

61. OSTRACODES—LEG 34

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During preparation of foraminifera for another paper (Quilty, Planktonic Foraminifera, this volume), ostracodes were occasionally encountered and routinely separated. Fifty-seven samples yielded ostracodes, usually only one or two specimens but rarely up to 11.

It was hoped that a more detailed study could be made but time has prevented this. One author (D.R.W.) examined the specimens and identified them generically. Although time has made it impossible to carry the study further, it is considered worthwhile to present even this limited information because ostracodes from DSDP samples have received little attention. The faunas are generally sparse but well preserved and can be regarded as typical of the deep-water environment, each genus having been previously described from abyssal depths (Table 1).

Representatives of most forms are illustrated on the accompanying Plate 1 (photography by W.K. Copley of WAPET). *Krithe* is the dominant genus. This has been provisionally divided into three species, though with more detailed work further specific distinction may be warranted. Several good specimens of *Echinocythereis*, *Bairdia*, and *Hermanites* must be regarded as the "nearest generic fit" as the specimens show certain features slightly at variance with the generic diagnosis. The genus *Cytheropteron* is represented by a small number of specimens belonging to a few species. The identification of *Pterygocythereis* and *Macrocypris* must be regarded as provisional as they are based on a few juvenile specimens.

TABLE 1
Distribution of Ostracodes From DSDP Leg 34

HOLE	319																													
AGE	PLIOCENE		MIOCENE																											
CORE			Middle																										Early	
CORE	1	2	4		5				6		7		8		9		10		11											
SECTION , DEPTH	5,42-44	3,101-103	2,83-85	5,42-44	6,100-102	2,90-92	3,90-92	5,90-92	6,90-92	CC	4,14-16	5,127-129	CC	3,71-73	4,85-87	6,119-121	3,145-140	5,60-62	6,50-52	CC	1,118-120	2,56-58	3,48-50	CC	1,92-94	3,58-60	4,125-127	CC	1,122-124	
SPECIES																														
Echinocythereis sp.1	Rp	Lm	Lf							Ra				RLj												S				
Krithe sp.1		Rf	Rj	Lj	Rj		Rm	Rj	S			S	Rfj	S	Lj	ca	Ra?				Lf	LRa					S			cj
K. sp. 2			Rj	Rj		Lj	Rj		Rj				cj																	
Cytheropteron sp. 4									La																					
? Krithe sp.											jfr													cj						
Bairdia sp.																				La										
Hermanites sp																		cp								Lp	Rfr		La	
Cytheropteron sp.1																			Rf		Rj									
Krithe sp. indet.																							Lf		Rj					
Cytheropteron sp.2																													La	
?Pterygocythereis sp																												Rj		
? Echinocythereis sp.																														Ljfr
Ostracoda indet.														fr										Rj		Rj				
<div>LEGEND</div> <div><div><div>R</div><div>Right valve</div></div><div><div>L</div><div>Left valve</div></div><div><div>C</div><div>Carapace</div></div><div><div>f</div><div>female</div></div><div><div>m</div><div>male</div></div><div><div>a</div><div>adult (undiff.)</div></div><div><div>j</div><div>juvenile</div></div><div><div>s</div><div>several</div></div><div><div>p</div><div>penultimate instar</div></div><div><div>fr</div><div>fragment</div></div></div>																														

LEGEND

R	Right valve	C	Carapace	a	adult (undiff.)	p	penultimate instar
L	Left valve	f	female	j	juvenile	fr	fragment
		m	male	s	several		

TABLE 1 - Continued

HOLE	319										320										320 B											
AGE	Early MIOCENE										QUAT.	Early MIOCENE										Early MIOCENE	OLIGOCENE									
CORE	11					12					1	2	3					1	2													
SECTION, DEPTH SPECIES	2, 30-32	3, 50-52	4, 33-35	6, 66-68	CC	1, 124-126	2, 40-42	3, 100-102	CC	0 -	2, 51-53	1, 80-82	CC	1, 105-107	2, 27-29	3, 10-12	4, 6-8	5, 14-16	6, 131-133	CC	2, 5-7	CC	1, 54-56	2, 10-12	3, 50-52	4, 30-32	5, 35-37	CC				
Krithe sp. 3	ca																															
K. sp. 1		Lf	Rj		Lj										Rj				Rj	S	S		LRj				Ra	S	Rj	S		
K. sp. 2			Lmj		Rj	Lj			Ra						Rm	S	Ra		S	S	RLj	Lj					Ra			Rj		
Echinocythereis sp.1			S	Rm	Lj						S								Lj			LRj	Lj		LRf	Ra				RLj		
Hermanites sp.1			Rm									Rmj			Rj	Lp	Ra		La			Rj										
? Krithe sp.				fra																												
? Macrocypris sp.									Rj																					Ljfr		
? Echinocythereis sp.2										S																						
Krithe sp.													fr	fr					fr													
Cytheropteron sp. 3																La																
C. sp.																								Rcj	Lf?				Rj			
Bairdia sp.																									La?							
Ostracoda indet.						fr	fr					S			LRj	fr													jc			

PLATE 1

Representatives of most ostracode forms, Leg 34,
Deep Sea Drilling Project

- Figures 1, 2 *Krithe* sp. 1; 319-11-3, 50-52 cm.
1. $\times 50$.
- Figures 3, 4 *Krithe* sp. 1; female carapace; $\times 45$; 319-5-6, 90-92 cm.
- Figures 5, 6 *Krithe* sp. 2; 319-5-2, 90-92 cm.
5. $\times 80$.
6. $\times 100$.
- Figure 7 *Krithe* sp. 3; $\times 35$; 319-11-2, 30-32 cm.
- Figures 8, 9 *Bairdia* sp.; $\times 60$; 319-8, CC.
- Figures 10, 11 *Hermanites* sp.; $\times 40$; 319-8-5, 60-62 cm.
- Figure 12 *Echinocythereis* sp.; $\times 45$; 319-1-5, 42-44 cm.
- Figures 13, 14 *Pterygocythereis* sp.; 319-10-4, 125-127 cm.
13. $\times 60$.
14. $\times 70$.
- Figures 15, 16 ?*Macrocypris* sp.; 319-12, CC.
15. $\times 80$.
16. $\times 90$.
- Figures 17, 18 *Cytheropteron* sp. 1; 319-8-6, 50-52 cm.
17. $\times 35$.
18. $\times 50$.
- Figures 19, 20 *Cytheropteron* sp. 2; $\times 35$; 319-10, CC.
- Figure 21 *Cytheropteron* sp. 3; $\times 55$; 320-3-2, 27-29 cm.
- Figures 22, 23 *Cytheropteron* sp. 4; 319-5-6, 90-92 cm.
22. $\times 35$.
23. $\times 40$.

PLATE 1

