

XIII. AGE ASSIGNMENTS FOR SEDIMENT SAMPLES CORED AND DREDGED

*Itaru Koizumi**

The geological ages of sediments which were recovered by coring and dredging during the present cruises (see Figs. I-1, 2 and 3 and Table I-9, 10 and 11) were determined from their marine, planktonic diatoms.

All samples were treated with hydrogen peroxide and hydrochloric acid. Diatoms were not observed in the following 20 samples: P148CC, P149CC, P150CC, P151CC, P152CC, P153CC, RC48CC, RC50CC, RC51CC, RC55CC, D318-1, D318-2, D318-3, D324-1, D329-1, D329-5, D364, D368, D369-2, and D373.

All diatom species noted while traversing lines on the cover glass (18 mm × 18 mm in size) were identified and counted. The frequencies of each taxon thus obtained for each sample are shown in Fig. XIII-1. Judging from the occurrences

SPECIES	SAMPLES					
	P154CC	P155CC	P157CC	RC53CC	RC54CC	D361-3
<i>Actinocyclus ehrenbergii</i>			1			
<i>A. ingens</i>		1		1		
<i>Actinoptychus undulatus</i>		2	4	1		
<i>Asteromphalus flabellatus</i>		1				
<i>Coscinodiscus africanus</i>		1				
<i>C. marginatus</i>			1			2
<i>C. nodulifer</i>	24	2	17	6	3	1
<i>C. radiatus</i>	4	11	9	22	4	
<i>C. tabularis</i>	2	8	1	1		1
<i>Cyclotella striata</i>	1		2			
<i>Denticulopsis hustedtii</i>				1		
<i>D. kamtschatica</i>		1		2		
<i>D. lauta</i>				1		
<i>D. seminae</i>		3		2		
<i>Hemidiscus cuneiformis</i>		1	3	3	3	
<i>Melasira granulata</i>		2				
<i>M. sulcata</i>	1		3	2	2	
<i>Nitzschia marina</i>	5	14	7	10	1	1
<i>Pseudoeunotia doliolus</i>	1	2	2	2	1	1
<i>Rhabdonema archuata</i>			1			
<i>Rhizosolenia barboi</i>		1				
<i>R. bergonii</i>	1		4	2	1	
<i>R. hebetata</i>		1				
<i>Roperia tessellata</i>				1		
<i>Stephanopyxis turris</i>			14	4		
<i>Thalassionema nitzschioides</i>	9	10	25	28	3	1
<i>Thalassiosira eccentrica</i>	2	3	1	9		1
<i>T. leptopus</i>		2	3		1	1
<i>T. oestrupii</i>	1	6	4	2	1	
<i>Thalassiothrix longissima</i>	3	2	2			
No. Specimens Counted	54	74	104	100	20	9

Fig. XIII-1 Distribution of diatoms in six samples obtained during cruise GH79-4.

*Institute of Geological Science, College of General Education, Osaka University.

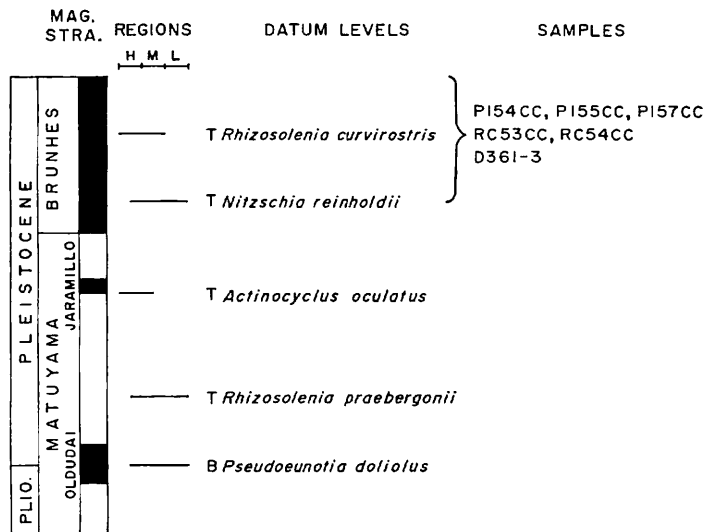


Fig. XIII-2 Ages of six samples obtained during cruise GH79-4.

of age-diagnostic species. based on datum levels for low latitude regions, the ages of six samples, P154CC, P155CC, P157CC, RC53CC, RC54CC, and D361-3, are assigned to the upper Pleistocene (0-0.55 Ma) as shown in Fig. XIII-2.