

## MISCELLANEOUS RECORDS OF DRAGONFLIES AND DAMSELFLIES (INSECTA, ODONATA) FROM CONTINENTAL PORTUGAL

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**Abstract:** The known distribution of twenty dragonfly and damselfly species is increased in continental Portugal. Five species are recorded for the first time from Peneda-Gerês National Park.

**Keywords:** Odonata, Continental Portugal, Peneda-Gerês National Park, new records.

### Registros de odonatos para Portugal continental (Insecta, Odonata)

**Resumen:** Se presentan registros de 20 especies de Odonata, ampliando los conocimientos sobre su distribución en Portugal Continental. Cinco de las especies son novedades para la fauna del Parque Nacional de Peneda-Gerês.

**Palabras clave:** Odonata, Portugal Continental, Parque Nacional de Peneda-Gerês, nuevos registros.

### Introduction

The Odonata are a very conspicuous group of insects which is easily encountered during fieldwork, usually in the vicinity of water but sometimes quite apart from it (especially in the case of the Anisoptera). The Portuguese fauna of this group includes 65 species (Seabra, 1942; Aguiar & Aguiar, 1985; Jodicke, 1996; Malkmus, 2002) whose distributions are still known in a rather patchy way, despite the fact that up to the present more than 80 references have been published (for a comprehensive annotated list see Ferreira & Weihrauch, in press).

Since 1994 the authors have conducted entomological studies in different areas of Continental Portugal with the purpose of building reference collections, cataloguing the national as well as some local faunas and increasing the knowledge on species distributions. These studies, which focused mostly on the orders Coleoptera and Hemiptera, have resulted in a number of additions to the Portuguese fauna and a much higher amount of interesting records in terms of distribution and clarification of species occurrence.

Part of the results of these studies has already been presented in 16 papers, in most cases in *Boletín de la Sociedad Entomológica Aragonesa*. In this contribution we include part of the information obtained for the order Odonata, with the intention of increasing the known distribution of the species. The only records previously published for this group refer to the confirmation of the presence of *Brachytron pratense* (Müller, 1764) in Portugal (Ferreira & Grosso-Silva, 2003) and the inclusion, in the introductory chapter of a Portuguese butterfly field guide, of a photograph and data of one specimen of *Orthetrum caerulelescens* (Fabricius, 1798) (Grosso-Silva, 2003).

The data here presented for Peneda-Gerês National Park ("PGNP" in the records) was collected during two studies conducted in the years 2002 and 2003 by JGS and PSV that aimed to catalogue (bibliographically and through fieldwork) the fauna of several invertebrate groups (for further details see Soares-Vieira & Grosso-Silva, 2003). The

Odonata were not included in the primary target groups and were treated more superficially, but the results are still very interesting: five of the species were found in the Park for the first time and the distribution of several others within the Park was increased, in some cases significantly.

The specimens listed below include field observations (specimens captured for identification and then released, indicated by "obs.") and vouchers. Unless otherwise stated, the specimens listed were collected by the authors and are deposited in SF's collection. Some exuviae, which are preserved in the same collection, were also collected, being indicated by "exuv.". The data presented includes UTM grid coordinates in two different scales: 1x1 Km for the sites located in Peneda-Gerês National Park and 10x10 Km for the remaining ones.

The identification of the specimens was based on Askew (1988), Aguiar & Dommanget (1998) and Boudot (2001).

### Species list

#### Calopterygidae Buchecker, 1876

##### *Calopteryx haemorrhoidalis* (Van der Linden, 1825)

MATERIAL EXAMINED: Paredes: Recarei (29TNF45), 02-07-1995 (1 ♂). Ponte da Barca: Froufe (PGNP) (29TNG5830), 20-07-2003 (1 ♂ obs.). Viana do Castelo: Moreira de Geraz do Lima (29TNG21), 04-10-2001 (1 ♂ and 3 ♀♀). Vila Nova de Foz Côa: Aguiar stream at Senhora do Campo (29TPF64), 22-08-1997 (1 ♀).

##### *Calopteryx virgo* (Linnaeus, 1758) ssp. *meridionalis* Selys, 1873

MATERIAL EXAMINED: Arcos de Valdevez: Near Aveleira (29TNG6342), 23-07-2003 (1 ♂ obs.); Aveleira (29TNG6241), 23-07-2003 (1 ♂ obs.); River Peneda (29TNG6446), 09-07-1996 (1 ♀) and (29TNG6549), 24-07-2002 (several ♂♂ obs.). Melgaço: Moadoira stream (29TNG6452), 25-07-2002 (several ♂♂ obs.); Near Dorna (29TNG6949), 24-07-2002 (several ♂♂ obs.); Near Lamas de Mouro (29TNG6654), 24-

07-2002 (several ♂♂ obs.); River Castro Laboreiro (between Ameijoeira and Mareco) (29TNG6948), 25-07-2002 (several ♂♂ obs.); Rivulet Corga do Portal Lameira (29TNG6146), 25-07-2002 (several ♂♂ obs.); Rivulet Corga dos Portos (near Eiras) (29TNG7253), 24-07-2002 (several ♂♂ obs.); Ossos stream (near Ribeiro de Cima) (29TNG6747), 24-07-2002 (1 ♂ and 1 ♀); River Pomba (near Bouça dos Homens) (29TNG6249), 25-07-2002 (several ♂♂ obs.); Volta do Rio (near Ribeiro de Baixo) (29TNG6845), 24-07-2002 (several ♂♂ obs.). Montalegre: Rivulet Corga do Gergalão (near Lapela) (29TNG8322), 20-08-2002 (several ♂♂ obs.); River Pincães, near Pincães (29TNG7817), 20-08-2002 (several ♂♂ obs.). Ponte da Barca: Germil (29TNG6126), 16-04-2003 (several ♂♂ obs.); Lomba (29TNG6229), 21-07-2003 (1 ♂ obs.). Terras de Bouro: Curral de S. Miguel (29TNG7228), 08-08-2002 (several ♂♂ obs.); Fonte de Albergaria (29TNG7227), 08-08-2002 (several ♂♂ obs.); Fonte do Padre (29TNG6719), 04-07-2002 (1 ♂) (several ♂♂ obs.); Fonte da Balsada (29TNG7127), 16-06-2002 (1 ♀, Jorge Vaqueiro leg.); Pontido stream (29TNG7116), 07-08-2002 (several ♂♂ obs.); Roda stream, near Campo do Gerês (29TNG6723), 07-08-2002 (several ♂♂ obs.); Stream near Chelo (29TNG7218), 04-07-2002 (2 ♂ and 1 ♀); River Arado (29TNG7219), 07-08-2002 (several ♂♂ obs.); Gerês (29TNG6920), 06-08-2002 (several ♂♂ obs.); Mata de Albergaria (29TNG7127), 06-08-2002 (several ♂♂ obs.). All sites are located in PGNP.

***Calopteryx xanthostoma* (Charpentier, 1825)**

MATERIAL EXAMINED: Melgaço: River Castro Laboreiro (between Ameijoeira and Mareco) (PGNP) (29TNG6948), 25-07-2002 (2 ♂♂ obs.).

**Coenagrionidae Kirby, 1890**

***Enallagma cyathigerum* (Charpentier, 1840)**

MATERIAL EXAMINED: Arcos de Valdevez: Near Senhora da Peneda (29TNG6447) (1 ♂). Montalegre: Carris reservoir (29TNG7929), 09-07-2003 (2 ♂♂). Both sites are located in Peneda-Gerês National Park.

COMMENTS: New species for the fauna of PGNP.

***Ichnura graellsii* (Rambur, 1842)**

MATERIAL EXAMINED: Aveiro: Esteiro de Salreu (29TNF30), 24-10-2001 (1 ♂ and 2 ♀♀), 27-03-2002 (1 ♂ and 1 ♀), 01-05-2002 (3 ♂♂ and 4 ♀♀).

***Ichnura pumilio* (Charpentier, 1825)**

MATERIAL EXAMINED: Aveiro: Esteiro de Salreu (29TNF30), 24-10-2001 (1 ♂ and 2 ♀♀), 27-03-2002 (1 ♀), 01-05-2002 (1 ♀). Vila do Conde: Mindelo ponds (29TNF27), 21-05-2003 (1 ♂; CIBIO-UP col.).

***Pyrhosoma nymphula* (Sulzer, 1776)**

MATERIAL EXAMINED: Melgaço: Moadoira stream (PGNP) (29TNG6452), 25-07-2002 (1 ♂); Near Lamas de Mouro (PGNP) (29TNG6654), 24-07-2002 (1 ♀); Rivulet Corga dos Portos (near Eiras) (PGNP) (29TNG7253), 24-07-2002 (1 ♂). Terras de Bouro: Stream near Chelo (PGNP) (29TNG7218), 04-07-2002 (1 ♂ obs.); Mata de Albergaria (PGNP) (29TNG7127), 13-06-2002 (1 ♂ and 1 ♀), 02-07-2002 (2 ♂♂). Vila do Conde: Mindelo ponds (29TNF27), 21-05-2003 (1 ♂; CIBIO-UP col.).

**Lestidae Sélys, 1840**

***Lestes viridis* (Van der Linden, 1825)**

MATERIAL EXAMINED: Aveiro: Esteiro de Salreu (29TNF30), 24-10-2001 (1 ♀). Valongo: River Ferreira (29TNF45), 23-09-2001 (1 ♂ and 1 ♀ obs.). Vila Nova de Foz Côa: Aguiar stream at Senhora do Campo (29TPF64), 22-08-1997 (1 ♀).

***Sympecma fusca* (Van der Linden, 1820)**

MATERIAL EXAMINED: Montalegre: Near Pitões das Júnias (PGNP) (29TNG8832), 29-05-2002 (1 ♀, Jorge Vaqueiro leg.).

COMMENTS: New species for the fauna of PGNP.

**Platynemididae Tillyard, 1938**

***Platynemis acutipennis* Sélys 1841**

MATERIAL EXAMINED: Ponte da Barca: Entre-Ambos-os-Rios (PGNP) (29TNG5630), 21-07-2003 (1 ♂).

COMMENTS: New species for the fauna of PGNP.

***Platynemis latipes* Rambur, 1842**

MATERIAL EXAMINED: Ponte da Barca: Froufe (PGNP) (29TNG5830), 20-07-2003 (1 ♀); Entre-Ambos-os-Rios (PGNP) (29TNG5630), 21-07-2003 (2 ♂♂). Valongo: River Ferreira (29TNF45), 23-09-2001 (2 ♂♂).

COMMENTS: New species for the fauna of PGNP.

**Aeshnidae Sélys, 1850**

***Aeshna cyanea* (Müller, 1764)**

MATERIAL EXAMINED: Maia: Silva Escura (29TNF36), 21-10-2002 (1 ♂). Terras de Bouro: Gerês (PGNP) (29TNG62), 2003 (1, Henrique Carvalho leg.).

***Aeshna mixta* Latreille, 1805**

MATERIAL EXAMINED: Aveiro: Esteiro de Salreu (29TNF30), 24-10-2001 (1 ♂ and 1 ♀ in tandem).

***Anax imperator* Leach, 1815**

MATERIAL EXAMINED: Montalegre: Carris reservoir (PGNP) (29TNG7929), 09-07-2003 (1 ♂).

COMMENTS: New species for the fauna of PGNP.

***Boyeria irene* (Fonscolombe, 1838)**

MATERIAL EXAMINED: Arcos de Valdevez: Aveleira (PGNP) (29TNG6241), 23-07-2003 (1 ♂ obs.). Maia: S. Frutuoso (29TNF36), 06-07-2004 (1 ♂ obs.). Melgaço: Moadoira stream (PGNP) (29TNG6452), 25-07-2002 (1 exuv., several specimens obs.); Near Dorna (PGNP) (29TNG6949), 24-07-2002 (1 ♀ obs.); River Peneda (PGNP) (29TNG6549), 24-07-2002 (1 ♀); Ossos stream (near Ribeiro de Cima) (PGNP) (29TNG6747), 24-07-2002 (2 exuv.); River Castro Laboreiro (between Ameijoeira and Mareco) (PGNP) (29TNG6948), 25-07-2002 (1 exuv., 1 ♂ obs.). Montalegre: Rivulet Corga do Gergalão (near Lapela) (PGNP) (29TNG8322), 20-08-2002 (1 ♂ obs.); River Pincães, near Pincães (PGNP) (29TNG7817), 20-08-2002 (1 ♂ obs.). Paredes: Recarei (29TNF45), 11-06-1994 (1 ♂). Ponte da Barca: Infesta (PGNP) (29TNG6033), 20-07-2003 (1 exuv.). Terras de Bouro: Pontido stream (PGNP) (29TNG7116), 07-08-2002 (several exuv., 1 ♂ obs.); River Arado (PGNP) (29TNG7219), 07-08-2002 (1 exuv., several specimens obs.); Gerês (PGNP) (29TNG6920), 06-08-2002 (1 exuv., several specimens obs.).

**Cordulegastridae Fraser, 1940**

***Cordulegaster boltonii* (Donovan, 1807)**

MATERIAL EXAMINED: Melgaço: Moadoira stream (29TNG6452), 25-07-2002 (1 ♀ obs. ovipositing); Near Dorna (29TNG6949), 24-07-2002 (1 ♂ of the *ssp. immaculifrons* Sélys & Hagen, 1850); River Peneda (29TNG6549), 24-07-2002 (1 ♂ obs.); Near Lamas de Mouro (29TNG6654), 24-07-2002 (1 ♂ obs.); River Castro Laboreiro (between Ameijoeira and Mareco) (29TNG6948), 25-07-2002 (1 exuv.); Ossos stream (near Ribeiro de Cima) (29TNG6747), 24-07-2002 (1 exuv.); River Pomba (near Bouça dos Homens) (29TNG6249), 25-07-2002 (2 ♂♂ obs.); Volta do Rio (near Ribeiro de Baixo)

(29TNG6845), 24-07-2002 (1 ♂ obs.). Montalegre: River Pincães, near Pincães (29TNG7817), 20-08-2002 (1 ♂ obs.). Ponte da Barca: Lomba (29TNG6229), 27-07-2003 (1 exuv.); Near Germil (29TNG6025), 21-07-2003 (1 ♂ obs.). Terras de Bouro: Ermida (29TNG7217), 07-08-2002 (1 ♂ obs.); Quelha da Buraca stream (29TNG6819), 06-08-2002 (1 exuv.); Roda stream, near Campo do Gerês (29TNG6723), 07-08-2002 (2 ♂♂ obs.); River Arado (29TNG7219), 07-08-2002 (1 ♂ obs.); Mata de Albergaria (29TNG7127), 06-08-2002 (1 ♂ obs.). All sites are located in PGNP.

### Gomphidae Sélys, 1850

#### *Gomphus pulchellus* Sélys, 1840

MATERIAL EXAMINED: Paredes: Santa Comba stream (Alvres) (29TNF45), 10-04-1995 (1 ♀).

#### *Onychogomphus uncutus* (Charpentier, 1840)

MATERIAL EXAMINED: Melgaço: Near Bago de Baixo (PGNP) (29TNG7049), 25-07-2002 (1 ♀); Near Dorna (PGNP) (29TNG6949), 24-07-2002 (2 ♂♂); River Castro Laboreiro (between Ameijoeira and Mareco) (PGNP) (29TNG6948), 25-07-2002 (1 ♂). Ponte da Barca: Costa (PGNP) (29TNG6129), 21-07-2003 (1 ♂ obs.). Rio Maior: Anteporta (29SND04), 10-08-2000 (1 ♂). Terras de Bouro: River Arado (PGNP) (29TNG7219), 07-08-2002 (1 ♂ obs.); Gerês (PGNP) (29TNG6920), 06-08-2002 (1 ♂); Roda stream, near Campo do Gerês (PGNP) (29TNG6723), 07-08-2002 (several ♂♂ obs.).

### Libellulidae Sélys, 1850

#### *Sympetrum sanguineum* (Müller, 1764)

MATERIAL EXAMINED: Vila do Conde: Mindelo ponds (29TNF27), 21-05-2003 (1 ♂, CIBIO-UP col.).

#### *Sympetrum striolatum* (Charpentier, 1840)

MATERIAL EXAMINED: Aveiro: Esteiro de Salreu (29TNF30), 24-10-2001 (3 ♂♂ and 1 ♀). Ovar: Barrinha de Esmoriz (29TNF23), 05-2003 (1 ♂ observed emerging and collected shortly after, Mário Costa leg.).

### Acknowledgements

The studies of Peneda-Gerês National Park's fauna were funded by Instituto da Conservação da Natureza and by European Union's Programa Operacional do Ambiente.

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