Contribution to the knowledge of sicilian spider fauna (Arachnida Araneae)

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ABSTRACT In the present paper are reported new spiders from Sicily (Aranea). Additional biological and taxonomic notes are provided.

KEY WORDS Araneae; new data; first records; Sicily.

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INTRODUCTION

In Italy 1632 species of spiders are currently reported, divided in 429 genera and 54 families (Pantini & Isaia, 2017); of these, 403 species are reported for Sicily, divided in 186 genera and 42 families (see also van Helsdingen, 2010 and World Spider Catalog, 2017).

The present paper reports on two species of spiders, new for Sicily, as a result of field work carried out on the sicilian spider fauna in the last years.

MATERIAL AND METHODS

All samples were collected by sight on the soil, on plants or under the rocks. Observations on ecology of these organisms were made directly in the field.

The samples, taken in laboratory, were treated with ethyl acetate and then observed with binoculars. They were photographed with a Nikon d90 reflex and a macro lens of 100 mm for identification.

The specimens were stored in centrifuge tubes of different sizes, depending on the size of the sample, and were fixed in 75% ethanol.

Voucher specimens are stored in the author's collection and were collected by the same author. Each locality and/or collection site is in the original language (Italian).


RESULTS

Systematics

Ordo ARANEAE Clerck, 1757
Familia ARANEIDAE Clerck, 1757
genus Lipoorea Thorell, 1878

Lipoerea epeiroides (O. Pickard-Cambridge, 1872)

EXAMINED MATERIAL Sicily, Palermo, Monreale: Caculla, 05.IX.2017, 2 females; idem, 10.IX.2017.

DISTRIBUTION AND BIOLOGY Sardinia, Greece, Cyprus, Turkey, Israel, Yemen, India. This species
Figures 1–5. *Lipocrea epeiroides* from Caculla (Sicily, Palermo, Monreale). Fig. 1: *Lipocrea epeiroides* in the natural habitat. Fig. 2: *Lipocrea epeiroides* male. Fig. 3: *Lipocrea epeiroides* female. Fig. 4: Particular of epigynum, external genital structure of female. Fig. 5: Cocoon of *Lipocrea epeiroides*. 
has been described for the first time in Israel (Pickard-Cambridge, 1872), rediscovered in Israel (Levy, 1986), subsequently reported in Yemen (Grasshoff & van Harten, 2007), Turkey (Kunt et al., 2010), Greece (Wunderlich, 2011), central India (Keswani & Vankhede, 2013), Sardinia (Bosman & Colombo, 2015).

The two sicilian specimens were found and caught in their webs, during the night (see also Bosman & Colombo, 2015); the collection area was a riparian area close to the banks of the Sant’Elia River, upper course of the Oreto River; the partially anthropic area has olive trees, *Prunus* sp., *Juglans regia* L., *Populus* sp., *Salix* sp., and spontaneous vegetation typical of the river areas in northwest Sicily: *Rubus* sp., *Arundo donax* L., *Borago officinalis* L., etc.

Several specimens have been observed, webs of about 40 cm in circumference were at low altitudes, on average 30–40 cm from the ground and always very close to the banks of the river. The specimens occupied the center of their web while waiting for a prey, and if they were touched with a stronger vibration, they dropped down from the web, abandoning it. Although I did a lot of research, I’ve never seen specimens during the day. Moreover, the first specimen, which I bred for a while, spent the day off and idle, which makes me suppose that this is a purely night-time species. On 06.IX.2017 eggs were laid in a sample cocoon, no longer cared for, which was stored in a damp environment; when the cocoon was opened, on 26.IX.2017, it showed 10 spiderlings.

**Familia THOMISIDAE Sundevall, 1833**

**Subfamilia Thomisinae Sundevall, 1833**

**Tribù diaeini Sundevall, 1833**

**Genus** *Ozyptila* Simon, 1864

**Ozyptila confluens** (C.L. Koch, 1845)

**Examined Material.** Sicily, Palermo, Monreale: Caculla, 08.IV.2017, 2 females; idem, 10.IX.2017.

**Distribution and Biology.** Southern Europe, Syria. Italy: Tuscany (de Dalmas, 1922); Umbria (di Caporiacco, 1950); Apulia (di Caporiacco, 1953); Lazio (di Caporiacco & Denis, 1954); Sardinia (Kraus, 1955; Pavesi, 1876 sub *Ozyptila guttulata* n. sp.; Garneri, 1902 sub *Ozyptila grata*; Trotta, 2009, 2011; Pantini & Sassu, 2009; Pantini et al., 2013); Emilia-Romagna (Zangheri, 1966); Liguria (Thaler & Zapparoli, 1993; Trotta, 2007); Campania (Trotta, 2007).

**Habitat** (see Pantini et al., 2013): Cherry-orchard, garrigue, hazelnut-orchard, walnut-orchard, mining landfills covered by pioneer plants. A sicilian specimen was found under a bird carcass in advanced state of decomposition.

**Remarks.** The genus *Ozyptila* is morphologically similar to the genus *Xysticus* C.L. Koch, 1835, but it is different from the latter by the disposition of the median eyes, that are disposed in a square slightly wider than long and by the presence of clabbing bristles. Within the *Ozyptila* genus genital organs are extremely useful to distinguish the species.
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REFERENCES


