

Cearreta and others. Appendix B 1/9)

Melides lagoon
Modern assemblages (June 2003)

living assemblage

	1	2	3	12	5	6	7	8	9	10	11
<i>Jadammina macrescens</i>											
<i>Spirorutilis wrightii</i>											
<i>Trochammina inflata</i>											
<i>Quinqueloculina seminula</i>											
<i>Triloculina bermudezi</i>											
<i>Ammonia tepida</i>			*	*	*	*	*	*	*		
<i>Asterigerinata mamilla</i>		*	*								
<i>Brizalina britannica</i>											
<i>Brizalina difformis</i>											
<i>Cassidulina obtusa</i>											
<i>Cibicides lobatulus</i>		*									
<i>Criboelphidium oceanensis</i>											
<i>Criboelphidium williamsoni</i>											
<i>Fissurina marginata</i>											
<i>Gavelinopsis praegeri</i>											
<i>Haynesina germanica</i>		*	*	*	*	*	*	*	*	*	*
<i>Planorbulina mediterraneensis</i>											
<i>Trifarina angulosa</i>											

dead assemblage

	1	2	3	12	5	6	7	8	9	10	11
							0.3				*
		*									
										*	
		*									
		*									
		*	11.0	*	26.2	37.5	19.7	*	*		
		*	0.6			0.3	0.7				
							0.3				
							0.3				
		*	1.3			0.6	2.3				
	*	*	1.6				1.3				
			0.3		0.3	4.1	4.3				
		*									
			0.3								
					0.3		1.0				
	*		84.6	*	73.3	57.4	67.1	*	*	*	*
	*		0.3				2.3				
							0.3				

Number of foraminifera studied	0	5	12	3	13	22	14	9	6	3	1	88
Tests/ 10 cm ³	0	5	12	3	13	22	14	9	6	3	1	
Species	0	3	3	2	2	2	2	2	2	1	1	4
Agglutinated%	-	-	-	-	-	-	-	-	-	-	-	
Porcellaneous%	-	-	-	-	-	-	-	-	-	-	-	
Hyaline%	-	-	-	-	-	-	-	-	-	-	-	
Allochthonous %	-	-	-	-	-	-	-	-	-	-	-	

5	46	311	7	408	317	304	10	10	25	34	1477
1	5	107	3	3522	1900	53	53	9	11	78	
1	10	8	2	4	5	12	2	2	2	2	18
-	-	0	-	0	0	0.3	-	-	-	-	
-	-	0	-	0	0	0	-	-	-	-	
-	-	100	-	100	100	100	-	-	-	-	
-	-	4.8	-	0.25	0.95	8.2	-	-	-	-	

* Indicates species presence in samples containing less than 100 tests.

MIGM borehole (Melides lagoon)

Sample	Depth (m)	<i>Miliolinella circularis</i>	<i>Miliolinella subrotunda</i>	<i>Quinqueloculina dimidiata</i>	<i>Quinqueloculina lata</i>	<i>Quinqueloculina oblonga</i>	<i>Quinqueloculina seminula</i>	<i>Ammonia tepida</i>	<i>Asterigerinata mamilla</i>	<i>Bolivina pseudoplicata</i>	<i>Brizalina britannica</i>	<i>Brizalina spathulata</i>	<i>Brizalina variabilis</i>	<i>Bulimina elongata</i>	<i>Bulimina gibba</i>	<i>Cassidulina obtusa</i>	<i>Cibicides lobatulus</i>	<i>Cibroelphidium excavatum</i>	<i>Cibroelphidium gerthi</i>	<i>Cibroelphidium oceanensis</i>	<i>Cibroelphidium williamsoni</i>	<i>Elphidium crispum</i>	<i>Elphidium macellum</i>	<i>Elphidium margaritaceum</i>	<i>Fissurina lucida</i>	<i>Gavelinopsis praegeri</i>	<i>Haynesina depressula</i>	<i>Haynesina germanica</i>	<i>Nonionella atlantica</i>	
1	+3.20																													
2	+2.90																													
3	+2.50																*													
4	+2.00																													
5	+1.85																													
6	+1.76																													
7	+1.62																													
8	+1.40																													
9	+0.99																													
10	+0.59																													
11	+0.09																										*			
12	-0.31																													
13	-0.71																													
14	-0.97																													
15	-1.31																													
16	-1.46																													
17	-1.58																													
18	-1.67							2.4																						97.6
19	-1.79							1.6																						98.4
20	-1.85							*										*												*
21	-2.45																													*
22	-2.65																													*
23	-2.95																													
24	-3.75																													*
25	-3.93																*									*				*
26	-3.97																													*
27	-4.05							*																						*
28	-7.61																													
29	-7.93																													
30	-8.03							*																						*

No. of foraminifera studied	Tests (10 cm ³)	Species	Agglutinated%	Porcellaneous%	Hyaline%	Allochthonous %
0	0	0	-	-	-	-
0	0	0	-	-	-	-
1	1	1	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
2	2	1	-	-	-	-
123	123	2	0	0	100	0
127	127	2	0	0	100	0
6	6	3	-	-	-	-
21	21	1	-	-	-	-
4	4	1	-	-	-	-
0	0	0	-	-	-	-
22	22	1	-	-	-	-
52	52	3	-	-	-	-
1	1	1	-	-	-	-
75	75	2	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
48	48	2	-	-	-	-

Cearreta and others. Appendix B (3/9)

31	-8.13							*								*		*		*			*	*	*	*				
31b	-8.19							*		*			*		*	*		*	*		*		*	*	*	*				
31c	-8.23							*	*									*			*		*	*	*	*				
32	-8.76						19.5											0.8							79.7					
33	-8.89						69.5							0.9	3.6			8.1	0.5	1.8	2.7		0.5	0.9	11.7					
34	-8.99																													
35	-9.09	0.7	2.0	0.7	2.6	3.6	1.3	32.4	17.4	0.3	4.6	1.3	1.0	0.7	2.0	0.3	0.7	0.7			2.0	3.3	1.6	1.3	0.3	1.3	9.5	8.2	0.3	
35b	-9.13							56.2	18.6	0.3	3.0				1.0	0.3					4.3	1.3	1.3	1.0			5.7	7.0		
35c	-9.19							69.9	9.2		2.4				0.5	0.5	1.0				5.8	2.9	1.5	0.5	0.5		0.5	4.4	0.5	
36	-9.29																												*	
36b	-10.09							*							*														*	
37	-10.29																													
37b	-11.04							*										*					*						*	
38	-11.19																													
39	-11.89				*			*	*																	*	*			
40	-12.11																													
41	-13.21							*	*		*				*	*					*	*		*	*	*	*	*	*	*
42	-13.41							*																			*	*	*	*
43	-13.72							*																		*	*	*	*	*
44	-14.88																													
45	-15.57																													
46	-15.8							*																		*	*	*	*	*
70	70	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	27	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	17	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
128	128	3	0	0	100	0.8																								
223	223	10	0	0	100	7.3																								
15	15	2	-	-	-	-																								
304	1431	26	0	10.9	89.2	50.6																								
301	1656	12	0	0	100	29.2																								
206	206	12	0	0	100	17.5																								
1	1	1	-	-	-	-																								
34	34	3	-	-	-	-																								
0	0	0	-	-	-	-																								
22	22	4	-	-	-	-																								
1	1	1	-	-	-	-																								
15	15	5	-	-	-	-																								
0	0	0	-	-	-	-																								
29	29	10	-	-	-	-																								
3	3	2	-	-	-	-																								
9	9	3	-	-	-	-																								
0	0	0	-	-	-	-																								
0	0	0	-	-	-	-																								
13	13	3	-	-	-	-																								
1900		28																												

* Indicates species presence in samples containing less than 100 tests.

Cearreta and others. Appendix B (5/9)

Sample	Depth (m)	<i>Cibicides lobatulus</i>	<i>Elphidium crispum</i>	<i>Criboelphidium excavatum</i>	<i>Criboelphidium gerthi</i>	<i>Elphidium macellum</i>	<i>Elphidium margaritaceum</i>	<i>Criboelphidium oceanensis</i>	<i>Criboelphidium williamsoni</i>	<i>Fissurina lucida</i>	<i>Fissurina marginata</i>	<i>Fissurina orbignyana</i>	<i>Florilus pauperatus</i>	<i>Gavelinopsis praegeri</i>	<i>Haynesina depressula</i>	<i>Haynesina germanica</i>	<i>Lagena sulcata</i>	<i>Lamarckina halioidea</i>	<i>Laryngosyigma lactea</i>	<i>Nonionella atlantica</i>	<i>Oolina williamsoni</i>	<i>Patellina corrugata</i>	<i>Planorbulina mediterraneensis</i>	<i>Rosalina anomala</i>	<i>Rosalina irregularis</i>	<i>Spirillina vivipara</i>	<i>Stainforthia fusiformis</i>	<i>Trifarina angulosa</i>	<i>Uvigerina peregrina</i>
1	+2.45			*																									
2	+1.95																												
3	+1.37																												
4	+0.87	*													*														
5	+0.36																												
6	+0.28																												
7	+0.05																												
8	-0.45																												
9	-0.77																												
10	-0.95															*													
11	-1.15														*														
12	-1.55	12.8	0.3	1.1	0.6	0.3	10.0				0.6		0.3		52.2											0.3			
13	-2.15	*	*									*	*		*														
14	-2.35																												
15	-2.85																												
16	-4.48												*																
17	-4.98													*															
18	-5.48																												
19	-5.98															*													
20	-6.48	*	*				*							*		*													
21	-6.98																												
22	-7.56	*		*																									
23	-8.06																												
24	-8.56			*																									
25	-10.07	*		*																									
26	-10.56		*																										
27	-11.34																												
28	-11.85																												
29	-12.24				*																								
30	-12.74																												

No. of foraminifera studied	Tests (10 cm3)	Species	Agglutinated%	Porcellaneous%	Hyaline%	Allocthonous %
7	7	6	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
16	16	4	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
1	1	1	-	-	-	-
76	76	2	-	-	-	-
358	358	20	0	0	100	24.2
45	45	8	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
1	1	1	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
25	25	10	-	-	-	-
0	0	0	-	-	-	-
10	10	4	-	-	-	-
0	0	0	-	-	-	-
2	2	2	-	-	-	-
2	2	2	-	-	-	-
3	3	2	-	-	-	-
0	0	0	-	-	-	-
1	1	1	-	-	-	-
2	2	2	-	-	-	-
0	0	0	-	-	-	-

Cearreta and others. Appendix B (7/9)

Sample	Depth (m)	<i>Cibicides lobatulus</i>	<i>Elphidium crispum</i>	<i>Criboelphidium excavatum</i>	<i>Criboelphidium gerthi</i>	<i>Elphidium macellum</i>	<i>Elphidium margaritaceum</i>	<i>Criboelphidium oceanensis</i>	<i>Criboelphidium williamsoni</i>	<i>Fissurina lucida</i>	<i>Fissurina marginata</i>	<i>Fissurina orbignyana</i>	<i>Florilus pauperatus</i>	<i>Gavelinopsis praegeri</i>	<i>Haynesina depressula</i>	<i>Haynesina germanica</i>	<i>Lagena sulcata</i>	<i>Lamarckina haloidea</i>	<i>Laryngosyigma lactea</i>	<i>Nonionella atlantica</i>	<i>Oolina williamsoni</i>	<i>Patellina corrugata</i>	<i>Planorbulina mediterranensis</i>	<i>Rosalina anomala</i>	<i>Rosalina irregularis</i>	<i>Spirillina vivipara</i>	<i>Stainforthia fusiformis</i>	<i>Trifarina angulosa</i>	<i>Uvigerina peregrina</i>		
31	-13.24																														
32	-14.06	17	3.3	24			0.8						0.8	0.8	1.6									2.4							
33	-14.34	18	5.5	18					0.5				1.6	0.3	5.5		0.5					0.3	2.5	3.9							
34	-14.84	6.7		12		0.6		0.3					7	2.4	4.3								1.8		3.1			0.9			
35	-15.75	3.6	2.1	13					0.3				4.8	3.6	5.4				1.2			2.1	0.3	2.1			1.5				
36	-15.97																														
37	-16.21	2.5		8.7			2.8	0.3		0.6			4.2	6.7	4.5							0.6			6.7	0.6					
7bis	-16.17	4.4			5.7	0.3	2.2	1.9	2.9	0.3			5.1	18	1.6									0.3							
8bis	-16.25	6.7			2.1	1.2	3.6	0.3	7.9	0.9			0.3	11	14	1.8								0.3			0.3				
9bis	-16.34	7.3			3		4.9		5.5	3	1.2	0.6	7.9	10	1.2																
38	-16.37	3		9.3			2.7	2	0.7	0.3	1	0.3	0.7	5.3	6									0.3	2.3		0.3	0.7	0.3		
10bis	-16.42	*					*	*			*		*		*	*	*														
39	-16.51																														
11bis	-16.54	*																													
12bis	-16.61																														
40	-16.85	0.6		5.3			4.0	0.6					1.2	13.3	3.4								0.3		6.2			0.6			
41	-17.05	0.6		19.9			11								14.4	5.4									2.9						
42	-17.24	2.9	0.6	17.0			3.5							2.6	3.5	4.5				1.0				0.3	5.8						
43	-17.35	2.8	1.5	16.7		1.8	1.8							2.5	6.8	4.9				0.3				0.9	3.4			0.6			
44	-18.2	1.0	0.3	2.3		0.3			1.0					9.7	2.6	8.1						0.3			2.3						
45	-18.48	1.7	1.3	4.3			0.7	1.3	0.7	0.3				1.7	2.0	4.3			0.3						1.3				0.3		
46	-18.56	0.9		6.8		0.3		5.0						0.3	0.9	5.6				0.3					1.2	0.3					
47	-18.61			1.2			0.6	6.8	0.3						1.2	10.8															
48	-18.8			0.4				15.4								3.1															
49	-19.18	3.6		14.7		0.6	3.9			0.3	0.3		4.6	3.9	4.6	0.3							1.3	0.6	7.8						
50	-19.31	0.8		6.8			0.8			0.3				0.5	3.5	9.8									1.6						
51	-19.53	0.3		0.6			0.6	26.5							1.8	15.1									0.3						
52	-19.98	1.8		5.1			3.0	1.5	0.9					0.3	8.1	6.3								0.3	6.3		0.3	0.3			
53	-20.14	2.5		13.3		1.5	1.5	0.3	0.3	0.6				1.9	3.7	11.4								0.6	4.0		0.3				
54	-20.24	2.8	0.8	15.0			0.5	0.3	0.5					1.7	8.9	5.6									2.5			0.3			
55	-20.45	3.2	3.2	12.0			2.3							3.5	8.5	3.8				0.3			0.3		5.3						
56	-20.55	2.1	1.8	8.5					0.3					1.5	7.0	4.9		0.3				0.6			3.6			0.3			
57	-20.79																														

No. of foraminifera studied	Tests (10 cm3)	Species	Agglutinated%	Porcellaneous%	Hyaline%	Exóticos %
0	0	0	-	-	-	-
122	122	19	1	9.0	89.8	53.0
363	434	28	1	2.5	96.9	61.6
326	950	22	0	5.5	94.1	55.2
336	336	25	0	3.3	96.6	54.1
1	1	1	-	-	-	-
356	15668	25	0	2.9	97.2	52.0
315	10902	19	0	0	100	77.4
328	1389	23	0	0.9	98.8	78.2
165	165	19	0	0	100	79.2
301	742	28	0	0	100	51.5
28	28	12	-	-	-	-
0	0	0	-	-	-	-
1	1	1	-	-	-	-
0	0	0	-	-	-	-
323	4673	26	0	5.8	95.1	61.3
312	2262	18	0	7.7	96.6	40.0
311	5366	25	0	15.8	84.1	36.9
324	1812	27	0	11.4	87.9	38.6
309	5853	23	0	0.6	99.3	50.1
300	980	32	0	8.6	91.2	24.0
321	809	22	0	5.9	93.5	10.7
324	716	14	0	0.6	99.2	10.4
286	286	4	0	0.0	100	0.0
307	3037	33	0	8.6	89.9	52.6
369	1365	22	0	1.4	98.4	27.1
332	1448	14	0	0.3	99.7	8.1
332	1292	27	0	4.5	95.3	43.8
323	1522	26	0	4.0	95.7	37.9
360	1088	28	0	3.3	96.4	47.3
341	2903	25	0	6.4	93.4	47.1
329	3284	24	0	2.4	97.4	51.8
1	1	1	-	-	-	-

Cearreta and others. Appendix B (9/9)

Sample	Depth (m)	<i>Cibicides lobatulus</i>	<i>Elphidium crispum</i>	<i>Criboelphidium excavatum</i>	<i>Criboelphidium gerthi</i>	<i>Elphidium macellum</i>	<i>Elphidium margaritaceum</i>	<i>Criboelphidium oceanensis</i>	<i>Criboelphidium williamsoni</i>	<i>Fissurina lucida</i>	<i>Fissurina marginata</i>	<i>Fissurina orbignyana</i>	<i>Florilus pauperatus</i>	<i>Gavelinopsis praegeri</i>	<i>Haynesina depressula</i>	<i>Haynesina germanica</i>	<i>Lagena sulcata</i>	<i>Lamarckina haloidea</i>	<i>Laryngosyngma lactea</i>	<i>Nonionella atlantica</i>	<i>Oolina williamsoni</i>	<i>Patellina corrugata</i>	<i>Planorbulina mediterraneensis</i>	<i>Rosalina anomala</i>	<i>Rosalina irregularis</i>	<i>Spirillina vivipara</i>	<i>Stainforthia fusiformis</i>	<i>Trifarina angulosa</i>	<i>Uvigerina peregriana</i>		
58	-21.74	5.9		9.2			4.6	0.7		0.7			0.7	1.3	10.5	4.6								0.7							
59	-22.24			*	*																										
60	-22.74			*	*		*								*																
61	-23.21																														
62	-23.53																														
63	-23.69																														
64	-23.76																														
65	-23.84																														
66	-24.2																														
67	-24.39																														
68	-24.54			*	*		*						*	*	*																
69	-24.66																														
70	-24.8																														
71	-25.43	1.3	0.7	22.5				0.7						3.3	4.6						0.7				1.3						
72	-25.63																														
73	-25.83																														
74	-26.63	1.3	1.7	14.3			0.3	0.3		0.7			0.7	6.3	9.0									3.0		0.3	0.3				
75	-27.13																						*								
76	-27.67																														
77	-28.48																														
78	-28.86																														
79	-28.96																														
80	-28.99																														
81	-29.06																														
82	-29.11																														
83	-30.39																														
84	-32.14																														
85	-33.64																														
86	-35.24																														
87	-36.74																														

No. of foraminifera studied	Tests (10 cm3)	Species	Agglutinated%	Porcellaneous%	Hyaline%	Allochthonous %
152	152	19	0	1.3	98.7	50.0
22	22	5	-	-	-	-
19	19	10	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
2	2	1	-	-	-	-
3	3	1	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
41	41	10	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
151	151	19	0	2.0	98.2	26.6
0	0	0	-	-	-	-
0	0	0	-	-	-	-
300	300	24	0	2.7	97.2	38.3
1	1	1	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
0	0	0	-	-	-	-
9386		63				

* Indicates species presence in samples containing less than 100 tests.