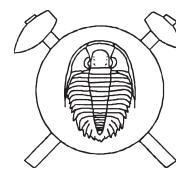


Silurian Organic-Walled Microfossils in the Prague Basin (Barrandian area): their localities, literature and distribution

Silurské mikrofosílie s organickou stěnou v pražské pánvi:
jejich lokality, rozšíření a literatura



(1 Fig., 8 Tabs)

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A review of the research of Silurian organic-walled microfossils (*Acritarcha*, *Chitinozoa*, *Muellerisphaerida*, *Prasinophyta*, spores) in the Prague Basin is shown in 7 tables. Their distribution and literature are shown in Tables 1 to 3. More than 40 different localities of organic-walled microfossils are included in Tables 4 to 7. Ranges of occurrences are correlated with graptolite biozonation.

Key words: Silurian, Czech Republic, Prague Basin, organic-walled microfossils

Introduction

Organic-walled microfossils (= OWM) have been studied in the Silurian of the Prague Basin since the Eisenack's pioneer work in 1934. A long period with no publications was interrupted by Paris (1981) and Paris – Kříž (1984). More than 15 papers were published by Dufka, Dufka and Fatka or Dufka and Paclová in the late 1980s and early 1990s. A review of OWM in the Prague Basin was compiled by Dufka (1990c) who dealt with the Silurian period only. Fatka (1999) reviewed OWM generally from the whole stratigraphic range of the Barrandian area.

The stratigraphic range of sampling done by the authors is shown in Tables 1 to 3. Tables 4 to 7 contain data on sampling sites. The absence of OWM in the studied samples is not shown. The depositional environment, lithotype, mode of preservation and method of sampling are not included in the tables. The left columns of all tables are based on Kříž (1991). Insufficient information about the stratigraphic range of sampling is expressed by a question mark. Localities in Tables 4 to 7, which are close to one another (for example, the Lištice locality in Table 5.1), are joined together in order to provide a better orientation in the tables.

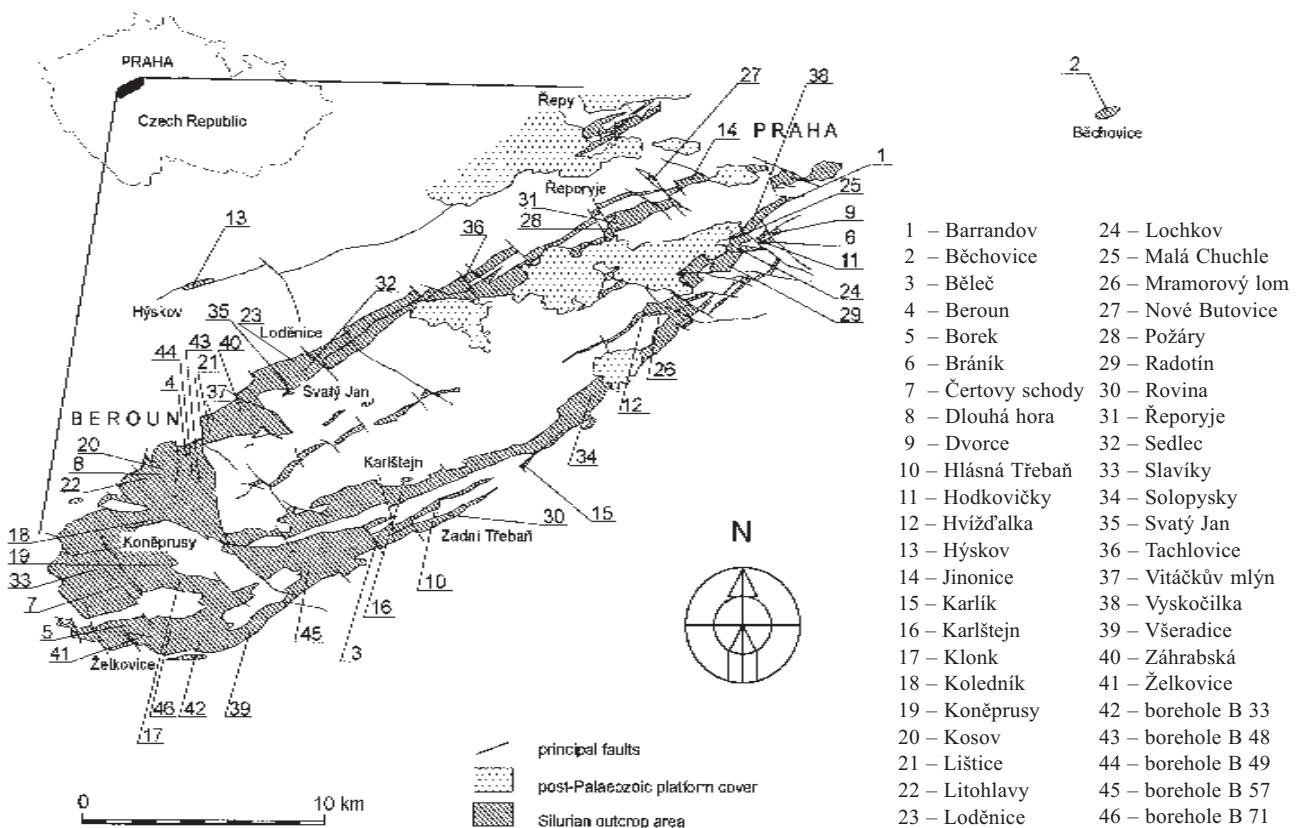


Fig. 1. Silurian outcrop area in Prague Basin (Barrandian area; Czech Republic) with localities referred in text. Map after Štorch (1994).

S II

Table 1. Summary of Silurian research of Aceritarcha and Muellerisphaerida in the Prague Basin (the Barrandian area, Czech Republic) according different authors (see explanations and references). Stratigraphy based on Kříž 1992.

Table 2. Summary of Silurian research of Chitinozoa in the Prague Basin (the Barrandian area, Czech Republic) according different authors (see explanations and references). Stratigraphy based on Kríž 1991.

C. KROH S-LETISKAP-HY	E. OSTRÝ-SEČNÝ	L. THEŠTĚR-GRANÝ	Stratigraphic																		EXPLANATIONS	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
L. O	M. transversalis	Pázov	?																			1. Finske et al., 1994
O	M. nemai																					2. Pážov, 1981
D	level with M. beatus	Formation																				3. Pážov & Jíš, 1981
I	M. arcaea																					4. Pážov - Šebek, 1981
Z	M. kocynensis																					5. Pážov, 1983
E	level with M. occidentalis																					6. Pážov, 1983
T	M. jilicis																					7. Pážov, 1983
	M. paucinucleus																					8. Pážov - Šebek, 1981
	M. ruginotatus																					9. Pážov - Šebek, 1981
	D. coniformis																					10. Pážov - Šebek, 1981
	interzone	Kopeřice																				11. Pážov - Šebek, 1981
	M. fraseri lineare																					12. Pážov - Šebek, 1981
	L. scutula																					13. Pážov - Šebek, 1981
	R. lata																					14. Pážov - Šebek, 1981
	level with C. praesertis																					15. Pážov - Šebek, 1981
	T. tigris																					16. Pážov - Šebek, 1981
	C. radiata																					17. Pážov - Šebek, 1981
	C. porosa																					18. Pážov - Šebek, 1981
	C. barbata																					19. Pážov - Šebek, 1981
	M. flexis																					20. Pážov - Šebek, 1981
	C. rigida																					21. Pážov - Šebek, 1981
	level with P. cuttis																					22. Pážov - Šebek, 1981
	M. nicaeensis																					23. Pážov - Šebek, 1981
	C. mucronata																					24. Pážov - Šebek, 1981
	C. carthaginus																					25. Pážov - Šebek, 1981
	C. cretensis																					26. Pážov - Šebek, 1981
	S. jardini																					27. Pážov - Šebek, 1981
	O. spiralis																					28. Pážov - Šebek, 1981
	M. aerula																					29. Pážov - Šebek, 1981
	M. heteromorphus																					30. Pážov - Šebek, 1981
	P. striatus																					31. Pážov - Šebek, 1981
	S. latissimis																					32. Pážov - Šebek, 1981
	H. lamellae																					33. Pážov - Šebek, 1981
	T. lychnis																					34. Pážov - Šebek, 1981
	M. spongiformis																					35. Pážov - Šebek, 1981
	C. exanthematus																					36. Pážov - Šebek, 1981
	C. fimbriatus																					37. Pážov - Šebek, 1981
	C. pseudolobatus																					38. Pážov - Šebek, 1981
	P. gaudichaudius																					39. Pážov - Šebek, 1981
	P. aciculatus																					40. Pážov - Šebek, 1981
	P. aciculatus																					41. Pážov - Šebek, 1981
	P. aciculatus																					42. Pážov - Šebek, 1981
	P. aciculatus																					43. Pážov - Šebek, 1981
	P. aciculatus																					44. Pážov - Šebek, 1981
	P. aciculatus																					45. Pážov - Šebek, 1981
	P. aciculatus																					46. Pážov - Šebek, 1981
	P. aciculatus																					47. Pážov - Šebek, 1981
	P. aciculatus																					48. Pážov - Šebek, 1981
	P. aciculatus																					49. Pážov - Šebek, 1981
	P. aciculatus																					50. Pážov - Šebek, 1981
	P. aciculatus																					51. Pážov - Šebek, 1981
	P. aciculatus																					52. Pážov - Šebek, 1981
	P. aciculatus																					53. Pážov - Šebek, 1981
	P. aciculatus																					54. Pážov - Šebek, 1981
	P. aciculatus																					55. Pážov - Šebek, 1981
	P. aciculatus																					56. Pážov - Šebek, 1981
	P. aciculatus																					57. Pážov - Šebek, 1981
	P. aciculatus																					58. Pážov - Šebek, 1981
	P. aciculatus																					59. Pážov - Šebek, 1981
	P. aciculatus																					60. Pážov - Šebek, 1981
	P. aciculatus																					61. Pážov - Šebek, 1981
	P. aciculatus																					62. Pážov - Šebek, 1981
	P. aciculatus																					63. Pážov - Šebek, 1981
	P. aciculatus																					64. Pážov - Šebek, 1981
	P. aciculatus																					65. Pážov - Šebek, 1981
	P. aciculatus																					66. Pážov - Šebek, 1981
	P. aciculatus																					67. Pážov - Šebek, 1981
	P. aciculatus																					68. Pážov - Šebek, 1981
	P. aciculatus																					69. Pážov - Šebek, 1981
	P. aciculatus																					70. Pážov - Šebek, 1981
	P. aciculatus																					71. Pážov - Šebek, 1981
	P. aciculatus																					72. Pážov - Šebek, 1981
	P. aciculatus																					73. Pážov - Šebek, 1981
	P. aciculatus																					74. Pážov - Šebek, 1981
	P. aciculatus																					75. Pážov - Šebek, 1981
	P. aciculatus																					76. Pážov - Šebek, 1981
	P. aciculatus																					77. Pážov - Šebek, 1981
	P. aciculatus																					78. Pážov - Šebek, 1981
	P. aciculatus																					79. Pážov - Šebek, 1981
	P. aciculatus																					80. Pážov - Šebek, 1981
	P. aciculatus																					81. Pážov - Šebek, 1981
	P. aciculatus																					82. Pážov - Šebek, 1981
	P. aciculatus																					83. Pážov - Šebek, 1981
	P. aciculatus																					84. Pážov - Šebek, 1981
	P. acic																					

Table 3. Summary of Silurian research of Prasinophyta and spores in the Prague Basin (the Barrandian area, Czech Republic) according different authors (see explanations and references). Stratigraphy based on Kríž 1991.

Table 4. Distribution of Acritarcha on Silurian localities of the Prague Basin (the Barrandian area, Czech Republic). Stratigraphy based on Kříž 1991. The numbers represent papers of the next authors: 1. Dufka – Pacltová, 1988; 2. Dufka, 1990a; 3. Dufka, 1990b; 4. Dufka, 1990c; 5. Dufka, 1991a; 6. Dufka – Fatka, 1991; 7. Dufka – Fatka, 1992c; 8. Dufka – Fatka, 1993; 9. Dufka, 1995b.

LOCALITIES	STRATIGRAPHIC RANGE OF OCCURRENCE	
Běchovice		2, 4 ■ ■
Beroun	4	■
Borck	4	■
Hlásná Třebaň		2, 4, 6, 8 ■ ■ ■ ■
Hodkovičky		4 ■
Hýskov		2, 3 ■
Jinonice	4	■
Karlík		2, 4, 6, 8 ■ ■ ■
Karlštejn		1, 2, 4 ■
Kosov	4, 5	■
Láštice (4 horizonty)	4	■ ■ ■ ■
Litohlavy		4 ■
Loděnice	4	■ ■
Nové Butovice		2, 4 ■ ■ ■ ■
Radotín		4 ■
Rovina	4	■ ■
Řeporyje	4	■
Sedlec	4	■
Solopysky		4 ■
Svatý Jan	4, 5, 9	■ ■ ■
Tachlovice		4 ■
Vítáčkův mlýn		5 ? ■ ?
Vyskočilka		4 ■ ■ ■
Záhrabská		4 ■
Želkovice		2, 4, 7 ■
BIOSISTRATIGRAPHY	<p>The diagram illustrates the distribution of acritarchs across various localities. It features a vertical axis on the left listing localities, and a horizontal axis at the bottom representing time from Silurian (S) to Neogene (N). Vertical bars above each locality indicate the presence of specific acritarch species. A legend on the left defines these symbols. Below the localities, a stratigraphic column shows biostratigraphic zones: LUDLOWIAN, CONNUFFINIAN, OMNIAN, CHILWOODIAN, TELECHIAN, ATTOMIAN, and NEOLICHENIAN. Correlation lines connect the zones across different localities, showing the temporal range of each acritarch species.</p>	
CHRONO-STRATIGRAPHY	<p>This diagram provides a broader view of the chrono-stratigraphic framework. It correlates the biostratigraphic zones with geological periods: PRIDOLIAN (LUDLOWIAN), LUDDIAN (CONNUFFINIAN), OMNIAN, CHILWOODIAN, TELECHIAN, ATTOMIAN, and NEOLICHENIAN. The periods are further divided into R, I, L, U, R, I, A, N, corresponding to the Silurian, Ordovician, Cambrian, and Neogene respectively. The diagram shows how the biostratigraphic zones (e.g., LUDLOWIAN, CONNUFFINIAN, OMNIAN) are distributed within these larger geological units.</p>	
	S I L U R I A N	N E OGENE

Table 5.1. Distribution of Chitinozoa on Silurian localities of the Prague Basin (the Barrandian area, Czech Republic). Stratigraphy based on Kříž 1991. The numbers represent papers of the next authors: 1. Eisenack, 1934; 2. Paris, 1981; 3. Paris – Kříž, 1981; 4. Paris – Laufeld – Chlupáč, 1981; 5. Paris, 1983; 6. Paris – Kříž, 1984; 7. Paris in Kříž et al., 1986; 8. Dufka – Pacltová, 1988; 9. Dufka, 1990a; 10. Dufka, 1990b; 11. Dufka, 1990c; 12. Dufka – Fatka, 1991; 13. Dufka, 1992a; 14. Dufka, 1992b; 15. Le Herisse, 1992; 16. Dufka – Fatka, 1993; 17. Dufka in Kříž et al., 1993; 18. Dufka, 1995a.

LOKALITÉS	STRATIGRAPHIC RANGE OF OCCURENCE																		
Barrandov	13 ?																		
Běchovice	9, 11																		
Beroun	11 ■																		
Bráňský	5, 7, 17	■ ?	?	■	?	■													
Čertovy schody	5, 7	■																	
Dlouhá Hora	1 ?	■																?	
Dvorce	1 ?	■																?	
Hlášná Třebaň															11, 12, 13, 18	■			
Hodkovičky															11, 13	■	■		
Hvízdačka	10, 11, 13	■																	
Hýskov															10, 11, 13	■			
Jinonice							11, 13	■											
Karlík															9, 11, 12, 13, 17	■			
Karlštejn									?	1, 2, 4, 5, 7, 8, 9, 11, 13									
Klonk	■	2, 4																	
Koledník	3, 5, 6, 7	■ ?																	
Kunčíprusy							17	?	■										
Kosov							3, 5, 6, 7, 11, 14, 18		■	■	■	■	■	■					
Kozel	?	■								?	1								
Lištice (6 lokality)							11, 17	■	■	■	■								
Litochlavy										11, 13	■								
Loděnice	?	■									?	1, 11, 13							
Lochkov		5, 7	■ ?																
Malá Chuchle												9	■						
Mramorový lom							3, 5, 7, 15												
Nové Butovice							9, 11, 17	■							■	■	■		
CHRONO- STRATIGRAPHY		Interzona M. transversalis	M. rotundata	Levečiella A. exulae	M. bicaudata	M. bicarinata	M. tricarinata	M. tricarinata	M. tricarinata	M. tricarinata	M. tricarinata	M. tricarinata	M. tricarinata	M. tricarinata	M. tricarinata	M. tricarinata	M. tricarinata	M. tricarinata	M. tricarinata
LITOSTRATI- GRAPHY																			
PERIOD		P R I O C - I	L U D L O W	W E N L O C K	S I L U R I A N											L L A N D O V E R Y			

Table 5.2. Distribution of Chitinozoa at Silurian localities of the Prague Basin (the Barrandian area, Czech Republic). Stratigraphy based on Kříž (1991). The numbers represent papers of the following authors: 1 – Paris–Kříž (1981); 2 – Paris (1983); 3 – Paris–Kříž (1984); 4 – Paris in Kříž et al. (1986); 5 – Dufka (1990c); 6 – Dufka (1992a); 7 – Dufka in Kříž et al. (1993); 8 – Dufka et al. (1995); 9 – Verniers et al. (1995).

LOCALITIES	STRATIGRAPHIC RANGE OF OCCURRENCE											
Požáry	1, 2, 3, 4, 9											
Rovina	5											
Řeporyje	5, 6, 7 ?											
Sedlec	5											
Solopysky	5, 6											
Tachlavice	5											
Všeradice	7											
borehole B 33	8											
borehole B 48	8											
borehole B 49	8											
borehole B 57	8											
borehole B 71	8											
BIOSTRATI-GRAFHY	Interzone <i>M. transgrediens</i>	<i>M. permari</i>	Level with <i>M. beatus</i>	<i>M. brouceki</i>	<i>M. lochkovensis</i>	Level with <i>M. priedolicensis</i>	<i>M. ultimus</i>	<i>M. perulatus</i>	<i>M. fraginellus</i>	Interzone	<i>B. bohemicus</i> s. l.	<i>M. frisiae</i> lineatus
											<i>I. secundus</i>	<i>N. nilssoni</i>
											<i>L. priscellum</i>	<i>P. ludensis</i>
											level with <i>G. riassae</i>	<i>I. leslis</i>
											<i>C. radians</i>	<i>C. permari</i>
											<i>C. rigidus</i>	<i>C. murchisoni</i>
											<i>O. spiralis</i>	<i>C. dentifragus</i>
											<i>M. crenulata</i>	<i>C. insectus</i>
											<i>M. griesstoneensis</i>	<i>S. grandis</i>
											<i>P. crispus</i>	<i>S. turriculatus</i>
											<i>R. linnaei</i>	<i>D. convolutus</i>
											<i>M. redigyi</i>	<i>D. pribilii</i>
											<i>D. pectinatus</i>	<i>D. triangulatus</i>
											<i>C. cyathus</i>	<i>C. vesiculosus</i>
											<i>P. excentricus</i>	<i>A. ensiformis</i>
CHRONO-STRATIGRAPHY	LJOFURIAN CORSTON FOYERIAN SHEWMOORIAN TYC-AN ACROAN PHINTANIAN											
	PŘIDOLÍ LLUDLOW WENLOCK LLANDOVERY											
	S I L U R I A N											

Acritarcha

Tables 1 and 4

Acritarcha are organic-walled microfossils of uncertain systematic position. *Acritarcha* consist of an organic wall surrounding a central cavity. The organic wall is composed of a variable number of layers. For the definition and examples, see Evitt (1963a, b), Servais et al. (1996) and Strother (1996).

Acritarcha from the Prague Basin were described by Dufka – Pacltová (1988), Dufka (1990a, b, c, 1991a, 1992c, 1995b) and by Dufka – Fatka (1991, 1993).

Chitinozoa

Tables 2, 5.1, 5.2

Chitinozoa are microfossils with an organic wall delimiting a cavity. The cavity is sealed by a plug. The individuals normally display radial symmetry. For details, see Paris et al. (1999), a.o.

In the Prague Basin, *Chitinozoa* were first described by Eisenack in 1934. However, the locations of the studied samples are not clear. Abbreviations used by Eisenack (1934) do not match with those of the cited author – Heritsch (1928).

Laufeld (1977) mentioned the importance of a detailed research of the Silurian/Devonian boundary interval in the Barrandian (Czech Republic) and Podolia (Ukraine). In this respect, *Chitinozoa* assemblages of the Silurian/Devonian boundary interval were studied by Paris. The results were published in two papers (Paris 1981 and Paris et al. 1981). The establishment of the fourth series of the Silurian – Přidolí – led to the study of *Chitinozoa* of this series and its limits by Paris – Kříž (1981, 1984), Paris (1983) and Paris in Kříž et al. (1986). Papers dealing with Silurian *Chitinozoa* include the following: Dufka – Pacltová (1988), Dufka

Table 6. Distribution of Muellerisphaerida (A) and spores (B) on Silurian localities of the Prague Basin (the Barrandian area, Czech Republic). Stratigraphy based on Kříž 1991. The numbers represent papers of the next authors: 1. Eisenack, 1934; 2. Dufka – Pacltová, 1988; 3. Dufka, 1990a; 4. Dufka, 1990c; 5. Dufka, 1991b; 6. Dufka, 1991c; 7. Dufka, 1992c; 8. Dufka – Kříž, 1992a; 9. Dufka – Kříž, 1992b; 10. Le Herisse, 1992; 11. Dufka in Kříž et al., 1993; 12. Dufka, 1995a; 13. Dufka, 1995b.

A

LOCALITIES	STRATIGRAPHIC RANGE OF OCCURENCE	
Dlouhá hora	1	■
Kosov	7, 12	■
Lištice	4, 6, 7	■
Loděnice	7	■
Mramorový lom	10	
Řeporyje	7	■
Želkovice	3, 4, 5, 6	■

B

ka (1989, 1990a, b, c, 1992a, b, 1995a, b), Dufka in Kríž et al. (1993). The paper of Dufka – Fatka (1991, 1993) deals with *Chitinozoa* near the Ordovician/Silurian boundary.

Dufka et al. (1995) processed samples from boreholes drilled in the course of uranium exploration.

The global *Chitinozoa* biozonation for the Silurian was established by Verniers et al. (1995). The distribution of selected index species, characteristic and accompanying species of *Chitinozoa* in the Prague Basin is mentioned in this paper.

Table 7. Distribution of Prasinophyta on Silurian localities of the Prague Basin (the Barrandian area, Czech Republic). Stratigraphy based on Kříž 1991. The numbers represent papers of the next authors: 1. Dufka, 1990a; 2. Dufka, 1990b; 3. Dufka, 1990c; 4. Dufka, 1992c; 5. Dufka, 1995a.

LOCALITIES	STRATIGRAPHIC RANGE OF OCCURRENCE				
Rěchovice		1, 3	■		■
Běleč				3	■
Beroun		3	■		
Borek		3	■		
Hlásná Lítečán		1, 3	■		
Hodkovičky		3	■	■	
Hýskov				2, 3	■
Jinonice		3	■		
Kadlik					1, 3
Karlštejn		1, 3	■		
Kosov		3, 5	■		
Lišnice		3	■	■	■
Litohlavy				3	■
Loděnice		3	■		
Malá Chuchle		1, 3	■		
Nové Butovice		1, 3	■		
Radotín				3	■
Rovina		3	■		
Řeporyje		3	■		
Sedlec			3	■	
Slavíky			3	■	
Solopysky				3	■
Sváty Jan		3	■		
Tachlovice		3	■		
Záhrabská				3	■
Želkovice		1, 3, 4	■		
BIOSTRATIGRAPHY	Placuna N. hirsutulus M. pecten Leptostom. testaceum M. trilobit. N. leptoconus Exoch. M. pecten N. ulvus M. pectinatus N. flagelliferus Meristinae E. leptoconus l. N. trichilinea s. L. scutellata I. pectinatus N. nisiori P. longulus evoluta, G. nisiori T. testa C. bicanalis C. conica C. rotunda K. decoloris G. eximius Exoch. P. evoluta M. nisiorum s.s. G. tenuis G. cernuulus G. medius S. grotensis C. spicula M. cerasula M. gressoniensis F. crassus S. lunulatus R. fimbriata K. decoloris D. oxycephalus D. frigida D. rathbuni D. tricuspidalis C. cephala C. quadrangularis F. reticulatus A. setigerus	P. RIDOLI LUDLOW	LUDLOW	WENLOCK	WENLOCK
CHRONO- STRATIGRAPHY	P. RIDOLI	LUDLOW	WENLOCK	WENLOCK	WENLOCK
	S I L U R I A N	S I L U R I A N	W E N L O C K	W E N L O C K	I I A N D O V E R Y

Muellerisphaerida

Tables 1 and 6

Muellerisphaerida are spherical phosphatic microfossils with spines. They represent a group of uncertain systematic position. The body is 100–400 mm in size (including spines). For further information, see Aldridge–Armstrong (1981) and Kozur (1999), a.o.

Silurian *Muellerisphaerida* from the Prague Basin were first depicted by Eisenack (1934). The locations and detailed stratigraphic positions of samples are uncertain. Aldridge – Armstrong (1981), who established the informal group of "mazuelloids", listed "Czechoslovakia" among their localities. Nevertheless, no precise location is given in their paper.

Additional information concerning the Prague Basin is connected with the research conducted by Dufka (1990a, 1992c, 1995a). The paper of 1991 dealt exclusively with this group. The last contribution was published by Le Herisse (1992).

Prasinophyta

Tables 3 and 7

No accurate definition of the *Prasinophyta* exists. In general, this term is applied to cysts belonging among primitive green algae (Guy – Ohlson 1996).

No author dealt with *Prasinophyta* only. Information about this group is presented in papers dealing with other groups of OWM: Dufka (1990a, b, c, 1992c, 1995a, b).

Spores

Tables 3 and 6

The spores from the Prague Basin were described by Dufka – Pacltová (1988) and Dufka (1990c, 1995b). The presence of abundant spores in the upper Wenlock of the Prague Basin was taken as one piece of evidence for the emergence of the Svatý Jan Volcanic Centre by Dufka – Kříž (1992a, b).

Conclusion

Acritarcha were studied from 28 localities in the Llandovery and Wenlock. *Chitinozoa* from the Prague Basin were studied from all four Silurian series. However, only one paper concerns the Wenlock/Ludlow boundary, and no overlap exists between this study and the other studies in the overlying formations. *Chitinozoa* have been found in 38 localities and 5 boreholes. Only one paper dealt with *Muellerisphaerida* as a main subject with specific results. *Muellerisphaerida* were often treated as a by-product of studies primarily focused on other groups of OWM. They come from 7 localities. *Prasinophyta* have been found at 26 localities as a by-product of studies in the Llandovery, Wenlock, in one graptolite biozone in the Ludlow and Přídolí. Spores have been determined from 15 localities in the Llandovery and Wenlock.

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Silurské mikrofosílie s organickou stěnou v pražské pánvi: jejich lokality, rozšíření a literatura

V sedmi tabulkách je uveden přehled rozšíření mikrofosílií s organickou stěnou (Acritarcha, Chitinozoa, Muellerisphaerida, Prasinophyta, spóry) v pražské pánvi. Jejich rozšíření a literatura je zpracována do tabulek 1 až 3. V tabulkách 4 až 7 jsou vyneseny rozsahy výskytů mikrofosílií na jednotlivých lokalitách. V příspěvku je uvedeno více než 40 lokalit. Rozsahy výskytů u všech tabulek jsou korelovány s graptolitovou biozonací. Jednotlivé tabulky jsou opatřeny slovním doprovodem.

