Summer Distribution of Tintinnids in Open Waters of the Adriatic Sea

by

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The researches were being carried out on June 19 - 23, 1978 in Jabuka pit ( 43°08'N, 15°02'E), the South Adriatic trench ( 42°04'N, 17°33'E) and the Strait of Otranto ( 40°02'N, 19°07'E). The samples have been collected in six layers by vertical tows with a closing net system ( 0,47 m diameter, 53 microns mesh aperture).

Totally, 23 species of tintinnids have been recorded. Codonella aspera and Undella claparedei were found in all stations, but in the Jabuka pit samples they were the only species present. Amphorella tetragona, Amplectella tricollaria, Codonellopsis orthoceras, Codonaria cistellula were found only in the Strait of Otranto and Parundella aculeata, Xystonella lohmanni, Albatrossiella agassizi and Ormosella trachelium in the South Adriatic trench.

Vertical distribution indicates three populations of tintinnids. Codonella aspera, Epiplocylis acuminata, Rhabdonella spiralis, Xystonella lohmanni X. treforti, Undella hyalina, U. biangulata and Eutintinnus fraknoi are dominant in surface layer. Parundella lohmanni and Undella claparedei are most numerous in 400 - 200 m layers. Parundella messinensis, P. aculeata, Xystonellopsis scyphium, X. aciculifera, Amphorella tetragona, Albatrossiella agassizi and Ormosella trachelium have been found only in the deeper layers (table 1). During the summer cruise of "Thor" expedition in the West Mediterranean Sea, Jörgensen (1924) found and described these five species of tintinnids from the deeps, mentioned here, which have been up to now the only findings of these species. Now, for the first time, they are mentioned also for the Adriatic Sea. It is the first time that Albatrossiella agassizzi has been found in the Mediterranean Sea.

## References:

Jörgensen, E. (1924): Mediterranean Tintinnidae. Rep. Danish Oce. Exp. 1908 - 1910 in the Mediterranean and adjacent seas, 2,3, 1 - 110 pp.

Table 1. Vertical distribution of tintinnids at three stations in open waters of the A

Depth (n Spec <b>i</b> es	0	TIAST 500-1000050-100 500-100 500-100 500-100 500-100 500-100 500-100 500-1000050-100 500-100 500-100 500-100 500-100 500-1000050-1000050-1000	300-200	400-300 QIK	500-400 OLUV	800-500	100-08	200-100 HT	ADRIA 300-2008	400-300 OIL	TRE 200-400	N C H 2005–0511	35- 0
Codonella aspera	8	67	63	16	9	5	100	33	5	<del></del> 5	3	2	24
" amphorella	O	25	15	29	6	8	100	00	13	2	. 1	1	21
Codonaria cistellula		40	10		O	O			10	_	1	T	
Codonellopsis orthoceras	8	10											
Epiplocylis acuminata	50	30	5	8			315						
Rhabdonella spiralis	33	10	6	4	8	2	170						
Parundella lohmanni		20	84	110	17	9	8	76	440	15	1	6	
" aculeata		_ ~	0 =						.4	10	_	J	-
" messinensis			15	12	18	2			4	4	2	1	
Xystonella lohmanni				-			110	10	5	$\overline{4}$	1	1	
" treforti		25	12	13	17		180	67	30			_	
Xystonellopsis scyphium			15	40	17	8					1	11	
" aciculifera				12	5	6			•			3	
Undella hyalina	25	8	12	4	3	1	67						
" claparedei	20	126	55	25	40	29	50	550	949	100	28	26	
" biangulata				4			16						
" subcaudata acuta		20	21	12					3	2	2	1	
Amplectella tricollaria			+										
Undellopsis marsupialis		34	12	3	8	2	8	8	4	2	2	1	
Amphorella tetragona				4	15								
Albatrossiella agassizi												1	
Ormosella trachelium												2	
Eutintinnus fraknoi	50	<u> </u>					25						
Total numbers	194	405	315	296	159	72	1049	744	1457	134	41.	56	24