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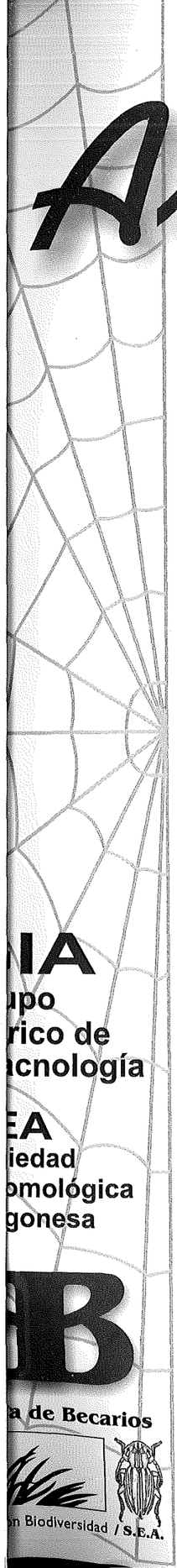

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ZARAGOZA, 30-VI-2004

REVISTA IBÉRICA de Aracnología

ARTÍCULO:

Notes on the collection of Salticidae (Araneae) from the Museum of Natural History 'Enrico Gaffi' in Bergamo, Italy

Dmitri Logunov
The Manchester Museum, The University of Manchester, Oxford Road, Manchester M13 9PL, UK.
dmitri.v.logunov@man.ac.uk

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Grupo Ibérico de Aracnología (GIA)
Grupo de trabajo en Aracnología de la Sociedad Entomológica Aragonesa (SEA)
Avda. Radio Juventud, 37
50012 Zaragoza (ESPAÑA)
Tef. 976 324415
Fax. 976 535697
C-elect.: amelic@telefonica.net
Director: A. Melic

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ARTÍCULO:

NOTES ON THE COLLECTION OF SALTICIDAE (ARANEAE) FROM THE MUSEUM OF NATURAL HISTORY 'ENRICO GAFFI' IN BERGAMO, ITALY

Dmitri Logunov

Abstract:
Thirty-five salticid species were identified in the spider collection the Museo Civico di Scienze Naturali "Enrico Gaffi" (Bergamo, Italy), with new faunistic records from Croatia (2), Italy (30), Malta (1), Kenya (1), the Philippines (1) and Spain (2). *Saitis sanctaeeufemiae* Kolosváry, 1938 is synonymized with *Saitis barbipes* (Simon, 1868). The female is described for *Leptorchestes mutilloides* (Lucas, 1846). Three faunistic records are new for particular regions: *Talavera monticola* (Kulczyński, 1884) for Italy, *Ergane carinata* Berry, Beatty et Prószyński, 1996 for the Philippines, and *Harmochirus luculentus* Simon, 1885 for Kenya.

Key words: Araneae, Salticidae, synonymy, faunistics, Italy, Croatia, Malta, Spain, Kenya, the Philippines.

Notas sobre la colección de Saltidade (Araneae) del Museo de Historia Natural 'Enrico Gaffi' de Bérgamo, Italia

Resumen:
Han sido identificadas 35 especies de la colección aracnológica del Museo Cívico de Ciencias Naturales 'Enrico Gaffi' (Bérgamo, Italia), con nuevos registros para Croacia (2), Italia (30), Malta (1), Kenia (1), Filipinas (1) y España (2). *Saitis sanctaeeufemiae* Kolosváry, 1938 es sinonimizado con *Saitis barbipes* (Simon, 1868). Se describe la hembra de *Leptorchestes mutilloides* (Lucas, 1846). Tres registros faunísticos son nuevos para regiones concretas: *Talavera monticola* (Kulczyński, 1884) para Italia, *Ergane carinata* Berry, Beatty et Prószyński, 1996 para Filipinas y *Harmochirus luculentus* Simon, 1885 para Kenia.

Palabras clave: Araneae, Salticidae, sinonimia, faunística, Italia, Croacia, Malta, España, Kenia, Filipinas.

Introduction

A small collection of Salticidae consisting of 104 adult specimens was loaned to me for identification by Dr P. Pantini of the Museo Civico di Scienze Naturali "Enrico Gaffi" (Bergamo, Italy; MBCG). A total of 35 species were identified, of which a list is provided below. This list is based on material mostly collected from Lombardia (23 of all the reported species) and it compliments the preliminary list of the spiders of this region published recently by P. Pantini (2000); in the latter list (113 species in total) no salticid species were mentioned. Most of the identified salticid species from Lombardia can be characterized as common South-European, Euro-Central Asian or South-Palaearctic ones. The records of *Talavera monticola*, *Sitticus longipes* and especially the apparent female of *Leptorchestes mutilloides*, which is first to be found and described, are interesting and discussed in more detail below. For the rest of species the up-to-date and detailed information about their general distribution can be found in Metzner (1999) and Logunov & Marusik (2000). For a detailed account of the bibliography and records of Salticidae in Italy see Hansen (1985) and some subsequent works (*e.g.* Pesarini, 1995; Hansen, 1991; Alicata & Cantarella, 2000).

A list of species

Aelurillus v-insignitus (Walckenaer, 1802)

MATERIAL. ITALY: 3♂♂ (MBCG), Lombardia, LC, Vendrogno, S. da x Cammagiore - Betuleto, 1200 m a.s.l., 9.VI-6.VII.1999, P. Pantini; 1♀ (MBCG), Lombardia, Bergamo, Bonate sopra, River Brembo, grassland with bushes (pitfall traps), 195 m a.s.l., 13.IV-11.V.2002, S. Ciocca; 1♂2♀♀ (MBCG), Lombardia, Bergamo, Zanica, River Serio, arid grassland (pitfall traps), 190 m a.s.l., 16.IV-4.XI.2002, O. Lodovici, P. Pantini.

Ballus chalybeus (Walckenaer, 1802)
MATERIAL. ITALY: 1♂ (MBCG), Lombardia, Bergamo, Astino, 270 m a.s.l., 30.V.2002, P. Pantini; 1♀ (MBCG), Lombardia, Bergamo, Zanica, River Serio, arid grassland (pitfall traps), 190 m a.s.l., 14.V-16.VI.2002, O. Lodovici, P. Pantini.

Cyrba algerina (Lucas, 1846)
MATERIAL. MALTA: 1♀ (MBCG), Radato, 9.V.2002, A. Mologni.

Ergane carinata Berry, Beatty et Prószyński, 1996
MATERIAL. THE PHILIPPINES: 1♀ (MBCG), SE of Luzon, III.1982, Pasquaré.
COMMENTS. This species was recently described from Caroline Islands (Berry *et al.*, 1996) and hence the new locality in the Philippines is its westernmost record.

Euophrys frontalis (Walckenaer, 1802)
MATERIAL. ITALY: 2♂♂1♀ (MBCG), Lombardia, LC, Esino Lario, Ortanella, burnt thermophilous wood, 1100 m a.s.l., 7.IX-12.X.1999, P. Pantini, T.C; 1♀ (MBCG), same locality, 10.XI.1999-13.III.2000, P. Pantini; 1♂ (MBCG), Emilia Romagna, PC, Bobbio, street toward Penice, 1100 m a.s.l., 20.VI-31.VII.2001, P. Pantini; 1♂1♀ (MBCG), Lombardia, Bergamo, Bonate Sotto, River Brembo, arid grassland (pitfall traps), 175 m a.s.l., 19.VI-8.VII.2002, S. Ciocca.

Evarcha arcuata (Clerck, 1758)
MATERIAL. ITALY: 1♂ (MBCG), Trentino-Alto Adige, Trento, Viotte del Monte Bondone, 1500 m a.s.l., 10.VIII.1998, P. Pantini.

Evarcha falcata (Clerck, 1758)
MATERIAL. ITALY: 1♂1♀ (MBCG), Toscana, FI, Marradi, Badia Valle, 430 m a.s.l., 1.X.2002, A. Usvelli; 1♀ (MBCG), Friuli Venezia Giulia, Pordenone, Barcis, Stream Cellina, 450 m a.s.l., 20.V.1996, P. Pantini, Valle; 1♂ (MBCG), Friuli Venezia Giulia, Pordenone, Claut, Stream Cellina, 950 m a.s.l., 16.IX.1996, P. Pantini, M. Valle.

Evarcha jucunda (Lucas, 1846)
MATERIAL. ITALY: 1♂ (MBCG), Basilicata, Potenza, Viggianello, pitfall traps, VII-VIII.1993, P. Pantini, M. Valle. - CROATIA: 1♀ (MBCG), Isola di Cres, Valun, at sea level, VIII.2001, P. Pantini.

Harmochirus luculentus Simon, 1885
MATERIAL. KENYA: 1♂ (MBCG), Nairobi, III.1981, M. Guerra.
COMMENTS. This is a relatively widespread Afrotropical species, which is recorded from Kenya for the first time (cf. Logunov, 2001).

Heliophanus auratus C. L. Koch, 1835
MATERIAL. ITALY: 1♂ (MBCG), Lombardia, LC, Cortenova, Stream Pioverna near Cortenova, 450 m a.s.l., 9.VI.1999, R. Manara, P. Pantini; 1♂ (MBCG), Lombardia, Bergamo, Bonate Sotto, River Brembo, arid grassland, 175 m a.s.l., 23.VII-9.VIII.2002, S. Ciocca; 1♂ (MBCG), Lombardia, Bergamo, Gromo, source, 700 m a.s.l., 2.VI.1994, R. Parrella, M. Valle; 1♀ (MBCG), Friuli Venezia Giulia, Pordenone, Vito d'Asio, source in the street towards Anduins, 270 m a.s.l., 21.V.1996, P. Pantini, M. Valle.

Heliophanus cupreus (Walckebaer, 1802)
MATERIAL. ITALY: 2♀♀ (MBCG), Liguria, SV, Bormida, creek near Mt. Melogno, 670 m a.s.l., 28.V.2001, coll.?; 1♀ (MBCG), Liguria, SV, Calizzano, Mt. Quazzo, 800 m a.s.l., 29.V.2001, coll.?; 1♀ (MBCG), Lombardia, Bergamo, Carona, street towards Calvi, 1550 m a.s.l., 13.VII. 1993, E. Bertuetti, M. Valle; 1♂ (MBCG), Lombardia, Bergamo, Endine Gaiano, tributary of Lake Gaiano, 340 m a.s.l., 7.VII.1999, P. Pantini, M. Valle; 1♀ (MBCG), Emilia Romagna, PC, Bobbio, street towards Penice, 1400 m a.s.l., 20.VI.2001, E. Ferrario, O. Lodovici, P. Pantini; 1♂ (MBCG), Lombardia, Bergamo, Caprino B.sco, S. Antonio d'Adda (source), 480 m a.s.l., 30.III.1994, E. Bertuetti; 1♀ (MBCG), Lombardia, Bergamo, Colzate, c/o Baite Sedernello, 1200 m a.s.l., 2.VIII.2001, P. Pantini *et al.*; 1♀ (MBCG), Lombardia, Bergamo, Zanica, River Serio, arid grassland (pitfall traps), 190 m a.s.l., 14.V-16.VI.2002, O. Lodovici, P. Pantini; 1♂ (MBCG), Lombardia, Bergamo, Valtorta, Fornonuovo, 900 m a.s.l., 16.VI.1993, E. Bertuetti, M. Valle; 1♀ (MBCG), Friuli Venezia Giulia, Udine, Resia, Uccea, 670 m a.s.l., 24.V. 1996, P. Pantini, M. Valle; 1♂ (MBCG), Friuli Venezia Giulia, Pordenone, Vito d'Asio, street towards Anduins, 260 m a.s.l., 17.VII.1996, P. Pantini, M. Valle. – CROATIA: 1♀ (MBCG), Isola di Cres, Valun, on sea level, VIII.2001, P. Pantini.

Heliophanus dubius C. L. Koch, 1835
MATERIAL. ITALY: 3♂♂ (MBCG), Piemonte, CN, Briga Alta, Stream Negrone, 1600-1630 m a.s.l., 29-30.V.2001, coll.?.

Heliophanus kochi Simon, 1868
MATERIAL. ITALY: 1♂ (MBCG), Lombardia, Bergamo, Solto Collina, San Defendente, grassland, 670 m a.s.l., 18.III.1997, P. Pantini, M. Valle; 1♀ (MBCG), Sardegna, SS, Olbia, Murta Maria, 28.VI.1993, C. Gusmini; 1♂ (MBCG), Lombardia, Bergamo, Bonate sopra, River Brembo, grassland with bushes (pitfall traps), 195 m a.s.l., 13.04-11.05.2002, S. Ciocca; 1♀ (MBCG), Lombardia, Bergamo, Zanica, River Serio, arid grassland (pitfall traps), 190 m a.s.l., 14.V-16.VI.2002, O. Lodovici, P. Pantini; 1♂ (MBCG), Abruzzo, Cherchio, Le Coste, 900 m a.s.l., 17.VI.1994, Stomelli.

Heliophanus lineiventris Simon, 1868
MATERIAL. ITALY: 1♀ (MBCG), Lombardia, Bergamo, Averara, Alpe Cul vers. Sud (pitfall traps), 1990 m a.s.l., 13.VIII-26.IX.2002, O. Lodovici, P. Pantini; 1♂ (MBCG), Lombardia, Bergamo, River Serio, not cultivated land (pitfall traps), 120 m a.s.l., 10.08-13.09.2002, S. Ciocca.

Icius hamatus (C. L. Koch, 1846)
MATERIAL. ITALY: 2♀♀ (MBCG), Lombardia, Bergamo, Dalmine, in a wasp nest, 20.VI.2000, Bugada.

Icius subinermis (Simon, 1937)
MATERIAL. ITALY: 1♂ (MBCG), Lombardia, LO, Somaglia, Gargatano f. Po (pitfall traps), 45 m a.s.l., 3.IX.1997, F. Carrara, P. Pantini.

Leptorchestes mutilloides (Lucas, 1846) (Figs 3-4)
MATERIAL. ITALY: 1♀ (MBCG), Lombardia, Bergamo, Predore, Corni, 550 m a.s.l., 14.V.2001, A. Soderi.
DIAGNOSIS. In the arrangement and shape of the spermathecae, the female of *L. mutilloides* is most similar to *L. peresi* (Simon, 1868) (cf. Figs 3-4 and Figs 74-78 in Wesołowska & Szeremeta, 2001), but can easily be separated by the position of the copulatory pores directed laterally (anteriorly in *L. peresi*), by the shape of the glandular ducts (simple in *L. mutilloides* and multi-

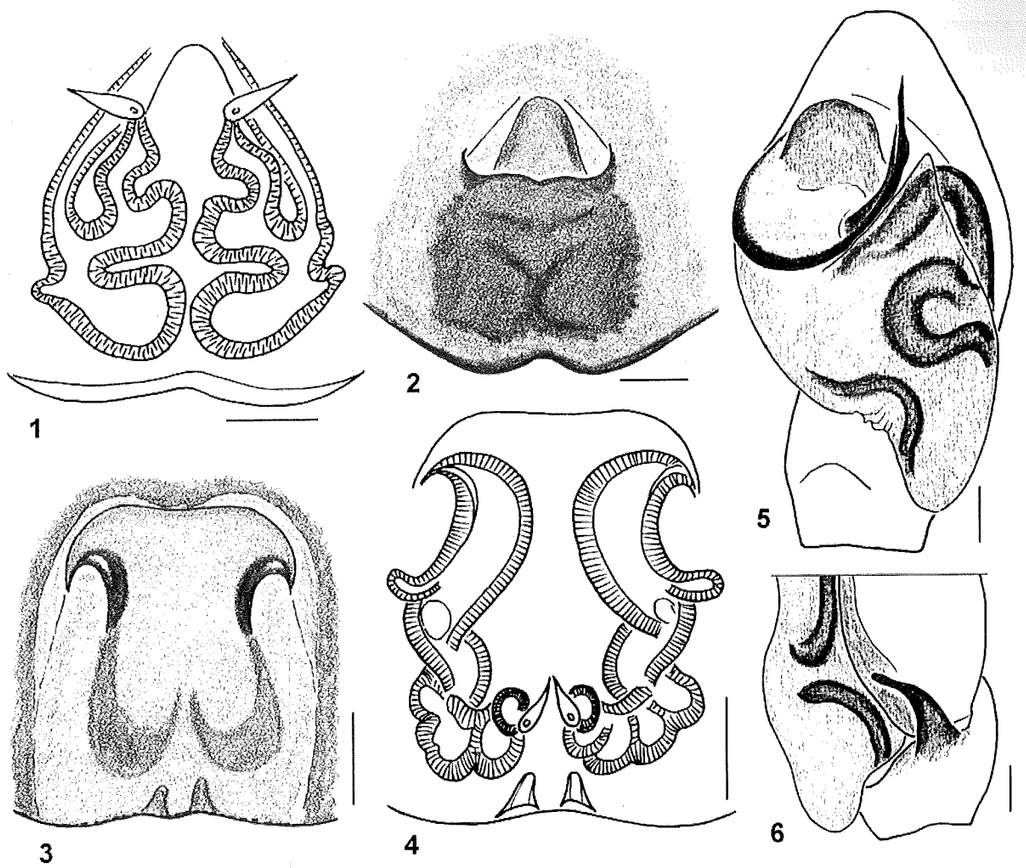

Fig. 1-6. Copulatory organs of *Sitticus longipes* Canestrini, 1873 (**1-2**) from France (La Garve), *Leptorchestes mutilloides* (Lucas, 1846) (**3-4**) from Italy (Lombardia) and *Saitis sanctaeeufemiae*, Kolosváry 1938 (= *Saitis barbipes* (Simon, 1868)) (**5-6**) from Italy (Calabria). **1, 4.** Spermathecae, dorsal view. **2, 3.** Epigyne, ventral view. **5, 6.** Male palp, ventral and retrolateral views. Scale lines 0.1 mm.

chambered in *L. peresi*) and by the presence of two epigynal pockets in front of the epigastric furrow (absent in *L. peresi*).
COMMENTS. This female was provisionally assigned to *L. mutilloides*, which has so far been known only from males (s. Wesołowska & Szeremeta, 2001). The collected + does not belong to one of the six described *Leptorchestes* species recently revised by Wesołowska & Szeremeta (2001). From the latter revision, it is clear that the males of *L. mutilloides* are closest to those of *L. peresi*, as is the female described herein under the name of *L. mutilloides* (see "Diagnosis" above). Thus, although this ♀ was not collected together with a ♂, I am convinced it should belong to *L. mutilloides*.
DISTRIBUTION. S. Europe and the W. Mediterranean (Wesołowska & Szeremeta, 2001); rather common in Italy (see Hansen, 1985).
DESCRIPTION. *Female*. Carapace 2.05 long, 1.16 wide, 0.63 high at PLE. Ocular field 1.20 long, 0.90 wide anteriorly, 1.13 wide posteriorly. Diameter of AME 0.29. Chelicerae 0.83 long. Clypeus not marked. Abdomen 3.20 long, 1.60 wide. Leg segments:
I 1.03+0.53+0.83+0.48+0.48,
II 0.78+0.48+0.55+0.41+0.33,
III 0.80+0.40+0.60+0.60+0.40,
IV 1.23+0.55+0.98+0.93+0.48.
Leg spination. Leg I: tibia ventrally 1-2, metatarsus ventrally 2-2 apically. Leg II: tibia and metatarsus ventrally 1-0. Leg III without spines. Leg IV: metatarsus ventrally 1-0. Coloration. Carapace dark lustrously-brown, without covering scales. Sternum gray-brown. Labium, maxillae and chelicerae brown. Abdomen gray-brown, slightly constricted, with a white transverse line in the constricted area. Book-lung covers and spinnerets brown. Leg I: coxa yellow, femur brown+yellow, patella and tibia yellow, with a brown prolateral line, metatarsus and tarsus yellow. Leg II entirely yellow, with a brown prolateral line on all segments. Leg III: coxa and femur brown, patella and tibia yellow, with a brown prolateral line, metatarsus and tarsus entirely yellow. Leg IV: coxa, patella and metatarsus yellow+brown, femur and tibia entirely brown, tarsus entirely yellow. Epigyne and spermathecae as in Figs 3-4.

Macaroeris nidicolens (Walckenaer, 1802)
MATERIAL. ITALY: 2♀♀ (MMUM), Lombardia, Bergamo, Dalmine, in nido di vespa, 20.VI.2000, Bugada; 1♂ (MMUM), Lombardia, Bergamo, Valgoglio, source in wood, 800 m a.s.l., 2.VI.1994, Parella, M. Valle.

Marpissa muscosa (Clerck, 1758)
MATERIAL. ITALY: 1♂1♀ (MBCG), Trentino Alto Adige, BZ, Ora, Stream Rio Nero, 250 m a.s.l., 6.IX.1997, P. Pantini, M. Valle.

Mendoza canestrinii (Ninni in Canestrini et Pavesi, 1868)
MATERIAL. ITALY: 1♂ (MBCG), Trentino Alto Adige, BZ, Montagna, Castelfeder, 335 m a.s.l., 6.IX.1997, P. Pantini, M. Valle.

Menemerus semilimbatus (Hahn, 1827)
MATERIAL. SPAIN: 1♂ (MBCG), Isola di Tenerife, Playa de Torviscas, 18.VIII.2002, O. Lodovici. – CROATIA: 1♀ (MBCG), Isola Bisevo, 22.VIII.2001, E. Ferrario.

Myrmarachne formicaria (De Geer, 1778)
MATERIAL. ITALY: 1♀ (MBCG), Lombardia, Bergamo, Bariano, River Serio, uncultivated land (pitfall traps), 120 m a.s.l., 7-24.VII.2002, S. Ciocca.

Pseudeuophrys erratica (Walckenaer, 1826)
MATERIAL. ITALY: 1♂ (MBCG), Piemonte, CN, Briga Alta, Lolle Traverso, 1630 m a.s.l., 30.V.2001, coll.?.

Pseudeuophrys obsoleta (Simon, 1868)
MATERIAL. ITALY: 1♂ (MBCG), Lombardia, Bergamo, Bariano, River Serio, pebbly shore (pitfall traps), 120 m a.s.l., 14.V-16.VII.2002, S. Ciocca.

Saitis barbipes (Simon, 1868) (Figs 5-6)
Attus barbipes Simon, 1868: 563, pl. 6, f. 9 (D♂♀; the type series is in the Museum national d'Histoire naturelle, Paris, France; not examined). The species was reliably re-described and illustrated by Metzner (1999: plate 22).
Saitis sanctaeeufemiae Kolosváry, 1938a: 303, f. 2, 4-5 (D♂♀; the syntypes in HNHM; examined). **New Synonymy**.
Saitis sanctaeeufemiae: Kolosváry, 1938b: 583, f. 3 (♂♀). For a complete reference list see Platnick (2003).
MATERIAL. ITALY: 2♂ (HNHM, SALT360; the syntypes of *Saitis sanctaeeufemiae*), Calabria, Strande des Meerbursens von Santa Eufemia, leg & det: Gábor Kolosváry; 4♀♀ (MBCG), Liguria, SV, Bormida, creek near Mt. Melogno, 670 m a.s.l., 28.V.2001; 2♂♂2♀♀ (MBCG), Lombardia, LC, Esino Lario, Ortanella, burnt thermophilous wood, 1100 m, 13.III-18.V.2000, P. Pantini; 1♀ (MBCG), Lombardia, LC, Vendrogno, Mornico, Castagneto, 970 m a.s.l., 13.III-18.V.2000, P. Pantini; 1♂2♀♀ (MBCG), Emilia Romagna, PC, Bobbio, wood on the pass Penice, 1100 m a.s.l., 20.V-20.VI.2001, P. Pantini, T.C; 1♂1♀ (MMUM), same locality, 20.III-26.IV.2002, P. Pantini; 1♂ (MBCG), Lombardia, PV, S. Margherita di Staffora, beech wood near hotel Colletta, 1380 m a.s.l., 31.VII.2001, P. Pantini *et al.*; 1♀ (MBCG), Lombardia, PV, S. Margherita di Staffora, beech wood near hotel Colletta (pitfall traps), 1380 m a.s.l., 20.III-26.IV.2002, P. Pantini; 1♂3♀♀ (MBCG), same locality, 31.VII-19.IX. 2001, P. Pantini; 2♀♀ (MBCG), Liguria, SV, Sassello, faggeta c/o Rio del Nido (pitfall traps), 1000 m a.s.l., 18.VII-10.X.2001, coll.?; 1♂ (MBCG), Basilicata, Potenza, Viggianello, pitfall traps, VII-VIII.1993, P. Pantini, M. Valle.
COMMENTS. The species *S. sanctaeeufemiae* was described from Italy (Calabria) from both sexes. As it is obvious from the original description (see Kolosváry, 1938a), that the main diagnostic characters used by the author to separate his new species from *Saitis barbipes* were doubtful differences in leg spination in both sexes. The structure of the copulatory organs, though illustrated (1938a: fig. 4), was not taken into serious consideration. I re-examined the ♂ syntypes of *S. sanctaeeufemiae* (Figs. 5-6), compared them to numerous comparative specimens of *S. barbipes* both from Italy and from other Mediterranean regions and came to the definite conclusion that the former name has to be synonymized with the latter one.

Salticus scenicus (Clerck, 1757)
MATERIAL. ITALY: 1♀ (MBCG), Lombardia, Bergamo, Bariano, River Serio, pebbly shore (pitfall traps), 120 m a.s.l., 14.V-16.VII.2002, S. Ciocca.

Sitticus distinguendus (Simon, 1868)
MATERIAL. ITALY: 2♂♂ (MBCG), Lombardia, Bergamo, Bariano, River Serio, pebbly shore (pitfall traps), 120 m a.s.l., 7.VII-10.VIII.2002, S. Ciocca.

Sitticus floricola (C. L. Koch, 1837)
MATERIAL. ITALY: 1♀ (MBCG), Lombardia, BERGAMO, Endine Gaiano, tributary of Lake Gaiano, 340 m a.s.l., 7.VII.1999, P. Pantini, M. Valle.

Sitticus longipes Canestrini, 1873 (Figs 1-2)
MATERIAL. ITALY: 1♂1♀ (MMUM), Lombardia, Bergamo, Valbondione, Val Cerviera, 1900 m a.s.l., 11.VII. 2002, R. Calandrina. – FRANCE: 1♀ (MBCG), La Grave, Glaciers de la Meije, 2800 m a.s.l., 11.VIII.2000, E. Ferrario.
COMMENTS. A rare species restricted to the high elevations of the Alps and recorded only from Switzerland, N. Italy, SE France and Austria (Tyrol) (s. Prószyński, 1973, 1976: map 188; Hansen, 1985; Pesarini, 1995; Thaler, 1997); previously recorded in France from two close localities by Simon (1937).

Sitticus pubescens (Fabricius, 1775)
MATERIAL. SPAIN: 1♂ (MBCG), Espot, Parque Nacional de Agues Tortes, Estany de Sant Maurici, 2000 m a.s.l., 16.VIII.2000, E. Ferrario.

Sitticus rupicola (C. L. Koch, 1837)
MATERIAL. ITALY: 1♂ (MBCG), Lombardia, Bergamo, Mezzoldo, Val Terzera, 1500 m a.s.l., 22.VIII.1998, P. Pantini.

Sitticus saltator (O. Pickard-Cambridge in Simon, 1868)
MATERIAL. ITALY: 1♀ (MBCG), Lombardia, Bergamo, Zanica, River Serio, arid grassland (pitfall traps), 190 m a.s.l., 16.VI-7.VII.2002, O. Lodovici, P. Pantini.

Talavera aequipes (O. Pickard-Cambridge, 1871)
MATERIAL. ITALY: 1♀ (MBCG), Lombardia, Bergamo, Bonate Sotto, River Brembo, arid grassland (pitfall traps), 175 m a.s.l., 23.VII-9.VIII.2002, S. Ciocca; 1♀ (MBCG), Lombardia, Bergamo, Bonate Sopra, River Brema, arid grassland (pitfall traps), 195 m a.s.l., 19.VI-8.VII.2002, S. Ciocca.

Talavera monticola (Kulczyński, 1884)
MATERIAL. ITALY: 1♂ (MBCG), Lombardia, Bergamo, Averara, Alpe Cul vers. Sud (pitfall traps), 1990 m a.s.l., 13.VIII-26.IX.2002, O. Lodovici, P. Pantini.
COMMENTS. This is a first record for Italy; to date, *T. monticola* has been known only from the mountains of Central Europe (the Alps, the Tatras and the Carpathians), where it occurs in (sub)alpine zone (s. Logunov & Kronestedt, 2003).

Talavera sp.
MATERIAL. ITALY: 1♀ (MBCG), 1♀ (MMUM), Lombardia, Bergamo, Bonate Sotto, River Brembo, arid grassland, 175 m a.s.l., 19.VI-8.VII.2002, S. Ciocca.
COMMENTS. This appears to be a new species. However, *Talavera* species are difficult to diagnose using isolated females (s. Logunov & Kronestedt, 2003). The taxonomic status of this species will be addressed elsewhere.

Acknowledgements

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