

SPIDERS (ARANEAE) OF THE PEATBOG NATIONAL NATURE RESERVE ŠVIHROVSKÉ RAŠELINISKO (SLOVAKIA)

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SVATOŇ J., PRÍDAVKA R.: Spiders (Araneae) of the peatbog National Nature Reserve Švihrovské rašelinisko (Slovakia). In GAJDOŠ P., PEKÁR S. (eds): Proceedings of the 18th European Colloquium of Arachnology, Stará Lesná, 1999. *Ekológia (Bratislava)*, Vol. 19, Supplement 4/2000, p. 97-104.

Wetlands and peatbogs belong to the most rare and critically threatened ecosystems in Slovakia. Their protection became of prime interest in land conservation recently. Some 40 to 50 years ago there were 578 peatbogs registered in Slovakia with an area of more than 4 000 ha. Most of them were located in the lowland Podunajská nížina, Záhorie, in the valley Horehronské podolie, in the Oravská and Liptovská kotlina Basin as well as in the High Tatras. During the last 50 years the number and the area of these habitats have dramatically decreased as a result of intensive agriculture and pollution. All this resulted in the patchy distribution of such habitats.

From the arachnological point of view, very little attention has been paid to wetland habitats in Slovakia. An exception is a study of JEDLIČKOVÁ (1988) which summarised the seasonal occurrence of 283 species of spiders collected from six biotopes of Jurský Šúr in the lowland of Podunajská nížina, and the paper of SVATOŇ, PRÍDAVKA (1997) which deals with the arachnofauna of the Kláštorské lúky National Nature Reserve located in the Turčianska kotlina Basin. A number of papers have treated these habitats only superficially (GAJDOŠ, 1988, 1994; GAJDOŠ et al., 1984a, b, 1988, 1992; MILLER, 1935, 1936, 1937, 1958, 1967; MILLER, KRATOCHVÍL, 1939, 1940; MILLER, SVATOŇ, 1974; SVATOŇ, 1981, 1983a, b, c, 1984, 1985; SVATOŇ et al., 1998; SVATOŇ, MAJKUS, 1988; SVATOŇ, MILLER, 1979; ŽITŇANSKÁ, 1977, 1981a, b).

Stimulated by the Slovak Conservation Agency, residing in Liptovský Mikuláš, we began to investigate the spider fauna of the National Nature reserve Švihrovské rašelinisko in 1995 and continued until 1999.

This National Nature Reserve is situated at the border of the Liptovská kotlina Basin in the western part of the High Tatras near the village Jamník at 600-800 m a.s.l. (grid no. 6884). The peatbog originated from the alluvium of the brook Čierny potok, in the middle of a spruce forest. Phytocenologically it is a transitional peatbog characterised by *Caricion fuscae* and *Caricion lasiocarpae* vegetation types. The few trees which grow on the peatbog are *Picea excelsa*, *Pinus silvestris* and *Alnus* sp.

The spiders were collected at 6 sites (S1- moor biotope, S2- *Alnetum incanae* biotope, S3- central peatbog, S4- border of the spruce forest, S5- spruce forest, S6- meadows surrounding the brook) by means of pitfall traps, sweeping, beating of tree branches, sieving and individual collecting in order to obtain as many species as possible. The study sites were visited at one month intervals between May and October when the traps were emptied. Species nomenclature is according to PLATNICK (1997).

During five years, 3 564 individuals of spiders belonging to 180 species (20 families) were collected in total (Table 1). 694 individuals were juvenile, and thus could not be identified into a species level. According to BUCHAR'S (1992) classification of thermopreference, 59 species (32.7%) were psychrophilous (P), 43 species (23.9%) were mesophilous (M), 67 species (37.8%) were unspecified (N), and 5 species (2.2%), namely *Entelecara congenera* (O. P.-CAMBRIDGE), *Metopobactrus ascitus* (KULCZYŃSKI), *Talavera* sp., *Tegenaria domestica* (CLERCK), and *Xysticus* sp. could not be classified. Remarkable is the occurrence of 6 species (3.3%) which are characterised as thermophilous (T): *Alopecosa trabalis* (CLERCK), *Araniella opisthographa* (KULCZYŃSKI), *Enoplognatha thoracica* (HAHN), *Meioneta fuscipalpis* (C. L. KOCH), *Steatoda castanea* (CLERCK) and *Xysticus lanio* C. L. KOCH.

Of the six study sites, the central part of the peatbog (S3) was found to be most diverse in spider species as 138 (76.7%) species were recorded there. On the other sites only 20-70 species were found. The poorest species composition (14 species) was observed on the *Alnetum incanae* biotope (S2).

From the faunistic point of view several spider species, such as *Bolyphantus luteolus* (BLACKWALL), *Ceratinopsis stativa* (SIMON), *Emblyna brevidens* (KULCZYŃSKI), *Entelecara erythropus* (WESTRING), *Entelecara media* KULCZYŃSKI, *Hilaira excisa* (O. P.-CAMBRIDGE), *Pirata uliginosus* (THORELL), *Poecilonea variegata* (BLACKWALL), *Sitticus caricis* (WESTRING) and *Theridion mystaceum* L. KOCH are of a remarkable importance because they are known only from few localities in Slovakia. Two species, namely *Gnaphosa nigerrima* L. KOCH and *Heliophanus dampfi* SCHENKEL, are new to Slovakia.

The investigation of the Švihrovské rašelinisko peatbog will continue. We plan to focus on the surrounding wet biotopes. It is important to stress that arachnological research should be focussed on other peatbogs in Slovakia as well, particularly in the Orava region and the western part of Slovakia.

Table 1. List of species collected from 6 sites (S1-S6) of the peatbog. Numbers represent ♂/♀. TP stands for thermopreference classification after BUCHAR (1992). See text for explanation of classification letters.

Species	S-1	S-2	S-3	S-4	S-5	S-6	TP
ULOBORIDAE							
<i>Hyptiotes paradoxus</i> (C. L. K.)					-/1		P
THERIDIIDAE							
<i>Enoplognatha ovata</i> (CL.)	-/4		11/16	7/7	6/3	3/2	N
<i>Enoplognatha thoracica</i> (HAHN)			-/2				T
<i>Euryopis flavomaculata</i> (C. L. K.)	-/1		-/1				N
<i>Neottiura bimaculata</i> (L.)	-/2		-/4		-/2		N
<i>Robertus arundineti</i> (O. P.-CBR.)			1/-				N
<i>Steatoda bipunctata</i> (L.)			1/2				M
<i>Steatoda castanea</i> (CL.)			-/1				T
<i>Theridion impressum</i> L. K.			4/6				N
<i>Theridion mystaceum</i> L. K.			-/1				M
<i>Theridion pinastri</i> L. K.			1/3				M
<i>Theridion sisyphium</i> (CL.)	-/1		6/14	1/13	1/1	-/2	N
<i>Theridion tinctum</i> (WALCK.)			1/9	-/6	-/2	-/2	N
<i>Theridion varians</i> HAHN			5/17				N
LINYPHIIDAE							
<i>Agyneta subtilis</i> (O. P.- CBR.)	1/5		1/5	-/1			P
<i>Bathyphantes approximatus</i> (O. P.- CBR.)			-/1				P
<i>Bathyphantes nigrinus</i> (WESTR.)			-/3				N
<i>Bolyphantes alticeps</i> (SUND.)				3/4			P
<i>Bolyphantes luteolus</i> (BL.)			-/1				P
<i>Centromerus arcanus</i> (O. P.- CBR.)	-/1		3/5				P
<i>Centromerus levitarsis</i> (SIM.)			2/1				P
<i>Centromerus sylvaticus</i> (BL.)			-/1				N
<i>Ceratinopsis stativa</i> (SIM.)			-/2				P
<i>Cnephallocotes obscurus</i> (BL.)	1/-		5/-				N
<i>Dicymbium nigrum</i> (BL.)			1/-				N
<i>Dicymbium tibiale</i> (BL.)			-/1		-/2		N
<i>Diplocephalus latifrons</i> (O. P.- CBR.)			-/2				N
<i>Diplocephalus permixtus</i> (O. P.- CBR.)			-/1				P
<i>Diplostyla concolor</i> (WID.)				-/1			N
<i>Dismodicus bifrons</i> (BL.)			1/-				P
<i>Dismodicus elevatus</i> (C. L. K.)			1/1				P
<i>Drapetisca socialis</i> (SUND.)			-/1				P
<i>Entelecara acuminata</i> (WID.)			-/1	-/2			M
<i>Entelecara congenera</i> (O. P.- CBR.)			-/3	-/1	-/1	3/5	?
<i>Entelecara erythropus</i> (WESTR.)			-/2		-/3		M
<i>Entelecara media</i> KULCZ.				-/1			P
<i>Erigone atra</i> BL.			1/-				A
<i>Erigone dentipalpis</i> (WID.)			1/-				A
<i>Erigonella ignobilis</i> (O. P.- CBR.)			-/2				P
<i>Hilaira excisa</i> (O. P.- CBR.)	2/-						P
<i>Kaestmeria dorsalis</i> (WID.)			-/1				M
<i>Lepthyphantes alacris</i> (BL.)			2/6				P
<i>Lepthyphantes cristatus</i> (MGE.)	3/2		2/8				P
<i>Lepthyphantes crucifer</i> (MGE.)			-/3				M
<i>Lepthyphantes menzei</i> KULCZ.				1/-			A
<i>Lepthyphantes obscurus</i> (BL.)					-/1		P
<i>Lepthyphantes tenebricola</i> (WID.)				2/1			P
<i>Lepthyphantes zimmermanni</i> BERTH.			-/1				P

Table 1./2 Cont.

Species	S-1	S-2	S-3	S-4	S-5	S-6	TP
<i>Leptorhoptrum robustum</i> (WESTR.)			3/-				P
<i>Linyphia hortensis</i> SUND.	-/1						M
<i>Linyphia triangularis</i> (CL.)	4/3		9/22	7/7	1/1	1/1	N
<i>Lophomma punctatum</i> (BL.)			5/3				P
<i>Macrargus rufus</i> (WID.)					2/1		N
<i>Maso sundevalli</i> (WESTR.)				2/-			P
<i>Meioneta fuscipalpis</i> (C. L. K.)					-/1		T
<i>Meioneta rurestris</i> (C. L. K.)			-/3				N
<i>Metopobactrus ascitus</i> (KULCZ.)	1/-						?
<i>Micrargus herbigradus</i> (BL.)	1/1		1/1				P
<i>Microlinyphia pusilla</i> (SUND.)			1/13				N
<i>Neriere peltata</i> (WID.)					-/1		M
<i>Neriere radiata</i> (WALCK.)			1/4		-/1		M
<i>Notioscopus sarcinatus</i> (O. P.- CBR.)		-/1	15/28	-/4			P
<i>Oedothorax agrestis</i> (BL.)			2/-				M
<i>Oedothorax apicatus</i> (BL.)			1/-	1/-			M
<i>Oedothorax gibbosus</i> (BL.)	1/4	3/3	7/21	2/3			P
<i>Oedothorax retusus</i> (WEST.)			1/-				P
<i>Pelecopsis radicolica</i> (L. K.)				1/-			N
<i>Pityohyphantes phrygianus</i> (C. L. K.)	2/-		1/5	1/1	-/2		P
<i>Pocadicnemis pumila</i> (BL.)			-/3	1/-			N
<i>Poeciloneta variegata</i> (BL.)			-/3				P
<i>Tallusia experta</i> (O. P.- CBR.)			5/-				P
<i>Tapinopa longidens</i> (WID.)			1/-				P
<i>Walckenaeria acuminata</i> BL.	-/1		1/1				N
<i>Walckenaeria antica</i> (WID.)			1/-				N
<i>Walckenaeria atrotibialis</i> (O. P.- CBR.)	2/2		6/13	-/2			M
<i>Walckenaeria furcillata</i> (MGE.)	-/1						N
<i>Walckenaeria kochi</i> (O. P.- CBR.)		1/1	4/8	-/2			P
<i>Walckenaeria mitrata</i> (MGE.)			-/1				N
<i>Walckenaeria nudipalpis</i> (WESTR.)	-/1		7/2				P
TETRAGNATHIDAE							
<i>Metellina mengei</i> (BL.)			1/4				P
<i>Metellina segmentata</i> (CL.)					2/2		P
<i>Pachygnatha listeri</i> SUND.	3/-	-/2	6/9	1/4	1/-	-/1	M
<i>Tetragnatha extensa</i> (L.)			2/5			-/2	M
<i>Tetragnatha montana</i> SIM.			1/1				M
<i>Tetragnatha obtusa</i> C. L. K.			2/1	-/3	-/2		M
<i>Tetragnatha pinicola</i> L. K.			4/6	-/1	-/1		N
ARANEIDAE							
<i>Aculepeira ceropegia</i> (WALCK.)			3/27	1/1	1/4		P
<i>Araneus alsine</i> (WALCK.)	-/1		2/6		1/7		M
<i>Araneus diadematus</i> CL.	1/2		8/30	-/1	-/2		N
<i>Araneus marmoreus</i> CL.	1/11		6/75	1/1	2/5	-/2	M
<i>Araneus quadratus</i> CL.	-/2		15/43	-/2	-/1	-/1	N
<i>Araneus sturmi</i> (HAHN)							P
<i>Araniella alpica</i> (L. K.)			4/10	1/1	-/1		P
<i>Araniella cucurbitina</i> (CL.)			3/4	1/3	1/1	1/-	N
<i>Araniella displicata</i> (HENTZ)				-/1			N
<i>Araniella opisthographa</i> (KULCZ.)			-/3				T
<i>Cyclosa conica</i> (PALL.)	1/-		1/4		-/3	1/-	P
<i>Gibbaranea omoeda</i> (THOR.)					-/1		P
<i>Hypsosinga sanguinea</i> (C. L. K.)			-/2				N

Table 1/3 Cont.

Species	S-1	S-2	S-3	S-4	S-5	S-6	TP
<i>Larinioides patagiatus</i> (CL.)				-/6			M
<i>Mangora acalypha</i> (WALCK.)			1/4			-/1	N
LYCOSIDAE							
<i>Alopecosa aculeata</i> (CL.)		-/1		-/1			M
<i>Alopecosa pulverulenta</i> (CL.)	-/3	1/-	-/4	1/3			N
<i>Alopecosa trabalis</i> (CL.)	-/1		1/1				T
<i>Pardosa amentata</i> (CL.)	1/6						P
<i>Pardosa lugubris</i> (WALCK.)	-/1			-/1			N
<i>Pardosa monticola</i> (CL.)				-/1			N
<i>Pardosa palustris</i> (L.)					-/1		N
<i>Pardosa prativaga</i> (L. K.)				-/1			P
<i>Pardosa pullata</i> (CL.)	-/8	15/16	56/98	30/23	2/3		N
<i>Pirata hygrophilus</i> THOR.	3/10	1/20	40/65	13/43			P
<i>Pirata latitans</i> (BL.)			1/9				M
<i>Pirata piraticus</i> (CL.)			6/10				P
<i>Pirata piscatorius</i> (CL.)			2/-				M
<i>Pirata uliginosus</i> (THOR.)	1/5		25/6	-/3	-/1		P
<i>Trochosa spinipalpis</i> (O. P.- CBR.)	-/3		54/24	-/5			P
<i>Trochosa terricola</i> THOR.	-/1		1/7	-/2			N
<i>Xerolycosa nemoralis</i> (WESTR.)			1/2	-/1			N
PISAURIDAE							
<i>Dolomedes fimbriatus</i> (CL.)	-/9		2/72	-/1	-/16		P
<i>Pisaura mirabilis</i> (CL.)			2/2				N
AGELENIDAE							
<i>Agelena labyrinthica</i> (CL.)			2/-		1/-		M
<i>Tegenaria domestica</i> (CL.)					1/-		?
<i>Tegenaria silvestris</i> L. K.					-/1		N
CYBAEIDAE							
<i>Cybaeus angustiarum</i> L. K.	10/3	1/-					P
HAHNIIDAE							
<i>Antistea elegans</i> (BL.)	21/7	13/8	116/99	67/54			P
<i>Cryphoea silvicola</i> (C. L. K.)			1/2				P
DICTYNIDAE							
<i>Cicurina cicur</i> (FABR.)				-/2			N
<i>Dictyna arundinacea</i> (L.)			1/1				N
<i>Dictyna pusilla</i> THOR.			-/5	1/1	1/2	-/2	P
<i>Emblyna brevidens</i> (KULCZ.)			-/1	1/-			M
<i>Nigma flavescens</i> (WALCK.)			-/1				N
AMAUROBIIDAE							
<i>Callobius claustrarius</i> (HAHN)					1/2		P
<i>Coelotes inermis</i> (L. K.)					12/4		P
<i>Coelotes terrestris</i> (WID.)	5/3	1/-	12/4	8/2			N
LIOCRANIDAE							
<i>Agroeca brunea</i> (BL.)			2/-	-/1			N
<i>Phrurolithus festivus</i> (C. L. K.)			-/2				N
CLUBIONIDAE							
<i>Cheiracanthium erraticum</i> (WALCK.)			2/44	1/5	2/10		M
<i>Clubiona caerulea</i> L. K.				-/1			N
<i>Clubiona diversa</i> O. P.- CBR.						-/2	N
<i>Clubiona germanica</i> THOR.	1/1		1/1	-/1			M
<i>Clubiona lutescens</i> WESTR.	-/1		1/32		-/3	-/2	M
<i>Clubiona neglecta</i> O. P.- CBR.					1/3		N

Table 1./4 Cont.

Species	S-1	S-2	S-3	S-4	S-5	S-6	TP
<i>Clubiona pallidula</i> (CL.)	-/1			-/1			M
<i>Clubiona reclusa</i> O. P.- CBR.	-/4		1/33		2/29		P
<i>Clubiona stagnatilis</i> KULCZ.			-/2				M
<i>Clubiona subsultans</i> THOR.			3/5				P
<i>Clubiona subtilis</i> L. K.			-/1				M
<i>Clubiona terrestris</i> WESTR.			-/1				N
<i>Clubiona trivialis</i> C. L. K.	4/-		15/10	2/2	1/-	-/1	N
GNAPHOSIDAE							
<i>Drassodes pubescens</i> (THOR.)				2/-			N
<i>Gnaphosa nigerrima</i> L. K.			1/5				M
<i>Zelotes clivicola</i> (L. K.)			1/-				P
<i>Zelotes latreillei</i> (SIM.)			1/-				A
ZORIDAE							
<i>Zora spinimana</i> (SUND.)		-/1	2/1	-/2			A
HETEROPODIDAE							
<i>Micrommata virescens</i> (CL.)		-/2	2/33				A
PHILODROMIDAE							
<i>Philodromus aureolus</i> (CL.)			-/1		-/1		M
<i>Philodromus cespitum</i> (WALCK.)			-/2				M
<i>Philodromus collinus</i> C. L. K.			18/18	2/4	2/3	1/2	A
<i>Philodromus margaritatus</i> (CL.)	-/1		1/25	-/2			M
<i>Tibellus oblongus</i> (WALCK.)	-/1		9/29	-/2	-/4		M
THOMISIDAE							
<i>Diaea dorsata</i> (FABR.)			1/4		-/1		M
<i>Misumena vatia</i> (CL.)	-/1		2/13	-/1	-/1	-/1	A
<i>Ozyptila trux</i> (BL.)			1/-	4/2			P
<i>Xysticus audax</i> (SCHR.)			2/6				A
<i>Xysticus bifasciatus</i> C. L. K.					-/1		A
<i>Xysticus cristatus</i> (CL.)	-/1		1/3	-/3	1/2		A
<i>Xysticus lanio</i> C. L. K.					1/1		T
<i>Xysticus</i> sp.	-/3		4/29	-/5	-/8		M
<i>Xysticus ulmi</i> (HAHN)				1/-			M
SALTICIDAE							
<i>Bianor aurocinctus</i> (OHL.)			1/-	1/-			A
<i>Dendryphantès rudis</i> (SUND.)	2/-		10/21	4/9		-/6	A
<i>Euophrys frontalis</i> (WALCK.)			-/1				A
<i>Evarcha arcuata</i> (CL.)			1/1				M
<i>Evarcha falcata</i> (CL.)	5/2		26/20	2/1	3/3	2/1	A
<i>Heliophanus dampfi</i> SCHENK.			-/2				P
<i>Heliophanus dubius</i> C. L. K.			-/4				M
<i>Neon reticulatus</i> (BL.)				1/4			M
<i>Salticus cingulatus</i> (PANZ.)			-/2				M
<i>Sitticus caricis</i> (WESTR.)		1/-	8/3				P
<i>Talavera</i> sp.			1/-	2/-			P

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