

ISSN 0004 - 6000

BOLLETTINO DELL'ASSOCIAZIONE ROMANA DI ENTOMOLOGIA

VOL. LXIV (2009) N. 1-4



A.R.D.E. Fondata da Omero Castellani nel 1945

Endemismi italiani 52 - *Tetracanthella apenninica* Parisi, 2007 (Collembola, Isotomidae)...I-II

A cura della Redazione - Editoriale...II

Laura Spada, Marco Bardiani e Gianluca Nardi - Artropods of the Nature Reserves “Agoraie di Sopra e Moggetto” (Liguria, Genoa) and “Guadine Pradaccio” (Emilia-Romagna, Parma). Introduction p. 3

Two Nature Reserves of Northern Apennines - “Agoraie di Sopra e Moggetto” (Rezzoaglio, Genoa province, Liguria region) and “Guadine Pradaccio” (Corniglio, Parma province, Emilia-Romagna region) - during May-August 2008 were object of new entomological researches. The study areas, the sampling sites, the collecting methods, and the available literature data are here briefly illustrated.

Giulio Gardini - The Pseudoscorpions of the Nature Reserve “Agoraie di Sopra e Moggetto” (Liguria, Genoa) (Pseudoscorpiones) p. 33

Four species of Pseudoscorpions from the Nature Reserve “Agoraie di Sopra e Moggetto” are listed. Brief faunistic considerations on Pseudoscorpions of the Liguria Region and on the taxonomic knowledge of most important geophilous genera are also provided.

Marzio Zapparoli - First data on the centipede fauna of the Nature Reserves “Agoraie di Sopra e Moggetto” (Liguria, Genoa) and “Guadine Pradaccio” (Emilia-Romagna, Parma) (Chilopoda) p. 39

The centipedes collected in a study on the arthropod fauna of two protected areas of Northern Apennines (Italy) managed by the State Forestry Corp and proposed as Special Areas of Conservation under the European Community Directive “Habitats” 92/42/CEE (LIFE Nature Project IT/04/190): the Nature Reserve “Agoraie di Sopra e Moggetto” (Liguria, Genoa province, 17 ha) and the State Biogenetic Nature Reserve “Guadine Pradaccio” (Emilia-Romagna, Parma province, 289 ha) are listed and discussed in this paper. Some unpublished records and the few bibliographic data available are also included. Twelve species (7 Lithobiomorpha, 3 Scolopendromorpha, 2 Geophilomorpha) have been recorded in the “Agoraie di Sopra e Moggetto” reserve, 5 species (4 Lithobiomorpha, 1 Geophilomorpha) have been recorded in the “Guadine Pradaccio” reserve. Although still very lacunose, the collected information show an interesting fauna, mostly represented by mesophilous forest species largely distributed in Europe (especially in Central Europe). *Lithobius dentatus* C.L. Koch, 1844 and *L. lucifugus* L. Koch, 1862, centraleuropean species both collected at the “Agoraie di Sopra e Moggetto” reserve, at the southern limit of their range, and *L. pilicornis* Newport, 1844, a western-european species collected in the “Guadine Pradaccio” reserve, at the easternmost boundary of its Apennine range and for the first time recorded in the Tuscan-Emilian Apennines, are among the most interesting species.

Andrea Baldi e Sönke Hardersen - A faunistic list of the dragonflies of the Natural Reserve “Agoraie di Sopra e Moggetto” (Liguria, Genoa) (Odonata) p. 59

In the years 2001 and 2008 the dragonfly fauna of the Natural Reserve “Agoraie di Sopra e Moggetto” was investigated and a total of 15 species were recorded. The most important result of the survey was the discovery of a population of *Aeshna juncea* (Linnaeus, 1758) (Aeshnidae), new to the Liguria region and the southernmost known site of this species for Italy. Another species found for the first time in the Liguria region is *Libellula quadrimaculata* Linnaeus, 1758 (Libellulidae). The most numerous dragonfly species in the Reserve were *Lestes dryas* Kirby, 1890 (Lestidae) and *Sympetrum flaveolum* (Linnaeus, 1758) (Libellulidae).

Marco Bardiani Filippo Maria Buzzetti - The Cockroaches and Grasshoppers of the Nature Reserves “Agoraie di Sopra e Moggetto” (Liguria, Genoa) and “Guadine Pradaccio” (Emilia-Romagna, Parma) (Blattaria, Orthoptera) p. 69

During 2008 the National Centre for the Study and Conservation of Forest Biodiversity “Bosco Fontana”, Verona carried out faunistic survey in two Nature Reserves of the northern Apennines: “Guadine Pradaccio” (Liguria, Genoa prov.) and “Agoraie di Sopra e Moggetto” (Emilia-Romagna, Parma prov.) as integration of past researches (from 1999 to 2001) in the “Guadine Pradaccio” and in others four reserves of the Northern Apennines. This paper presents faunistic and preliminary zoogeographic results on Blattaria and Orthoptera of this survey. The list includes 21 species from “Agoraie di Sopra e Moggetto” and 6 from “Guadine Pradaccio”. *Roeseliana azami azami* (Finot, 1892) (Orthoptera, Tettigoniidae) is firstly recorded with certain for Italy. Moreover, *Decticus albifrons* (Fabricius, 1775), collected in another Apennine locality (Parma province) is firstly recorded for Emilia-Romagna region.

Augusto Vigna Taglianti - The earwigs (Dermaptera, Forficulidae) of “Agoraie di Sopra e Moggetto” Natural Reserves p. 91

Chelidurella fontanai Galvagni, 1996 was found in the “Riserva Naturale Agoraie di Sopra” (Liguria region, Genova province) during the Project Life-Nat/It/04190-CNBF. This species, an interesting endemic, distributed in the Italian Western Alps, in Northern Apennine and in Corsica, is discussed from taxonomical, chorological and ecological point of view. All chorological data at present known, also unpublished ones, are also listed.

Augusto Vigna Taglianti - The ground beetles (Coleoptera, Carabidae) of “Agoraie di Sopra e Moggetto” (Liguria, Genova) and “Guadine Pradaccio” (Emilia-Romagna, Parma) Natural Reserves p. 99

38 species of Carabidae have so far been recorded from two North-Apennines protected areas, “Riserva Naturale Agoraie di Sopra e Moggetto” (Liguria region, Genova province) and “Riserva Naturale Biogenetica Statale Guadine Pradaccio” (Emilia-Romagna region, Parma province) (23 and 24 species respectively), based on literature and on results of the Project Life-Nat/ It/04190-CNBF. Six species (*Leistus nitidus*, *Oreonebria macrodera*, *Pterostichus diligens*, *Trichotichnus laevicollis*, *Licinus hoffmanseggii*, *Agonum versutum*) reach in this area the southern limit of their distribution; six others (*Cychrus attenuatus*, *Nebria tibialis*, *Trechus obtusus*, *Pterostichus bicolor*, *P. morio*, *Abax parallelepipedus*) reach the southern limit of the range of the nominal subspecies (or of the southernmost alpine subspecies, as *P. morio liguricus* e *A. parallelepipedus contractus*), but are represented in Central or Southern Apennines by other subspecies. Fifteen other species are represented in the Apennines with isolated populations, not distinguishable from the Alpine ones,

that reach Central (*Carabus granulatus*, *Nebria jockischi*, *Trepanes doris*, *Ocydromus tibialis*, *Sinechostictus solarii*, *Poecilus versicolor*) or Southern Apennine (*Elaphrus uliginosus*, *Trepanes articulatus*, *Ocydromus geniculatus*, *O. decorus*, *Pterostichus strenuus*, *P. apenninus*, *P. impressicollis*, *Limodromus assimilis*, *Dromius agilis*). In particular, *Trepanes doris*, a northern species, hygrophilous and relic, reported in the past for few Alpine and Apennine localities as far as Latium, seems presently dwelling only in the Moggetto Reserve and in “Lago delle Lame”, whereas *Pterostichus diligens* and *Agonum versutum* reach in the Riserva delle Agoraie their sole Apennine locality. Other species, with northern affinities, have an ampler Apennine distribution, as four hygrophilous elements, forest dwelling (*Notiophilus biguttatus*, *Trechus fairmairei*) or markedly riparian (*Agonum muelleri*, *A. sexpunctatum*), but there are four steppe species as well, widely diffused, and bound to open and xerophilous areas (*Cicindela campestris*, *Carabus violaceus*, *Amara aenea*, *Calathus melanocephalus*). Only one species (*Cychrus italicus*), subendemic to Italy, widely diffused in the Alps as well, can be considered a true Apennine element, bound to thermophilous forests. Only two species (*Trechus liguricus*, *Pterostichus phaeopus*) among the examined material, can be considered as endemic elements of the Northern Apennine. In the area of Monte Penna some other interesting Carabid species are known, not yet collected in the “Riserva Naturale delle Agoraie e Moggetto”, but likely to be found in future research, as *Carabus (Oreocarabus) glabratus latior* Born, 1895, *C. (Tomocarabus) convexus convexus* Fabricius, 1792, *C. (Chryso-carabus) solieri liguranus* Breuning, 1933, *Trechus montispennae* Jeannel, 1927 and *Duvalius gestroi gestroi* (Doderò, 1900). Finally, the last three species, of restricted range, endemic or subendemic of this area (as also *Trechus liguricus* and *Pterostichus phaeopus*, and the soil dwelling Anillines *Binaghites affinis affinis* (Baudi di Selve, 1871) and *Scotodipnus glaber glaber* (Baudi di Selve, 1859), can well be considered the flag-species among the ground beetle fauna of the Ligurian-Aemilian Apennine and in particular of the Natural Reserves considered here. The provisional list of ground beetle species hitherto known for the Regional Park of Aveto (Liguria, Genoa), on the basis of literature and of recent data (also unpublished ones), is added.

Adriano Zanetti - The Rove beetles of the Nature Reserves “Agoraie di Sopra e Moggetto” (Liguria, Genoa) and “Guadine Pradaccio” (Emilia-Romagna, Parma) (Coleoptera, Staphylinidae) p. 129

61 species of Staphylinidae recently collected in the Nature Reserve “Agoraie di Sopra e Moggetto” (Liguria region, Genoa province) are recorded and an up-to-date list of those (91) known from the Nature Reserve “Guadine Pradaccio” (Emilia-Romagna region, Parma province) is provided. Moreover, an overall synthesis of the species (210) so far known from the sectors of the Northern Apennine, including these Reserves, is provided. Two species previously known in Italy from one or two localities only are recorded from the above Ligurian Reserve: *Quedius brevicornis* (Thomson, 1860) and *Romphocallus bernhaueri* (Sainte-Claire Deville, 1907); both were collected in association with dormice. Some other species (*Tachinus marginellus angelinii* Schülke, 1996, *Atheta hygrobia vindobonensis* Brundin, 1944, *A. taxiceroides* Munster, 1932, and *Romphocallus bernhaueri*) are firstly recorded for Liguria region. The Ligurian station of *Tachinus marginellus angelinii* is the northernmost so far known. Moreover new records from other Italian mainland regions (Trentino, Basilicata, Venetia, Latium) are provided for the following species: *Atheta hygrobia vindobonensis*, *Erichsonius cinerascens* (Gravenhorst, 1802), *Quedius brevicornis* and *Q. invreae* Gridelli, 1924.

Matteo Montagna - Notes on the Leaf Beetles of the Nature Reserves “Agoraie di Sopra e Moggetto” (Liguria, Genoa) and “Guadine Pradaccio” (Emilia-Romagna, Parma) (Coleoptera, Chrysomelidae) p. 163

The present paper is based on the Leaf Beetles (Coleoptera Crysomelidae) collected in the Nature Reserves “Agoraie di Sopra e Moggetto” (Rezzoaglio, Genoa) and “Guadine Pradaccio” (Corniglio, Parma) by the “Centro Nazionale per lo Studio e la Conservazione della Biodiversità Forestale “Bosco Fontana” di Verona (Marmiolo)”. The samples were taken on 30th July and 20th-21st August 2008 in the first reserve and during the period 1999-2001, 23rd-24th May 2008 in “Guadine Pradaccio”. Twenty-nine species belonging to 17 genera and 6 subfamily were collected. In “Agoraie di Sopra e Moggetto” 12 species have been recorded, whereas in “Guadine Pradaccio” 21 species were collected. Among these species there are a few ones of remarkable faunistic and ecological interest as the 8 species of Donacinae. *Oreina cacaliae barii* (Schatzmayr, 1943) and *O. elongata zoiai* Daccordi & Ruffo, 1986 are interesting by the systematic point of view, while *Psylliodes solaris* Leonardi, 1975 is known only in two further sites in Italy.

Gianluca Nardi, Paolo Cornacchia, Claudio Canepari, Enzo Colonnelli, Gianfranco Liberti, Alessandro Mascagni, Emanuele Piattella, Saverio Rocchi e Stefano Zoia - Notes on the Beetles of the Nature Reserves “Agoraie di Sopra e Moggetto” (Liguria, Genoa) and “Guadine Pradaccio” (Emilia-Romagna, Parma) (Coleoptera) p. 183

Records of 156 species belonging to 52 taxa of family group (Alexiidae, Armatopodidae, Biphylidae, Byrrhidae, Byturidae, Cantharidae, Cerambycidae, Cerylonidae, Cetoniidae, Coccinellidae, Curculionidae, Dascillidae, Dasytidae, Dryopidae, Dytiscidae, Elateridae, Elmidae, Endomychidae, Geotrupidae, Haliplidae, Helophoridae, Heteroceridae, Hydraenidae, Hydrochidae, Hydrophilidae, Lampyridae, Latridiidae, Leiodidae Cholevinae, Linnichidae, Lucanidae, Lycidae, Lymexylidae, Malachiidae, Melandryidae, Melolonthidae, Monotomidae, Nitidulidae, Noteridae, Oedemeridae, Ptinidae (= Anobiidae), Pyrochroidae, Rutelidae, Salpingidae, Scolytidae, Scydmaenidae, Staphylinidae Dasycterinae, Staphylinidae Pselaphinae, Tenebrionidae Alleculinae, Tetratomidae, Trogidae, Trogossitidae, Zopheridae) from two Apennine Nature Reserves (“Agoraie di Sopra e Moggetto” and “Guadine Pradaccio”) and neighbouring areas are provided. 170 species of Coleoptera are known from the Nature Reserve “Agoraie di Sopra e Moggetto” and 263 from that of “Guadine Pradaccio”. *Agabus (Gaurodytes) guttatus guttatus* (Paykull, 1798) (Dytiscidae) is recorded for certain for Emilia-Romagna region; *Enochrus (Lumetus) ochropterus* (Marsham, 1802) (Hydrophilidae) and *Simo hirticornis* (Herbst, 1795) (Curculionidae) are firstly recorded for Liguria region. *Aplocnemus (Aplocnemus) alpestris* Kiesenwetter, 1861 (Dasytidae), collected in both Reserves, is new for the fauna of Apennines. *Esolus parallelepipedus* (P.W.J. Müller, 1806) (Elmidae) and *Leiosoma concinnum* Boheman, 1842 (Curculionidae) are firstly recorded for Emilia-Romagna region. *Aplocnemus (Aplocnemus) alpestris* Kiesenwetter, 1861 (Dasytidae) is firstly recorded for Kazakhstan; *Dasytes (Hypodasytes) erratus* Schilsky, 1895 (Dasytidae) is firstly recorded for Balkans (Croatia and Bulgaria). The Sardinian records of *Helophorus (Rhopalhelophorus) obscurus* Mulsant, 1844 (*Helophoridae*) are referred to *H. (R.) subarcuatus* Rey, 1885.

Agostino Letardi - Alderflies, snakeflies, lacewings and scorpionflies of the Nature Reserves “Agoraie di Sopra e Moggetto” (Liguria, Genoa) e “Guadine Pradaccio” (Emilia-Romagna, Parma) (Megaloptera, Raphidioptera, Neuroptera, Mecoptera) p. 281

The Megaloptera (1 species), Raphidioptera (2 species), Neuroptera (9 species) and Mecoptera (4 species) collected in “Guadine Pradaccio” (Parma province) and “Agoraie di Sopra e Moggetto” (Genoa province) protected areas and surroundings (North-Western Apennines, Italy) are listed.

Some additional notes on their distribution are briefly added. *Panorpa communis* Linnaeus, 1758 (Mecoptera, Panorpidae) is reported for the first time in Liguria.

Peter J. Chandler - Fungus gnats from the Nature Reserve “Agoraie di Sopra e Moggetto” (Liguria, Genoa) (Diptera: Diadocidiidae, Keroplatidae, Mycetophilidae) p. 293

A preliminary faunistic survey on the Diadocidiidae, Keroplatidae and Mycetophilidae was carried out in a Nature Reserve of the northern Apennines: “Agoraie di Sopra e Moggetto” (Liguria region, Genoa province). In all 56 species were identified; *Mycetophila caudata* Staeger, 1840 (Mycetophilidae) is a new record for to Italy, while four other species of the same family - *Cordyla flaviceps* (Staeger, 1840), *Mycetophila dziedzickii* Chandler, 1977, *M. occultans* Lundström, 1913, *Phronia nigricornis* (Zetterstedt, 1852) - were known in Italy only from South Tyrol.

Emilia P. Nartshuk - The Chloropidae of the Nature Reserves “Agoraie di Sopra e Moggetto” (Liguria, Genoa) and “Guadine Pradaccio” (Emilia-Romagna, Parma) (Diptera) p. 301

Faunistic surveys on the Chloropidae (Diptera) were carried out in two Nature Reserves of the northern Apennines: “Agoraie di Sopra e Moggetto” (Liguria region, Genoa province) and “Guadine Pradaccio” (Emilia-Romagna region, Parma province). In all 26 species are recorded: 24 species from “Agoraie di Sopra e Moggetto” and 12 from “Guadine Pradaccio”. *Chloropsina distinguenda* (Frey, 1909) is new to Italy; other species are recorded for the first time from the northern Apennines.

Daniele Birtele - The Hoverflies of the Nature Reserves “Agoraie di Sopra e Moggetto” (Liguria, Genoa) and “Guadine Pradaccio” (Emilia-Romagna, Parma) (Diptera, Syrphidae) p. 315

Faunistic surveys were carried out from 1999 to 2001 and in 2008 in two Nature Reserves of the northern Apennines: “Guadine Pradaccio” (Liguria, Genoa prov.) and “Agoraie di Sopra e Moggetto” (Emilia-Romagna, Parma prov.). This paper presents results regarding the ecology and zoogeography of the Syrphidae communities of these two reserves. The species list from “Guadine Pradaccio” is updated with regard to a previous contribution. A total of 71 species of Syrphidae were collected (63 for “Guadine Pradaccio” and 31 for “Agoraie di Sopra e Moggetto”). *Melanogaster nuda* (Macquart, 1829), mentioned so far in Italy only generically from the mainland and from Sicily, is recorded from Trentino, Emilia and Tuscany. *Eupeodes lundbecki* (Soot Ryen, 1946) and *Melanogaster aerosa* (Loew, 1843) are new for the Italian fauna.

Daniel Whitmore - Flesh Flies from two Nature Reserves of the Northern Apennines (Diptera, Sarcophagidae) P. 337

Eight species of flesh flies (Diptera, Sarcophagidae) are listed from two nature reserves of the northern Apennines (Italy): one from the “Guadine Pradaccio” Reserve (Parma province), and seven from the “Agoraie di Sopra e Moggetto” Reserve (Genoa province). Additional, previously unpublished locality records from other parts of Italy are given for each species, including new regional records; among these, *Brachicoma devia* (Fallén, 1820) is new for Sicily and *Sarcophaga (Liopygia) argyrostoma* (Robineau-Desvoidy, 1830) is new for Sardinia.

Alberto Zilli - Moth records from the Nature Reserve “Agoraie di Sopra e Moggetto” (Liguria, Genoa) (Lepidoptera) p. 347

Following a sampling campaign on the insects of the Nature Reserve “Agoraie di Sopra e Moggetto” 7 species of moths, belonging to the superfamilies Pyraloidea and Noctuoidea, were recorded. They are all characterised either by wide ecological tolerance or mesophylous attitudes.

Sönke Hardersen - First records of the Hesperioidea and Papilionoidea of the Nature Reserve “Agoraie di Sopra e Moggetto” (Liguria, Genoa) (Lepidoptera).

During a brief study (July-August 2008) the butterflies (Hesperioidea and Papilionoidea) of the Nature Reserve “Agoraie di Sopra e Moggetto” were investigated. A total of 13 species were recorded, all are relatively common and are already known from sites close to the Reserve.

Atti sociali...p. 361