

The spider (Araneae) fauna of the shore of Lake Balaton, Hungary

By

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Abstract. A total of 171 species of spiders have been found on the shore of Lake Balaton (Hungary). Some of them are considered to be rare and four are new species to the fauna of Hungary.

Balaton is the largest and the most well-known lake of Hungary. In spite of this, faunistical data concerning the spider fauna near Lake Balaton are rather poor. To improve the situation, the Limnological Research Institute, Tihany (Hungary) organised research and extensive collecting works in this area in 1990—1994. Before this study, only few references to this area can be found (KOLOSVÁRY, 1928, 1931, 1933; BALOGH 1933). This study summarises the result of the investigations of five years (1990—1994). The surveys were done by IMRE LOKSA (1990—91), ISTVÁN LOKSA (1992) and KINGA SZATHMÁRY (1993—94).

Material and methods

Sampling was carried out at 15 sampling sites (Figure 1). Only four of them were along the southern shoreline because it is mostly covered with concrete. In most cases active collecting methods were used: singling, sweeping, the peeling off the barks, at some localities pitfall traps also set up. We have at least one data set per each season from all research sites.

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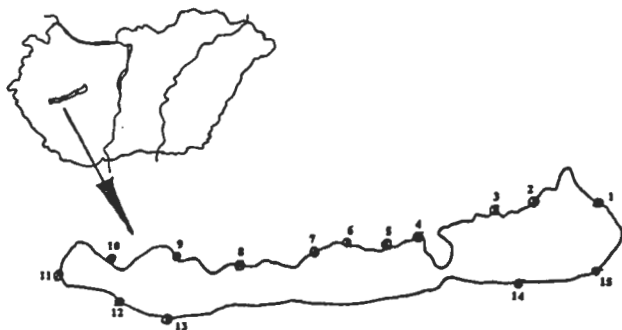


Fig. 1. Location of the sampling sites. 1: Balatonkenese, 2: Káptalanfüred - Alsóörs, 3: Paloznaki-bay, 4: Bozsai-bay, 5: Balatonudvari, 6: Balatonakali, 7: Balatonszepezd, 8: Ábrahámhegy, 9: Szigliget, 10: Balatonyörök, 11: Fenékpusztá, 12: Balatonberény, 13: Balatonfenyves, 14: Balatonszéplak-felső, 15: Balatonvilágos

Results

Altogether 171 spider species were identified in the area. Four of them — *Cyclosa oculata*, *Micrargus laudatus*, *Walckenaeria (=Cornicularia) kochi* and *Walckenaeria (=Cornicularia) unicornis* — are new to the Hungarian fauna, five for the Balaton region and some rare species were also caught. The results are summarized in Table 1.

The highest species diversity was found at Bozsai-bay — it is a large reedbelt — with 120 species, the lowest at Balatonszéplak-felső, a concrete-covered section of the shore with a small reed-spot, with 6 species. The new species to the Hungarian fauna, and the rare species are the following:

Haplodrassus signifer C. L. KOCH

This species lives in sandy areas and prefers habitats with short vegetation. It was found at the willow hedge along the shoreline.

Pardosa prativaga C. L. KOCH

This is a rare, euryhygric species with an irregular distribution. It was collected at Balatonakali, along the shore. It is the first occurrence of this species in the Balaton region.

Trochosa spinipalpis O.P.- CAMBRIDGE

This species is again new for the Balaton region, with an Arboreo-Mediterranean distribution. It is considered to live in wetlands and along shorelines.

Table 1. The spider fauna of the shore of Lake Balaton.

Bke = Balatonkenese, KAö = Káptalanfüred - Alsóörs, Pal = Páloznaki-bay, Bo = Bozsai-bay,
 Bu = Balatonudvari, Bak = Balatonakali, Bsze = Balatonszepezd, Ábr = Ábrahámhegy, Szig = Szigliget,
 Bgy = Balatongyörök, Fe = Fenékpusztá, Bb = Balatonfenyves, Bf = Balatonfenyves,
 Bszl = Balatonszéplak-felső, Bvi = Balatonvilágos

	Bke	KAö	Pal	Bo	Bu	Bak	Bsze	Ábr	Szig	Bgy	Fe	Bb	Bf	Bszl	Bvi
DICTYONIDAE															
<i>Dicyna arundinacea</i> Linné		*		*		*						*	*		
<i>Dicyna flavescens</i> Walckenaer				*											
<i>Dicyna lajtha</i> Fabricius				*											
<i>Dicyna pumila</i> Thorell				*											
<i>Dicyna uncinata</i> Thorell	*			*		*	*	*	*	*	*	*	*		
<i>Dicyna vindobona</i> O. Müller				*		*									
<i>Higma walckenaeri</i> Roewer				*		*						*	*		
<i>Argema crassipes</i> Dalman				*		*									
DYSDERIDAE															
<i>Harpactes rubicundus</i> C.L. Koch				*		*									
<i>Dysdera nivalis</i> Canestrini				*		*									
ZODARIIDAE															
<i>Zodarium</i> sp. n.			*												
GNAPHOSIDAE															
<i>Oratodes pubescens</i> Thorell				*		*									
<i>Haplodrassus stammeri</i> C.L. Koch				*		*		*	*	*	*	*	*		
<i>Zelotes apricorum</i> L. Koch				*		*		*	*	*	*	*	*		
<i>Zelotes praeficus</i> L. Koch				*		*		*	*	*	*	*	*		
<i>Zelotes pederitis</i> C.L. Koch				*		*		*	*	*	*	*	*		
<i>Micana foveola</i> Walckenaer				*		*		*	*	*	*	*	*		
CLUBIONIDAE															
CLUBIONINAE															
<i>Clubiona conulescens</i> L. Koch			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Clubiona compta</i> C.L. Koch			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Clubiona diversa</i> G.L. Koch			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Clubiona hirsuta</i> Simon			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Clubiona laevigata</i> Westring			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Clubiona sphaerocoma</i> C.L. Koch			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Clubiona rossae</i> Locket			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Clubiona stagnalis</i> Kulczynski			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Clubiona subtilis</i> L. Koch			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Cheiracanthum effosum</i> Herman			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Cheiracanthum straticum</i> Walckenaer			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Cheiracanthum pustulorum</i> Vllers			*	*	*	*	*	*	*	*	*	*	*	*	*
LICORAMINAE															
<i>Agracina striata</i> Kulczynski			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Agracina brunnea</i> Blackwall			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Agracina putata</i> Thorell			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Phrudolus festinus</i> C.L. Koch			*	*	*	*	*	*	*	*	*	*	*	*	*
ZORALEGENTIDAE															
<i>Zora sphinaria</i> Sundvall			*	*	*	*	*	*	*	*	*	*	*	*	*
EUSPARASSIDAE															
<i>Micrommata virgescens</i> Clerck			*	*	*	*	*	*	*	*	*	*	*	*	*
THOMISIDAE															
MISUMENINAE															
<i>Thomisus onustus</i> Walckenaer			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Dusa donata</i> Fabricius			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Misumenus araneicola</i> Doloschall			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Misumenus savignyi</i> Simon			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Misumena vaha</i> Clerck			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Misumenops tricuspidatus</i> Fabricius			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Runcina lateralis</i> C.L. Koch			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Xysticus kochi</i> Thorell			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Xysticus ulmi</i> Hahn			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Oxyptila atomaria</i> Panzer			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Oxyptila blackwata</i> Simon			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Oxyptila praticola</i> G.L. Koch			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Oxyptila simplex</i> Cambridge			*	*	*	*	*	*	*	*	*	*	*	*	*
PHLODROMIDAE															
<i>Phlodromus aureolus</i> Clerck			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Phlodromus caespitosus</i> Walckenaer			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Phlodromus dispar</i> Walckenaer			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Phlodromus felleri</i> Sundvall			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Phlodromus rufus</i> Walckenaer			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Thanasius</i> sp. n.			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Tibellus maritimus</i> Menge			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Tibellus oblongus</i> Walckenaer			*	*	*	*	*	*	*	*	*	*	*	*	*
SALTICIDAE															
<i>Sarbus aeneus</i> Clerck			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Heliophanus aeneus</i> Hahn			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Heliophanus auratus</i> C.L. Koch			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Heliophanus curvatus</i> Walckenaer			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Heliophanus flavus</i> C.L. Koch			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Marpissa canaliculata</i> Can. et Perr.			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Marpissa nivoyi</i> Lucas			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Marpissa radiata</i> Grube			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Balkus depressus</i> Walckenaer			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Euphryne petrensis</i> C.L. Koch			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Euphryne frontalis</i> Walckenaer			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Silicula spinicola</i> C.L. Koch			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Evarcha arcuata</i> Clerck			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Myrmarchina formicaria</i> Degeer			*	*	*	*	*	*	*	*	*	*	*	*	*
OXYOPIIDAE															
<i>Oxyopes heterophthalmus</i> Latreille			*	*	*	*	*	*	*	*	*	*	*	*	*
LYCOSIDAE															
<i>Pardosa amantata</i> Clerck			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Pardosa hortensis</i> Thorell			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Pardosa lupulina</i> Walckenaer			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Pardosa monticola</i> Clerck			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Pardosa paludicola</i> Clerck			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Pardosa palustris</i> Linné			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Pardosa pratensis</i> C.L. Koch			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Pardosa putata</i> Clerck			*	*	*	*	*	*	*	*	*	*	*	*	*

	Ba	KAd	Pal	So	Bu	Brk	Bsz	Abr	Sde	Bgy	Fe	Bb	Bf	Bsd	Bw
<i>Alopecosa purpurifera</i> Clerck															
<i>Trochosa robusta</i> Simon			*	*											
<i>Trochosa spirralis</i> Cambridge			*	*										*	
<i>Trochosa terreola</i> Thorell			*	*	*	*		*							
<i>Arctosa imitata</i> Hahn			*	*										*	
<i>Prata hypophana</i> Thorell			*	*										*	
<i>Prata latirana</i> Blackwall			*	*										*	
<i>Prata piscatoris</i> Clerck			*	*		*					*	*			
<i>Prata plicatus</i> Clerck			*	*		*					*	*			
<i>Prata tenuitarsis</i> Simon			*	*		*					*	*			
PISAURIDAE															
<i>Pissura mirabilis</i> Clerck			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Dolomedes imbricatus</i> Clerck			*	*	*	*	*	*	*	*	*	*	*	*	*
ARGYRONETIDAE															
<i>Argyroneta aquatica</i> Clerck			*	*							*	*			
AGELENIIDAE															
<i>Agelena gladiata</i> C. L. Koch			*	*										*	*
<i>Agelena labyrinthica</i> Clerck			*	*										*	*
MAHRIDAE															
<i>Arctia elegans</i> Blackwall			*	*											
<i>Halwa nava</i> Blackwall			*	*											
MIMETIDAE															
<i>Ero sphana</i> Walckenaer			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Ero fusca</i> Vögler			*	*	*	*	*	*	*	*	*	*	*	*	*
THERIDIIDAE															
<i>Acharanea</i> sp.															*
<i>Theridion bimaculatum</i> Linnaeus															*
<i>Theridion paludosum</i> Blackwall															*
<i>Theridion pectum</i> Walckenaer															*
<i>Theridion penstri</i> L. Koch			*	*											*
<i>Theridion asyphum</i> Clerck			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Theridion varians</i> Hahn			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Enoplognatha ovata</i> Clerck			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Enoplognatha schaufusii</i> L. Koch			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Enoplognatha thoracica</i> Hahn			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Robertus arundinellii</i> Cambridge			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Episus innocuus</i> Latreille			*	*	*	*	*	*	*	*	*	*	*	*	*
TETRAGNATHIDAE															
<i>Tetragnatha exilima</i> Linnaeus			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Tetragnatha germanica</i> Thorell			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Tetragnatha operta</i> Linné			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Tetragnatha parvula</i> L. Koch			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Pachygnatha clerici</i> Sundevall			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Pachygnatha degeeri</i> Sundevall			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Pachygnatha lutea</i> Sundevall			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Mela mengeli</i> Blackwall			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Mela sepioides</i> Clerck			*	*	*	*	*	*	*	*	*	*	*	*	*
ARANEIDAE															
<i>Gibbaranea bituberculata</i> Walckenaer			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Agelenaea redii</i> Seppell			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Araneus bituberculatus</i> Walckenaer			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Araneus diadematus</i> Clerck			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Araneus marmoreus</i> Clerck			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Araneus quadratus</i> Clerck			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Larinioides cordatus</i> Clerck			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Larinioides folium</i> Schrank			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Larinioides pataspilatus</i> Clerck			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Larinioides astipalmaris</i> Clerck			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Larinioides solophya</i> Walckenaer			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Argyria cruciata</i> Clerck			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Hyponeura harti</i> Hahn			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Singa hamata</i> Othier			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Singa lucina</i> Savigny et Audouin			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Singa nuda</i> C. L. Koch			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Zygote sinea</i> C. L. Koch			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Zea sopia</i> Walckenaer			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Cyclose ovata</i> Walckenaer			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Aranea bryonacha</i> Seppell			*	*	*	*	*	*	*	*	*	*	*	*	*
LINYPHIDAE															
<i>Micropoda wana</i> Blackwall			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Micropoda crassina</i> C. L. Koch			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Stenomphantes brevitum</i> Menge			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Bathypantes putatus</i> Cambridge			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Bathypantes ragnus</i> Westring			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Dolophila scintilla</i> Widder			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Leptothorax lanus</i> Blackwall			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Phoroma convexum</i> Westring			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Merina clathrata</i> Sundevall			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Linypha hortensis</i> Sundevall			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Linypha pusilla</i> Sundevall			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Linypha inopulans</i> Clerck			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Centromerus scaberus</i> Cambridge			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Donatocoma sepioides</i> Thorell			*	*	*	*	*	*	*	*	*	*	*	*	*
ERIGONINAE															
<i>Gonydellum murcidum</i> Simon			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Carinata brevis</i> Widder			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Deiopedelus pectus</i> Blackwall			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Tapinocyba insecta</i> L. Koch			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Hemalogenus sanguinolentus</i> Walck.			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Trichypterus dentis</i> Widder			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Gonatium corollae</i> Cambridge			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Oedothorax epistylis</i> Blackwall			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Oedothorax robustus</i> Blackwall			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Micrargus herbigradus</i> Blackwall			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Micrargus laudatus</i> Cambridge			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Trio vagans</i> Blackwall			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Walckenaeria antica</i> Widder			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Walckenaeria kochi</i> Cambridge			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Walckenaeria vigata</i> Blackwall			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Walckenaeria unicomis</i> Cambridge			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Engone dentispinus</i> Widder			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Erigone alba</i> Blackwall			*	*	*	*	*	*	*	*	*	*	*	*	*

Pirata tenuitarsis SIMON

This species is present throughout the Paleo- and Neartic regions except for Africa. As it is hygrophilic and avoids shadow, this species prefers marshy habitats. Its occurrence in Balatonakali is also a new record for the Balaton region.

Cyclosa oculata WALCKENAER

This species is distributed throughout the temperate regions of Europe and Asia. In Hungary, however, this is the first record; it was found in the reed vegetation of the Bozsai-bay.

Kaestneria pullata (= *Batyphantes pullatus*) O.P.-CAMBRIDGE

A rare species in Hungary with an European distribution. It always occurs near the water in wetlands and in reedy areas among the vegetation with helio- and hygrophil features. It was found in reed vegetation very near to the water in the Bozsai-bay.

Micrargus laudatus O.P.-CAMBRIDGE

A rare species with an unknown habitat preference. It was found in a temporarily water covered site near the Bozsai-bay. This is its first record for the Hungarian fauna.

Walckenaeria (= *Cornicularia*) *kochi* O.P.-CAMBRIDGE

A new species for Hungary. It has got a mainly Western European distribution and considered to be a hygrophilic species. It was collected from temporarily water covered sedge and reed vegetation near the Bozsai-bay.

Walckenaeria (= *Cornicularia*) *unicornis* O.P.-CAMBRIDGE

A new species in the Hungarian fauna, with an European distribution excluding Southern Europe. It was collected from reeds in the Bozsai-bay.

Diplostyla concolor WIDER

This species is new for the Balaton region, with a Central-European distribution, occurring in wet, shady habitats. It was found on reed fragments.

Donacochara speciosa THORELL

This species is strictly bound to reedy habitats and wetlands. Its distribution area contains Central-Europe. In Hungary it had been recorded at some other sites before, but not in the Balaton region.

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