJB-2197).

#### Remarks

This is the first record of this species for Catalonia.

### *Philodromus bistigma* Simon, 1870

Habitus: Photos 137, 138.

#### Material examined

Fitor, Can Puig de Fitor, abandoned hamlet, hilltop with ruined houses; turning stones, 29 May 2012, 1 male, 1 female (CJB-2803). Fitor, Can Puig, at abandoned village, rocky hilltop; N41°54'8.0", E3°5'10.2", 285m asl; beating vegetation, 1 July 2013, 1 male (CJB-2163). Palamós, Cap Gros, grassland with *Spartium junceum*; N41°51'1.7", E3°8'30.3", 40m asl; beating vegetation, 13 July 2012, 2 females (CJB-2791). Sant Cebrià de Lledo (Els Metges), hilltop near restaurant; N41°54'46", E02°58'06", 370m asl; turning stones, 4 June 2012, 1 female (CJB-2638).

#### Remarks

This is the first record of this species for Catalonia.

### *Philodromus dispar* Walckenaer, 1826

Habitus: Photo 224.

#### Material examined

Mont Ras, bridge over small stream in hills; beating vegetation, 5 June 2012, 1 male (CJB-2654).

Palamós, Cap Gros, rocky hilltop at coast; N41°51'0.,9", E03°08'37.2", 75m asl; beating vegetation, 20 July 2012, 1 female (CJB-3123). Romanya de la Selva, Creu de Romanya de la Selva, maquis; N41°51'18.9", E02°59'05.9", 330m asl; beating vegetation, 18 July 2012, 1 female (CJB-3080). Santa Pellaia, track on hillslope in mixed wood; N41°55'11.6", E2°54'57.8", 365m asl; beating vegetation, 4 July 2013, 1 female (CJB-2272).

#### ***Philodromus fuscolimbatus* Lucas, 1846**

Habitus: Photo 225.

##### Material examined

Castell, Puig Boter, maquis near coast; N41°52'8.1", E3°9'42.5", 45m asl; beating vegetation, 11 August 2013, 1 female (CJB-2373). Fitor, Can Puig de Fitor, hilltop; N41°54'06.8", E03°05'17.3", 266m asl; beating vegetation, 19 July 2012, 1 female (CJB-3091). Fitor, Can Puig de Fitor, rocky hilltop; N41°54'8.3", E3°5'13.4", 279m asl; beating vegetation, 16 July 2012, 3 females (CJB-3061). Fitor, Can Puig, abandoned village, rocky hilltop; N41°54'8.0", E3°5'10.2", 285m asl; beating vegetation, 1 July 2013, 2 males, 6 females (CJB-2162). Fitor, Planes d'en Torroella, border of cultivated land; N41°54'37.7", E03°06'16.7", 262m asl; beating vegetation, 23 July 2012, 3 females (CJB-3142). Fitor, Santa Coloma de Fitor, cork oak wood; N41°54'20.6", E3°5'11.3", 243m asl; beating vegetation, 1 July 2013, 1 female (CJB-2127). Fitor, Santa Coloma de Fitor, dolmen del Llobinar, cork oak wood; N41°54'15.2", E3°5'3.5", 274m asl; beating vegetation, 1 July 2013, 1 male, 1 female, 1 subadult female (CJB-2152). Fitor, Santa Coloma de Fitor, track to dolmen del Llobinar, cork oak wood; N41°54'18.4", E3°5'0.3", 244m asl; beating vegetation, 1 July 2013, 2 males, 12 females, 1 subadult female (CJB-2131). Llofriú, track to hilltop; N41°55'45.4", E3°7'2.7", 182m asl; beating vegetation, 5 July 2013, 2 females (CJB-2301). Mont Ras, along river; N41°54'13", E03°07'47.2", 87m als.; beating vegetation, 12 July 2012, 3 females (CJB-2995). Palamós, edge of town, riverside with *Vitex agnus-castus*; N41°51'59.3", E3°7'38.3", 25m als.; beating vegetation, 10 August 2013, 2 females (CJB-2361). Romanya de la Selva, Creu de Romanya de la Selva, maquis; N41°51'18.9", E02°59'05.9", 330m asl; beating vegetation, 18 July 2012, 6 females (CJB-3079). Sant Sadurní de l'Heura, river banks of Rio Darò in woods; N41°56'20.8", E2°58'5.0", 86m asl; beating vegetation, 4 July 2013, 1 male, 3 females (CJB-2252). Same locality, stream and field border at road to Els Metges; N41°56'52.5", E2°58'9.2", 87m als.; beating vegetation, 3 July 2013, 2 males, 5 females, 1 subadult female (CJB-3609). Fitor, Can Puig, abandoned village, grassland on rocky hilltop; N41°54'0.5", E3°5'55.6", 284m asl; beating vegetation, 2 July 2013, 2 males, 1 female (CJB-

3608). Llofriú, track to Fitor; beating vegetation, 5 July 2013, 1 female (CJB-3611).

##### Remarks

The *Philodromus aureolus* group is notoriously difficult. *Philodromus fuscolimbatus*, *Philodromus lividus* Simon, 1875, *Philodromus aureolus* (Clerck, 1757) and *Philodromus cespitum* (Walckenaer, 1802) are very similar and careful study of the genitals is necessary for a correct identification. As MUSTER & THALER (2004) point out, the Northern species *Philodromus aureolus* and *Philodromus cespitum* are rare in the Mediterranean. It is very probable that almost all reports of *Philodromus aureolus* and *Philodromus cespitum* from the Iberian Peninsula (MORANO et al. 2014) are misidentifications. Although the abdominal pattern is somewhat variable, *Philodromus fuscolimbatus* can mostly be recognised in the field by the presence of three longitudinal, chocolate-brown marks on the abdomen (Photo 225). Quite surprisingly, this extremely common species is reported from Catalonia for the first time here.

#### ***Philodromus lividus* Simon, 1875**

Habitus: Photo 226.

##### Material examined

Cruilles, Rio Darò, river bank; N41°56'30.5", E03°00'18.3", 55m asl; beating vegetation, 24 July 2012, 1 female (CJB-3153). Els Angels, mixed wood past monastery; N41°58'54.1", E2°54'16.2", 452m asl; beating vegetation, 13 August 2013, 2 females (CJB-2390). Same locality, N41°59'0.9", E2°54'4.5", 439m asl; beating vegetation, 14 August 2013, 1 female (CJB-2408). Fitor, Can Puig, abandoned village, grassland on rocky hilltop; N41°54'0.5", E3°5'55.6", 284m asl; beating vegetation, 2 July 2013, 3 females (CJB-2196). Llofriú, track to Fitor; beating vegetation, 5 July 2013, 3 females (CJB-2283). Sant Sadurní de l'Heura, stream and field border at road to Els Metges; N41°56'52.5", E2°58'9.2", 87m als.; beating vegetation, 3 July 2013, 1 female (CJB-2228). Sant Sadurní de l'Heura, river banks of Rio Darò in woods; N41°56'20.8", E2°58'5.0", 86m asl; beating vegetation, 4 July 2013, 1 female (CJB-3610). Santa Pellaia, track on hillslope in mixed wood; N41°55'11.6", E2°54'57.8", 365m als.; beating vegetation, 4 July 2013, 1 male, 3 females (CJB-2271). Fitor, Santa Coloma de Fitor, dolmen del Llobinar, cork oak wood; N41°54'15.2", E3°5'3.5", 274m asl; beating vegetation, 1 July 2013, 1 male, 1 female (CJB-3595). Llofriú, track to hilltop; N41°55'45.4", E3°7'2.7", 182m asl; beating vegetation, 5 July 2013, 1 female (CJB-3604). Fitor, Can Puig de Fitor, rocky hilltop; N41°54'8.3", E3°5'13.4", 279m asl; beating vegetation, 16 July 2012, 1 female (CJB-3605). Romanya de la Selva, Creu de Romanya de la Selva, maquis; N41°51'18.9", E02°59'05.9", 330m

asl; beating vegetation, 18 July 2012, 2 females (CJB-3606). Fitor, Can Puig, abandoned village, rocky hilltop; N41°54'8.0", E3°5'10.2", 285m asl; beating vegetation, 1 July 2013, 1 female (CJB-3607).

#### Remarks

As Segers (1992) points out, *Philodromus lividus* is a Western Mediterranean species. It can be recognised in the field by its pale abdomen showing only a hint of the chocolate-brown marks so typical for *Philodromus fuscolimbatus* (Photo 226).

### ***Tibellus macellus* Simon, 1875**

Habitus: Photo 241.

#### Material examined

Mont Ras, bridge over small stream in hills; beating vegetation, 5 June 2012, 1 male (CJB-2653). Palamós, Cap Gros, coastal pine wood; N41°51'5", E3°8'35.9", 56m asl; beating vegetation, 13 July 2012, 1 female (CJB-3000).

#### Remarks

This is the first record of this species for Catalonia.

## **PHOLCIDAE**

### ***Pholcus opilionoides* (Schrank, 1781)**

Habitus: Photos 143, 144.

#### Material examined

Cruilles, Rio Darò, N of road crossing river, river bank; beating vegetation, 28 June 2013, 1 female (CJB-2119). Els Angels, mixed wood past monastery; N41°58'55.8", E2°54'11.0", 440m asl; turning stones, 14 August 2013, 1 female (CJB-2418). Fitor, Can Puig, abandoned village, old cattle pond at rocky hilltop; N41°54'8.1", E3°5'19.0", 279m asl; turning stones, 2 July 2013, 2 males, 2 females (CJB-2206).

### ***Spermophora senoculata* (Dugès, 1836)**

#### Material examined

Romanya de la Selva, Dolmen Cova d'en Daina, mixed wood; turning stones, 27 October 2013, 1 female (CJVK).

### ***Spermophorides mediterranea* (Senglet, 1973)**

Habitus: Photos 159, 160.

#### Material examined

Fitor, Mas Playa, maquis near water container; N41°54'56.2", E3°5'31.0", 246m asl; beating vegetation, 26 October 2013, 1 male (CJB-2515). Palamós, Cap Gros, coastal pine wood; N41°51'5", E3°8'35.9", 56m asl; beating vegetation, 13 July 2012, 3 females (CJB-3004). Palamós, Cap Gros, grassy hillside with shrubs and pine trees; N41°51'0.8", E3°8'29.1", 41m asl; beating vegetation, 22 October 2013, 4 males, 3 females, 1 juvenile (CJVK). Palamós, Cap Gros, rocky coastal hillside with shrubs and pine trees; N41°51'00.2", E03°08'31.4", 52m asl; beating vegetation, 20 July 2012, 2 females, 1 juvenile (CJB-3110). Palamós,

Cap Gros, rocky hilltop at coast; N41°51'0.,9", E03°08'37.2", 75m asl; beating vegetation, 20 July 2012, 1 male, 1 female (CJB-3118). Palamós, edge of town, riverside with *Vitex agnus-castus*; N41°51'59.3", E3°7'38.3", 25m asl; beating vegetation, 10 August 2013, 1 female (CJB-2354). Palamós, La Fosca, pine wood on rocks near coast; N41°51'5.6", E3°8'39", 41m asl; beating vegetation, 8 August 2013, 2 males, 4 females (CJB-2333). Palamós, La Fosca, rocky bay at sea, at base of pine tree; N41°51'12.5", E03°08'40.2", 20m asl; pitfall trap, 30 March - 7 July 2013, 1 male (CJB-2318). Romanya de la Selva, Creu de Romanya de la Selva, maquis; N41°51'18.9", E02°59'05.9", 330m asl; beating vegetation, 18 July 2012, 1 female (CJB-3086). Romanya de la Selva, Menhir de la Murtra, mixed wood; N41°51'25.7", E2°59'9.4", 324m asl; beating vegetation, 27 October 2013, 2 females, 1 juvenile (CJB-2546); same data, 6 females (CJVK). Vall Llobrega, along hilltrack in maquis; beating vegetation, 10 August 2013, 1 male (CJB-2365).

#### Remarks

It is surprising that this charming little species, which is common on *Erica arborea* and other bushes in the Gavarres and (especially) in the adjacent coastal region, has not been described until 1973. It is also puzzling that this species has only been reported to date from two localities in France and one in Spain (Senglet 1973). The species is reported from Catalonia for the first time here.

## **PHRUROLITHIDAE**

### ***Liophrurillus flavitarsis* (Lucas, 1846)**

Habitus: Photos 105, 106.

#### Material examined

Cruilles, Rio Darò, pine wood on river bank; N41°56'40.6", E03°00'41.2", 50m asl; sifting litter, 23 October 2013, 1 male (CJB-2468). Cruilles, Rio Darò, river bank; sifting litter, 29 March 2013, 1 male (CJB-2101). Els Angels, mixed wood past monastery; N41°58'54.3", E02°54'15.8", 444m asl; sifting litter, 24 October 2013, 1 male (CJB-2476); same data, turning stones, 1 male (CJVK). Fitor, Santa Coloma de Fitor, cork oak wood; N41°54'20.6", E3°5'11.3", 243m asl; turning stones, 1 July 2013, 2 females (CJB-2128). Mont Ras, N41°54'31.0", E03°07'42.5", 130m asl; turning stones, 30 May 2012, 2 females (CJB-2730). Montnegre, roadside on hilltop; N41°57'29.7", E2°55'51.7", 312m asl; sifting litter, 16 August 2013, 1 female (CJB-2428). Montnegre, roadside on hilltop; N41°57'29.4", E2°55'51.7", 324m asl; sifting litter, 24 October 2013, 1 male, 5 juveniles (CJB-2487). Palamós, Cap Gros, pile of bricks next to ruin; N41°51'0.8", E3°8'29.1", 41m asl; turning stones, 22 October 2013, 1 male (CJB-2452). Palamós, between Cap Gros and La Fosca, coastal pine wood; turning stones, 26 May 2012, 1 female

(CJB-2859). Palamós, La Fosca, rocky bay at sea, rocky slope; N41°51'12.5", E03°08'40.0", 20m asl; pitfall trap, 30 March - 7 July 2013, 1 male (CJB-2313). Palamós, La Fosca, at base of pine tree; N41°51'12.4", E03°08'40.2", 15m asl; pitfall trap, 25 May - 15 July 2012, 1 female (CJB-3016); same data, pitfall trap, 15 - 22 July 2012, 1 female (CJB-3131). Sant Cebrià de Lledo (Els Metges), hilltop near restaurant; N41°54'45.7", E2°58'5.2", 375m asl; turning stones, 24 October 2013, 1 male (CJVK). Sant Sadurní de l'Heura, river banks of Rio Darò in woods; N41°56'20.8", E2°58'5.0", 86m asl; turning stones, 4 July 2013, 3 females (CJB-2248).

#### Remarks

This presently common species has been increasing in numbers in the region in recent years. It was reported from Catalonia for the first time by BARRIENTOS & FERNANDEZ (2015).

### ***Phrurolithus minimus* C. L. Koch, 1839**

#### Material examined

Palamós, between Cap Gros and La Fosca, coastal pine wood; turning stones, 26 May 2012, 2 females (CJB-2835).

## **PISAURIDAE**

### ***Pisaura mirabilis* (Clerck, 1757)**

Habitus: Photo 228.

#### Material examined

Sant Sadurní de l'Heura, stream close to village; N41°56'50.7", E2°58'28.7", 95m asl; beating vegetation, 3 July 2013, 1 female, 2 juveniles (CJB-2235).

## **SALTICIDAE**

### ***Ballus chalybeius* (Walckenaer, 1802)**

Habitus: Photos 23, 24.

#### Material examined

Fitor, Can Puig de Fitor, hilltop; N41°54'06.8", E03°05'17.3", 266m asl; beating vegetation, 19 July 2012, 1 female (CJB-3095). Fitor, Santa Coloma de Fitor, dolmen del Llobinar, cork oak wood; N41°54'15.2", E3°5'3.5", 274m asl; beating vegetation, 1 July 2013, 1 male, 1 female (CJB-2156). Mont Ras, along river; N41°54'13", E03°07'47.2", 87m asl; beating vegetation, 12 July 2012, 1 female (CJB-2989). Palamós, Cap Gros, coastal pine wood; N41°51'5", E3°8'35.9", 56m asl; beating vegetation, 13 July 2012, 1 female (CJB-3002). Palamós, Cap Gros, grassland with *Spartium junceum*; N41°51'1.7", E3°8'30.3", 40m asl; beating vegetation, 13 July 2012, 1 female (CJB-2783). Sant Sadurní de l'Heura, river banks of Rio Darò in woods; N41°56'20.8", E2°58'5.0", 86m asl; beating vegetation, 4 July 2013, 1 female (CJB-2256). Same locality, stream close to village;

N41°56'50.7", E2°58'28.7", 95m asl; beating vegetation, 3 July 2013, 1 female (CJB-2243).

### ***Ballus rufipes* (Simon, 1868)**

#### Material examined

Fitor, Santa Coloma de Fitor, track to dolmen del Llobinar, cork oak wood; N41°54'18.4", E3°5'0.3", 244m asl; beating vegetation, 1 July 2013, 1 female (CJB-2140). Romanya de la Selva, maquis; N41°51'28.8", E02°59'03.6", 332m asl; beating vegetation, 25 July 2012, 1 female (CJB-3169).

#### Remarks

This species is reported here from Catalonia for the first time. Most probably, it has been found before, but misidentified as *Ballus chalybeius*. The diagnostic differences between this species and the closely related *Ballus chalybeius* can be found in METZNER (1999: 40-41).

### ***Carphotus xanthogramma* (Latreille, 1819)**

Habitus: Photos 25, 26.

#### Material examined

Romanya de la Selva, Creu de Romanya de la Selva, maquis; N41°51'18.9", E02°59'05.9", 330m asl; beating vegetation, 18 July 2012, 1 female (CJB-3078).

### ***Chalcoscirtus infimus* (Simon, 1868)**

#### Material examined

Cruilles, Rio Darò, river bank; turning stones, 6 June 2012, 2 females (CJB-2743).

### ***Cyba algerina* (Lucas, 1846)**

Habitus: Photos 45, 46.

#### Material examined

Fitor, Mas Cals, maquis at small stream; N41°54'53", E03°04'32", 170m asl; hand capture, 1 June 2012, 2 females (CJB-2779); same data, turning stones, 1 male (CJB-2849). Fitor, Mas Cals, rocky slope along hilltrack; N41°54'52.8", E03°05'01.6", 190m asl; turning stones, 8 males, 3 females, 1 juvenile (CJB-2750).

#### Remarks

This rather common and striking salticid was reported from Catalonia for the first time by BARRIENTOS *et al.* (2016).

### ***Euophrys herbigrada* (Simon, 1871)**

#### Material examined

Palamós, between Cap Gros and La Fosca, coastal pine wood; hand capture, 26 May 2012, 1 female (CJB-2774).

#### Remarks

*Euophrys* C. L. Koch 1834 is a difficult genus. It encompasses many species, a number of them being rather rare and poorly, or not at all, illustrated. Moreover, genitalic differences between individual species are often small. As a result, somatic characters are paramount in distinguishing species, a phenomenon which is unusual in

arachnology. After all these years, the dichotomous key in SIMON (1937) is still the best one for an accurate identification of the Mediterranean species.

***Euophrys innotata* (Simon, 1868)** (Fig. 29)

Habitus: Photos 69-71.

Material examined

Fitor, Mas Cals, rocky slope along hilltrack; N41°54'52.8", E03°05'01.6", 190m asl; turning stones, 31 May 2012, 1 female (CJB-2855). Fitor, Can Puig de Fitor, rocky hilltop; N41°54'8.3", E3°5'13.4", 279m asl; turning stones, 26 October 2013, 1 female (CJB-2528).

Remarks

*Euophrys innotata* females are recognisable by their pale yellow palps and dark brown chelicerae (contrary to *Euophrys sulphurea* (L. Koch, 1867), which has pale chelicerae). Although *Euophrys innotata* has been described 150 years ago, not a single illustration of its genitalic structures has been published. The epigyne is illustrated here for the first time (Figure 29).

This is the first record of *Euophrys innotata* from Catalonia.

***Euophrys nigripalpis* Simon, 1937** (Figs. 27-30)

Habitus: Photos 72-74.

Material examined

Fitor, Mas Cals, near stream crossing hilltrack; N41°54'47.1", E03°05'04.6", 180m asl; hand capture, 26 May 2012, 1 female (CJB-2776). Palamós, La Fosca, rocky bay at sea, at base of pine tree; N41°51'12.4", E03°08'40.5", 15m asl; pitfall trap, 6 August - 22 October 2013, 1 female (CJB-2448). Cruilles, Rio Darò, river bank; sifting litter, 23 May 2009, 6 males, 2 females (CJB-3236).

Remarks

Males (Photo 72) of this species are recognised by their black integuments, black legs with yellow tarsi, clypeus covered by vivid orange hairs, and dark blue iridescent palps (black according to SIMON (1937). Illustrations can be found in OGER (2017) and PROSZYNNSKI (2016). Females were considered unknown by SIMON (1937), but have in the meantime been illustrated by PROSZYNNSKI (2016). The capture of six males and two females on the same spot in Cruilles, 2009, confirms this conspecificity. Females are very dark, with black legs, pale brown tarsi and pale brown hairs covering carapace and abdomen (Photos 73-74). The male palp (Figure 27, 28) and epigyne (Figure 30) are illustrated here.

This is the first record of this species from Spain. *Euophrys nigripalpis* was mentioned from the Iberian Peninsula for the first time by LISSNER (2017a).

***Evarcha jucunda* (Lucas, 1846)**

Habitus: Photos 77, 78.

Material examined

Castell, Puig Boter, maquis near coast; N41°52'8.1", E3°9'42.5", 45m asl; beating vegetation, 11 August 2013, 1 male (CJB-2367). Els Angels, mixed wood past monastery; N41°58'54.0", E2°54'16.0", 452m asl; sifting litter, 14 August 2013, 1 female (CJB-2414). Fitor, Can Puig de Fitor, rocky hilltop; N41°54'8.3", E3°5'13.4", 279m asl; beating vegetation, 16 July 2012, 1 female (CJB-3060). Can Puig de Fitor, abandoned hamlet, hilltop with ruined houses; beating vegetation, 29 May 2012, 1 male (CJB-2762). Fitor, Mas Cals, maquis at small stream; N41°54'53", E03°04'32", 170m asl; turning stones, 1 June 2012, 1 female (CJB-2840). Fitor, Mas Playa, maquis near water container; N41°54'56.2", E3°5'31.0", 246m asl; beating vegetation, 26 October 2013, 2 juveniles (CJB-2516). Fitor, Planes d'en Torroella, border of cultivated land; N41°54'37.7", E03°06'16.7", 262m asl; beating vegetation, 23 July 2012, 1 male, 1 female (CJB-3140). Fitor, Santa Coloma de Fitor, track to dolmen del Llobinar, cork oak wood; N41°54'18.4", E3°5'0.3", 244m asl; beating vegetation, 1 July 2013, 1 male (CJB-2139). Llofriú, track to hilltop; N41°55'45.4", E3°72.7", 182m asl; beating vegetation, 5 July 2013, 2 males, 3 females, 1 subadult female (CJB-2290). Mont Ras, along river; N41°54'13", E03°07'47.2", 87m asl; beating vegetation, 12 July 2012, 1 female (CJB-2988). Mont Ras, former quarry with pond; N41°54'55.1", E3°8'25.6", 103m asl; beating vegetation, 23 October 2013, 1 male (CJB-2460); same data, beating vegetation, 28 October 2013, 1 female, 1 subadult female, 2 juveniles (CJB-2558). Palamós, Cap Gros, coastal pine wood; N41°51'5", E3°8'35.9", 56m asl; beating vegetation, 9 August 2013, 1 male, 2 females (CJB-2341); same data, beating vegetation, 13 July 2012, 1 male, 1 female, 1 juvenile (CJB-2998). Palamós, Cap Gros, grassland with *Spartium junceum*; N41°51'1.7", E3°8'30.3", 40m asl; beating vegetation, 9 August 2013, 1 female (CJB-2339); same data, beating vegetation, 13 July 2012, 1 female, 1 subadult female (CJB-2785). Palamós, Cap Gros, grassy hillside with shrubs and pine trees; N41°51'0.8", E3°8'29.1", 41m asl; beating vegetation, 22 October 2013, 2 females (CJVK). Palamós, Cap Gros, rocky coastal hillside with shrubs and pine trees; N41°51'00.2", E03°08'31.4", 52m asl; beating vegetation, 22 July 2012, 4 males, 2 females (CJB-3107). Palamós, Cap Gros, rocky hilltop at coast; N41°51'0.,9", E03°08'37.2", 75m asl; beating vegetation, 20 July 2012, 2 males, 2 females (CJB-3127). Palamós, edge of town, riverside with *Vitex agnus-castus*; N41°51'59.3", E3°7'38.3", 25m asl; beating vegetation, 10 August 2013, 1 male, 2 females (CJB-2349). Palamós, La Fosca, pine wood on rocks near coast; N41°51'5.6", E3°8'39", 41m asl; beating vegetation, 8 August 2013, 1 male

(CJB-2336). Palamós, La Fosca, rocky bay at sea, rocky slope; N41°51'12.5", E03°08'40.0", 20m asl; pitfall trap, 30 March - 7 July 2013, 1 male (CJB-2314). Same locality, at base of pine tree; N41°51'12.4", E03°08'40.5", 15m asl; pitfall trap, 26 July 2012 - 24 March 2013, 2 females (CJB-2088); same data, pitfall trap, 15 - 22 July 2012, 1 male (CJB-3136). Same locality, at base of pine tree; N41°51'12.4", E03°08'40.2", 15m asl; pitfall trap, 7 July - 6 August 2013, 1 female (CJB-2326); same data, pitfall trap, 6 August - 22 October 2013, 1 female (CJB-2444); same data, pitfall trap, 25 May - 15 July 2012, 1 female (CJB-3034). Romania de la Selva, maquis; N41°51'28.8", E02°59'03.6", 332m asl; beating vegetation, 25 July 2012, 1 female (CJB-3168). Romania de la Selva, Creu de Romania de la Selva, maquis; N41°51'18.9", E02°59'05.9", 330m asl; beating vegetation, 18 July 2012, 2 females (CJB-3077). Romania de la Selva, maquis near village; N41°51'23.9", E2°59'3.0", 340m asl; beating vegetation, 27 October 2013, 1 male (CJB-2551). Sant Cebrià de Lledo (Els Metges), Can Gironès, along mountain stream; N41°53'33.0", E2°57'25.7", 295m asl; beating vegetation, 12 August 2013, 1 male (CJB-2378). Sant Sadurní de l'Heura, stream and field border at road to Els Metges; N41°56'52.5", E2°58'9.2", 87m asl; beating vegetation, 3 July 2013, 1 male (CJB-2225). Vall Llobregat, along hilltrack in maquis; beating vegetation, 10 August 2013, 2 females (CJB-2363).

#### *Heliophanus apiatus* Simon, 1868

Habitus: Photos 85, 86.

##### Material examined

Cruilles, Rio Darò, river bank; beating vegetation, 6 June 2012, 1 female (CJB-2633); same data, turning stones, 1 female (CJB-2740). Rio Darò, N of road crossing river, river bank; beating vegetation, 28 June 2013, 1 male, 3 females (CJB-2111). Mont Ras, former quarry with pond; N41°54'55.1", E3°8'25.6", 103m asl; beating vegetation, 23 October 2013, 5 males (CJB-2461). Same locality, beating vegetation, 28 October 2013, 1 male (CJVK). Palamós, Cap Gros, grassy hillside with shrubs and pine trees; N41°51'0.8", E3°8'29.1", 41m asl; beating vegetation, 22 October 2013, 1 male (CJB-2456). Palamós, edge of town, riverside with Vitex agnus-castus; N41°51'59.3", E3°7'38.3", 25m asl; beating vegetation, 10 August 2013, 1 female (CJB-2352).

#### *Heliophanus cupreus* (Walckenaer, 1802)

##### Material examined

Cruilles, Rio Darò, river bank; N41°56'36.9", E03°00'37.8", 60m asl; beating vegetation, 24 July 2012, 1 female (CJB-3163). Cruilles, Rio Darò, N of road crossing river, river bank; beating vegetation, 28 June 2013, 1 male, 1 female (CJB-2112). Fitor, Mas Cals, along stream crossing

hilltrack; N41°54'41", E03°05'11", 180m asl; turning stones, 31 May 2012, 1 male (CJB-2725).

#### *Heliophanus kochii* Simon, 1868

Habitus: Photo 208.

##### Material examined

Palamós, Cap Gros, rocky coastal hillside with shrubs and pine trees; N41°51'00.2", E03°08'31.4", 52m asl; beating vegetation, 20 July 2012, 1 male, 1 female (CJB-3113). Palamós, between Cap Gros and La Fosca, coastal pine wood; turning stones, 26 May 2012, 1 male (CJB-2832).

#### *Heliophanus tribulosus* Simon, 1868

Habitus: Photos 87, 88.

##### Material examined

Castell, Puig Boter, maquis near coast; beating vegetation, 25 March 2013, 1 male, 1 female (CJB-2082). Castell, Puig Boter, maquis near coast; N41°52'8.1", E3°9'42.5", 45m asl; beating vegetation, 11 August 2013, 2 females (CJB-2374). Cruilles, Rio Darò, river bank; N41°56'30.5", E03°00'18.3", 55m asl; beating vegetation, 24 July 2012, 1 male (CJB-3156). Els Angels, mixed wood past monastery; N41°58'54.1", E2°54'16.2", 452m asl; beating vegetation, 13 August 2013, 5 females (CJB-2397). Fitor, Can Puig de Fitor, rocky hilltop; N41°54'8.3", E3°5'13.4", 279m asl; beating vegetation, 16 July 2012, 2 females (CJB-3059). Fitor, Can Puig, abandoned village, grassland on rocky hilltop; N41°54'0.5", E3°5'55.6", 284m asl; beating vegetation, 2 July 2013, 1 male (CJB-2193). Fitor, Mas Cals, maquis at small stream; N41°54'53", E03°04'32", 170m asl; turning stones, 1 June 2012, 2 males, 1 female (CJB-2848). Fitor, Mas Cals, near stream crossing hilltrack; N41°54'50.2", E3°5'1.2", 174m asl; beating vegetation, 15 August 2013, 1 male (CJB-2421). Mas Cals, rocky slope along hilltrack; N41°54'52.8", E03°05'01.6", 190m asl; turning stones, 31 May 2012, 1 male (CJB-2751). Fitor, Planes d'en Torroella, border of cultivated land; N41°54'37.7", E03°06'16.7", 262m asl; beating vegetation, 23 July 2012, 1 female (CJB-3141). Fitor, Santa Coloma de Fitor, track to dolmen del Llobinar, cork oak wood; N41°54'18.4", E3°5'0.3", 244m asl; beating vegetation, 1 July 2013, 1 male, 2 females (CJB-2141). Llofriú, track to Fitor. Beating vegetation, 5 July 2013, 1 male, 2 females (CJB-2286). Llofriú, track to hilltop; N41°55'45.4", E3°7'2.7", 182m asl; beating vegetation, 5 July 2013, 1 male, 1 female (CJB-2295). Mont Ras, along river; N41°54'13", E03°07'47.2", 87m asl; beating vegetation, 12 July 2012, 1 male, 2 females, 1 juvenile (CJB-2991). Palamós, Cap Gros, coastal pine wood; N41°51'5", E3°8'35.9", 56m asl; beating vegetation, 13 July 2012, 1 female (CJB-3001). Palamós, Cap Gros, grassland with *Spartium junceum*; N41°51'1.7", E3°8'30.3", 40m asl; beating vegetation, 13 July 2012, 1 male, 3 females, 1

juvenile (CJB-2784). Palamós, Cap Gros, grassy hillside with shrubs and pine trees; N41°51'0.8", E3°8'29.1", 41m asl; beating vegetation, 22 October 2013, 1 male (CJB-2457). Palamós, Cap Gros, rocky coastal hillside with shrubs and pine trees; N41°51'00.2", E03°08'31.4", 52m asl; beating vegetation, 20 July 2012, 2 females (CJB-3114). Palamós, Cap Gros, rocky hilltop at coast; N41°51'0.,9", E03°08'37.2", 75m asl; beating vegetation, 20 July 2012, 1 female (CJB-3125). Palamós, between Cap Gros and La Fosca, coastal pine wood; turning stones, 26 May 2012, 1 male (CJB-2831). Palamós, edge of town, riverside with *Vitex agnus-castus*; N41°51'59.3", E3°7'38.3", 25m asl; beating vegetation, 10 August 2013, 1 female (CJB-2353). Palamós, La Fosca, rocky bay at sea, at base of pine tree; N41°51'12.5", E03°08'40.2", 20m asl; pitfall trap, 25 May - 15 July 2012, 1 female (CJB-3053). Palamós, La Fosca, rocky slope in coastal pine wood; hand capture, 24 March 2013, 1 male (CJB-2072). Sant Sadurní de l'Heura, stream and field border at road to Els Metges; N41°56'52.5", E2°58'9.2", 87m asl; beating vegetation, 3 July 2013, 1 female (CJB-2213); same data, 1 female (CJB-2224). Santa Pellaia, track on hillslope in mixed wood; N41°55'11.6", E2°54'57.8", 365m asl; beating vegetation, 4 July 2013, 1 male, 1 female (CJB-2268).

#### ***Icius hamatus* (C.L. Koch, 1846)**

Habitus: Photos 95, 96.

##### Material examined

Castell, Puig Boter, maquis near coast; N41°52'8.1", E3°9'42.5", 45m asl; beating vegetation, 11 August 2013, 1 female (CJB-2368). Cruilles, Rio Darò, river bank; N41°56'30.5", E03°00'18.3", 55m asl; beating vegetation, 24 July 2012, 1 male (CJB-3157). Cruilles, Rio Darò, N of road crossing river, river bank; beating vegetation, 28 June 2013, 1 male (CJB-2109). Can Puig de Fitor, hilltop; N41°54'03.2", E03°05'19.5", 258m asl; beating vegetation, 19 July 2012, 1 male (CJB-3105). Fitor, Can Puig, at abandoned village, rocky hilltop; N41°54'8.0", E3°5'10.2", 285m asl; beating vegetation, 1 July 2013, 1 male (CJB-2171). Fitor, Mas Cals, maquis at small stream; N41°54'53", E03°04'32", 170m asl; beating vegetation, 1 June 2012, 1 female (CJB-2673). Llofriú, track to hilltop; N41°55'45.4", E3°7'2.7", 182m asl; beating vegetation, 5 July 2013, 2 males (CJB-2296). Palamós, edge of town, riverside with *Vitex agnus-castus*; N41°51'59.3", E3°7'38.3", 25m asl; beating vegetation, 10 August 2013, 1 male, 1 female (CJB-2351). Sant Sadurní de l'Heura, stream close to village; N41°56'50.7", E2°58'28.7", 95m asl; beating vegetation, 3 July 2013, 1 male (CJB-2244).

#### ***Icius subinermis* Simon, 1937**

##### Material examined

Cruilles, Rio Darò, river bank; beating vegetation, 6 June 2012, 1 male, 2 females (CJB-2679). Cruilles, Rio Darò, N of road crossing river, river bank; beating vegetation, 28 June 2013, 1 male, 2 females (CJB-3643).

##### Remarks

*Icius subinermis* seems to prefer moister habitats than *Icius hamatus* in the region of the Gavarres.

#### ***Leptorcheates berolinensis* (C. L. Koch, 1846)**

(Fig. 31)

Habitus: Photo 212.

##### Material examined

Sant Sadurní de l'Heura, stream close to village; N41°56'50.7", E2°58'28.7", 95m asl; beating vegetation , 3 July 2013, 1 female (CJB-2245).

##### Remarks

This is the first record of this species for Catalonia. The epigyne is illustrated here (Figure 31).

#### ***Leptorcheates peresi* (Simon, 1868) (Figs. 32-34)**

Habitus: Photo 213.

##### Material examined

Els Angels, mixed wood past monastery; N41°58'54.1", E2°54'16.2", 452m asl; beating vegetation, 13 August 2013, 1 female (CJB-2398). Llofriú, track to hilltop; N41°55'45.4", E3°7'2.7", 182m asl; beating vegetation, 5 July 2013, 1 female (CJB-2297). Romanya de la Selva, Dolmen Cova d'en Daina, mixed wood; beating vegetation, 27 October 2013, 1 male (CJVK). Santa Pellaia, track on hillslope in mixed wood; N41°55'11.6", E2°54'57.8", 365m asl; beating vegetation, 4 July 2013, 2 females (CJB-2267).

##### Remarks

These are the first records of this uncommon species from Catalonia. There used to be considerable confusion about the true identity of the different *Leptorcheates* species. This was set straight in WESOLOWSKA & SZEREMETA (2001). The male palp (Figure 32, 33) and epigyne (Figure 34) are illustrated here.

#### ***Macaroeris nidicolens* (Walckenaer, 1802)**

Habitus: Photo 215.

##### Material examined

Palamós, Cap Gros, grassland with *Spartium junceum*; N41°51'1.7", E3°8'30.3", 40m asl; beating vegetation, 13 July 2012, 1 female (CJB-2786).

#### ***Neaetha membrosa* (Simon, 1868)**

Habitus: Photo 216.

##### Material examined

Cruilles, Rio Darò, dried out river bed; N41°56'33", E03°00'27", 50m asl; beating vegetation, 23 October 2013, 1 male (CJVK).

#### ***Phlegra bresnieri* (Lucas, 1846)**

Habitus: Photos 139, 140.

#### Material examined

Cruilles, Rio Darò, river bank; N41°56'36.9", E03°00'37.8", 60m asl; turning stones, 24 July 2012, 1 female (CJB-3164). Fitor, Mas Cals, maquis at small stream; N41°54'53", E03°04'32", 170m asl; turning stones, 1 June 2012, 1 female (CJB-2845). Mont Ras, former quarry with pond; N41°54'55.1", E3°8'25.6", 103m asl; beating vegetation, 27 October 2013, 1 female (CJVK).

#### Remarks

*Phlegra bresnieri* seems to prefer moister habitats than *Phlegra fasciata* in the region of the Gavarres.

#### ***Phlegra fasciata* (Hahn, 1826)**

Habitus: Photos 141, 142.

#### Material examined

Mont Ras, N41°54'31.0", E03°07'42.5", 130m asl; turning stones, 30 May 2012, 1 female (CJB-2731). Palamós, La Fosca, rocky bay at sea, rocky slope; N41°51'12.5", E03°08'40.0", 20m asl; pitfall trap, 6 August - 22 October 2013, 1 male (CJB-2439).

#### Remarks

The diagnostic differences between *Phlegra fasciata* and *Phlegra bresnieri* can be found in METZNER (1999: 67-69). *Phlegra fasciata* females have broader abdominal stripes that are not clearly lined with orange, as well as annulated legs. Moreover, *Phlegra fasciata* males are almost completely black, while *Phlegra bresnieri* males are striped, like the females of that species (Photos 139-142). *Phlegra fasciata* was first reported from Catalonia by BARRIENTOS *et al.* (2015).

#### ***Saitis barbipes* (Simon, 1868)**

Habitus: Photos 153, 154.

#### Material examined

Els Angels, mixed wood past monastery; N41°58'54.3", E02°54'15.8", 444m asl; pitfall trap, 14 August - 24 October 2013, 2 females (CJB-2472). Fitor, Can Puig de Fitor, hilltop; N41°54'06.8", E03°05'17.3", 266m asl; beating vegetation, 19 July 2012, 1 male (CJB-3092). Fitor, Can Puig de Fitor, rocky hilltop; N41°54'8.3", E3°5'13.4", 279m asl; turning stones, 16 July 2012, 1 female (CJB-3071). Fitor, Can Puig de Fitor, abandoned hamlet, hilltop with ruined houses; turning stones, 29 May 2012, 2 males (CJB-2804). Fitor, Mas Cals, along stream crossing hilltrack; N41°54'41", E03°05'11", 180m asl; turning stones, 31 May 2012, 1 male (CJB-2724). Fitor, Mas Cals, maquis at small stream; N41°54'53", E03°04'32", 170m asl; turning stones, 1 June 2012, 2 males, 2 females (CJB-2839). Fitor, Mas Cals, near stream crossing hilltrack; N41°54'47.1", E3°5'4.6", 180m asl; pitfall trap, 15 August - 26 October 2013, 1 male (CJB-2506). Fitor, Planes d'en Torroella, border of cultivated land; N41°54'37.7", E03°06'16.7", 262m asl; beating vegetation, 23 July 2012, 2 females (CJB-3138). Mont Ras, along river, N41°54'13", E03°07'47.2", 87m asl; beating

vegetation, 12 July 2012, 3 females (CJB-2987). Mont Ras, bridge over small stream in hills; beating vegetation, 5 June 2012, 1 female (CJB-2647); same data, turning stones, 1 male, 2 females (CJB-2765). Mont Ras, N41°54'31.0", E03°07'42.5", 130m asl; turning stones, 30 May 2012, 1 male (CJB-2728). Palamós, Cap Gros, coastal pine wood; N41°51'5", E3°8'35.9", 56m asl; beating vegetation, 9 August 2013, 1 female (CJB-2342). Palamós, Cap Gros, coastal pine wood; N41°51'5", E3°8'35.9", 56m asl; beating vegetation, 13 July 2012, 3 females (CJB-2997). Palamós, between Cap Gros and La Fosca, coastal pine wood, 26 May 2012, 1 female, turning stones (CJB-2827).

Palamós, La Fosca, rocky bay at sea, at base of pine tree; N41°51'12.4", E03°08'40.5", 15m asl; pitfall trap, 26 July 2012 - 24 March 2013, 1 female (CJB-2085); same data, pitfall trap, 7 July - 6 August 2013, 1 female (CJB-2320); same data, pitfall trap, 25 May - 15 July 2012, 2 males, 1 female (CJB-3022); same data, pitfall trap, 15 - 22 July 2012, 1 female (CJB-3134). Same locality, at base of pine tree, N41°51'12.4", E03°08'40.2", 15m asl; pitfall trap, 30 March - 7 July 2013, 1 male (CJB-2305); same data, pitfall trap, 7 July - 6 August 2013, 1 female (CJB-2325); same data, pitfall trap, 25 May - 15 July 2012, 1 female (CJB-3033). Same locality, at base of pine tree, N41°51'12.5", E03°08'40.2", 20m asl; pitfall trap, 6 August - 22 October 2013, 1 female (CJB-2436); same data, pitfall trap, 25 May - 15 July 2012, 1 female (CJB-3052). Romanya de la Selva, maquis; N41°51'28.8", E02°59'03.6", 332m asl; beating vegetation, 25 July 2012, 1 female (CJB-3167). Romanya de la Selva, Menhir de la Murtra, mixed wood; N41°51'25.7", E2°59'9.4", 324m asl; sifting litter, 27 October 2013, 1 male, 3 females, 8 juveniles (CJB-2532). Sant Cebrià de Lledó (Els Metges), hilltop near restaurant; N41°54'46", E02°58'06", 370m asl; turning stones, 4 June 2012, 3 females (CJB-2860). Sant Sadurní de l'Heura, river banks of Rio Darò in woods; N41°56'20.8", E2°58'5.0", 86m asl; beating vegetation, 4 July 2013, 1 female (CJB-2255). Sant Sadurní de l'Heura, stream close to village; N41°56'50.7", E2°58'28.7", 95m asl; beating vegetation, 3 July 2013, 1 male, 1 female (CJB-2242).

#### ***Saltilus confusus* Lucas, 1846**

Habitus: Photo 229.

#### Material examined

Castell, Puig Boter, maquis near coast; N41°52'8.1", E3°9'42.5", 45m asl; beating vegetation, 11 August 2013, 1 female (CJB-2375). Cruilles, Rio Darò, N of road crossing river, river bank; beating vegetation, 28 June 2013, 1 female (CJB-2110). Fitor, Santa Coloma de Fitor, track to dolmen del Llobinar, cork oak wood; N41°54'18.4", E3°5'0.3", 244m asl; beating vegetation, 1 July 2013, 1 female (CJB-2142). Mont Ras, along river;

N41°54'13", E03°07'47,2", 87m asl; beating vegetation, 12 July 2012, 1 female (CJB-2990). Sant Sadurní de l'Heura, river banks of Rio Darò in woods; N41°56'20.8", E2°58'5.0", 86m asl; beating vegetation, 4 July 2013, 1 male (CJB-2257). Palamós, Cap Gros, rocky hilltop at coast; N41°51'0.,9", E03°08'37.2", 75m asl; beating vegetation, 20 July 2012, 1 female (CJB-3126).

#### Remarks

This species has all too often been confused with the quite similar *Salticus scenicus* (Clerck, 1757). That is the reason why this is the first record of *Salticus confusus* from Catalonia. In my opinion, *Salticus scenicus* does not occur on the Iberian Peninsula.

#### ***Salticus zebraneus* (C.L. Koch, 1837)**

##### Material examined

Fitor, Can Puig de Fitor, rocky hilltop; N41°54'8.3", E3°5'13.4", 279m asl; beating vegetation, 16 July 2012, 1 female (CJB-3066). Fitor, Santa Coloma de Fitor, track to dolmen del Llobinar, cork oak wood; N41°54'18.4", E3°5'0.3", 244m asl; beating vegetation, 1 July 2013, 1 female (CJB-2143). Palamós, Cap Gros, grassland with *Spartium junceum*; N41°51'1.7", E3°8'30.3", 40m asl; beating vegetation, 13 July 2012, 1 male (CJB-2787).

#### **SCYTODIDAE**

#### ***Scytodes thoracica* (Latireille, 1802)**

Habitus: Photos 155, 156.

##### Material examined

Fitor, Santa Coloma de Fitor, cork oak wood; N41°54'17.4", E3°5'12.6", 257m asl; turning stones, 26 October 2013, 2 females (CJVK). Mont Ras, former quarry with pond; N41°54'55.1", E3°8'25.6", 103m asl; turning stones, 23 October 2013, 1 female (CJVK). Palamós, Cap Gros, coastal pine wood; N41°51'5", E3°8'35.9", 56m asl; hand capture, 9 August 2013, 1 female (CJB-2346). Palamós, La Fosca, rocky bay at sea, among *Carpobrotus edulis* higher up in bay; N41°51'12", E03°08'40", 25m asl; pitfall trap, 25 May - 15 July 2012, 1 female (CJB-3045). Same locality, at base of pine tree; N41°51'12.4", E03°08'40.5", 15m asl; pitfall trap, 2 November 2011 - 25 May 2012, 1 female (CJB-2712). Same locality, pitfall trap, 15 - 22 July 2012, 1 male (CJB-3135). Same locality, at base of pine tree; N41°51'12.4", E03°08'40.2", 15m asl; pitfall trap, 15 - 22 July 2012, 1 male (CJB-3132). Same locality, at base of pine tree; N41°51'12.5", E03°08'40.2", 20m asl; pitfall trap, 26 July 2012 - 24 March 2013, 1 male (CJB-2091). Romanya de la Selva, Creu de Romanya de la Selva, maquis; N41°51'18.9", E02°59'05.9", 330m asl; turning stones, 18 July 2012, 2 females (CJB-3075). Romanya de la Selva, Dolmen Cova d'en Daina, mixed wood; turning stones, 27 October 2013, 1 male (CJVK).

Sant Cebrià de Lledo (Els Metges), hilltop near restaurant; N41°54'45.7", E2°58'5.2", 375m asl; turning stones, 25 October 2013, 1 female, 1 juvenile (CJB-2449). Sant Sadurní de l'Heura, stream close to village; N41°56'50.7", E2°58'28.7", 95m asl; hand capture, 3 July 2013, 1 female (CJB-2236).

#### **SEGESTRIIDAE**

#### ***Segestria senoculata* (Linnaeus, 1758)**

Habitus: Photo 232.

##### Material examined

Fitor, Can Puig de Fitor, abandoned hamlet, hilltop with ruined houses; turning stones, 29 May 2012, 1 female (CJB-2798). Mont Ras, along river; N41°54'13", E03°07'47,2", 87m asl; hand capture, 5 June 2012, 1 female (CJB-2753).

#### **SICARIIDAE**

#### ***Loxosceles rufescens* (Dufour, 1820)**

Habitus: Photo 214.

##### Material examined

Mont Ras, former quarry with pond; N41°54'55.1", E3°8'25.6", 103m asl; turning stones, 23 October 2013, 1 female (CJVK). Palamós, La Fosca, rocky bay at sea, among *Carpobrotus edulis* higher up in bay; N41°51'12", E03°08'40", 25m asl; pitfall trap, 25 May - 15 July 2012, 1 male, 1 female, 2 juveniles (CJB-3042). Palamós, La Fosca, rocky bay at sea, rocky slope; N41°51'12.5", E03°08'40.0", 20m asl; pitfall trap, 30 March - 7 July 2013, 1 male, 1 female (CJB-2315). Same locality, pitfall trap, 6 August - 22 October 2013, 1 male, 1 female 1 juvenile (CJB-2442).

#### **SPARASSIDAE**

#### ***Olios argelasius* (Walckenaer, 1805)**

Habitus: Photos 123, 124.

##### Material examined

Llofriú, track to hilltop; N41°55'45.4", E3°7'2.7", 182m asl; beating vegetation, 5 July 2013, 1 female (CJB-2289). Mont Ras, along river; N41°54'13", E03°07'47,2", 87m asl; beating vegetation, 12 July 2012, 1 female (CJB-2982). Palamós, La Fosca, pine wood on rocks near coast; N41°51'5.6", E3°8'39", 41m asl; beating vegetation, 8 August 2013, 1 female (CJB-2334).

#### **TETRAGNATHIDAE**

#### ***Metellina mengei* (Blackwall, 1870)**

Habitus: Photos 109, 110.

##### Material examined

Castell, Puig Boter, maquis near coast; beating vegetation, 25 March 2013, 1 male, 1 female (CJB-2076). Sant Cebrià de Lledo (Els Metges), Can Gironès, along mountain stream; N41°53'33.0",

E2°57'25.7", 295m asl; hand capture, 25 October 2013, 1 male 1 female (CJVK).

### ***Tetragnatha nigrita* Lendl, 1886**

Habitus: Photo 236.

#### Material examined

Cruilles, Rio Darò, N of road crossing river, river bank; beating vegetation, 28 June 2013, 1 male (CJB-2120).

#### Remarks

This species was recorded for the first time from Catalonia by BARRIENTOS & FERNANDEZ (2015).

## **THERIDIIDAE**

### ***Anelosimus pulchellus* (Walckenaer, 1802)**

Habitus: Photos 7, 8.

#### Material examined

Fitor, Can Puig, abandoned village, grassland on rocky hilltop; N41°54'0.5", E3°5'55.6", 284m asl; beating vegetation, 2 July 2013, 2 females (CJB-2185). Fitor, Mas Cals, maquis at small stream; N41°54'53", E03°04'32", 170m asl; beating vegetation, 1 June 2012, 1 female (CJB-2667). Planes d'en Torroella, border of cultivated land; N41°54'37.7", E03°06'16.7", 262m asl; beating vegetation, 23 July 2012, 2 females (CJB-3147). Llofriú, track to Fitor; beating vegetation, 5 July 2013, 1 female (CJB-2279). Mont Ras, bridge over small stream in hills; beating vegetation, 5 June 2012, 1 female (CJB-2640). Palamós, Cap Gros, coastal pine wood; N41°51'5", E3°8'35.9", 56m asl; beating vegetation, 13 July 2012, 1 female (CJB-3009). Palamós, Cap Gros, rocky hilltop at coast; N41°51'0.,9", E03°08'37.2", 75m asl; beating vegetation, 20 July 2012, 1 female (CJB-3121).

### ***Anelosimus vittatus* (C. L. Koch, 1836)**

Habitus: Photo 196.

#### Material examined

Castell, Puig Boter, maquis near coast; N41°52'8.1", E3°9'42.5", 45m asl; beating vegetation, 11 August 2013, 3 females (CJB-2371). Els Angels, mixed wood past monastery; N41°58'54.1", E2°54'16.2", 452m asl; beating vegetation, 13 August 2013, 2 females (CJB-2393). Fitor, Can Puig de Fitor, hilltop; N41°54'03.2", E03°05'19.5", 258m asl; beating vegetation, 19 July 2012, 1 female (CJB-3103). Fitor, Can Puig, at abandoned village on rocky hilltop; N41°54'8.0", E3°5'10.2", 285m asl; beating vegetation, 1 July 2013, 1 male, 7 females (CJB-2175). Fitor, Mas Cals, maquis at small stream; N41°54'53", E03°04'32", 170m asl; beating vegetation, 1 June 2012, 1 male, 1 female (CJB-2666). Fitor, Planes d'en Torroella, border of cultivated land; N41°54'37.7", E03°06'16.7", 262m asl; beating vegetation, 23 July 2012, 2 females (CJB-3146). Fitor, Santa Coloma de Fitor, dolmen del Llobinat, cork oak wood; N41°54'15.2", E3°5'3.5", 274m asl;

beating vegetation, 1 July 2013, 3 females (CJB-2157). Same locality, track to dolmen del Llobinat, cork oak wood; N41°54'18.4", E3°5'0.3", 244m asl; beating vegetation, 1 July 2013, 15 females, 1 juvenile (CJB-2132). Llofriú, track to hilltop; N41°55'45.4", E3°7'2.7", 182m asl; beating vegetation, 5 July 2013, 1 male, 3 females (CJB-2291). Mont Ras, along dried out mountain stream; N41°54'31", E03°07'42.5", 130m asl; beating vegetation, 30 May 2012, 1 male (CJB-2661). Mont Ras, bridge over small stream in hills; beating vegetation, 5 June 2012, 1 female (CJB-2641). Palamós, Cap Gros, coastal pine wood; N41°51'5", E3°8'35.9", 56m asl; beating vegetation, 9 August 2013, 1 female (CJB-2347); same data, beating vegetation, 13 July 2012, 2 females (CJB-3008). Same locality, grassland with *Spartium junceum*; N41°51'1.7", E3°8'30.3", 40m asl; beating vegetation, 13 July 2012, 1 female (CJB-2789). Same locality, rocky hilltop at coast; N41°51'0.,9", E03°08'37.2", 75m asl; beating vegetation, 20 July 2012, 1 female (CJB-3120). Palamós, La Fosca, pine wood on rocks near coast; N41°51'5.6", E3°8'39", 41m asl; beating vegetation, 8 August 2013, 1 female (CJB-2337). Romanya de la Selva, maquis; N41°51'28.8", E02°59'03.6", 332m asl; beating vegetation, 25 July 2012, 1 female (CJB-3174). Romanya de la Selva, Menhir de la Murtra, mixed wood; N41°51'25.7", E2°59'9.4", 324m asl; beating vegetation, 27 October 2013, 3 females (CJB-2543). Romanya de la Selva, maquis near village; N41°51'23.9", E2°59'3.0", 340m asl; beating vegetation, 27 October 2013, 1 female, 3 subadult males (CJB-2548). Sant Cebrià de Lledó (Els Metges), Can Gironès, along mountain stream; N41°53'33.0", E2°57'25.7", 295m asl; beating vegetation, 12 August 2013, 3 females (CJB-2386). Santa Pellaia, track on hillslope in mixed wood; N41°55'11.6", E2°54'57.8", 365m asl; beating vegetation, 4 July 2013, 1 male, 1 female (CJB-2264).

### ***Argyrodes argyrodes* (Walckenaer, 1841)**

Habitus: Photos 21, 22.

#### Material examined

Palamós, La Fosca, pine wood on rocks near coast; N41°51'5.6", E3°8'39", 41m asl; beating vegetation, 8 August 2013, 2 females (CJB-2338).

### ***Crustulina guttata* (Wider, 1834)**

#### Material examined

Romanya de la Selva, Menhir de la Murtra, mixed wood; N41°51'25.7", E2°59'9.4", 324m asl; sifting litter, 27 October 2013, 1 female (CJB-2535).

### ***Crustulina scabripes* Simon, 1881**

Habitus: Photo 198.

#### Material examined

Els Angels, mixed wood past monastery; N41°58'54.1", E2°54'16.2", 452m asl; sifting litter,

13 August 2013, 1 female (CJB-2402). Same locality, N41°58'55.8", E2°54'11.0", 440m asl; turning stones, 14 August 2013, 1 female (CJB-2417). Fitor, Can Puig, abandoned village, old cattle pond at rocky hilltop; N41°54'8.1", E3°5'19.0", 279m asl; turning stones, 2 July 2013, 1 male, 2 females (CJB-2205). Fitor, Mas Cals, maquis at small stream; N41°54'53", E03°04'32", 170m asl; turning stones, 1 June 2012, 1 female (CJB-2844). Palamós, between Cap Gros and La Fosca, coastal pine wood; hand capture, 26 May 2012, 1 female (CJB-2773). Palamós, La Fosca, rocky bay at sea, at base of pine tree; N41°51'12.4", E03°08'40.5", 15m asl; pitfall trap, 25 May - 15 July 2012, 1 male (CJB-3025). Romanya de la Selva, Dolmen Cova d'en Daina, mixed wood; turning stones, 27 October 2013, 1 female (CJVK). Sant Cebrià de Lledo (Els Metges), hilltop near restaurant; N41°54'45.7", E2°58'5.2", 375m asl; turning stones, 25 October 2013, 1 female (CJVK).

#### ***Dipoena braccata* (C. L. Koch, 1841)**

Habitus: Photo 201.

##### Material examined

Fitor, Can Puig, at abandoned village, rocky hilltop; N41°54'8.0", E3°5'10.2", 285m asl; beating vegetation, 1 July 2013, 1 female (CJB-2177). Fitor, Santa Coloma de Fitor, dolmen del Llobinar, cork oak wood; N41°54'15.2", E3°5'3.5", 274m asl; beating vegetation, 1 July 2013, 1 male, 1 female (CJB-2160). Same locality, track to dolmen del Llobinar, cork oak wood; N41°54'18.4", E3°5'0.3", 244m asl; beating vegetation, 1 July 2013, 3 females (CJB-2134). Mont Ras, along river; N41°54'13", E03°07'47.2", 87m asl; beating vegetation, 12 July 2012, 1 female (CJB-2996). Sant Sadurní de l'Heura, stream and field border at road to Els Metges; N41°56'52.5", E2°58'9.2", 87m asl; beating vegetation, 3 July 2013, 2 females (CJB-2218). Sant Sadurní de l'Heura, stream close to village; N41°56'50.7", E2°58'28.7", 95m asl; beating vegetation, 3 July 2013, 1 female (CJB-2232).

##### Remarks

These are the first records of this species from Spain.

#### ***Dipoena melanogaster* (C. L. Koch, 1837)**

Habitus: Photo 202.

##### Material examined

Castell, Puig Boter, maquis near coast; N41°52'8.1", E3°9'42.5", 45m asl; beating vegetation, 11 August 2013, 1 female, (CJB-2372). Cruilles, Rio Darò, river bank; N41°56'36.9", E03°00'37.8", 60m asl; beating vegetation, 24 July 2012, 2 males, 1 female (CJB-3160). Els Angels, mixed wood past monastery; N41°58'54.1", E2°54'16.2", 452m asl; beating vegetation, 13 August 2013, 1 male, 1 female, 1 juvenile (CJB-2396). Same locality, N41°58'54.0", E2°54'16.0",

452m asl; sifting litter, 14 August 2013, 2 females (CJB-2410). Fitor, Can Puig, abandoned village, grassland on rocky hilltop; N41°54'0.5", E3°5'55.6", 284m asl; beating vegetation, 2 July 2013, 1 male, 2 females (CJB-2186). Fitor, Can Puig, at abandoned village, rocky hilltop; N41°54'8.0", E3°5'10.2", 285m asl; beating vegetation, 1 July 2013, 2 females (CJB-2176). Fitor, Mas Cals, maquis at small stream; N41°54'53", E03°04'32", 170m asl; beating vegetation, 1 June 2012, 2 males, 2 females (CJB-2664). Sant Sadurní de l'Heura, stream and field border at road to Els Metges; N41°56'52.5", E2°58'9.2", 87m asl; beating vegetation, 3 July 2013, 3 females (CJB-2207). Santa Pellaia, track on hillslope in mixed wood; N41°55'11.6", E2°54'57.8", 365m asl; beating vegetation, 4 July 2013, 1 female (CJB-2265).

#### ***Enoplognatha diversa* (Blackwall, 1859)**

##### Material examined

Romanya de la Selva, Menhir de la Murtra, mixed wood; N41°51'25.7", E2°59'9.4", 324m asl; sifting litter, 27 October 2013, 2 males, 2 juveniles (CJB-2534).

##### Remarks

This is the first record of this species for Catalonia.

#### ***Enoplognatha latimana* Hippa & Oksala, 1982**

##### Material examined

Sant Sadurní de l'Heura, stream and field border at road to Els Metges; N41°56'52.5", E2°58'9.2", 87m asl; beating vegetation, 3 July 2013, 1 female (CJB-2210). Sant Sadurní de l'Heura, stream close to village; N41°56'50.7", E2°58'28.7", 95m asl; beating vegetation, 3 July 2013, 1 female (CJB-2233).

#### ***Enoplognatha mandibularis* (Lucas, 1846)**

##### Material examined

Palamós, La Fosca, rocky bay at sea, rocky slope; N41°51'12.5", E03°08'40.0", 20m asl; pitfall trap, 26 July 2012 - 30 March 2013, 1 male (CJB-2096).

#### ***Enoplognatha quadripunctata* Simon, 1884**

Habitus: Photo 203.

##### Material examined

Fitor, Can Puig de Fitor, abandoned hamlet, hilltop with ruined houses; turning stones, 29 May 2012, 6 females (CJB-2808). Fitor, Mas Cals, maquis at small stream; N41°54'53", E03°04'32", 170m asl; turning stones, 1 June 2012, 1 female (CJB-2846). Mont Ras, bridge over small stream in hills; turning stones, 5 June 2012, 1 female (CJB-2770). Mont Ras, N41°54'31.0", E03°07'42.5", 130m asl; turning stones, 30 May 2012, 1 female (CJB-2733).

#### ***Enoplognatha testacea* Simon, 1884**

Habitus: Photos 57, 58.

##### Material examined

Castell, Puig Boter, maquis near coast; beating vegetation, 25 March 2013, 1 female (CJB-2081). Fitor, Can Puig de Fitor, abandoned hamlet, hilltop with ruined houses; turning stones, 29 May 2012, 1 female (CJB-2809). Fitor, Mas Cals, maquis at small stream; N41°54'53", E03°04'32", 170m asl; turning stones, 1 Juni 2012, 1 female (CJB-2847). Mont Ras, N41°54'31,0", E03°07'42,5", 130m asl; turning stones, 30 May 2012, 2 females (CJB-2729). Palamós, La Fosca, rocky bay at sea, rocky slope; N41°51'12.5", E03°08'40.0", 20m asl; pitfall trap, 2 November 2011 - 25 May 2012, 1 male (CJB-2692). Same locality, at base of pine tree; N41°51'12.4", E03°08'40.2", 15m asl; pitfall trap, 2 November 2011 - 25 May 2012, 1 male (CJB-2705). Same locality, at base of pine tree; N41°51'12.5", E03°08'40.2", 20m asl; pitfall trap, 26 July 2012 - 24 March 2013, 1 female (CJB-2092); same data, Pitfall trap, 2 November 2011 - 25 May 2012, 1 female (CJB-2699). Palamós, La Fosca, rocky slope in coastal pine wood; hand capture, 24 March 2013, 1 male (CJB-2071). Sant Cebrià de Lledo (Els Metges), hilltop near restaurant; N41°54'45.7", E2°58'5.2", 375m asl; turning stones, 25 October 2013, 1 male, 1 female 1 juvenile (CJVK).

#### *Episinus algiricus* Lucas, 1846

Habitus: Photos 59, 60

##### Material examined

Mont Ras, along dried out mountain stream; N41°54'31", E03°07'42,5", 130m asl; beating vegetation, 30 May 2012, 1 male (CJB-2662).

#### *Episinus maculipes* Cavanna, 1876

Habitus: Photos 61, 62.

##### Material examined

Romanya de la Selva, maquis; N41°51'28.8", E02°59'03.6", 332m asl; beating vegetation, 25 July 2012, 1 male (CJB-3172).

#### *Euryopis episinooides* (Walckenaer, 1847)

Habitus: Photos 75, 76.

##### Material examined

Fitor, Can Puig de Fitor, rocky hilltop; N41°54'8.3", E3°5'13.4", 279m asl; turning stones, 26 October 2013, 1 female (CJB-2524).

#### *Heterotheridion nigrovariegatum* (Simon, 1873)

Habitus: Photo 209.

##### Material examined

Els Angels, mixed wood past monastery; N41°58'54.1", E2°54'16.2", 452m asl; beating vegetation, 13 August 2013, 1 female (CJB-2395). Fitor, Can Puig de Fitor, rocky hilltop; N41°54'8.3", E3°5'13.4", 279m asl; beating vegetation, 16 July 2012, 1 female (CJB-3067). Can Puig, abandoned village, grassland on rocky hilltop; N41°54'0.5", E3°5'55.6", 284m asl; beating vegetation, 2 July 2013, 3 males, 2 females (CJB-2189). Fitor, Can

Puig, at abandoned village, rocky hilltop; N41°54'8.0", E3°5'10.2", 285m asl; beating vegetation, 1 July 2013, 1 female (CJB-2178). Palamós, edge of town, riverside with *Vitex agnus-castus*; N41°51'59.3", E3°7'38.3", 25m asl; beating vegetation, 10 August 2013, 1 female (CJB-2358). Romanya de la Selva, maquis; N41°51'28.8", E02°59'03.6", 332m asl; beating vegetation, 25 July 2012, 3 females (CJB-3170). Romanya de la Selva, Creu de Romanya de la Selva, maquis; N41°51'18.9", E02°59'05.9", 330m asl; beating vegetation, 18 July 2012, 2 females (CJB-3083).

#### *Kochiura aulica* (C. L. Koch, 1838)

Habitus: Photos 97, 98.

##### Material examined

Castell, Puig Boter, maquis near coast; N41°52'8.1", E3°9'42.5", 45m asl; beating vegetation, 11 August 2013, 1 male, 1 female (CJB-2370). Cruilles, Rio Darò, river bank; sifting litter, 29 March 2013, 1 male (CJB-2105). Fitor, Can Puig de Fitor, hilltop; N41°54'03.2", E03°05'19.5", 258m asl; beating vegetation, 19 July 2012, 2 females (CJB-3102). Fitor, Can Puig de Fitor, abandoned hamlet, hilltop with ruined houses; beating vegetation, 29 May 2012, 1 female (CJB-2760). Fitor, Can Puig, abandoned village, grassland on rocky hilltop; N41°54'0.5", E3°5'55.6", 284m asl; beating vegetation, 2 July 2013, 1 male, 6 females (CJB-2184). Fitor, Can Puig, at abandoned village, rocky hilltop; N41°54'8.0", E3°5'10.2", 285m asl; beating vegetation, 1 July 2013, 6 females (CJB-2174). Fitor, Planes d'en Torroella, border of cultivated land; N41°54'37.7", E03°06'16.7", 262m asl; beating vegetation, 23 July 2012, 1 male, 1 female (CJB-3148). Fitor, Santa Coloma de Fitor, track to dolmen del Llobinar, cork oak wood; N41°54'18.4", E3°5'0.3", 244m asl; beating vegetation, 1 July 2013, 1 female (CJB-2133). Llofriú, track to Fitor; beating vegetation, 5 July 2013, 2 males, 17 females (CJB-2278). Llofriú, track to hilltop; N41°55'45.4", E3°7'2.7", 182m asl; beating vegetation, 5 July 2013, 5 females (CJB-2292). Mont Ras, bridge over small stream in hills; beating vegetation, 5 June 2012, 1 female (CJB-2639). Palamós, Cap Gros, grassland with *Spartium junceum*; N41°51'1.7", E3°8'30.3", 40m asl; beating vegetation, 9 August 2013, 1 male (CJB-2340). Palamós, Cap Gros, rocky hilltop at coast; N41°51'0.,9", E03°08'37.2", 75m asl; beating vegetation, 20 July 2012, 1 female (CJB-3122). Sant Sadurní de l'Heura, river banks of Rio Darò in woods; N41°56'20.8", E2°58'5.0", 86m asl; beating vegetation, 4 July 2013, 2 females (CJB-2253). Santa Pellaia, track on hillslope in mixed wood; N41°55'11.6", E2°54'57.8", 365m asl; beating vegetation, 4 July 2013, 6 females (CJB-2263).

***Lasaeola convexa* (Blackwall, 1870)**

Material examined

Fitor, Mas Cals, maquis at small stream; N41°54'53", E03°04'32", 170m asl; turning stones, 1 June 2012, 1 male (CJB-2850). Llofriú, track to Fitor; beating vegetation, 5 July 2013, 1 male (CJB-2288). Mont Ras, bridge over small stream in hills; beating vegetation, 5 June 2012, 1 female (CJB-2645). Sant Sadurní de l'Heura, stream and field border at road to Els Metges; N41°56'52.5", E2°58'9.2", 87m asl; beating vegetation, 3 July 2013, 1 female (CJB-2209).

Remarks

These are the first records of this species for Catalonia.

***Paidiscura pallens* (Blackwall, 1834)**

Habitus: Photo 220.

Material examined

Fitor, Can Puig de Fitor, hilltop; N41°54'03.2", E03°05'19.5", 258m asl; beating vegetation, 19 July 2012, 1 female (CJB-3104). Fitor, Santa Coloma de Fitor, dolmen del Llobinar, cork oak wood; N41°54'15.2", E3°5'3.5", 274m asl; beating vegetation, 1 July 2013, 1 female (CJB-2559). Same locality, track to dolmen del Llobinar, cork oak wood; N41°54'18.4", E3°5'0.3", 244m asl; beating vegetation, 1 July 2013, 1 female (CJB-2135).

***Parasteatoda tepidariorum* (C. L. Koch, 1841)**

Habitus: Photos 131, 132.

Material examined

Palamós, town, on houses; hand capture, 22 October 2013, 2 males, 6 females (CJVK). Sant Cebrià de Lledo (Els Metges), Can Gironès, along mountain stream; N41°53'33.0", E2°57'25.7", 295m asl; beating vegetation, 12 August 2013, 1 male (CJB-2387).

***Pholcomma gibbum* (Westring, 1851)**

Material examined

Palamós, La Fosca, rocky bay at sea, at base of pine tree; N41°51'12.4", E03°08'40.2", 15m asl; pitfall trap, 2 November 2011 - 25 May 2012, 1 female (CJB-2708).

***Phylloneta impressa* (L. Koch, 1881)**

Material examined

Cruilles, Rio Darò, river bank; N41°56'36.9", E03°00'37.8", 60m asl; beating vegetation, 24 July 2012, 1 male (CJB-3161). Fitor, Can Puig de Fitor, rocky hilltop; N41°54'8.3", E3°5'13.4", 279m asl; beating vegetation, 16 July 2012, 1 female (CJB-3069). Fitor, Planes d'en Torroella, border of cultivated land; N41°54'37.7", E03°06'16.7", 262m asl; beating vegetation, 23 July 2012, 1 male (CJB-3149).

***Platnickina nigropunctata* (Lucas, 1846)**

Habitus: Photos 145, 146.

Material examined

Llofriú, track to Fitor; beating vegetation, 5 July 2013, 2 females (CJB-2280).

Remarks

The diagnostic differences between *Platnickina nigropunctata* and *Platnickina tincta* are given in WUNDERLICH (1987: 219, figs. 574-576; 2008: 389, figs. 522-526). Also see LEVY & AMITAI (1982: 97, figs. 25-31) and LE PERU (2011: 422, fig. 836, 852).

***Platnickina tincta* (Walckenaer, 1802)**

Habitus: Photos 147, 148.

Material examined

Castell, Puig Boter, maquis near coast; N41°52'8.1", E3°9'42.5", 45m asl; beating vegetation, 11 August 2013, 1 female (CJB-2369). Cruilles, Rio Darò, river bank; N41°56'36.9", E03°00'37.8", 60m asl; beating vegetation, 24 July 2012, 1 male (CJB-3162). Els Angels, mixed wood past monastery; N41°58'54.1", E2°54'16.2", 452m asl; beating vegetation, 13 August 2013, 1 female (CJB-2394). Fitor, Can Puig de Fitor, hilltop; N41°54'06.8", E03°05'17.3", 266m asl; beating vegetation, 19 July 2012, 1 female (CJB-3094). Fitor, Can Puig de Fitor, hilltop; N41°54'03.2", E03°05'19.5", 258m asl; beating vegetation, 19 July 2012, 1 female, 1 subadult male (CJB-3101). Fitor, Can Puig, at abandoned village, rocky hilltop; N41°54'8.0", E3°5'10.2", 285m asl; beating vegetation, 1 July 2013, 1 male, 2 females (CJB-2182). Fitor, Mas Cals, near stream crossing hilltrack; N41°54'50.2", E3°5'1.2", 174m asl; beating vegetation, 15 August 2013, 1 female (CJB-2420). Fitor, Mas Playa, maquis near water container; N41°54'56.2", E3°5'31.0", 246m asl; beating vegetation, 26 October 2013, 1 female (CJVK). Fitor, Santa Coloma de Fitor, cork oak wood; N41°54'17.4", E3°5'12.6", 257m asl; beating vegetation, 26 October 2013, 1 female, 5 juveniles (CJB-2518). Fitor, Santa Coloma de Fitor, dolmen del Llobinar, cork oak wood; N41°54'15.2", E3°5'3.5", 274m asl; beating vegetation, 1 July 2013, 1 male (CJB-2158). Same locality, track to dolmen del Llobinar, cork oak wood; N41°54'18.4", E3°5'0.3", 244m asl; beating vegetation, 1 July 2013, 5 females (CJB-2136). Mont Ras, along river; N41°54'13", E03°07'47.2", 87m asl; beating vegetation, 12 July 2012, 1 female (CJB-2984). Mont Ras, former quarry with pond; N41°54'55.1", E3°8'25.6", 103m asl; beating vegetation, 28 October 2013, 1 female (CJB-2554). Montnegre, roadside on hilltop; N41°57'33.1", E2°55'58.0", 318m asl; beating vegetation, 16 August 2013, 1 male (CJB-2430). Palamós, Cap Gros, grassland with Spartium junceum; N41°51'1.7", E3°8'30.3", 40m asl; beating vegetation, 13 July 2013, 1 female (CJB-2790). Palamós, Cap Gros, grassy hillside

with shrubs and pine trees; N41°51'0.8", E3°8'29.1", 41m asl; beating vegetation, 22 October 2013, 1 female (CJVK). Palamós, edge of town, riverside with *Vitex agnus-castus*; N41°51'59.3", E3°7'38.3", 25m asl; beating vegetation, 10 August 2013, 2 males (CJB-2356). Palamós, La Fosca, pine wood on rocks near coast; N41°51'5.6", E3°8'39", 41m asl; beating vegetation, 8 August 2013, 1 female (CJB-2335). Romanya de la Selva, maquis; N41°51'28.8", E02°59'03.6", 332m asl; beating vegetation, 25 July 2012, 1 male (CJB-3173). Romanya de la Selva, Creu de Romanya de la Selva, maquis; N41°51'18.9", E02°59'05.9", 330m asl; beating vegetation, 18 July 2012, 3 females (CJB-3085). Romanya de la Selva, Menhir de la Murtra, mixed wood; N41°51'25.7", E2°59'9.4", 324m asl; beating vegetation, 27 October 2013, 2 females (CJVK). Sant Cebrià de Lledo (Els Metges), Can Gironès, along mountain stream; N41°53'33.0", E2°57'25.7", 295m asl; beating vegetation, 12 August 2013, 1 female (CJB-2385). Sant Sadurní de l'Heura, stream close to village; N41°56'50.7", E2°58'28.7", 95m asl; beating vegetation, 3 July 2013, 1 female (CJB-2231).

#### ***Rhomphaea nasica* (Simon, 1873) (Figs. 35-37)**

Habitus: Photos 149, 150.

##### Material examined

Fitor, Can Puig de Fitor, hilltop; N41°54'03.2", E03°05'19.5", 258m asl; beating vegetation, 19 July 2012, 1 male (CJB-3106). Mont Ras, along river; N41°54'13", E03°07'47.2", 87m asl; beating vegetation, 12 July 2012, 1 female (CJB-2980). Mont Ras, former quarry with pond; N41°54'55.1", E3°8'25.6", 103m asl; beating vegetation, 23 October 2013, 1 male (CJB-2459). Palamós, Cap Gros, coastal pine wood; N41°51'5", E3°8'35.9", 56m asl; beating vegetation, 13 July 2012, 2 females (CJB-3003). Palamós, Cap Gros, grassy hillside with shrubs and pine trees; N41°51'0.8", E3°8'29.1", 41m asl; beating vegetation, 22 October 2013, 1 female (CJVK). Palamós, Cap Gros, rocky coastal hillside with shrubs and pine trees; N41°51'00.2", E03°08'31.4", 52m asl; beating vegetation, 20 July 2012, 1 female (CJB-3111). Palamós, Cap Gros, rocky hilltop at coast; N41°51'0.,9", E03°08'37.2", 75m asl; beating vegetation, 20 July 2012, 1 female (CJB-3119). Romanya de la Selva, Menhir de la Murtra, mixed wood; N41°51'25.7", E2°59'9.4", 324m asl; beating vegetation, 27 October 2013, 1 male (CJB-2545). Romanya de la Selva, Menhir de la Murtra, mixed wood; N41°51'25.7", E2°59'9.4", 324m asl; beating vegetation, 27 October 2013, 1 male, 1 female, 1 subadult male, 1 subadult female (CJVK).

##### Remarks

This species was reported from mainland Spain for the first time by SANCHEZ & BOSMANS (2017).

*Rhomphaea nasica* is not uncommon in the Gavarres, mostly found on *Erica arborea*.

Nevertheless, these are the first records for this species from Catalonia. Only the epigyne and carapace of this species has been properly illustrated (Lissner 2017b). The male palp (Figure 35), male habitus (Figure 36) and epigyne (Figure 37) are illustrated here.

#### ***Sardinidion blackwalli* O. P.-Cambridge, 1871**

##### Material examined

Fitor, Can Puig de Fitor, hilltop; N41°54'06.8", E03°05'17.3", 266m asl; beating vegetation, 19 July 2012, 1 female (CJB-3097).

##### Remarks

This species has been recorded from Catalonia for the first time by BARRIENTOS & FERNANDEZ (2015).

#### ***Simitidion simile* (C. L. Koch, 1836)**

##### Material examined

Fitor, Can Puig, abandoned village, grassland on rocky hilltop; N41°54'0.5", E3°5'55.6", 284m asl; beating vegetation, 2 July 2013, 1 female (CJB-2187). Fitor, Can Puig, at abandoned village, rocky hilltop; N41°54'8.0", E3°5'10.2", 285m asl; beating vegetation, 1 July 2013, 1 female (CJB-2181). Llofriú, track to hilltop; N41°55'45.4", E3°7'2.7", 182m asl; beating vegetation, 5 July 2013, 1 female, (CJB-2294). Sant Sadurní de l'Heura, stream and field border at road to Els Metges; N41°56'52.5", E2°58'9.2", 87m asl; beating vegetation, 3 July 2013, 1 female (CJB-2219).

#### ***Steatoda grossa* (C. L. Koch, 1838)**

Habitus: Photo 234.

##### Material examined

Palamós, town, in house, Passeig de Mar 5; hand capture, 5 June 2012, 1 male (CJB-2718).

#### ***Steatoda nobilis* (Thorell, 1875)**

Habitus: Photos 161, 162.

##### Material examined

Palamós, town, on houses; hand capture, 22 October 2013, 1 female (CJB-2562); same data, 1 male (CJVK). Romanya de la Selva, Menhir de la Murtra, mixed wood; N41°51'25.7", E2°59'9.4", 324m asl; beating vegetation, 27 October 2013, 1 female (CJVK).

#### ***Steatoda triangulosa* (Walckenaer, 1802)**

Habitus: Photos 163, 164.

##### Material examined

Montnegre, roadside on hilltop; N41°57'29.4", E2°55'51.7", 324m asl; turning stones, 24 October 2013, 1 female (CJB-2486). Palamós, Cap Gros, pile of bricks next to ruin; N41°51'0.8", E3°8'29.1", 41m asl; turning stones, 22 October 2013, 1 female (CJB-2453); same data, 2 females (CJVK).

### ***Theridion genistae* Simon, 1873**

#### Material examined

Fitor, Mas Cals, maquis at small stream; N41°54'53", E03°04'32", 170m asl; beating vegetation, 1 June 2012, 1 male (CJB-2668). Fitor, Santa Coloma de fitor, dolmen del Llobinar, cork oak wood; N41°54'15.2", E3°5'3.5", 274m asl; beating vegetation, 1 July 2013, 2 females (CJB-2159).

#### Remarks

These are the first records of this species from Catalonia.

### ***Theridion hannoniae* Denis, 1944**

#### Material examined

Cruilles, Rio Darò, river bank; turning stones, 6 June 2012, 1 female (CJB-2680).

### ***Theridion melanostictum* O. P.-Cambridge, 1876**

Habitus: Photo 237.

#### Material examined

Palamós, Cap Gros, grassy hillside with shrubs and pine trees; N41°51'0.8", E3°8'29.1", 41m asl; beating vegetation, 22 October 2013, 1 male (CJVK).

#### Remarks

This is the first record of this species from Catalonia.

### ***Theridion pinastri* L. Koch, 1872**

Habitus: Photo 238.

#### Material examined

Fitor, Can Puig de Fitor, hilltop; N41°54'06.8", E03°05'17.3", 266m asl; beating vegetation, 19 July 2012, 3 males (CJB-3096). Fitor, Can Puig de Fitor, rocky hilltop; N41°54'8.3", E3°5'13.4", 279m asl; beating vegetation, 16 July 2012, 1 male, 2 females (CJB-3062). Fitor, Can Puig, abandoned village, grassland on rocky hilltop; N41°54'0.5", E3°5'55.6", 284m asl; beating vegetation, 2 July 2013, 1 male (CJB-2188). Fitor, Can Puig, at abandoned village, rocky hilltop; N41°54'8.0", E3°5'10.2", 285m asl; beating vegetation, 1 July 2013, 2 males, 1 female (CJB-2179). Fitor, Planes d'en Torroella, border of cultivated land; N41°54'37.7", E03°06'16.7", 262m asl; beating vegetation, 23 July 2012, 2 females (CJB-3150). Fitor, Santa Coloma de Fitor, track to dolmen del Llobinar, cork oak wood; N41°54'18.4", E3°5'0.3", 244m asl; beating vegetation, 1 July 2013, 1 male, 1 female, 1 subadult female (CJB-2137). Llofriú, track to hilltop; N41°55'45.4", E3°7'2.7", 182m asl; beating vegetation, 5 July 2013, 1 male (CJB-2293). Montnegre, roadside on hilltop; N41°57'33.1", E2°55'58.0", 318m asl; beating vegetation, 16 August 2013, 1 female (CJB-2431). Palamós, Cap Gros, coastal pine wood; N41°51'5", E3°8'35.9", 56m asl; beating vegetation, 13 July 2012, 1 female (CJB-3007). Palamós, Cap Gros, grassland with

*Spartium junceum*; N41°51'1.7", E3°8'30.3", 40m asl; beating vegetation, 13 July 2012, 1 male, 2 females (CJB-2788). Romanya de la Selva, maquis; N41°51'28.8", E02°59'03.6", 332m asl; beating vegetation, 25 July 2012, 4 females (CJB-3171). Sant Sadurní de l'Heura, stream and field border at road to Els Metges; N41°56'52.5", E2°58'9.2", 87m asl; beating vegetation, 3 July 2013, 2 males (CJB-2208). Sant Sadurní de l'Heura, stream close to village; N41°56'50.7", E2°58'28.7", 95m asl; beating vegetation, 3 July 2013, 1 male (CJB-2230). Santa Pellaia, track on hillslope in mixed wood; N41°55'11.6", E2°54'57.8", 365m asl; beating vegetation, 4 July 2013, 2 males (CJB-2266).

### ***Theridion semitinctum* Simon, 1914**

#### Material examined

Fitor, Mas Cals, maquis at small stream; N41°54'53", E03°04'32", 170m asl; beating vegetation, 1 June 2012, 1 female (CJB-2669).

#### Remarks

This is the first record of this species for Catalonia.

### ***Theridion varians* Hahn, 1833**

Habitus: Photo 239.

#### Material examined

Fitor, Can Puig, at abandoned village, rocky hilltop; N41°54'8.0", E3°5'10.2", 285m asl; beating vegetation, 1 July 2013, 1 male (CJB-2180). Fitor, Sta Coloma, track to dolmen del Llobinar, cork oak wood; N41°54'18.4", E3°5'0.3", 244m asl; beating vegetation, 1 July 2013, 2 males, 1 female (CJB-2138). Mont Ras, along river; N41°54'13", E03°07'47.2", 87m asl; beating vegetation, 12 July 2012, 1 male (CJB-2985). Sant Cebrià de Lledó (Els Metges), Can Gironès, along mountain stream; N41°53'33.0", E2°57'25.7", 295m asl; beating vegetation, 12 August 2013, 1 female (CJB-2388). Sant Sadurní de l'Heura, river banks of Rio Darò in woods; N41°56'20.8", E2°58'5.0", 86m asl; beating vegetation, 4 July 2013, 1 male, 1 female (CJB-2254).

### ***Theridula gonygaster* (Simon, 1873)**

Habitus: Photo 240.

#### Material examined

Sant Sadurní de l'Heura, stream and field border at road to Els Metges; N41°56'52.5", E2°58'9.2", 87m asl; beating vegetation, 3 July 2013, 1 female (CJB-2211).

#### Remarks

This is the first record of this striking species for Catalonia.

## **THOMISIDAE**

### ***Ebrechtella tricuspidata* (Fabricius, 1775)**

Habitus: Photos 55, 56.

#### Material examined

Cruilles, Rio Darò, dried out river bed; N41°56'33", E03°00'27", 50m asl; beating vegetation, 23 October 2013, 2 males (CJB-2467). Cruilles, Rio Darò, dried out river bed; N41°56'33", E03°00'27", 50m asl; beating vegetation, 23 October 2013, 6 males, 1 female (CJVK). Cruilles, Rio Darò, pine wood on river bank; N41°56'40.6", E03°00'41.2", 50m asl; sifting litter, 23 October 2013, 1 male (CJB-2469).

#### ***Misumena vatia* (Clerck, 1757)**

Habitus: Photos 113, 114.

##### Material examined

Cruilles, Rio Darò, river bank; N41°56'30.5", E03°00'18.3", 55m asl; beating vegetation, 24 July 2012, 1 male (CJB-3155). Fitor, Can Puig de Fitor, hilltop; N41°54'06.8", E03°05'17.3", 266m asl; beating vegetation, 19 July 2012, 1 female (CJB-3089). Fitor, Can Puig, at abandoned village, rocky hilltop; N41°54'8.0", E3°5'10.2", 285m asl; beating vegetation, 1 July 2013, 1 male (CJB-2166). Fitor, Mas Cals, maquis at small stream; N41°54'53", E03°04'32", 170m asl; beating vegetation, 1 June 2012, 1 male (CJB-2858). Fitor, Planes d'en Torroella, border of cultivated land; N41°54'37.7", E03°06'16.7", 262m asl; beating vegetation, 23 July 2012, 1 male (CJB-3143). Fitor, Santa Coloma de Fitor, dolmen del Llobinar, cork oak wood; N41°54'15.2", E3°5'3.5", 274m asl; beating vegetation, 1 July 2013, 1 subadult male (CJB-2154). Mont Ras, along river; N41°54'13", E03°07'47.2", 87m asl; beating vegetation, 12 July 2012, 1 male (CJB-2994). Mont Ras, bridge over small stream in hills; beating vegetation, 5 June 2012, 1 male, 1 subadult male (CJB-2652); same data, hand capture, 1 male (CJB-2769). Sant Sadurní de l'Heura, stream and field border at road to Els Metges; N41°56'52.5", E2°58'9.2", 87m asl; beating vegetation, 3 July 2013, 1 male (CJB-2226). Santa Pellaia, track on hillslope in mixed wood; N41°55'11.6", E2°54'57.8", 365m asl; beating vegetation, 4 July 2013, 1 male (CJB-2273). Vall Llobregà, along hilltrack in maquis; beating vegetation, 10 August 2013, 1 female (CJB-2364).

#### ***Oxyptila atomaria* (Panzer, 1801)**

Habitus: Photos 129, 130.

##### Material examined

Montnegre, roadside on hilltop; N41°57'29.7", E2°55'51.7", 312m asl; sifting litter, 16 August 2013, 1 female (CJB-2429). Same locality, N41°57'29.4", E2°55'51.7", 324m asl; turning stones, 24 October 2013, 1 male (CJB-2493).

#### ***Runcinia grammica* (C. L. Koch, 1837)**

Habitus: Photos 151, 152.

##### Material examined

Cruilles, Rio Darò, dried out river bed; N41°56'33", E03°00'27", 50m asl; beating vegetation, 23

October 2013, 1 female (CJVK). Cruilles, Rio Darò, river bank; beating vegetation, 6 June 2012, 2 males (CJB-2632); same data, hand capture, 1 male (CJB-2744). Cruilles, Rio Darò, river bank; N41°56'30.5", E03°00'18.3", 55m asl; beating vegetation, 24 July 2012, 1 male, 1 female (CJB-3154). Same locality, N41°56'36.9", E03°00'37.8", 60m asl; beating vegetation, 24 July 2012, 1 male (CJB-3158). Cruilles, Rio Darò, N of road crossing river, river bank; beating vegetation, 28 June 2013, 2 males, 8 females, 1 juvenile (CJB-2113). Fitor, Can Puig, at abandoned village, rocky hilltop; N41°54'8.0", E3°5'10.2", 285m asl; beating vegetation, 1 July 2013, 1 female (CJB-2165). Llofriú, track to Fitor; beating vegetation, 5 July 2013, 2 females, 2 juveniles (CJB-2281). Llofriú, track to hilltop; N41°55'45.4", E3°7'2.7", 182m asl; beating vegetation, 5 July 2013, 1 female (CJB-2300). Palamós, Cap Gros, coastal pine wood; N41°51'5", E3°8'35.9", 56m asl; beating vegetation, 13 July 2012, 1 female (CJB-3006). Palamós, Cap Gros, grassland with *Spartium junceum*; N41°51'1.7", E3°8'30.3", 40m asl; beating vegetation, 13 July 2012, 1 female (CJB-2782). Palamós, Cap Gros, rocky coastal hillside with shrubs and pine trees; N41°51'00.2", E03°08'31.4", 52m asl; beating vegetation, 20 July 2012, 1 female (CJB-3109). Palamós, edge of town, riverside with *Vitex agnus-castus*; N41°51'59.3", E3°7'38.3", 25m asl; beating vegetation, 10 August 2013, 1 female (CJB-2360). Romanya de la Selva, maquis; N41°51'28.8", E02°59'03.6", 332m asl; beating vegetation, 25 July 2012, 1 female (CJB-3175). Romanya de la Selva, Creu de Romanya de la Selva, maquis; N41°51'18.9", E02°59'05.9", 330m asl; beating vegetation, 18 July 2012, 1 male, 1 female (CJB-3082). Sant Sadurní de l'Heura, stream and field border at road to Els Metges; N41°56'52.5", E2°58'9.2", 87m asl; beating vegetation, 3 July 2013, 2 males (CJB-2215).

#### ***Synema globosum* (Fabricius, 1775)**

Habitus: Photos 165, 166.

##### Material examined

Cruilles, Rio Darò, N of road crossing river, river bank; beating vegetation, 28 June 2013, 1 female (CJB-2114). Els Angels, mixed wood past monastery; N41°58'54.0", E2°54'16.0", 452m asl; beating vegetation, 13 August 2013, 1 female (CJB-2594). Fitor, Can Puig de Fitor, abandoned hamlet, hilltop with ruined houses; beating vegetation, 29 May 2012, 1 male, 1 female (CJB-2758). Fitor, Can Puig, abandoned village, grassland on rocky hilltop; N41°54'0.5", E3°5'55.6", 284m asl; beating vegetation, 2 July 2013, 1 male, 1 female (CJB-2194). Fitor, Mas Cals, maquis at small stream; N41°54'53", E03°04'32", 170m asl; beating vegetation, 1 June 2012, 3 females (CJB-2670). Fitor, Mas Playa, maquis near water container; N41°54'56.2", E3°5'31.0", 246m asl; beating

vegetation, 26 October 2013, 1 male, 2 females (CJVK). Llofriú, track to Fitor; beating vegetation, 5 July 2013, 2 males, 2 females (CJB-2282). Llofriú, track to hilltop; N41°55'45.4", E3°7'2.7", 182m asl; beating vegetation, 5 July 2013, 1 female, 1 juvenile (CJB-2298). Mont Ras, along dried out mountain stream; N41°54'31", E03°07'42.5", 130m asl; beating vegetation, 30 May 2012, 1 female (CJB-2655). Mont Ras, bridge over small stream in hills; beating vegetation, 5 June 2012, 1 female (CJB-2650). Sant Sadurní de l'Heura, stream and field border at road to Els Metges; N41°56'52.5", E2°58'9.2", 87m asl; beating vegetation, 3 July 2013, 1 male, 1 subadult female, 1 juvenile (CJB-2214).

#### ***Thomisus onustus* Walckenaer, 1805**

Habitus: Photos 171, 172.

##### Material examined

Fitor, cork oak wood; beating vegetation, 29 May 2012, 1 female (CJB-2797).

#### ***Tmarus piger* (Walckenaer, 1802)**

Habitus: Photos 173, 174.

##### Material examined

Mont Ras, along dried out mountain stream; N41°54'31", E03°07'42.5", 130m asl; beating vegetation, 30 May 2012, 1 male (CJB-2657). Sant Sadurní de l'Heura, river banks of Rio Darò in woods; N41°56'20.8", E2°58'5.0", 86m asl; beating vegetation, 4 July 2013, 1 female (CJB-2259).

#### ***Tmarus staintoni* (O. P.-Cambridge, 1873)**

(Figs. 38-40)

Habitus: Photos 175, 176.

##### Material examined

Fitor, Can Puig, at abandoned village, rocky hilltop; N41°54'8.0", E3°5'10.2", 285m asl; beating vegetation, 1 July 2013, 1 female (CJB-2167).

##### Remarks

Since no good drawings of the genitalia of this species exist (ALBERDI *et al.* 2007), the male palp (Figure 39, 40) and epigyne (Figure 38) are illustrated here.

#### ***Xysticus bufo* (Dufour, 1820) (Figs. 41-43)**

Habitus: Photos 181, 182.

##### Material examined

Fitor, Can Puig de Fitor, rocky hilltop; N41°54'8.3", E3°5'13.4", 279m asl; turning stones, 26 October 2013, 1 female (CJB-2522). Fitor, Can Puig de Fitor, rocky hilltop; N41°54'8.3", E3°5'13.4", 279m asl; turning stones, 26 October 2013, 1 female (CJVK). Montnegre, roadside on hilltop; N41°57'29.7", E2°55'51.7", 312m asl; turning stones, 1 male, collected as juvenile 16 August 2013, moulted to adult 15 October 2013 (CJB-2423). Montnegre, roadside on hilltop; N41°57'29.4", E2°55'51.7", 324m asl; turning stones, 24 October 2013, 1 female (CJVK).

#### Remarks

As few good illustrations of the genitalia of this charming species exist, the epigyne (Figure 41) and male palp (Figure 42, 43) are illustrated here.

#### ***Xysticus ferrugineus* Menge, 1876**

Habitus: Photo 246.

##### Material examined

Sant Sadurní de l'Heura, stream and field border at road to Els Metges; N41°56'52.5", E2°58'9.2", 87m asl; beating vegetation, 3 July 2013, 1 female (CJB-2227).

#### ***Xysticus kempeleni* Thorell, 1872**

Habitus: Photo 247.

##### Material examined

Sant Sadurní de l'Heura, stream close to village; N41°56'50.7", E2°58'28.7", 95m asl; beating vegetation, 3 July 2013, 1 female (CJB-2247).

##### Remarks

This is the first record of this species for Catalonia.

#### ***Xysticus kochi* Thorell, 1872**

Habitus: Photo 248.

##### Material examined

Fitor, Can Puig de Fitor, hilltop; N41°54'06.8", E03°05'17.3", 266m asl; beating vegetation, 19 July 2012, 1 female (CJB-3090).

#### ***Xysticus lanio* C.L. Koch, 1835**

Habitus: Photos 183, 184.

##### Material examined

Cruilles, Rio Darò, N of road crossing river, river bank; beating vegetation, 28 June 2013, 1 female (CJB-2115). Fitor, Can Puig de Fitor, rocky hilltop; N41°54'8.3", E3°5'13.4", 279m asl; beating vegetation, 16 July 2012, 1 female (CJB-3063).

Fitor, Mas Cals, maquis at small stream; N41°54'53", E03°04'32", 170m asl; beating vegetation, 1 June 2012, 1 female (CJB-2672).

Fitor, Santa Coloma de Fitor, dolmen del Llobinar, cork oak wood; N41°54'15.2", E3°5'3.5", 274m asl; beating vegetation, 1 July 2013, 1 male (CJB-2153). Mont Ras, along dried out mountain stream; N41°54'31", E03°07'42.5", 130m asl; beating vegetation, 30 May 2012, 3 males, 3 females (CJB-2656). Mont Ras, along river; N41°54'13", E03°07'47.2", 87m asl; beating vegetation, 12 July 2012, 1 male, 3 females, 5 juveniles (CJB-2993). Mont Ras, bridge over small stream in hills; beating vegetation, 5 June 2012, 2 males, 1 female (CJB-2651).

#### **TITANOECIDAE**

#### ***Nurscia albomaculata* (Lucas, 1846)**

Habitus: Photo 218.

##### Material examined

Cruilles, Rio Darò, river bank; turning stones, 6 June 2012, 1 male, 3 females (CJB-2678).

## TRACHELIDAE

### *Cetonana laticeps* (Canestrini, 1868)

Habitus: Photos 27, 28.

#### Material examined

Romanya de la Selva, Menhir de la Murtra, mixed wood; N41°51'25.7", E2°59'9.4", 324m asl; beating vegetation, 27 October 2013, 1 male (CJVK).

#### Remarks

On the Iberian Peninsula, this species is only known from the province of Girona (BOSSELAERS *et al.* 2009: 35-36). In the Gavarres it is uncommon, but not rare.

### *Paratrachelas ibericus* (Bosselaers *et al.*, 2009)

(Figs. 44-47)

Habitus: Photos 133, 134.

#### Material examined

Fitor, Mas Playa, maquis near water container; N41°54'56.2", E3°5'31.0", 246m asl; beating vegetation, 26 October 2013, 1 female (CJB-2513).

#### Remarks

This recently described species (BOSSELAERS *et al.*, 2009) is known from the Iberian Peninsula, North Africa and the South East of France. It is uncommon but widespread in the Gavarres. The male palp (Figure 44, 45) and epigyne (Figure 46, 47) are illustrated here.

## ULOBORIDAE

### *Hyptiotes flavidus* (Blackwall, 1862) (Figs. 48-49)

Habitus: Photos 93, 94.

#### Material examined

Castell, Puig Boter, maquis near coast; N41°52'8.0", E3°9'40.2", 48m asl; beating vegetation, 26 October 2013, 1 male (CJB-2529).

Fitor, Mas Playa, maquis near water container; N41°54'56.2", E3°5'31.0", 246m asl; beating vegetation, 26 October 2013, 1 male, 2 females (CJVK). Fitor, Santa Coloma de Fitor, cork oak wood; N41°54'17.4", E3°5'12.6", 257m asl; beating vegetation, 26 October 2013, 1 female (CJB-2519).

Mont Ras, former quarry with pond; N41°54'55.1", E3°8'25.6", 103m asl; beating vegetation, 28 October 2013, 1 male, 3 females (CJB-2555). Mont Ras, former quarry with pond; N41°54'55.1", E3°8'25.6", 103m asl; beating vegetation, 27 October 2013, 2 males (CJVK). Romanya de la Selva, Menhir de la Murtra, mixed wood;

N41°51'25.7", E2°59'9.4", 324m asl; beating vegetation, 27 October 2013, 3 males, 2 females (CJVK). Sant Sadurní de l'Heura, field border; N41°56'50.5", E2°58'11.0", 87m asl; beating vegetation, 24 October 2013, 2 females (CJB-2482). Sant Sadurní de l'Heura, river banks of Rio Darò in woods; N41°56'20.8", E2°58'5.0", 86m asl; beating vegetation, 24 October 2013, 1 female (CJVK).

## Remarks

Although adult specimens of *Hyptiotes flavidus* are common later in fall in the Gavarres, these are the first records of this species from Catalonia. The diagnostic differences between *Hyptiotes paradoxus* and *Hyptiotes flavidus* are explained in SIMON (1914: 29, figs. 50-53). The male palp (Figure 48) and epigyne (Figure 49) are illustrated here.

### *Uloborus walckenaerius* Latreille, 1806

Habitus: Photos 177, 178.

#### Material examined

Palamós, edge of town, riverside with *Vitex agnus-castus*; N41°51'59.3", E3°7'38.3", 25m asl; beating vegetation, 10 August 2013, 1 male (CJB-2359). Santa Pellaia, track on hillslope in mixed wood; N41°55'11.6", E2°54'57.8", 365m asl; beating vegetation, 4 July 2013, 1 female (CJB-2277).

## ZODARIIDAE

### *Selamia reticulata* (Simon, 1870)

Habitus: Photos 157, 158.

#### Material examined

Palamós, between Cap Gros and La Fosca, coastal pine wood; turning stones, 26 May 2012, 1 male (CJB-2830). Palamós, La Fosca, rocky bay at sea, among *Carpobrotus edulis* higher up in bay; N41°51'12", E03°08'40", 25m asl; pitfall trap, 25 May - 15 July 2012, 1 male (CJB-3040). Palamós, La Fosca, rocky bay at sea, rocky slope; N41°51'12.5", E03°08'40.0", 20m asl; pitfall trap, 30 March - 7 July 2013, 3 males, 1 female (CJB-2306). Romanya de la Selva, Dolmen Cova d'en Daina, mixed wood; turning stones, 27 October 2013, 3 females (CJVK).

### *Zodarion modestum* (Simon, 1870)

#### Material examined

Mont Ras, former quarry with pond; N41°54'55.1", E3°8'25.6", 103m asl; turning stones, 23 October 2013, 1 male, 1 female (CJVK).

#### Remarks

This is the first record of this southern species for Catalonia. A description of *Zodarion modestum* can be found in BOSMANS (1994).

### *Zodarion pseudoelegans* Denis, 1933

Habitus: Photo 250.

#### Material examined

Fitor, Santa Coloma de Fitor, cork oak wood; N41°54'20.6", E3°5'11.3", 243m asl; turning stones, 1 July 2013, 1 female (CJB-2130). Montnegre, roadside on hilltop; N41°57'29.4", E2°55'51.7", 324m asl; turning stones, 24 October 2013, 1 female (CJVK). Palamós, between Cap Gros and La Fosca, coastal pine wood; turning stones, 26 May 2012, 1 female (CJB-2833). Palamós, La Fosca, rocky bay at sea, among *Carpobrotus edulis*

higher up in bay; N41°51'12", E03°08'40", 25m asl; pitfall trap, 25 May 15 July 2012, 1 female, 1 juvenile (CJB-3044). Palamós, La Fosca, rocky bay at sea, rocky slope; N41°51'12.5", E03°08'40.0", 20m asl; pitfall trap, 30 March - 7 July 2013, 1 male, 1 female, 1 subadult male (CJB-2312); same data, pitfall trap, 7 July - 7 August 2013, 1 female (CJB-2330). Same locality, at base of pine tree; N41°51'12.4", E03°08'40.5", 15m asl; pitfall trap, 7 July - 6 August 2013, 1 female (CJB-2321); same data, pitfall trap, 6 August - 22 October 2013, 1 female (CJB-2603).

## ZOROPSIDAE

### *Zoropsis media* Simon, 1878 (Figs. 50-52)

Habitus: Photos 189, 190.

#### Material examined

Els Angels, mixed wood past monastery; N41°58'54.3", E02°54'15.8", 444m asl; sifting litter, 24 October 2013, 1 male (CJB-2478). Fitor, cork oak wood; hand capture, 29 May 2012, 1 female (CJB-2796). Fitor, Can Puig de Fitor, abandoned hamlet, hilltop with ruined houses; turning stones, 29 May 2012, 1 female (CJB-2799). Fitor, Can Puig, abandoned village, along track in grassland on rocky hilltop; N41°54'11.0", E3°5'16.4", 274m asl; turning stones, 2 July 2013, 2 females (CJB-2199). Fitor, Mas Cals, near stream crossing hilltrack; N41°54'47.1", E3°5'4.6", 180m asl; pitfall trap, 15 August - 26 October 2013, 1 female (CJB-2502). Romanya de la Selva, Creu de Romanya de la Selva, maquis; N41°51'18.9", E02°59'05.9", 330m asl; turning stones, 18 July 2012, 1 female (CJB-3074). Romanya de la Selva, Menhir de la Murtra, mixed wood; N41°51'25.7", E2°59'9.4", 324m asl; turning stones, 27 October 2013, 1

female (CJVK). Sant Cebrià de Lledo (Els Metges), hilltop near restaurant; N41°54'45.7", E2°58'5.2", 375m asl; turning stones, 25 October 2013, 1 female (CJVK).

#### Remarks

*Zoropsis media* is not uncommon in the Gavarres, being more frequent than *Zoropsis spinimana*. The species had already been reported from the vicinity of the Gavarres by BOSSELAERS (2002). The male palp (Figure 50, 51) and epigyne (Figure 52) are illustrated here.

### *Zoropsis spinimana* (Dufour, 1820)

Habitus: Photo 251.

#### Material examined

Castell, Puig Boter, maquis near coast; beating vegetation, 25 March 2013, 1 female (CJB-2079). Fitor, Santa Coloma de Fitor, cork oak wood; N41°54'17.4", E3°5'12.6", 257m asl; turning stones, 26 October 2013, 1 male, 1 female (CJVK). Palamós, La Fosca, rocky bay at sea; N41°51'12.5", E3°8'40.2", 20m asl; turning stones, 22 October 2013, 1 male (CJVK). Palamós, La Fosca, rocky bay at sea, rocky slope; N41°51'12.5", E03°08'40.0", 20m asl; pitfall trap, 2 November 2011 - 25 May 2012, 1 female (CJB-2686). Palamós, La Fosca, rocky bay at sea, at base of pine tree; N41°51'12.4", E03°08'40.5", 15m asl; pitfall trap, 6 August - 22 October 2013, 1 female, 1 subadult male (CJB-2445). Palamós, La Fosca, rocky bay at sea, at base of pine tree; N41°51'12.4", E03°08'40.2", 15m asl; pitfall trap, 7 July - 6 August 2013, 1 subadult female (CJB-2323). Romanya de la Selva, Menhir de la Murtra, mixed wood; N41°51'25.7", E2°59'9.4", 324m asl; sifting litter, 27 October 2013, 1 female (CJB-2531).

## Discussion

When analysing the present collection of spiders from the Gavarres, plotting the species abundance distribution from within ARACON produces a classic hyperbolic histogram (MCGILL *et al.* 2007), with a small number of common species and many rare species (Figure 4). As a matter of fact, 58 species are represented by a single specimen in the dataset and 37 species by two specimens, while only 11 species were collected in numbers between 34 and 78. The ten most common species are *Amaurobius erberi* (78), *Dysdera erythrina* (67), *Philodromus fuscolimbatus* (61), *Anelosimus vittatus* (58), *Kochiura aulica* (57), *Evarcha jucunda* (54), *Pardosa hortensis* (51), *Saitis barbipes* (49), *Heliophanus tribulosus* (47) and *Tenuiphantes herbicola* (41).

Two species, *Agyneta cauta* and *Tegenaria dalmatica* are reported as new for the Iberian Peninsula, while two others are new for Spain: *Dipoena braccata* and *Euophrys nigripalpis*. Thirty-six species are new for Catalonia: *Ballus rufipes*, *Cheiracanthium seidlitzi*, *Dictyna kosiorowiczi*, *Enoplognatha diversa*, *Ero flammeola*, *Euophrys innotata*, *Gnathonarium dentatum*, *Hybocoptus corrugis*, *Hyptiotes flavidus*, *Iberina montana*, *Lasaeola convexa*, *Lepthyphantes minutus*, *Leptorchestes berolinensis*, *Leptorchestes peresi*, *Linyphia maura*, *Micaria dives*, *Nomisia celerrima*, *Oxyopes nigripalpis*, *Philodromus albidus*, *Philodromus bistigma*, *Philodromus fuscolimbatus*, *Piratula latitans*, *Rhomphaea nasica*, *Salicus confusus*, *Spermophorides mediterranea*, *Tegenaria pagana*, *Theonina cornix*, *Theridion genistae*, *Theridion melanostictum*, *Theridion semitinctum*, *Theridula gonygaster*,

*Tibellus macellus*, *Trachyzelotes mutabilis*, *Trochosa robusta*, *Xysticus kempeleni* and *Zodarion modestum*.

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## References

- ALBERDI, J. M., ALEMANY, C., MELIC, A., CARVALHO, J. C., BOSSLEAERS, J., SANCHEZ, D. & ARES, A. M. 2007. El género *Tmarus* en la Península Ibérica. *Unpublished overview*, 10 pp.
- ALHAMBRA, J.V., VAQUE, E. & VICENS, J. 1989: El massís de les Gavarres. *Revista de Girona* **135**: 25-33.
- ALMQUIST, S. 2005. Swedish Araneae, part 1: families Atypidae to Hahniidae (Linyphiidae excluded). *Insect Systematics and Evolution Suppl.* **62**: 1-284.
- ALMQUIST, S. 2006. Swedish Araneae, part 2--families Dictynidae to Salticidae. *Insect Systematics and Evolution Suppl.* **63**: 285-601.
- ASPÖCK, U. 1996. Die Mantispiden Europas. In Gerstmeier, R., & Scherer, G. *Verhandlungen des 14. Internationalen Symposiums über Entomofaunistik in Mitteleuropa (SIEEC)*, München.
- BARRIENTOS, J. A. 1984. Le statut taxonomique des *Oxyopes* Latreille, 1804, de la Péninsule Ibérique. *Revue arachnologique* **5**: 153-159.
- BARRIENTOS J. A. 1985. Artrópodos epígeos del macizo de San Juan de la Peña (Jaca, Prov. de Huesca): IX. Arañas agelénidas y hahnidas. *Pirineos* **126**: 81-131.
- BARRIENTOS, J. A. 2004. II Curso práctico de aracnología. Taxonomía de arañas y opiliones ibéricos. *Unpublished course proceedings*, 162 pp.
- BARRIENTOS, J. A. & ASCASO, C. 1985. Algunas aranas del Montseny. In: REAL, J. (Ed.) *El Medi Natural del Valles. Actas del I Colloquium Naturalist Vallesans, Sabadell*: 99-108.
- BARRIENTOS, J. A. & FERNANDEZ, D. 2015. Arañas (Arachnida, Araneae) del delta del Llobregat (Barcelona, España); primeros datos. *Revista Ibérica de Aracnología* **27**: 127-135.
- BARRIENTOS, J. A. & FERRANDEZ, M.A. 1982. La colección de araneidos del Departamento de Zoología de la Universidad de Salamanca, III: arañas migalomorfas, haploginas, y cribeladas. *Boletín de la Asociacion Espanola de Entomologia* **5**: 75-86.
- BARRIENTOS, J. A. & RIBERA, C. 1986. Els aràcnids. In ARMENGOL, J. *Història natural dels països Catalans. 9 Artròpodes (I)*. Fundació Encyclopédia Catalana, Barcelona, pp. 85-192.
- BARRIENTOS, J. A., URIBARRI, I. & GARCIA-SARRION, R. 2014. Arañas (Arachnida, Araneae) de un hayedo del Montseny (Cataluña, España). *Revista Ibérica de Aracnología* **24**: 3-14.
- BARRIENTOS, J. A., URIBARRI, I. & GARCIA-SARRION, R. 2015. Arañas (Arachnida, Araneae) del Turó de l'Home (Parc natural del Montseny, Cataluña, España). *Revista Ibérica de Aracnología* **27**: 61-74.
- BARRIENTOS, J. A., URIBARRI, I., GARCIA-SARRION, R., LUCIA ENRIQUEZ, M. & GIRALT, D. 2016. Arañas (Arachnida, Araneae) del Pla de Lleida (Lleida, España). *Revista Ibérica de Aracnología* **28**: 91-101.
- BAYRAM, A., DANISMAN, T., YIGIT, N., ÇORAK, I. & SANCAK, Z. 2007. Three linyphiid species new to the Turkish araneo-fauna: *Cresmatoneta mutinensis* (Canestrini, 1868), *Ostearius melanopygius* (O.P.-Cambridge, 1879) and *Trematocephalus cristatus* (Wider, 1834) (Araneae: Linyphiidae). *Serket* **10**: 82-85.

- BOIX, D., GASCON, S., MARTINOY, M., MONTSERRAT, E & SALA, J. 2005. *Fauna aquàtica de les Gavarres*. Biblioteca Lluís Esteva, Monells, 152 pp.
- BOLZERN, A., BURCKHARDT, D. & HÄNGGI, A. 2013. Phylogeny and taxonomy of European funnel-web spiders of the *Tegenaria-Maltonica* complex (Araneae: Agelenidae) based upon morphological and molecular data. *Zoological Journal of the Linnean Society* **168**: 723-848.
- BOSMANS, R. 1994. Revision of the genus *Zodarion* Walckenaer, 1833 in the Iberian Peninsula and Balearic Islands (Araneae, Zodariidae). *Eos* **69**: 115-142.
- BOSMANS, R. & DE KEER, R. 1985. Catalogue des araignées des Pyrénées, espèces citées, nouvelles récoltes et bibliographiques. *Institut Royal des Sciences Naturelles de Belgique Documents de Travail* **23**: 1-68.
- BOSMANS, R., VAN KEER, J., RUSSELL-SMITH, A., KRONESTEDT, T., ALDERWEIRELDT, M., BOSSELAERS, J. & DE KONINCK, H. 2013. Spiders of Crete (Araneae). A catalogue of all currently known species from the Greek island of Crete. *Nieuwsbrief van de Belgische Arachnologische Vereniging* **28(supplement 1)**: 1-147.
- BOSSELAERS, J. 2002. A cladistic analysis of Zoropsidae (Araneae), with the description of a new genus. *Belgian Journal of Zoology* **132(2)**: 141-154.
- BOSSELAERS, J. 2004. Some myxomycetes from the Baix Empordà region, Catalunya, Spain *Acta Botanica Croatica* **63(1)**: 1-15.
- BOSSELAERS, J. 2017. A new species of *Oonops* Templeton, 1835, (Araneae, Oonopidae) from the Gavarres, Baix Empordà, Catalonia. *Arachnology* **17(4)**: 195-200.
- BOSSELAERS, J. & VAN KEER, J. 2016. A redescription of *Harpactea dufouri* (Thorell, 1873) (Araneae, Dysderidae), its occurrence outside the Balearic Islands, and some notes on the corticalis group of the genus. *European Journal of Taxonomy* **222**: 1-13.
- BOSSELAERS, J., URONES, C., BARRIENTOS J. A. & ALBERDI, J. M. 2009. On the Mediterranean species of Trachelinae (Araneae, Corinnidae) with a revision of *Trachelas* L. Koch 1872 on the Iberian Peninsula. *Journal of Arachnology* **37**: 15-38.
- BOTEY I SERRA, J. 2005. *Finca de Fitor*. AGROFITOR, S.A., Barcelona, 31 pp.
- BRISTOWE, C. 1991. Are ant-aphid associations a tritrophic interaction? Oleander aphids and Argentine ants. *Oecologia* **87**: 514-521.
- CARDOSO, P. & MORANO, E. 2010. The Iberian spider checklist (Araneae). *Zootaxa* **2495**: 1-52.
- CUNI I MARTORELL, M. 1880. Excursión entomológica y botánica a San Miguel del Fay, Arbucias y Cumbres del Montseny. *Anales de la Sociedad Española de Historia Natural* **9**: 205-242.
- CUNI I MARTORELL, M. 1881. Excursión entomológica y botánica a la Cerdanya española (Cataluña). *Anales de la Sociedad Española de Historia Natural* **10**: 379-380.
- CUNI I MARTORELL, M. 1883. Resultado de una exploración entomológica y botánica por el término de La Garriga (Cataluña). *Anales de la Sociedad Española de Historia Natural* **12**: 91-93.
- CUNI I MARTORELL, M. 1885. Excursión entomológica a varias localidades de la provincia de Gerona (Cataluña). *Anales de la Sociedad Española de Historia Natural* **14**: 68-69.
- CUNI I MARTORELL, M. 1888. Insectos observados alrededor de Barcelona. *Anales de la Sociedad Española de Historia Natural* **17**: 189-191.
- CUNI I MARTORELL, M. 1889. Miscelánea entomológica. Arácnidos de Amer y Montserrat. *Anales de la Sociedad Española de Historia Natural* **18**: 295-299.
- CUNI I MARTORELL, M. 1898. Fauna entomológica de la villa de Calella (Cataluña, provincia de Barcelona). *Anales de la Sociedad Española de Historia Natural* **26**: 337-339.
- DALMAS, R. DE 1921. Monographie des araignées de la section des *Pterotricha* (Aran. Gnaphosidae). *Annales de la Société entomologique de France* **89**: 233-328.
- DENIS, J. 1938. A contribution to the knowledge of the spider fauna of the Andorra Valleys. *Proceedings of the zoological Society of London (B)* **107**: 565-595.
- FERRER I VERT, F. 1904. Alguns Articulats dels volants de Barcelona. *Butlletí de la Institució Catalana d'Història Natural*: 14-16.
- FERRER I VERT, F. 1908. Sobre alguns Artropods dels avençs. *Butlletí de la Institució Catalana d'Història Natural*: 98-99.
- FERRER MODOLELL, A. 1990. Aspectos metalogenéticos ligados al volcanismo explosivo calco-alcalino del ordovícico en los macizos de Les Guilleries y Les Gavarres (Cordilleras Costeras Catalanas). *Cuadernos do Laboratorio Xeolóxico de Laxe* **15**: 79-88.

- GIL IBARGUCHI, J., NAVIDAD, M. & ORTEGA, L. 1990. Ordovician and Silurian igneous rocks and orthogneisses in the Catalonian Coastal Ranges. *Acta Geologica Hispanica* **25(1-2)**: 23-29.
- GROPPALI, R., GUERCI, P. & PESARINI, C. 1998. Appunti sui Ragni (Arachnida, Araneae) della costa orientale di Eivissa (Ibiza), con la descrizione di una nuova specie: *Cyclosa groppalii* Pesarini (Araneidae). *Bulleti de la Societat d'Història Natural de les Balears* **41**: 65-74.
- GROVER, C., DAYTON, K., MENKE, S. & HOLWAY, D. 2008. Effects of aphids on foliar foraging by Argentine ants and the resulting effects on other arthropods. *Ecological Entomology* **33**: 101-106.
- HEIMER, S. & NENTWIG, W. 1991. *Spinnen Mitteleuropas: Ein Bestimmungsbuch*. Verlag Paul Parey, Berlin, 543 pp.
- HELDINGEN, P. J. VAN. 1969. A reclassification of the species of *Linyphia* Latreille based on the functioning of the genitalia (Araneida, Linyphiidae), I. *Zoologische Verhandelingen Leiden* **105**: 1-303
- JUANOLA I GIRALT, M. 2003. *Flora singular de les Gavarres*. Biblioteca Lluís Esteva, Monells, 126 pp.
- JUANOLA I GIRALT, M. & VILAR, L. 1997. La flora vascular del massís de les Gavarres. *Scientia gerundensis* **23**: 73-108.
- LEDOUX, J.-C. 2004. De araneis Galliae. I.6, *Nomisia henryi* Denis, 1934 = *N. celerrima* (Simon, 1914). *Revue arachnologique* **15**: 21.
- LE PERU, B. 2011. The spiders of Europe, a synthesis of data: Volume 1 Atypidae to Theridiidae. *Mémoires de la Société Linnéenne de Lyon* **2**: 1-522.
- LEVY, G. 1998. Twelve genera of orb-weaver spiders (Araneae, Araneidae) from Israel. *Israel Journal of Zoology* **43**: 311-365.
- LEVY, G. & AMITAI, P. 1982. The comb-footed spider genera *Theridion*, *Achaearanea* and *Anelosimus* of Israel (Araneae: Theridiidae). *Journal of Zoology, London* **196**: 81-131.
- LISSNER, J. 2017a. New records of spiders (Araneae) from Portugal. *Arachnologische Mitteilungen/Arachnology Letters* **54**: 52-58.
- LISSNER, J. 2017b. A contribution to the knowledge of *Rhomphaea* L. Koch, 1872 (Araneae: Theridiidae) in the Mediterranean and Macaronesian regions. *Arachnology* **17(6)**: 287-293.
- LOCKET, G. H. & MILLIDGE, A. F. 1951. *British spiders*. Ray Society, London, **1**: 1-310.
- LOCKET, G. H. & MILLIDGE, A. F. 1953. *British spiders*. Ray Society, London, **2**: 1-449.
- LOCKET, G. H., MILLIDGE, A. F. & MERRETT, P. 1974. *British Spiders, Volume III*. Ray Society, London, 315 pp.
- MCGILL, B. J., ETIENNE, R. S., GRAY, J. S., ALONSO, D., ANDERSON, M. J., BENECHA, H. K., DORNELAS, M., ENQUIST, B. J., GREEN, J. L., HE, F., HURLBERT, A. H., MAGURRAN, A. E., MARQUET, P. A., MAURER, B. A., OSTLING, A., SOYKAN, C. U., UGLAND, K. I. & WHITE, E. P. 2007. Species abundance distributions: moving beyond single prediction theories to integration within an ecological framework. *Ecology Letters* **10**: 995-1015.
- METZNER, H. 1999. Die Springspinnen (Araneae, Salticidae) Griechenlands. *Andrias* **14**: 1-279.
- MILLIDGE, A. F. 1984. The taxonomy of the Linyphiidae, based chiefly on the epigynal and tracheal characters (Araneae: Linyphiidae). *Bulletin of the British arachnological Society* **6**: 229-267.
- MORANO, E., CARRILLO, J. & CARDOSO, P. 2014. Iberian spider catalogue (v3.1). Available online at: <http://www.ennor.org/iberia>
- MUSTER, C. & THALER, K. 2004. New species and records of Mediterranean Philodromidae (Arachnida, Araneae): I. *Philodromus aureolus* group. In: THALER, K. (ed.) Diversität und Biologie von Webspinnen, Skorpione und anderen Spinnentieren. *Denisia* **12**: 305-326.
- MYERS, N., MITTERMEIER, R. A., MITTERMEIER, C. G., DA FONSECA, G. A. B. & KENT, J. 2000. Biodiversity hotspots for conservation priorities. *Nature* **403**: 853-858.
- NENTWIG, W., BLICK, T., GLOOR, D., HÄNGGI, A. & KROPP, C. 2017. *Araneae. Spiders of Europe*. Available online at: <http://www.araneae.unibe.ch/>
- OGER, P. 2017. Les araignées de Belgique et de France. Available from: <http://arachno.piwigo.com/> (Last accessed November 28, 2017).
- PEREZ ACOSTA, F. 1919. Los Aracnídos de Cataluña. Catálogo sistemático-crítico. *Treballs de la Institució Catalana d'Història Natural* **6**: 6-72.

- PEREZ DE-GREGORIO, J. & RONDOS, M. 2005. Fauna lepidopterològica de la serra de les Gavarres (I). *Sessio Conjuncta d'Entomologia ICHN-SCL Barcelona* **13**: 13-35.
- PERERA, A. 1989. Estudi dels Aracnids (escorpins, pseudoescorpins, aranyes, opilions) d'un alzinar mediterrani muntanyenc: la serra de l'Obac. In "I, trobada d'estudis de Sant Llorenç del Munt i l'Obac." *Servei de Parcs Naturals de la Diputacion de Barcelona* **51**.
- PICKARD-CAMBRIDGE, O. 1872. General list of the spiders of Palestine and Syria, with descriptions of numerous new species, and characters of two new genera. *Proceedings of the zoological Society of London* **1871**: 212-354.
- PROSZYNSKI, J. 2016. Monograph of Salticidae (Araneae) of the World 1995-2015. Part II. Global Species Database of Salticidae (Araneae). Version May 5th, 2016, available online at: <http://www.peckhamia.com/salticidae/index.html>.
- RAMIREZ, M. 2014. The morphology and phylogeny of dionychan spiders (Araneae: Arameomorphae). *Bulletin of the American Museum of natural History* **390**: 1-374.
- REIMOSER, E. 1926. Arachniden aus dem nordlichen und ostlichen Spanien. *Senckenbergiana Biologica* **8**: 132-136.
- REZAC, M., ARNEDO, M., OPATOVA, V., MUSILOVA, J., REZACOVA, V. & KRAL, J. 2018. Taxonomic revision and insights into the speciation mode of the spider *Dysdera erythrina* species-complex (Araneae: Dysderidae): sibling species with sympatric distributions. *Invertebrate Systematics* **32**: 10-54.
- RIBERA, C. 1977. Contribución al conocimiento de la fauna cavernícola de Cataluña. Familia Agelenidae. *Comunicaciones del VI Simposium de Espeleología*: 153-155.
- RIBERA, C. 1989. Araneidos cavernícolas de la isla de Menorca. *Endins*, **14-15**: 81-83.
- ROBERTS, M. J. 1985. *The spiders of Great Britain and Ireland, Volume 1: Atypidae to Theridiosomatidae*. Harley Books, Colchester, England, 229 pp.
- ROBERTS, M. J. 1987. *The spiders of Great Britain and Ireland, Volume 2: Linyphiidae and check list*. Harley Books, Colchester, England, 204 pp.
- ROBERTS, M. J. 1993. Appendix to *The spiders of Great Britain and Ireland*. Harley Books, Colchester, England, 16 pp.
- ROBERTS, M. J. 1998. *Spinnengids*. Tirion, Baarn, Netherlands, 397 pp.
- ROQUE I PAU, C. & PALLI I BUZO, L. 1994. Geologia del massís de les Gavarres. *Estudis sobre el Baix Empordà*, Extret del volum N° 13: 98 pp.
- SABATER, D., VIÑAS, X., CORTADELLAS, X., BISBE, E., ABEL, J. & PONÇ, F. 2005. *Guia d'itineraris. Les Gavarres espai natural*. Brau edicions, Figueres, 149 pp.
- SANCHEZ, I. & BOSMANS, R. 2017. Novedades aracnológicas para la provincia de Cádiz (S de España). *Revista de la sociedad Gaditana de historia natural* **11**: 33-52.
- SEGERS, H. 1992. Nomenclatural notes on, and redescriptions of some little-known species of the *Philodromus aureolus* group (Araneae: Philodromidae). *Bulletin of the British Arachnological Society* **9**: 19-25.
- SENGLET, A. 1973. Note sur les *Spermophora* (Araneae: Pholcidae) méditerranéens. *Bulletin de la société entomologique Suisse* **45(4)**: 307-319.
- SIMON, E. 1914. *Les arachnides de France. Tome VI. Synopsis générale et catalogue des espèces françaises de l'ordre des Araneae; 1re partie*. Paris, **6**: 1-308.
- SIMON, E. 1926. *Les arachnides de France. Tome VI. Synopsis générale et catalogue des espèces françaises de l'ordre des Araneae; 2e partie*. Paris, **6**: 309-532.
- SIMON, E. 1929. *Les arachnides de France. Tome VI. Synopsis générale et catalogue des espèces françaises de l'ordre des Araneae; 3e partie*. Paris, **6**: 533-772.
- SIMON, E. 1932. *Les arachnides de France. Tome VI. Synopsis générale et catalogue des espèces françaises de l'ordre des Araneae; 4e partie*. Paris, **6**: 773-978.
- SIMON, E. 1937. *Les arachnides de France. Tome VI. Synopsis générale et catalogue des espèces françaises de l'ordre des Araneae; 5e et dernière partie*. Paris, **6**: 979-1298.
- WESOLOWSKA, W., & SZEREMETA, M. 2001. A revision of the ant-like salticid genera *Enoplomischus* Giltay, 1931, *Kima* Peckham & Peckham, 1902 and *Leptorchestes* Thorell, 1870 (Araneae: Salticidae). *Insect Systematics & Evolution* **32**: 217-240.
- WORLD SPIDER CATALOG, 2017: World Spider Catalog. Natural History Museum, Bern. Available from <http://wsc.nmbe.ch>, version 18.5 [last accessed on 27 November 2017].

- WUNDERLICH, J. 1987. *Die Spinnen der Kanarischen Inseln und Madeiras: Adaptive Radiation, Biogeographie, Revisionen und Neubeschreibungen*. Triops Verlag, Langen, West Germany, 435 pp.
- WUNDERLICH, J. 2008. On extant and fossil (Eocene) European comb-footed spiders (Araneae: Theridiidae), with notes on their subfamilies, and with descriptions of new taxa. *Beiträge zur Araneologie* 5: 140-469.

## Appendix I

### Sampling locations in the Gavarres (Appendix II, Figure 1)

Zone A: Northern, high altitude region of the western "Angels-Arques" block.

1. Els Angels, top of hill, mixed wood around monastery. N41°59', E02°54', 440-450 m asl (Photo 253).
2. Montnegre, roadside on hilltop, with maquis and dry grassland. Granite bedrock and paleozoic carbonates. N41°57.5', E02°56', 310-320 m asl (Photo 254).

Zone B: Valley of Rio Darò.

3. Sant Sadurní de l'Heura, river banks in wood. N41°56', E02°58', 90 m asl (Photo 255).
4. Sant Sadurní de l'Heura, small stream and field border at road to "Els Metges". N41°57', E02°58', 90 m asl
5. Sant Sadurní de l'Heura, banks of small stream close to village. N41°57', E02°58.5', 90 m asl
6. Cruilles, banks of Rio Darò. N41°56.5', E03°00', 55 m asl (Photo 256).

Zone C: Central region of western "Angels-Arques" block.

7. Santa Pellaia, along track on hillslope in mixed wood. N41°55', E02°55', 365 m asl
8. Can Gironès ("Can Daró"), vegetation along mountain stream. N41°53.5', E02°57.5', 295 m asl (Photo 257).
9. Sant Cebrià de Lledó ("Els Metges"), mixed wood on rocky hilltop. N41°55', E02°58', 375 m asl

Zone D: Central region of eastern "Fitor" block.

10. Fitor, Mas Cals, maquis near small stream crossing hilltrack. N41°55', E03°05', 180 m asl (Photo 258).
11. Fitor, Mas Playa, maquis near water container. N41°55', E03°06', 250 m asl
12. Fitor, Planes d'en Torroella, border of cultivated land. N41°54.5', E03°06', 260 m asl
13. Fitor, Can Puig de Fitor, abandoned village, grassland on rocky hilltop. N41°54', E03°05', 280 m asl (Photo 259).

Zone E: Eastern border region of "Fitor" block.

14. Llofriú, maquis along track to Fitor. N41°56', E03°07', 180 m asl
15. Mont Ras, maquis vegetation around former quarry with pond. N41°55', E03°08.5', 100 m asl
16. Mont Ras, cork oak wood around bridge over small mountain stream. N41°54.5', E03°07.5', 110 m asl (Photo 260).
17. Mont Ras, banks of mountain stream in mixed wood. N41°54', E03°08', 90 m asl
18. Vall Llobregat, maquis along hilltrack.

Zone F: Coastal region around Palamós.

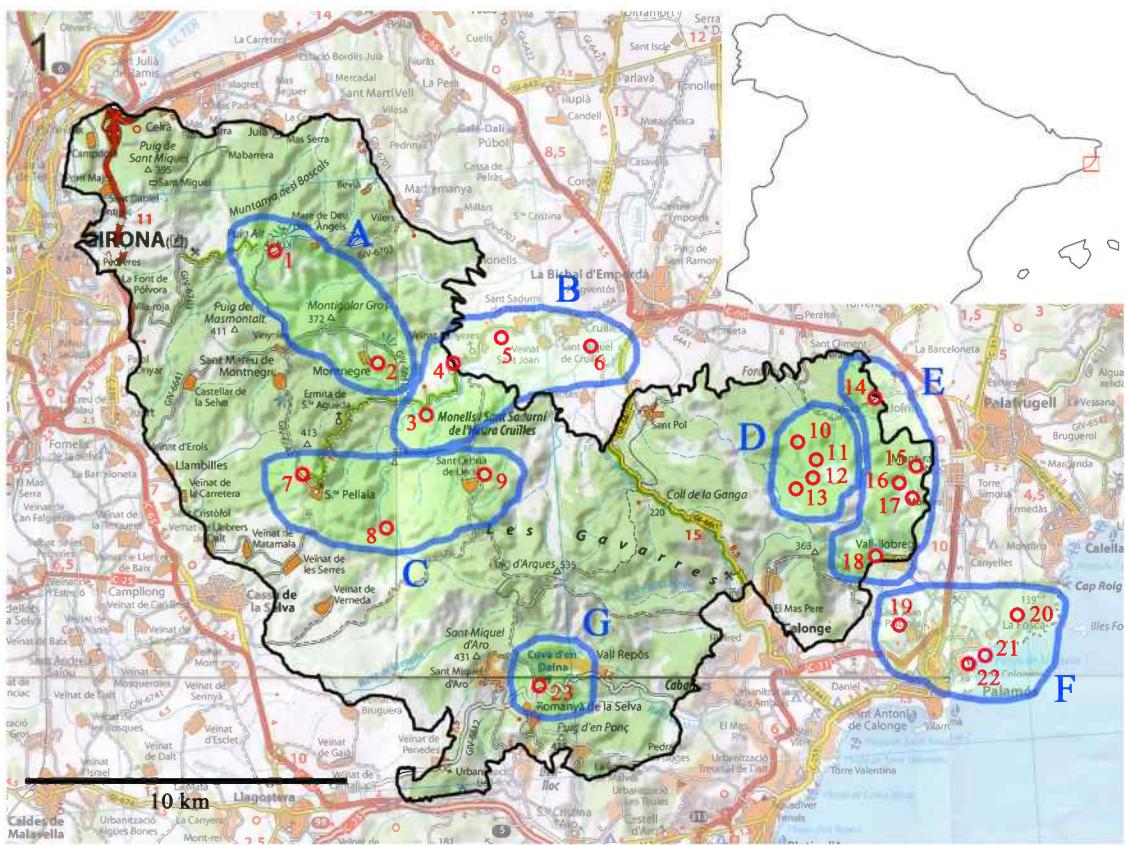
19. Sant Joan de Palamós, riverside with *Vitex agnus-castus*. N41°52', E03°07.5', 25 m asl (Photo 261).
20. Castell, Puig Boter, coastal maquis with *Erica arborea*. N41°52', E03°10', 45 m asl
21. Palamós, La Fosca, rocky bay at sea. N41°51', E03°09', 15 m asl (Photo 262).
22. Palamós, Cap Gros, coastal pine wood with undergrowth. N41°51', E03°08.5', 55 m asl (Photo 263).

Zone G: Southern, granitic part of "Angels-Arques" block.

23. Romanyà de la Selva, mixed wood. N41°51.5', E02°59', 325 m asl (Photo 264.)

## **Appendix II**

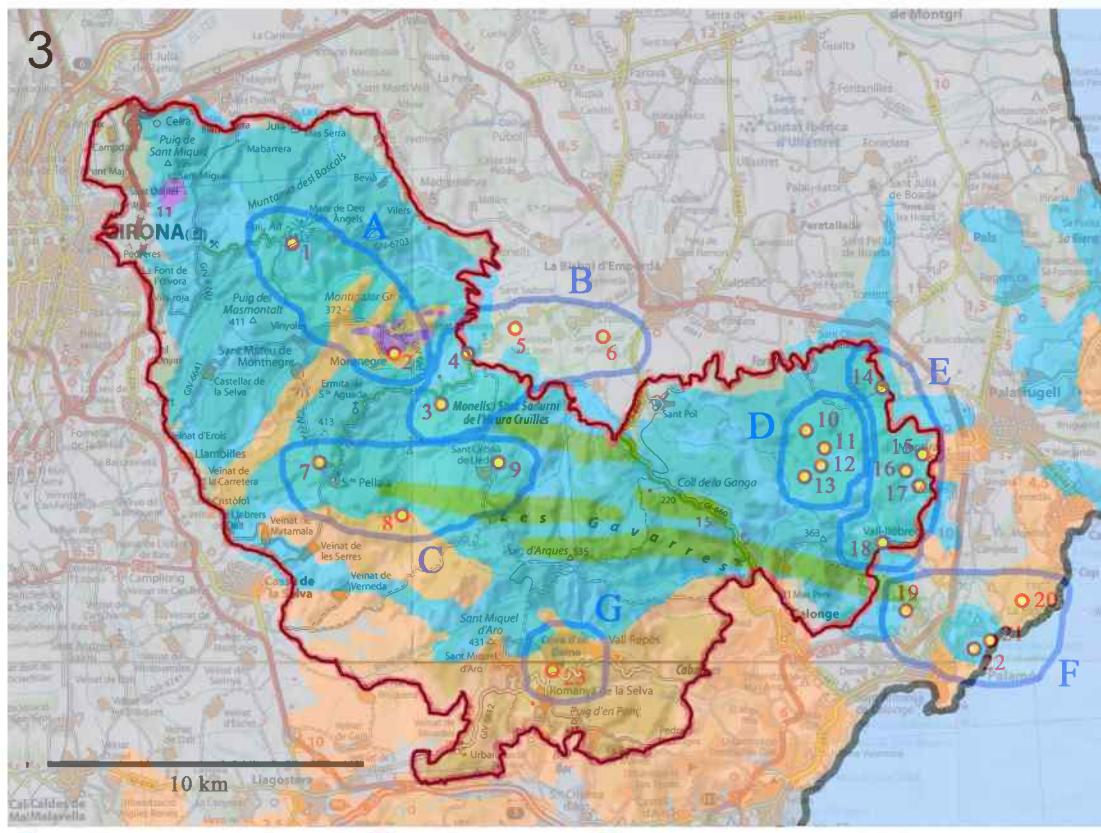
### **Figures**



Legend:

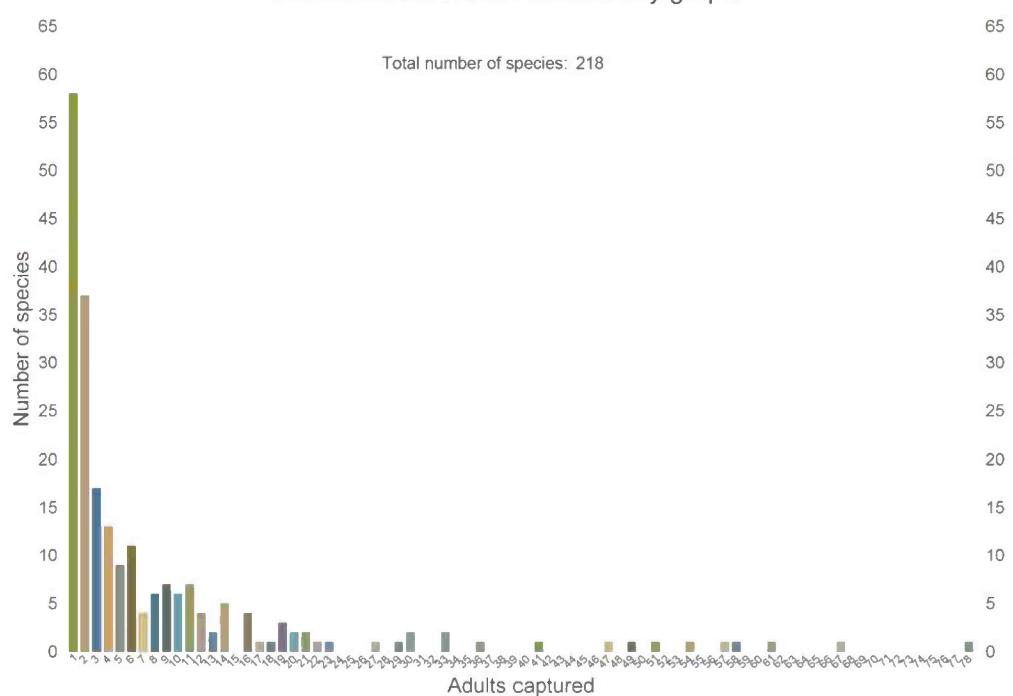
- Undifferentiated paleozoic rocks
- Paleozoic carbonates
- Ordovician volcanic acid rocks
- Granitoids
- Post mesozoic rocks

Figures 1-2. 1. Sampling locations in the Gavarres. For details, see Appendix I. 2. Geology of the Gavarres, adapted from IBARGUCHI *et al.* (1990).



**4**

Gavarres 2012-2013 Abundance graph



Figures 3-4. 3. Sampling locations superimposed on geology of the Gavarres. 4. Abundance curve of the specimens collected.

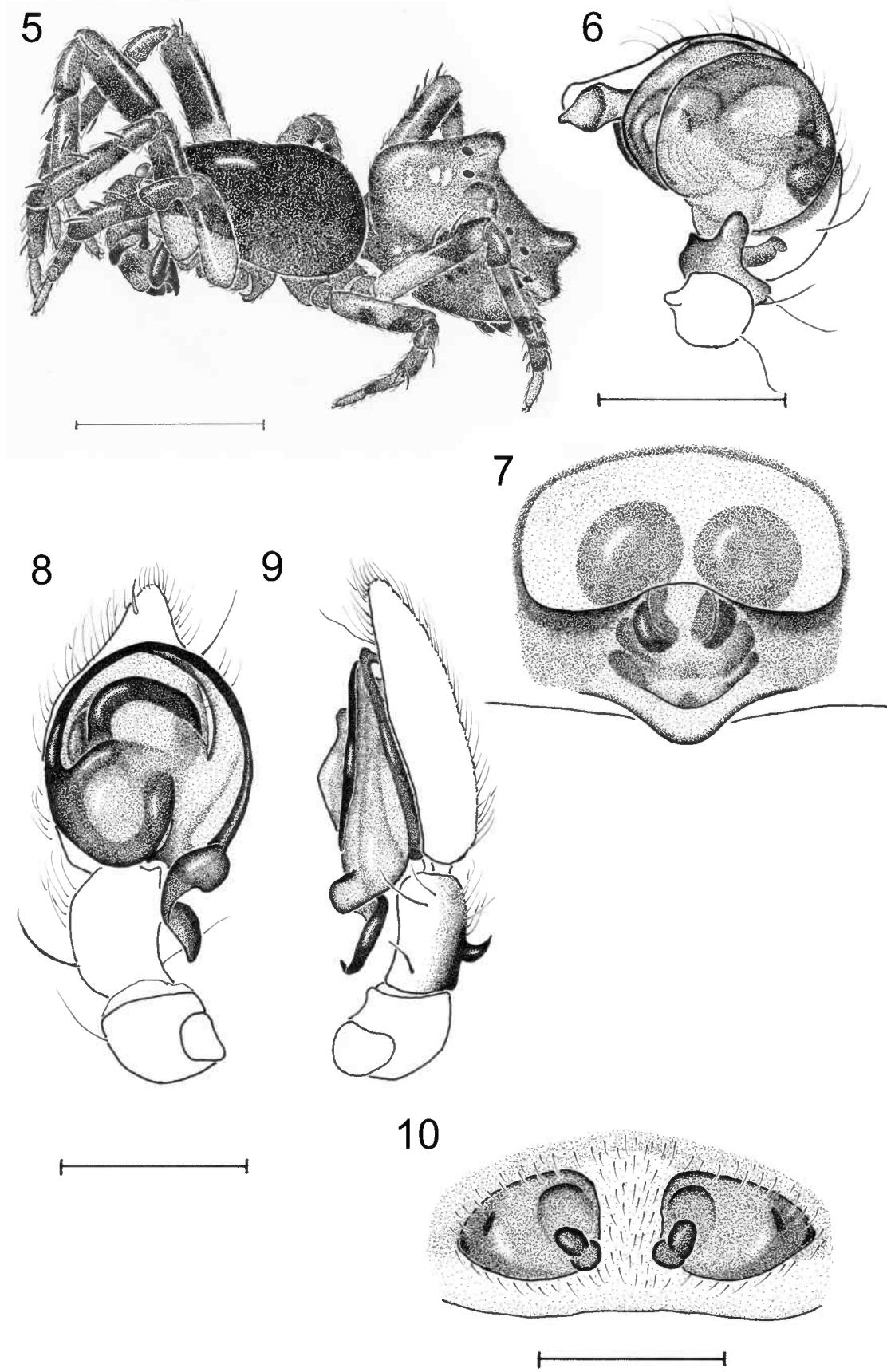
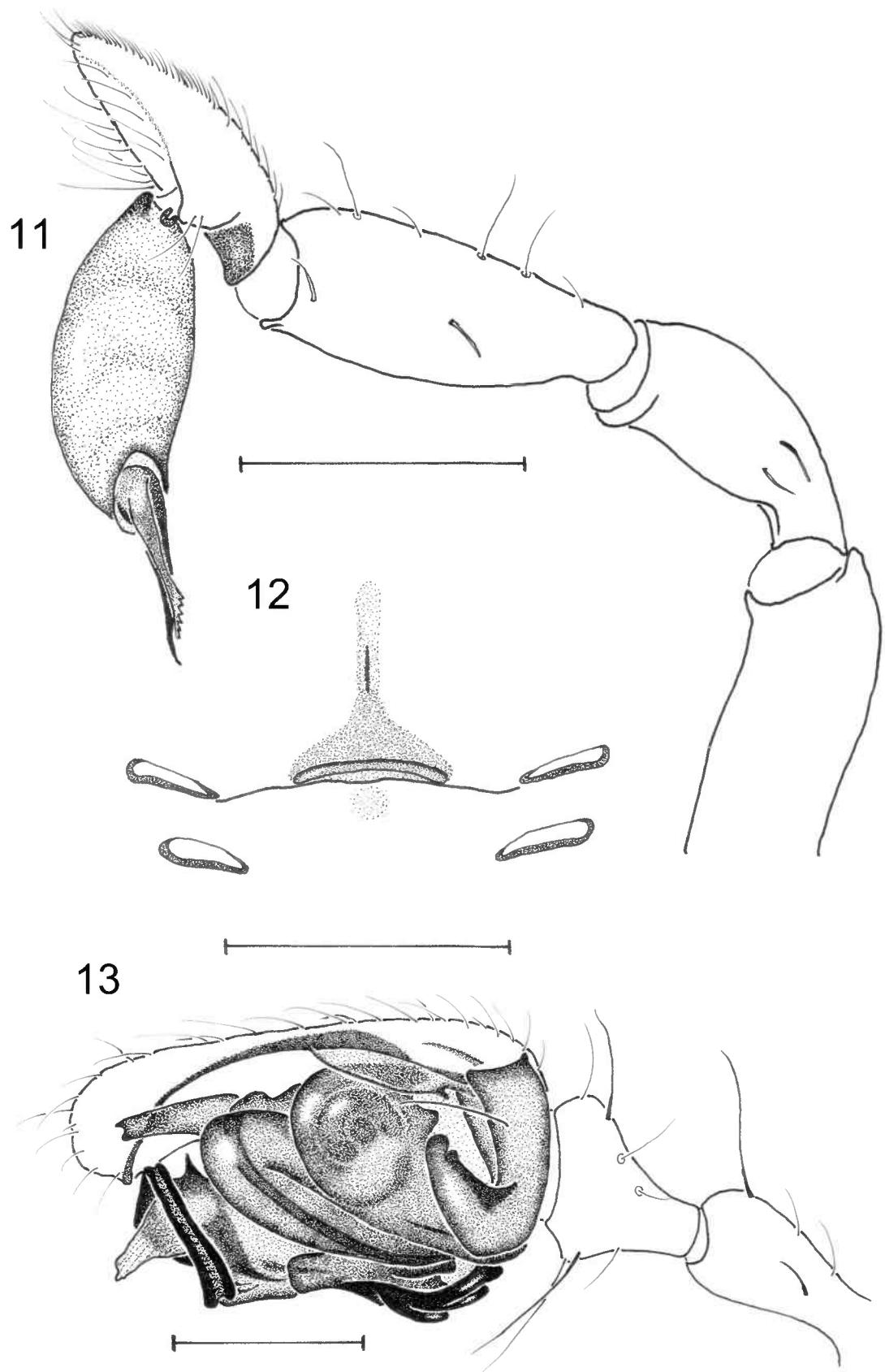


Figure 5. *Cyclosa groppalii*. 5. Male habitus. Scale bar: 1 mm. Figures 6-7. *Cyrtarachne ixoides*. 6. Male palp; 7. Epigyne. Scale bar: 0.25 mm. Figures 8-10. *Dictyna kosiorowiczi*. 8. Male palp, ve; 9. Male palp, rl; 10. Epigyne. Scale bars: 0.25 mm.



Figures 11-12. *Harpactea dufouri*. Adapted from BOSSELAERS & VAN KEER (2016). 11. Male palp.  
12. Epigyne. Scale bars: 0.5 mm. Figure 13. *Cresmatoneta mutinensis*. 13. Male palp. Scale bar: 0.25 mm.

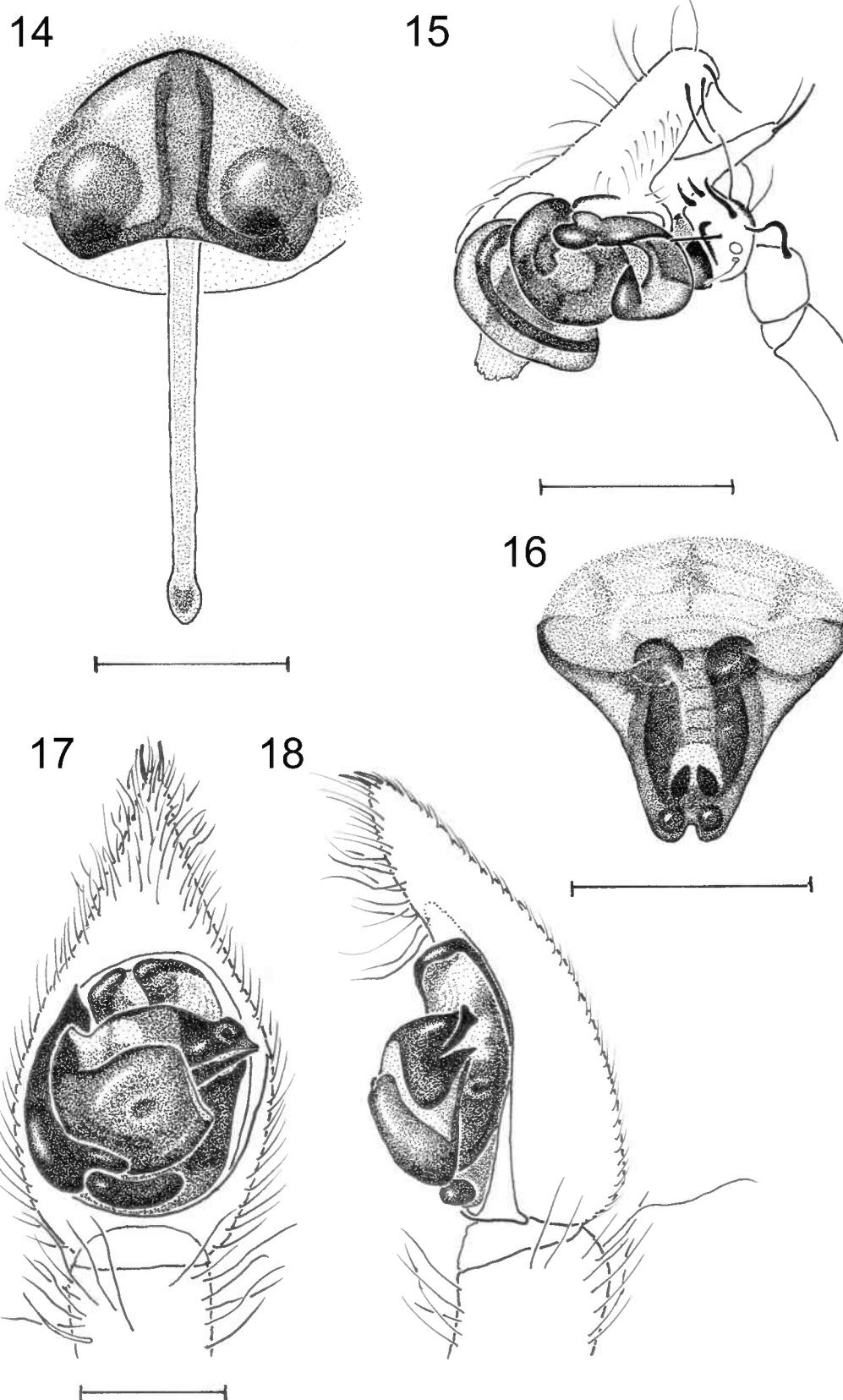
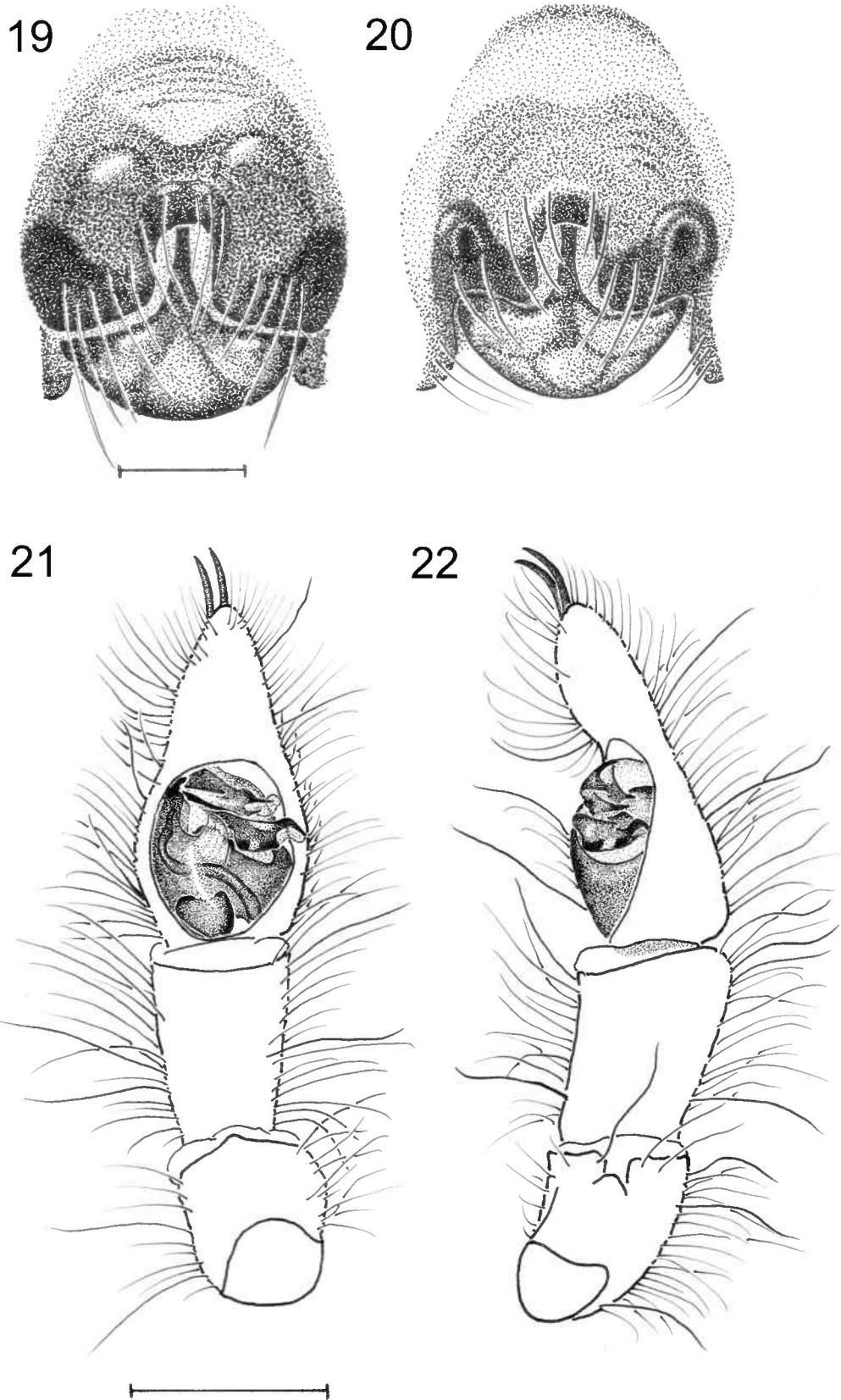


Figure 14. *Cresmatoneta mutinensis*. 14. Epigyne. Scale bar: 0.25 mm. Figures 15-16. *Sintula diceros*. 15. Male palp. 16. Epigyne. Scale bars: 0.25 mm. Figures 17-18. *Alopecosa laciniosa*. 17. Male palp, ve. 18. Male palp, rl. Scale bar: 0.5 mm.



Figures 19-20. *Alopecosa laciniosa*. 19. Epigyne. 20. Epigyne, variation. Scale bar: 0.25 mm. Figures 21-22. *Arctosa lacustris*. 21. Male palp, ve. 22. Male palp, rl. Scale bar: 0.5 mm.

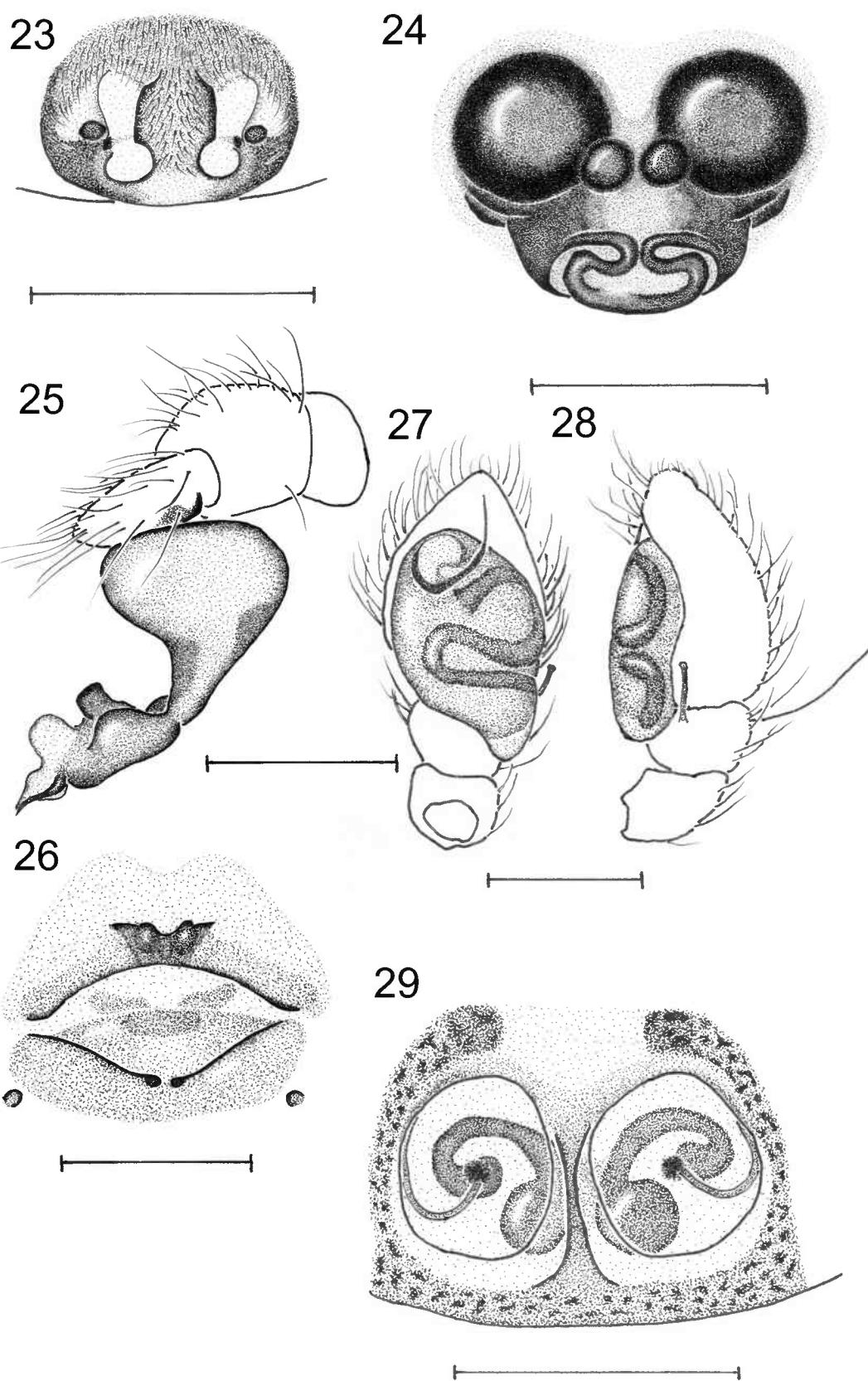


Figure 23. *Arctosa lacustris*. 23. Epigyne. Scale bar: 0.5 mm. Figure 24. *Ero flammeola*. 24. Epigyne. Scale bar: 0.25 mm. Figures 25-26. *Oonops gavarrensis*. Adapted from BOSELLAERS, 2017. 25. Male palp. 26. Epigyne. Scale bars: 0.25 mm. Figures 27-28 *Euophrys nigripalpis*. 27. Male palp, ve. 28. Male palp, rl. Scale bar: 0.25 mm. Figure 29. *Euophrys innotata*. 29. Epigyne. Scale bar: 0.25 mm.

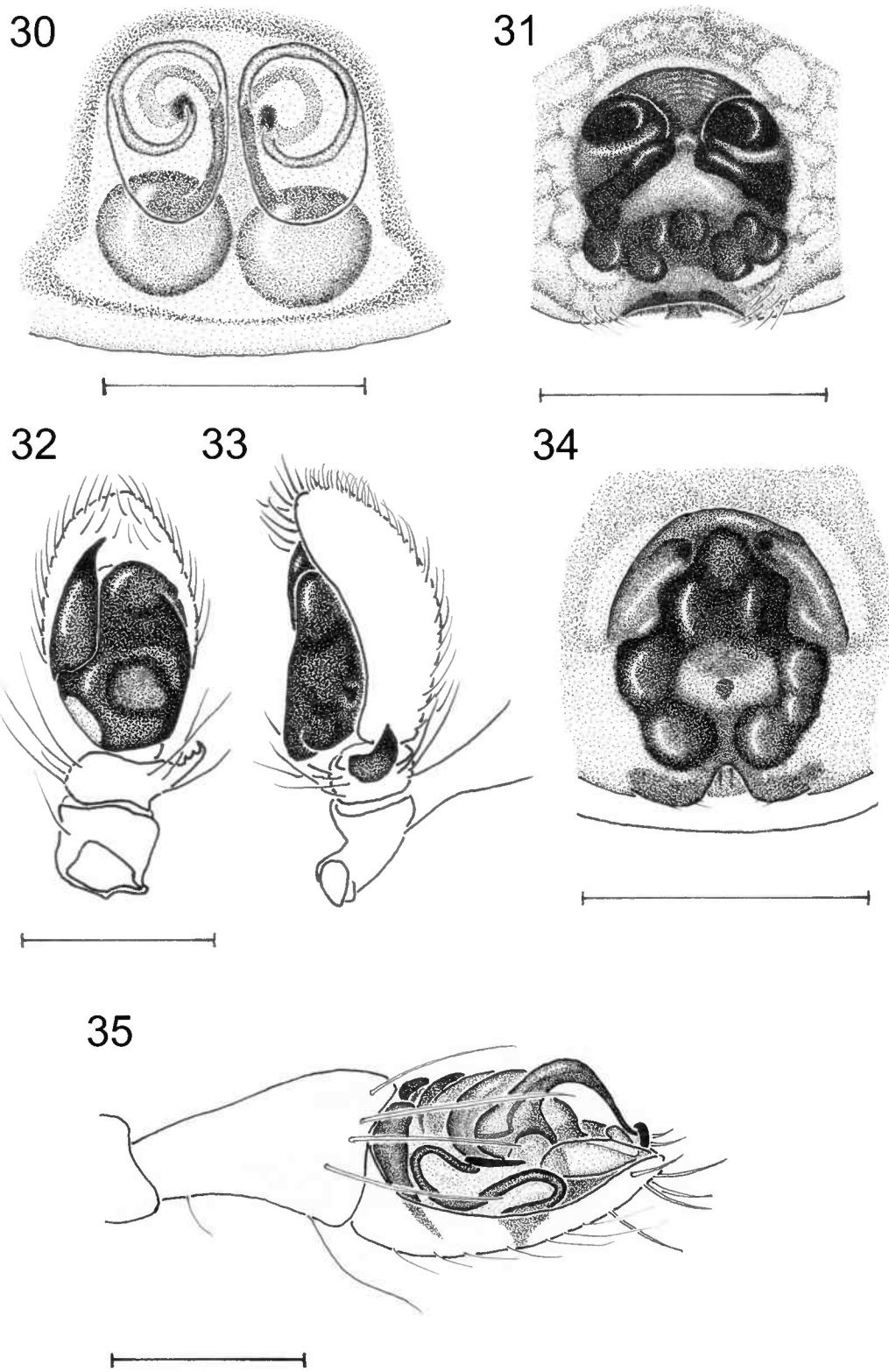
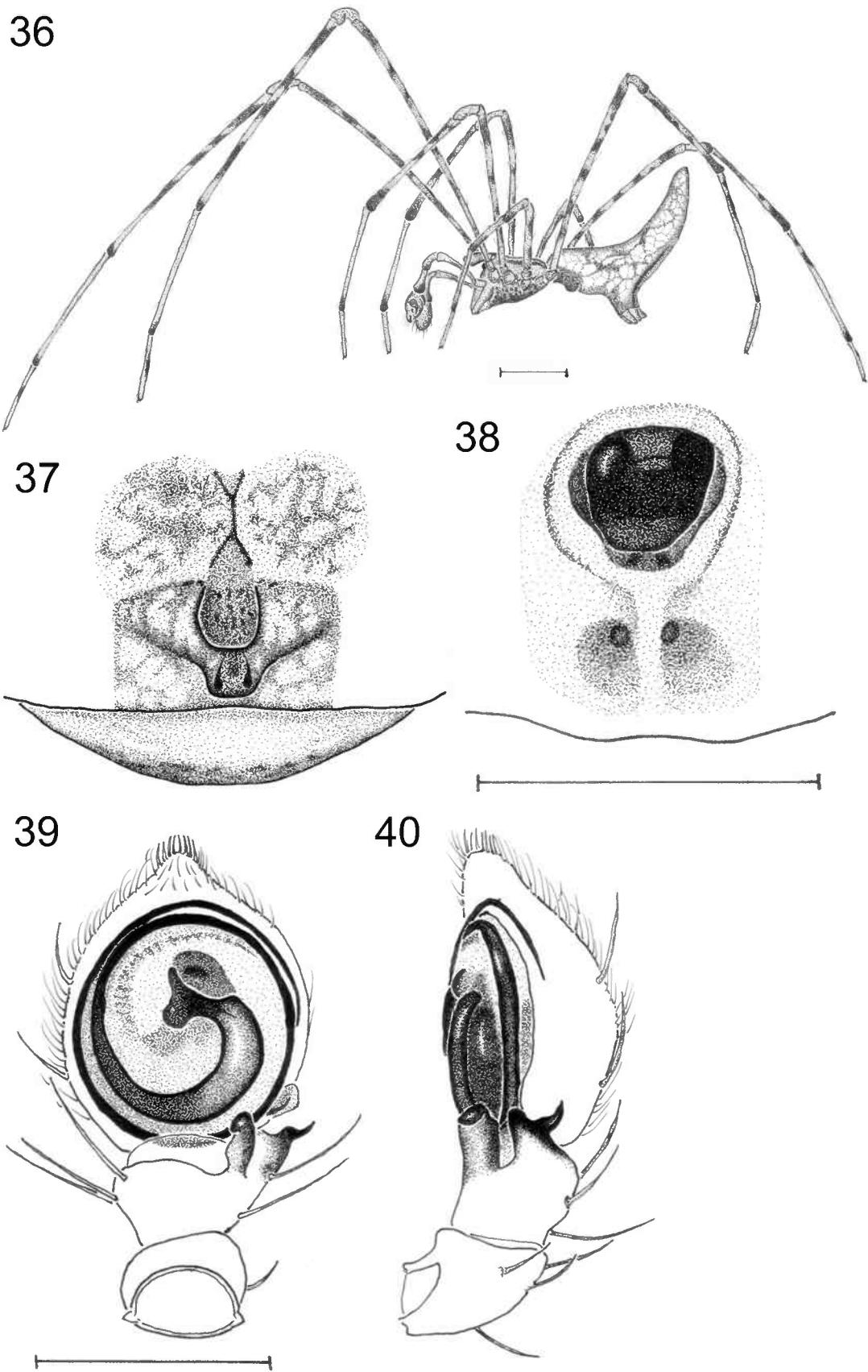
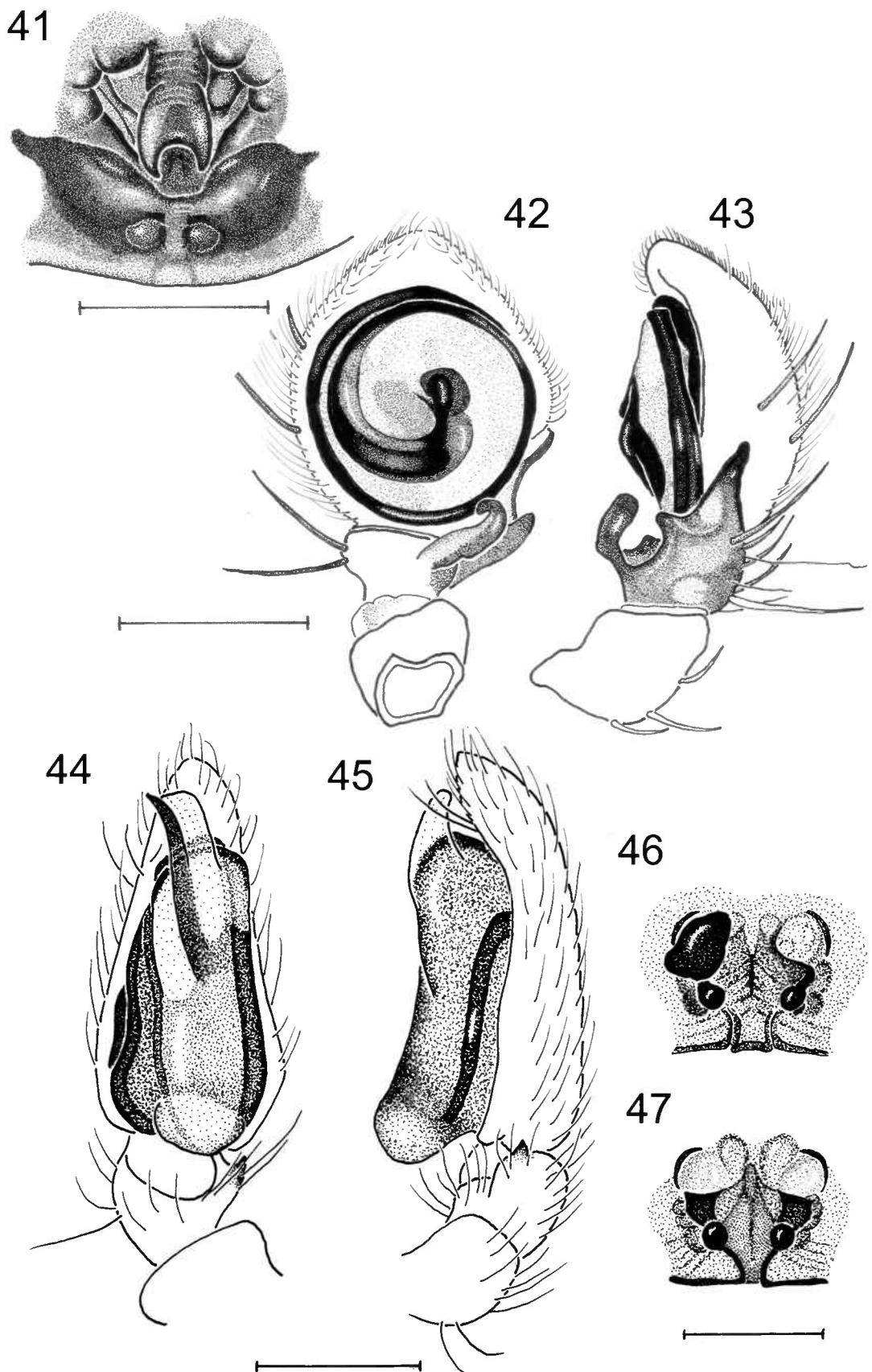


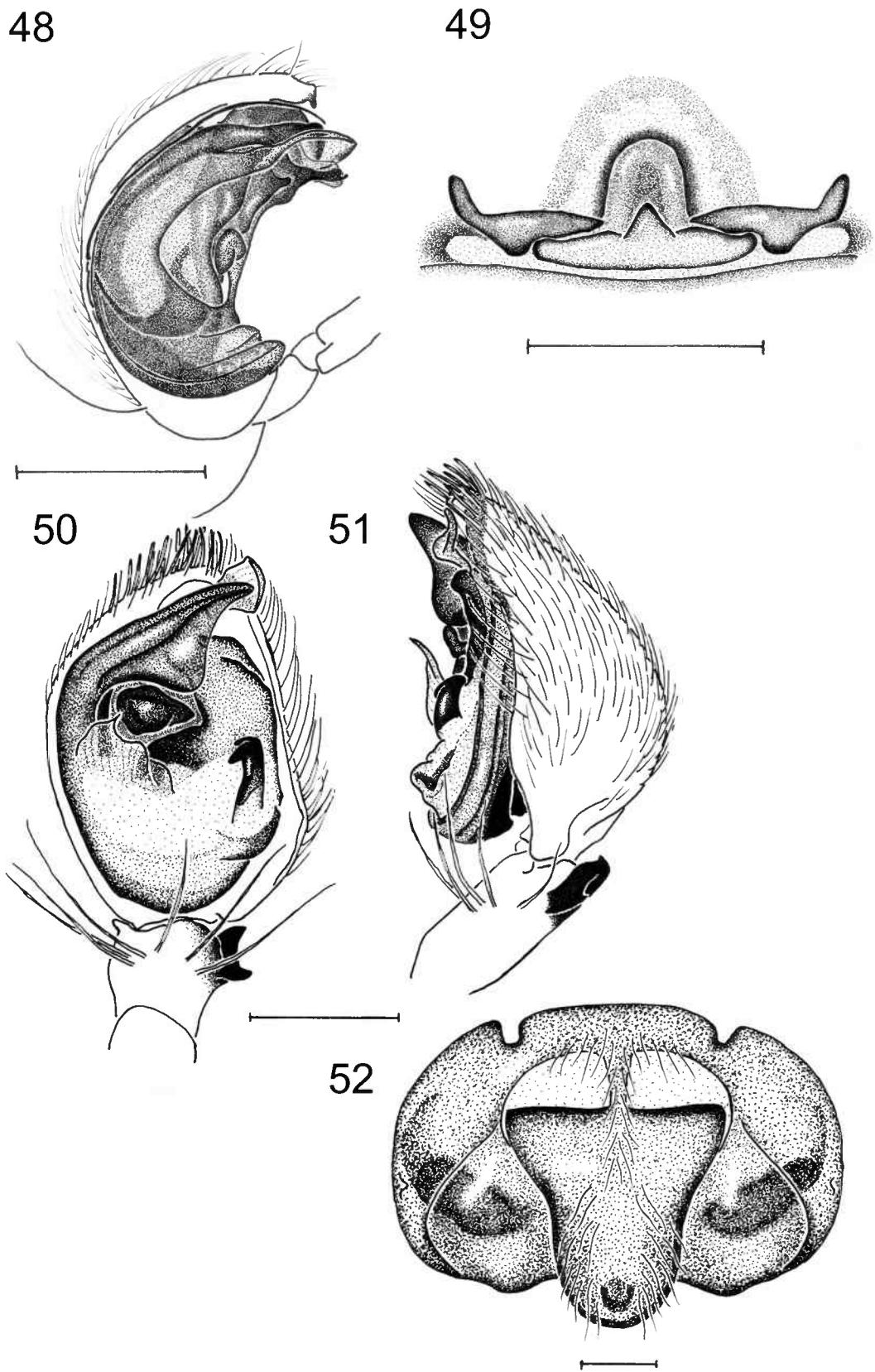
Figure 30. *Euophrys nigripalpis*. 30. Epigyne. Scale bar: 0.25 mm. Figure 31. *Leptorchestes berolinensis*. 31. Epigyne. Scale bar: 0.5 mm. Figures 32-34. *Leptorchestes peresi*. 32. Male palp, ve. 33. Male palp, rl. 34. Epigyne. Scale bars: 0.5 mm. Figure 35. *Rhomphaea nasica*. 35. Male palp. Scale bar: 0.25 mm.



Figures 36-37. *Rhomphaea nasica*. 36. Male habitus. 37. Epigyne. Scale bars: 36: 1 mm; 37: 0.25 mm.  
 Figures 38-40. *Tmarus staintoni*. 38. Epigyne. 39. Male palp, ve. 40. Male palp, rl. Scale bars: 0.5 mm.



Figures 41-43. *Xysticus bufo*. 41. Epigyne. 42. Male palp, ve. 43. Male palp, rl. Scale bars: 0.5 mm.  
 Figures 44-47. *Paratrachelas ibericus*. Adapted from BOSSELAERS et al. (2009). 44. Male palp, ve.  
 45. Male palp, rl. 46. Epigyne, left side plugged. 47. Epigyne. Scale bars: 0.25 mm.



Figures 48-49. *Hyptiotes flavidus*. 48. Male palp. 49. Epigyne. Scale bars: 48, 0.5 mm; 49, 0.25 mm.  
 Figures 50-52. *Zoropsis media*. Adapted from BOSSELAERS (2002). 50. Male palp, ve. 51, Male palp, rl. 52. Epigyne. Scale bars: 50, 51, 0.5 mm; 52, 0.25 mm.

## **Appendix III**

### **Photographs**



1. *Agelena labyrinthica* (Clerck, 1757),  
male



2. *Agelena labyrinthica* (Clerck, 1757),  
female



3. *Amaurobius erberi* (Keyserling, 1863),  
male



4. *Amaurobius erberi* (Keyserling, 1863),  
female



5. *Amaurobius similis* (Blackwall, 1861),  
male



6. *Amaurobius similis* (Blackwall, 1861),  
female



7. *Anelosimus pulchellus* (Walckenaer, 1802), male



8. *Anelosimus pulchellus* (Walckenaer, 1802), female



9. *Anyphaena accentuata* (Walckenaer, 1802), male



10. *Anyphaena accentuata* (Walckenaer, 1802), female



11. *Aphantaulax cincta* (L. Koch, 1866), male



12. *Aphantaulax cincta* (L. Koch, 1866), female



13. *Araneus diadematus* Clerck, 1757,  
male



14. *Araneus diadematus* Clerck, 1757,  
female



15. *Araneus sturmi* (Hahn, 1831),  
male



16. *Araneus sturmi* (Hahn, 1831),  
female



17. *Araneus triguttatus* (Fabricius, 1793),  
male



18. *Araneus triguttatus* (Fabricius, 1793),  
female



19. *Argiope bruennichi* (Scopoli, 1772), male



20. *Argiope bruennichi* (Scopoli, 1772), female



21. *Argyrodes argyrodes* (Walckenaer, 1841), male



22. *Argyrodes argyrodes* (Walckenaer, 1841), female



23. *Ballus chalybeius* (Walckenaer, 1802), male



24. *Ballus chalybeius* (Walckenaer, 1802), female



25. *Carrhotus xanthogramma* (Latreille, 1819), male



26. *Carrhotus xanthogramma* (Latreille, 1819), female



27. *Cetonana laticeps* (Canestrini, 1868), male



28. *Cetonana laticeps* (Canestrini, 1868), female



29. *Cheiracanthium mildei* L. Koch, 1864, male



30. *Cheiracanthium mildei* L. Koch, 1864, female



31. *Civizelotes medianus* (Denis, 1935),  
male



32. *Civizelotes medianus* (Denis, 1935),  
female



33. *Clubiona brevipes* Blackwall, 1841,  
male



34. *Clubiona brevipes* Blackwall, 1841,  
female



35. *Clubiona comta* C. L. Koch, 1839,  
male



36. *Clubiona comta* C. L. Koch, 1839,  
female



37. *Clubiona leucaspis* Simon, 1932,  
male



38. *Clubiona leucaspis* Simon, 1932,  
female



39. *Cresmatoneta mutinensis* (Canestrini,  
1868), male



40. *Cresmatoneta mutinensis* (Canestrini,  
1868), female



41. *Cyclosa algerica* Simon, 1885,  
male



42. *Cyclosa algerica* Simon, 1885,  
female



43. *Cyclosa conica* (Pallas, 1772),  
male



44. *Cyclosa conica* (Pallas, 1772),  
female



45. *Cyrba algerina* (Lucas, 1846),  
male



46. *Cyrba algerina* (Lucas, 1846),  
female



47. *Cyrtarachne ixoides* (Simon, 1870),  
male



48. *Cyrtarachne ixoides* (Simon, 1870),  
female



49. *Dictyna kosiorowiczi* Simon, 1873,  
male



50. *Dictyna kosiorowiczi* Simon, 1873,  
female



51. *Drassodes lapidosus* (Walckenaer,  
1802), male



52. *Drassodes lapidosus* (Walckenaer,  
1802), female



53. *Dysdera erythrina* (Walckenaer, 1802),  
male



54. *Dysdera erythrina* (Walckenaer, 1802),  
female



55. *Ebrechtella tricuspidata* (Fabricius, 1775), male



56. *Ebrechtella tricuspidata* (Fabricius, 1775), male



57. *Enoplognatha testacea* Simon, 1884, male



58. *Enoplognatha testacea* Simon, 1884, female



59. *Episinus algirus* Lucas, 1846, male



60. *Episinus algirus* Lucas, 1846, female



61. *Episinus maculipes* Cavanna, 1876,  
male



62. *Episinus maculipes* Cavanna, 1876,  
female



63. *Eratigena agrestis* (Walckenaer, 1802),  
male



64. *Eratigena agrestis* (Walckenaer, 1802),  
female



65. *Eratigena atrica* (C. L. Koch, 1843),  
male



66. *Eratigena atrica* (C. L. Koch, 1843),  
female



67. *Eratigena fuesslini* (Pavesi, 1873), male



68. *Eratigena fuesslini* (Pavesi, 1873), female



69. *Euophrys innotata* (Simon, 1868), female



70. *Euophrys innotata* (Simon, 1868), female



71. *Euophrys innotata* (Simon, 1868), female, aspect in ethanol 70%



72. *Euophrys nigripalpis* Simon, 1937, male



73. *Euophrys nigripalpis* Simon, 1937,  
female



74. *Euophrys nigripalpis* Simon, 1937,  
female



75. *Euryopis episinoides* (Walckenaer,  
1847), male



76. *Euryopis episinoides* (Walckenaer,  
1847), female



77. *Evarcha jucunda* (Lucas, 1846),  
male



78. *Evarcha jucunda* (Lucas, 1846),  
female



79. *Frontinellina frutetorum* (C. L. Koch, 1834), male



80. *Frontinellina frutetorum* (C. L. Koch, 1834), female



81. *Gibbaranea bituberculata* (Walckenaer, 1802), male



82. *Gibbaranea bituberculata* (Walckenaer, 1802), female



83. *Harpactea hombergi* (Scopoli, 1763), male



84. *Harpactea hombergi* (Scopoli, 1763), female



85. *Heliophanus apiatus* Simon, 1868  
male



86. *Heliophanus apiatus* Simon, 1868  
female



87. *Heliophanus tribulosus* Simon, 1868,  
male



88. *Heliophanus tribulosus* Simon, 1868,  
female



89. *Hogna radiata* (Latreille, 1817),  
male



90. *Hogna radiata* (Latreille, 1817),  
female



91. *Hybocoptus corrugis* (O. P.-Cambridge, 1875), male



92. *Hybocoptus corrugis* (O. P.-Cambridge, 1875), female



93. *Hyptiotes flavidus* (Blackwall, 1862), male



94. *Hyptiotes flavidus* (Blackwall, 1862), female



95. *Icius hamatus* (C.L. Koch, 1846), male



96. *Icius hamatus* (C.L. Koch, 1846), female



97. *Kochiura aulica* (C. L. Koch, 1838),  
male



98. *Kochiura aulica* (C. L. Koch, 1838),  
female



99. *Lathys humilis* (Blackwall, 1855),  
male



100. *Lathys humilis* (Blackwall, 1855),  
female



101. *Linyphia maura* Thorell, 1875,  
male



102. *Linyphia maura* Thorell, 1875,  
female



103. *Linyphia triangularis* (Clerck, 1757),  
male



104. *Linyphia triangularis* (Clerck, 1757),  
female



105. *Liophrurillus flavitarsis* (Lucas, 1846),  
male



106. *Liophrurillus flavitarsis* (Lucas, 1846),  
female



107. *Mangora acalypha* (Walckenaer, 1802), 108. *Mangora acalypha* (Walckenaer, 1802)  
male



108. *Mangora acalypha* (Walckenaer, 1802)  
female



109. *Metellina mengei* (Blackwall, 1870),  
male



110. *Metellina mengei* (Blackwall, 1870),  
female



111. *Micaria dives* (Lucas, 1846),  
male



112. *Micaria dives* (Lucas, 1846),  
female



113. *Misumena vatia* (Clerck, 1757),  
male



114. *Misumena vatia* (Clerck, 1757),  
female



115. *Neoscona adianta* (Walckenaer, 1802),  
male



116. *Neoscona adianta* (Walckenaer, 1802),  
female



117. *Nigma puella* (Simon, 1870),  
male



118. *Nigma puella* (Simon, 1870),  
female



119. *Nomisia exornata* (C. L. Koch, 1839),  
male



120. *Nomisia exornata* (C. L. Koch, 1839),  
female



121. *Nuctenea umbratica* (Clerck, 1757), male



122. *Nuctenea umbratica* (Clerck, 1757), female



123. *Olios argelasius* (Walckenaer, 1805), male



124. *Olios argelasius* (Walckenaer, 1805), female



125. *Oxyopes lineatus* Latreille, 1806, male



126. *Oxyopes lineatus* Latreille, 1806, female



127. *Oxyopes nigripalpis* Kulczyński, 1891,  
male



128. *Oxyopes nigripalpis* Kulczyński, 1891,  
female



129. *Ozyptila atomaria* (Panzer, 1801),  
male



130. *Ozyptila atomaria* (Panzer, 1801),  
female



131. *Parasteatoda tepidariorum* (C. L. Koch,  
1841), male



132. *Parasteatoda tepidariorum* (C. L. Koch,  
1841), female



133. *Paratrachelas ibericus* (Bosselaers et al., 2009), male



134. *Paratrachelas ibericus* (Bosselaers et al., 2009), female



135. *Pardosa proxima* (C. L. Koch, 1847), male



136. *Pardosa proxima* (C. L. Koch, 1847), female



137. *Philodromus bistigma* Simon, 1870, male



138. *Philodromus bistigma* Simon, 1870, female



139. *Phlegra bresnieri* (Lucas, 1846),  
male



140. *Phlegra bresnieri* (Lucas, 1846),  
female



141. *Phlegra fasciata* (Hahn, 1826),  
male



142. *Phlegra fasciata* (Hahn, 1826),  
female



143. *Pholcus opilionoides* (Schrank, 1781),  
male



144. *Pholcus opilionoides* (Schrank, 1781),  
female, with eggs



145. *Platnickina nigropunctata*  
(Walckenaer, 1802), male



146. *Platnickina nigropunctata*  
(Walckenaer, 1802), female



147. *Platnickina tincta* (Walckenaer, 1802),  
male



148. *Platnickina tincta* (Walckenaer, 1802),  
female



149. *Rhomphaea nasica* (Simon, 1873),  
male



150. *Rhomphaea nasica* (Simon, 1873),  
female



151. *Runcinia grammica* (C. L. Koch, 1837), male



152. *Runcinia grammica* (C. L. Koch, 1837), female



153. *Saitis barbipes* (Simon, 1868), male



154. *Saitis barbipes* (Simon, 1868), female



155. *Scytodes thoracica* (Latreille, 1802), male



156. *Scytodes thoracica* (Latreille, 1802), female, with eggs



157. *Selamia reticulata* (Simon, 1870), male



158. *Selamia reticulata* (Simon, 1870), female



159. *Spermophorides mediterranea* (Senglet, 1973), male



160. *Spermophorides mediterranea* (Senglet, 1973), female, with eggs



161. *Steatoda nobilis* (Thorell, 1875), male



162. *Steatoda nobilis* (Thorell, 1875), female



163. *Steatoda triangulosa* (Walckenaer, 1802), male



164. *Steatoda triangulosa* (Walckenaer, 1802), female



165. *Synema globosum* (Fabricius, 1775), male



166. *Synema globosum* (Fabricius, 1775), female



167. *Tenuiphantes tenuis* (Blackwall, 1852), male



168. *Tenuiphantes tenuis* (Blackwall, 1852), female (with phoretic red mite)



169. *Textrix caudata* L. Koch, 1872,  
male



170. *Textrix caudata* L. Koch, 1872,  
female



171. *Thomisus onustus* Walckenaer, 1805,  
male



172. *Thomisus onustus* Walckenaer, 1805,  
female



173. *Tmarus piger* (Walckenaer, 1802),  
male



174. *Tmarus piger* (Walckenaer, 1802),  
female



175. *Tmarus staintoni* (O. P.-Cambridge, 1873), male



176. *Tmarus staintoni* (O. P.-Cambridge, 1873), female



177. *Uloborus walckenaerius* Latreille, 1806, male



178. *Uloborus walckenaerius* Latreille, 1806, female



179. *Uroctea durandi* (Latreille, 1809), male



180. *Uroctea durandi* (Latreille, 1809), female



181. *Xysticus bufo* (Dufour, 1820),  
male



182. *Xysticus bufo* (Dufour, 1820),  
female



183. *Xysticus lanio* C.L. Koch, 1835,  
male



184. *Xysticus lanio* C.L. Koch, 1835,  
female



185. *Zelotes gallicus* Simon, 1914,  
male



186. *Zelotes gallicus* Simon, 1914,  
female



187. *Zilla diodia* (Walckenaer, 1802),  
male



188. *Zilla diodia* (Walckenaer, 1802),  
female



189. *Zoropsis media* Simon, 1878,  
male



190. *Zoropsis media* Simon, 1878,  
female



191. *Zygiella x-notata* (Clerck, 1757),  
male



192. *Zygiella x-notata* (Clerck, 1757),  
female



193. *Agalenatea redii* (Scopoli, 1763),  
male



194. *Agraecina lineata* (Simon, 1878),  
female



195. *Alopecosa albofasciata* (Brullé, 1832),  
male



196. *Anelosimus vittatus* (C. L. Koch, 1836),  
female



197. *Aphantaulax trifasciata*  
(O. P.-Cambridge, 1872), male



198. *Crustulina scabripes* Simon, 1881,  
female



199. *Cyclosa groppalii* Pesarini, 1998,  
male



200. *Cyrtophora citricola* (Forskål, 1775),  
female



201. *Dipoena braccata* (C. L. Koch, 1841),  
female



202. *Dipoena melanogaster* (C. L. Koch,  
1837), female



203. *Enoplognatha quadripunctata*  
Simon, 1884, female



204. *Ero aphana* (Walckenaer, 1802),  
female



205. *Ero tuberculata* (De Geer, 1778), female



206. *Gnaphosa lucifuga* (Walckenaer, 1802), female



207. *Hahnia petrobia* Simon, 1875, male



208. *Heliophanus kochii* Simon, 1868 male



209. *Heterotheridion nigrovariegatum* (Simon, 1873), female



210. *Larinioides cornutus* (Clerck, 1757), male



211. *Leptophantes minutus* (Blackwall, 1833), male



212. *Leptorcheates berolinensis* (C.L. Koch, 1846), female



213. *Leptorcheates peresi* (Simon, 1868), female



214. *Loxosceles rufescens* (Dufour, 1820), female



215. *Macaroeris nidicolens* (Walckenaer, 1802), female



216. *Neaetha membrosa* (Simon, 1868), male



217. *Nomisia celerrima* (Simon, 1914), male



218. *Nurscia albomaculata* (Lucas, 1846), female



219. *Oonops gavarrensis*, Bosselaers 2017, female



220. *Paidiscura pallens* (Blackwall, 1834), male



221. *Pardosa hortensis* (Thorell, 1872), male



222. *Pardosa morosa* (L. Koch, 1870), female with egg case



223. *Philodromus albidus* Kulczyński, 1911,  
female



224. *Philodromus dispar* Walckenaer, 1826,  
male



225. *Philodromus fuscolimbatus* Lucas,  
1846, female



226. *Philodromus lividus* Simon, 1875,  
female



227. *Pirata piraticus* (Clerck, 1757),  
female, with egg case



228. *Pisaura mirabilis* (Clerck, 1757),  
female



229. *Salticus confusus* Lucas, 1846,  
female



230. *Scotina celans* (Blackwall, 1841),  
female



231. *Scotophaeus scutulatus* (L. Koch,  
1866), female



232. *Segestria senoculata* (Linnaeus, 1758)  
female



233. *Silhouetella loricatula* (Roewer, 1942),  
female



234. *Steatoda grossa* (C. L. Koch, 1838),  
female



235. *Tenuiphantes herbicola* (Simon, 1884), female



236. *Tetragnatha nigrita* Lendl, 1886, female



237. *Theridion melanostictum* O. P.-Cambridge, 1876, female



238. *Theridion pinastri* L. Koch, 1872, female



239. *Theridion varians* Hahn, 1833, female



240. *Theridula gonygaster* (Simon, 1873), female



241. *Tibellus macellus* Simon, 1875, male



242. *Trabea paradoxa* Simon, 1876, female, with egg case



243. *Trachyzelotes mutabilis* (Simon, 1878), female



244. *Trochosa hispanica* Simon, 1870  
female



245. *Walckenaeria corniculans*  
(O. P.-Cambridge, 1875), male



246. *Xysticus ferrugineus* Menge, 1876,  
female



247. *Xysticus kempeleni* Thorell, 1872,  
female



248. *Xysticus kochi* Thorell, 1872,  
female



249. *Zelotes thorelli* Simon, 1914,  
female



250. *Zodarion pseudoelegans* Denis, 1933,  
female



251. *Zoropsis spinimana* (Dufour, 1820),  
female



252. *Mantispa styriaca* (Poda, 1761)



253. Els Angels, mixed wood past  
monastery, N41°59' E02°54', 440 m asl.



254. Montnegre, roadside on hilltop,  
N41°57' E02°56', 320 m asl.



255. Sant Sadurní de l'Heura, river banks  
of Rio Darò, N41°56' E02°58', 90 m asl.



256. Cruilles, banks of Rio Darò, N41°57'  
E03°00', 55 m asl.



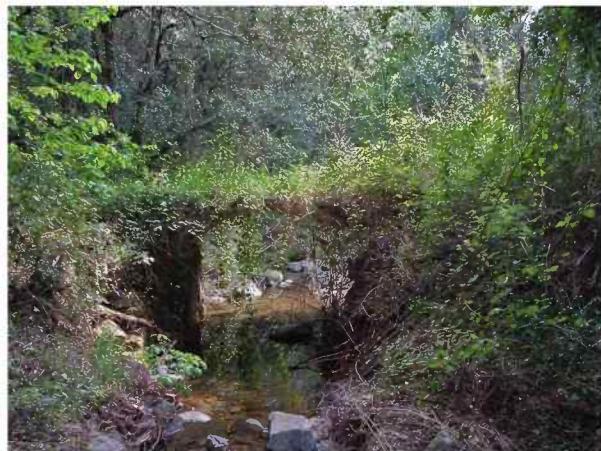
257. Sant Cebrià de Lledó, Can Gironès,  
along mountain stream, N41°54' E02°58',  
295 m asl.



258. Fitor, Mas Cals, maquis near stream  
crossing hilltrack, N41°55' E03°05', 180 m  
asl.



259. Fitor, Can Puig de Fitor, grassland on rocky hilltop, N41°54' E03°05', 280 m asl.



260. Mont Ras, cork oak wood at mountain stream, N41°55' E03°08', 100 m asl.



261. Palamós, riverside with *Vitex agnus-castus*, N41°52' E03°08', 25 m asl.



262. La Fosca, rocky bay at sea, N41°51' E03°09', 15 m asl.



263. Palamós, Cap Gros, coastal pine wood, N41°51' E03°08', 55 m asl.



264. Romanyà de la selva, mixed wood, N41°52' E02°059', 325 m asl.