

APPENDIX 4

List of otolith-based fish taxa from the LOM-1 borehole

Taxa	Metres of borehole																					Iconography (Badenian, Carpathian Foredeep Moravia)
	0–1 m	1–2 m	2–3 m	3–4 m	4–5 m	5–6 m	6–7 m	7–8 m	8–9 m	9–10 m	10–11 m	11–12 m	12–13 m	13–14 m	14–15 m	15–16 m	16–17 m	17–18 m	18–19 m	19–20 m	20–21 m	
Clupeidae																						
<i>Etrumeus weileri</i> (Smigielska, 1966)	1																					
Clupeidae indet.											1	1	1	5	4	4	3	2				
Microstomatidae																						
<i>Nansenia</i> sp.							1														2	?1
Gonostomatidae																						
<i>Bonapartia pedaliota</i> Goode & Bean, 1896															?2	1		?1				
Sternoptychidae																						
<i>Maurolicus muelleri</i> (Gmelin, 1789)	4		2	1		1	4	3		3	2	3	1	2	4	2	4	7	2			4
<i>Valenciennellus tripunctulatus</i> (Esmark, 1871)				1		1	2	1			1											
<i>Polyipnus</i> sp.																			1			
Phosichthyidae																						
<i>Vinciguerria poweriae</i> (Cocco, 1838)	4	1	1	1		1	1		11	6	3		3	3	13	8	3	6	8	4		
<i>V.</i> sp.								1				1						1	2		2	
Myctophidae																						
<i>Benthosema fitchi</i> Brzobohaty & Schultz, 1978																?1		?1				
<i>Diaphus acutirostrum</i> (Holec, 1975)		3	3	3	1	5	6	6	3	8	3	5	6		3	2	2		5			1
<i>D. cahuzaci</i> Steurbaut, 1979	8	5	2	18	13	17	31	7	24	12	20	32	35	32	40	12	20	35	30	24	20	6
<i>D. debilis</i> (Koken, 1891)						4	9	3	2			2	6	12	6			7	?1	?8	10	3
<i>D. kokeni</i> (Prochazka, 1893)		1	8		1		1			2	1	3			4	12	15					
<i>D. regani</i> Taaning, 1928	1	1	5							7						1			2			
<i>D. taaningi</i> Norman, 1930	4	3	1	1		1					5		3		11	1	3	3			1	3
<i>Lampadena</i> sp.											1											
<i>Notoscopelus mediterraneus</i> (Koken, 1891)		?3															1		2			
<i>Symbolophorus meridionalis</i> Steurbaut, 1979																						
<i>Myctophidae</i> indet. (corroded and fragmented; < <i>Diaphus</i>)	85	44	64	92	50	100	120	18	34	189	152	125	119	209	315	171	186	187	246	74	138	38
Bregmacerotidae																						
<i>Bregmaceros albyi</i> (Sauvage, 1880)		1								3												
Macrouridae																						
<i>Gadomus tejkali</i> (Brzobohaty & Schultz, 1978)						1	2		3				3	5						2	2	
<i>Coelorincus coelorhinchus</i> (Risso, 1810)						1	1											?2				
<i>C. macruruloides</i> Brzobohaty, 1986		1								1		2				1						
<i>Nezumia</i> sp.										1												
Moridae																						
<i>Physiculus</i> aff. <i>huloti</i> Poll, 1953	1					?1					1			1		2			1			
Merluccidae																						
<i>Merluccius</i> aff. <i>merluccius</i> (Linnaeus, 1758)							1												1			
Gadidae																						
<i>Gadiculus argenteus argenteus</i> Guichenot, 1850	6	2	7	6	3	16	33	12	3	12	2	5	4	7	14	4	10	7	4	1	4	
Atherinidae																						
<i>Atherina austriaca</i> Schubert, 1906			1												1							
<i>Atherinomorus aquitanicus</i> (Priem, 1914)			1							1												
Trachichthyidae																						
<i>Hoplostethus</i> sp.																			1			
Peristediidae																						
<i>Peristedion</i> sp.		?1																				
Carangidae																						
<i>Trachurus</i> sp.												1										
Haemulidae																						
<i>Brachydeuterus speronatus</i> (Bassoli, 1906)							?1							1								
Sparidae																						
<i>Lithognathus</i> sp.	1																					
<i>Sparida</i> indet.																						
Labridae																						
<i>Labrida</i> indet.									1						1							
Trachinidae																						
? <i>Trachinus</i> sp.							?1															
Gobiidae																						
<i>Gobius</i> sp. – juveniles				1			1		2	1		2										
Gobiidae indet. – juveniles	3	3			1					3								4	3		1	
Sphyraenidae																						
<i>Sphyraena</i> sp.	1																					
Trichiuridae																						
Trichiuridae indet. – juveniles, corroded																			1			
Perciformes indet. – juveniles, fragmented	2					2												3				
Number of specimens	121	69	95	124	69	151	215	51	83	249	192	182	181	277	418	222	247	266	310	113	180	56

Bold – recent species