

Table T2. Diatom zonal assignments and datums applied to the Miocene, Hole 1138A.

Core, section, interval (cm)	Depth (mbsf)	Diatom zone	Lower datum		Upper datum		Time-rock unit
			Event	Age (Ma)	Event	Age (Ma)	
183-1138A-							
12R-3, 100–101	106.30	<i>Nitzschia reinholdii</i>	FO <i>Thalassiosira oliverana</i>	6.4	FO <i>Thalassiosira tetraoestrupii</i> group	5.7	upper Miocene
12R-CC, 23–28	107.03						
13R-1, 100–101	113.00						
13R-2, 100–101	114.50						
13R-3, 100–101	116.00						
13R-4, 100–101	117.50						
13R-CC, 19–24	118.59	<i>Actinocyclus ingens</i> var. <i>ovalis</i>	FO <i>Actinocyclus ingens</i> var. <i>ovalis</i>	8.7	FO <i>Thalassiosira oliverana</i>	6.4	
14R-1, 52–53	122.12						
14R-2, 50–51	123.60						
14R-3, 50–51	125.10						
15R-CC, 15–20	134.23	<i>Asteromphalus kennettii</i> / <i>Denticulopsis simonsenii</i>	LCO <i>Denticulopsis dimorpha</i>	10.7	FO <i>Thalassiosira torokina</i>	9.0	
16R-CC, 13–18	145.85						
17R-2, 50–51	152.50						
17R-4, 50–51	155.50						
17R-CC, 5–10	158.27						
18R-1, 50–51	160.60	<i>Denticulopsis dimorpha</i>	LO <i>Nitzschia denticuloides</i>	11.75	LCO <i>Denticulopsis dimorpha</i>	10.7	middle Miocene
18R-2, 50–51	162.10						
18R-3, 50–51	163.60						
18R-4, 50–51	165.10						
18R-5, 50–51	166.60						
18R-6, 50–51	168.10						
18R-CC, 0–7	168.84						
19R-1, 50–51	170.20	<i>Denticulopsis praedimorpha</i> – <i>Nitzschia denticuloides</i>	FO <i>Denticulopsis dimorpha</i>	12.2	LO <i>Nitzschia denticuloides</i>	11.75	
19R-2, 50–51	171.70						
19R-3, 50–51	173.20						
19R-CC, 15–20	174.75	<i>Denticulopsis praedimorpha</i>	FO <i>Denticulopsis praedimorpha</i>	12.8	FO <i>Denticulopsis dimorpha</i>	12.2	
20R-2, 50–51	181.30	<i>Nitzschia denticuloides</i>	FO <i>Nitzschia denticuloides</i>	13.5	FO <i>Denticulopsis praedimorpha</i>	12.8	
20R-4, 50–51	184.30	<i>Actinocyclus ingens</i> var. <i>nodus</i>	FO <i>Actinocyclus ingens</i> var. <i>nodus</i>	14.5	FO <i>Denticulopsis simonsenii</i>	14.2	
20R-CC, 12–17	186.14						
21R-CC, 15–20	191.26						
22R-CC, 0–5	201.60	<i>Nitzschia grossepunctata</i> / <i>Actinocyclus ingens</i> – <i>Denticulopsis maccollumii</i>	FCO <i>Actinocyclus ingens</i>	16.2	FO <i>Actinocyclus ingens</i> var. <i>nodus</i>	14.5	
23R-CC	210.85	<i>Denticulopsis maccollumii</i>	FO <i>Denticulopsis maccollumii</i>	16.7	FCO <i>Actinocyclus ingens</i>	16.2	lower Miocene
24R-CC, 11–16	221.34	<i>Crucidenticula kanayae</i> / <i>Thalassiosira praeфрага</i> “c”	LO <i>Thalassiosira praeфрага</i>	18.3	FO <i>Denticulopsis maccollumii</i>	16.7	
25R-CC, 12–17	230.02	<i>Thalassiosira praeфрага</i> “a–b”	FO <i>Thalassiosira praeфрага</i>	20.8	LO <i>Thalassiosira praeфрага</i>	18.3	
26R-CC, 0–5	239.85						
27R-CC, 0–5	248.71	<i>Thalassiosira spumellaroides</i>	LO <i>Rocella gelida</i>	22.3	FO <i>Thalassiosira praeфрага</i>	20.8	
28R-CC, 0–10	261.81						
29R-CC, 8–13	269.41						
30R-CC, 14–19	278.21	<i>Rocella gelida</i> “c”	LO <i>Lisitzinia ornata</i> (absent)	24.3	LO <i>Rocella gelida</i>	22.3	
31R-CC, 0–10	285.85	Not zoned					
32R-CC, 14–19	296.30						
34R-CC	319.23						
35R-CC, 12–17	330.78						
36R-CC, 0–5	340.60						

Notes: Ages are compiled from the sources listed in Table T5, p. 48, and are revised to the Berggren et al. (1995) timescale. LO = last occurrence, FO = first occurrence, FCO = first common occurrence, LCO = last common occurrence.