

# New data on the distribution of *Podarcis bocagei carbonelli* PÉREZ-MELLADO, 1981 in Portugal

(Squamata: Sauria: Lacertidae)

Neue Angaben zur Verbreitung  
von *Podarcis bocagei carbonelli* PÉREZ-MELLADO, 1981 in Portugal  
(Squamata: Sauria: Lacertidae)

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## KURZFASSUNG

Es wird über neue Nachweise der montanen Unterart von Bocages Mauereidechse, *Podarcis bocagei carbonelli* PÉREZ-MELLADO, 1981 aus Portugal berichtet, welche nunmehr auch in einigen Hochlagen (Montemuro, Leomil und Lapa Berge) nördlich der aus dem Estrela Gebirge bekannten Vorkommen angetroffen wurde. Als Lebensraum dienen an den neuen Fundorten Ginster- und Heidekrautbestände im Bereich geschlägerter Eichenwälder (*Quercus pyrenaicus*).

## ABSTRACT

The author reports on new locality records of the montane subspecies of Bocage's Wall Lizard, *Podarcis bocagei carbonelli* PÉREZ-MELLADO, 1981 from Portugal, where the lizard was found in some highland areas (Montemuro, Leomil and Lapa mountains) situated north of its known range in the Estrela mountains. In the new places, the lizards were found in deforested areas colonized by broom and heather that had replaced the Pyrenean oak (*Quercus pyrenaica*).

## KEY WORDS

Squamata, Lacertidae; *Podarcis bocagei carbonelli*, new records, Portugal, Sistema Central mountains

*Podarcis bocagei carbonelli* PÉREZ-MELLADO, 1981 is a small lizard (adult snout-vent length 53-58 mm), endemic to the western Sistema Central mountains of the Iberian Peninsula (fig. 1) and isolated from the nominal subspecies that inhabits north-west Iberia (BARBADILLO 1987; PÉREZ-MELLADO 1986, 1997; PÉREZ-MELLADO & GALINDO 1986).

The hitherto known distribution of *P. b. carbonelli* PÉREZ-MELLADO, 1981 comprises the Estrela and Malcata mountains - Beira Alta province, Portugal (table 1, fig. 1) - and Gata, Las Hurdes, and Peña de Francia mountains - Castilla-Léon region, Spain - (SÁ-SOUSA 1995; GALÁN, 1997, LOUREIRO & al. 1996; PÉREZ-MELLADO 1997). The western limit of the range of *P. b. carbonelli* has established near the upper reaches of the river Mondego (Beira Alta prov., Portugal), in the east the range extends as far as the river Alágon (Salamanca prov., Spain) without reaching the Béjar mountain (PÉ-

REZ-MELLADO 1981 b; GALÁN 1997).

*Podarcis b. carbonelli* lives in clearings of deciduous forests of the Pyrenean oak, *Quercus pyrenaica* and its successional scrubland which is dominated by broom (*Cytisus*, *Genista*) or heather (*Calluna*, *Erica*) associations predominantly colonizing granitic ground. The altitudinal distribution of the lizard ranges approximately from 800 to 1200 m (PÉREZ-MELLADO 1981 a, b, 1983 a, b, c, 1984, 1986). As a consequence, *P. b. carbonelli* is usually not present in dry areas of the western Iberian Peninsula, such as evergreen forests of *Quercus ilex* / *Q. rotundifolia* or Mediterranean scrublands (PÉREZ-MELLADO 1981 a, b, 1997).

The mountain plateau of Montemuro-Leomil-Lapa was surveyed during June/July 1998, verifying some *P. bocagei* ssp. observations kindly made available by R. MALKMUS (May 25, 1998 - in litt.). Surprisingly, *P. b. carbonelli* was found (table

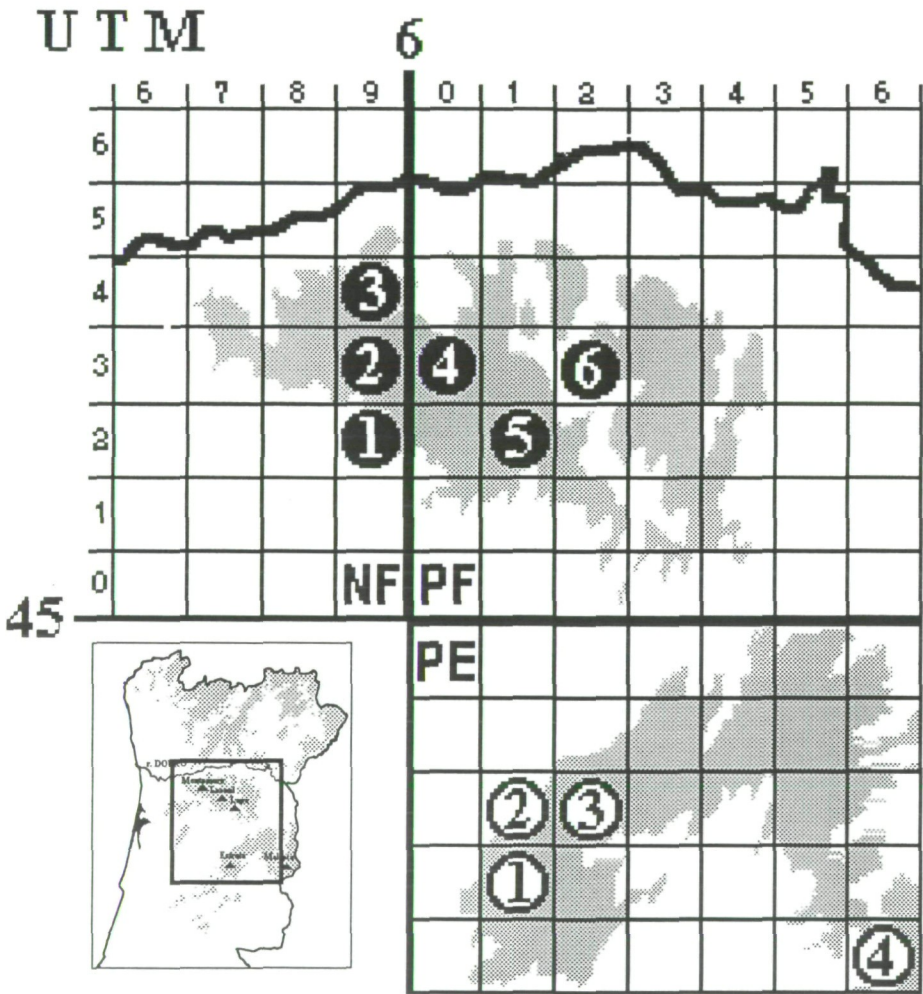


Fig. 1. Distribution of *Podarcis bocagei carbonelli* PÉREZ-MELLADO, 1981 in Portugal represented by numbered symbols within a UTM grid map. Previously known (⊙...⊙) and new (●...●) locality records. For the meaning of the symbols see table 1.

Abb. 1. Verbreitung von *Podarcis bocagei carbonelli* PÉREZ-MELLADO, 1981 in Portugal, dargestellt anhand numerierter Symbole in einer UTM Rasterkarte. Zuvor bekannte (⊙...⊙) und neue (●...●) Fundorte.

1, fig. 1), instead of the expected nominal subspecies of Bocage's Wall Lizard. Moreover, the sympatric presence of the Iberian Wall Lizard *P. hispanica* (STEINDACHNER, 1870) was confirmed in all sites, where *P. b. carbonelli* was seen. Bocage's Wall Lizards were visually detected on the ground along the paths crossing the broom and heather areas, near the edges of agricultural and meadow patches in the upper

valleys, and in clearings of Pyrenean oak forests.

The region of Montemuro - Leomil-Lapa is situated above 700 m a.s.l., characterized by Atlantic-Subatlantic (ASA) and Subatlantic (SA) climate (annual rainfall exceeding 1200 mm); the area is rich in granitic outcrops and Pyrenean oak forests (COMISSÃO NACIONAL DE AMBIENTE 1983).

Table 1. Previously known (⊙...⊙) and new (⊙...⊙) locality records of *Podarcis bocagei carbonelli* PÉREZ-MELLADO, 1981 in Portugal. \* - data from PÉREZ-MELLADO (1984), \*\* - data from LOUREIRO & al. (1996), + - previous data from the author. For the position of the locations in the UTM grid system see fig. 1.

Tab. 1. Bisher bekannte (⊙...⊙) und neue (⊙...⊙) Fundorte von *Podarcis bocagei carbonelli* PÉREZ-MELLADO, 1981 in Portugal. \* - Angaben nach PÉREZ-MELLADO (1984), \*\* - Angaben nach LOUREIRO & al. (1996), + - frühere Daten des Autors. Zur Lage der Fundorte im UTM Rasternetz siehe Abb. 1

Id	Cell /Zelle	UTM		Locality Fundort	Altitude (m) Höhe (m)	Municipality Gemeinde	Date Datum
		Latitude/Breite	Longitude/Länge				
Hitherto known records (Estrela-Malcata region) / Bisher bekannte Fundorte (Gebiet Estrela-Malcata)							
①	PE 1 6	6.17	44.64	Torre	1900	Seia	07-07-93 +
	PE 1 7	6.15	44.73	Sabugueiro	1100	Seia	1981/2 *
	PE 1 7	6.14	44.72	near Lagoa Comprida	1200	Seia	14-04-95 +
②	PE 1 7	6.18	44.73	Sr <sup>o</sup> do Espinheiro	1300	Seia	1981/2 *
	PE 1 7	6.12	44.75	Aldeia da Serra	800	Seia	1981/2 *
	PE 1 7	6.19	44.73	Vale Rossim	1400	Gouveia	1981/2 *
	PE 2 7	6.23	44.73	Caldas de Manteigas	800	Manteigas	1981/2 *
③	PE 2 7	6.25	44.70	Poço do Inferno	900	Manteigas	1981/2 *
	PE 2 7	6.21	44.74	Penhas Douradas	1500	Manteigas	1981/2 *
	PE 2 7	6.20	44.73	Vale Rossim	1500	Gouveia	07-07-93 +
	PE 2 7	6.20	44.70	Curral do Martins	1700	Manteigas	22-05-93 +
④	PE 6 5	6.68	44.52	Malhada do Barroso	1000	Sabugal	1996**
New records (Montemuro-Leomil-Lapa region) / Neue Fundorte (Gebiet Montemuro-Leomil-Lapa)							
①	NF 9 2	5.99	45.23	Orca de Pendilhe	800	Vila Nova de Paiva	08-06-98
②	NF 9 3	5.96	45.30	São Joanicos	700	Castro Daire	08-06-98
	NF 9 3	5.98	45.38	near Vale Abrigoso	1000	Castro Daire	08-06-98
③	NF 9 4	5.91	45.41	Cotelo	1000	CastroDaire	12-06-98
④	PF 0 3	6.08	45.34	Viduinho	900	Moimenta da Beira	11-07-98
⑤	PF 1 2	6.10	45.25	Peva	800	Moimenta da Beira	08-06-98
⑥	PF 2 3	6.20	45.33	Vila da Rua	700	Moimenta da Beira	10-07-98

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