

Notes: Zonal markers are highlighted, and zones and ages are provided at left. Relative abundance is designated as follows: A = abundant, C = common, F = few, R = rare, and VR = very rare. rw = reworked specimens. Epoch boundaries placed following Berggren et al. (1995), except for Paleocene/Eocene Boundary, which was placed at the base of the PETM. See text for discussion. Dark line between Eocene and Oligocene refers to position of an unconformity.

Hole, core, section, interval (cm)	Age	Zone	Discoasteraceae									Fasciculithaceae/Heliolithaceae								Prinsiaceae																																
			<i>Discoaster araneus</i>	<i>Discoaster barbadiensis</i>	<i>Discoaster bifax</i>	<i>Discoasteroides bramlettei</i>	<i>Discoaster deflandrei</i>	<i>Discoaster diastypus</i>	<i>Discoaster kuepperi</i>	<i>Discoaster lenticularis</i>	<i>Discoaster lodoensis</i>	<i>Discoaster mohleri</i>	<i>Discoaster multiradiatus</i>	<i>Discoaster nobilis</i>	<i>Discoaster nodifer</i>	<i>Discoaster okadaï</i>	<i>Discoaster saipanensis</i>	<i>Discoaster salisburyensis</i>	<i>Discoaster strictus</i>	<i>Discoaster sublodoensis</i>	<i>Discoaster taniï</i>	<i>Discoaster sp.</i>	<i>Fasciculithus involutus</i>	<i>Fasciculithus janiï</i>	<i>Fasciculithus lilianae</i>	<i>Fasciculithus magnicordis</i>	<i>Fasciculithus magnus</i>	<i>Fasciculithus mitreus</i>	<i>Fasciculithus pileatus</i>	<i>Fasciculithus schaubii</i>	<i>Fasciculithus stonehengai</i>	<i>Fasciculithus tonii</i>	<i>Fasciculithus tympaniformis</i>	<i>Fasciculithus ullii</i>	<i>Prefasciculithus</i>	<i>Heliolithus kleinpelii</i>	<i>Bornolithus elegans</i>	<i>Biscutum sp.</i>	<i>Cyclicargolithus floridanus</i>	<i>Dictyococcites bisectus</i>	<i>Dictyococcites scrippsae</i>	<i>Neobiscutum sp.</i>	<i>Prinsius africanus</i>	<i>Prinsius bisulcus</i>	<i>Prinsius dimorphosus</i>	<i>Prinsius martinii</i>	<i>Prinsius petalosus</i>	<i>Prinsius tenuiculum</i>	<i>Reticulofenestra dictyota</i>	<i>Reticulofenestra hilliae</i>	<i>Reticulofenestra reticulata</i>	<i>Reticulofenestra umbilica</i>
1209A-13H-4, 45–46 1209A-13H-5, 45–46 1209C-3H-2, 30–31 1209C-3H-3, 30–31 1209C-3H-4, 30–31 1209C-3H-5, 30–31 1209C-3H-6, 30–31	early Oligocene	CP16c			R				R					R						R	F	F											A	A	C							A	R	R								
1209C-3H-2, 30–31 1209C-3H-3, 30–31 1209C-3H-4, 30–31 1209C-3H-5, 30–31 1209C-3H-6, 30–31		CP16b			R					R		rw			R					R	F	F											C	A	C						A	R	R									
1209C-3H-2, 30–31 1209C-3H-3, 30–31 1209C-3H-4, 30–31 1209C-3H-5, 30–31 1209C-3H-6, 30–31					R					R					R					R	F	F											C	C	R						A	R	R									
1209C-3H-2, 30–31 1209C-3H-3, 30–31 1209C-3H-4, 30–31 1209C-3H-5, 30–31 1209C-3H-6, 30–31					R					R					R					R	F	F											C	C	F						A	R	R									
1209C-3H-2, 30–31 1209C-3H-3, 30–31 1209C-3H-4, 30–31 1209C-3H-5, 30–31 1209C-3H-6, 30–31					R					R					R					R	F	F											F	C	R						A	R	R									
1209C-3H-2, 30–31 1209C-3H-3, 30–31 1209C-3H-4, 30–31 1209C-3H-5, 30–31 1209C-3H-6, 30–31					R					R					R					R	F	F											F	C	R						A	R	R									
1209A-14H-4, 30–31 1209A-14H-5, 30–31 1209A-14H-6, 30–31 1209A-4H-3, 43–44 1209B-15H-1, 144–145 1209B-15H-2, 107–108 1209B-15H-3, 107–108 1209B-15H-4, 110–111 1209B-15H-5, 110–111 1209B-15H-6, 20–21 1209A-15H-6, 45–46 1209B-16H-1, 0–5 1209B-16H-2, 50–51 1209B-16H-3, 50–51 1209A-16H-1, 45–46 1209A-16H-2, 45–46 1209A-16H-3, 45–46 1209A-16H-4, 45–46 1209A-16H-5, 45–46 1209A-16H-6, 45–46 1209A-16H-7, 45–46 1209C-6H-3, 100–102 1209C-6H-4, 100–102 1209C-6H-6, 0–2 1209C-6H-6, 100–102 1209A-17H-1, 45–46 1209A-17H-2, 45–46 1209A-17H-3, 45–46 1209A-17H-4, 50–51 1209A-17H-5, 50–51 1209A-17H-6, 50–51	middle Eocene	CP14b	R		R				R				R				R		R	F											F	F	A								C	F	R	F								
1209A-14H-4, 30–31 1209A-14H-5, 30–31 1209A-14H-6, 30–31 1209A-4H-3, 43–44 1209B-15H-1, 144–145 1209B-15H-2, 107–108 1209B-15H-3, 107–108 1209B-15H-4, 110–111 1209B-15H-5, 110–111 1209B-15H-6, 20–21 1209A-15H-6, 45–46 1209B-16H-1, 0–5 1209B-16H-2, 50–51 1209B-16H-3, 50–51 1209A-16H-1, 45–46 1209A-16H-2, 45–46 1209A-16H-3, 45–46 1209A-16H-4, 45–46 1209A-16H-5, 45–46 1209A-16H-6, 45–46 1209A-16H-7, 45–46 1209C-6H-3, 100–102 1209C-6H-4, 100–102 1209C-6H-6, 0–2 1209C-6H-6, 100–102 1209A-17H-1, 45–46 1209A-17H-2, 45–46 1209A-17H-3, 45–46 1209A-17H-4, 50–51 1209A-17H-5, 50–51 1209A-17H-																																																				

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Table T1 (continued).

Hole, core, section, interval (cm)	Age	Zone	Coccolithaceae																				Helico- sphaera- ceae										
			<i>Calcidiscus protoannula</i> <i>Calcidiscus simplex</i>	<i>Coccolithus crassus</i>	<i>Coccolithus pelagicus</i> <i>Coronocylus niticens</i>	<i>Cyclagelosphaera alta</i> <i>Ericsonia cava</i>	<i>Ericsonia formosa</i> <i>Ericsonia robusta</i>	<i>Ericsonia</i> cf. <i>E. robusta</i>	<i>Hayella situliformis</i>	<i>Ericsonia subdisticha</i>	<i>Ericsonia subpertusa</i> <i>Ericsonia</i> sp.	<i>Ericsonia obruta</i>	<i>Markalius inversus</i> <i>Markalius nudus</i>	<i>Pedinocyclus larvalis</i> <i>Pedinocyclus prelarvalis</i>	<i>Bramletteius serraculoides</i>	<i>Campylosphaera dela</i> <i>Campylosphaera eodela</i>	<i>Chiasmolithus altus</i> <i>Chiasmolithus bidens</i>	<i>Chiasmolithus californicus</i>	<i>Chiasmolithus consuetus</i>	<i>Chiasmolithus danicus</i>	<i>Chiasmolithus eograndis</i> <i>Chiasmolithus expansus</i>	<i>Chiasmolithus gigas</i>	<i>Chiasmolithus grandis</i>	<i>Chiasmolithus medius</i> <i>Chiasmolithus nitidus</i>	<i>Chiasmolithus oamaruensis</i> <i>Chiasmolithus solitus</i>	<i>Cruciplacolithus asymmetricus</i> <i>Cruciplacolithus cribellum</i>	<i>Cruciplacolithus edwardsii</i> <i>Cruciplacolithus frequens</i>	<i>Cruciplacolithus latipons</i> <i>Cruciplacolithus primus</i>	<i>Cruciplacolithus tenuis</i>	<i>Cruciplacolithus vanheckii</i>	<i>Helicosphaera lophota</i> <i>Helicosphaera</i>		
1209A-22H-5, 46–47 1209C-12H-2, 50–52 1209C-12H-3, 50–52 1209C-12H-4, 50–52 1209C-12H-5, 50–52 1209C-12H-6, 50–52 1209A-23H-3, 45–46 1209A-23H-4, 45–46 1209A-23H-5, 45–46 1209A-23H-6, 45–46 1209C-13H-2, 110 1209C-13H-3, 100–102 1209C-13H-4, 100–102 1209C-13H-5, 100–102 1209C-13H-6, 100–102 1209C-13H-7, 0–2 1209A-24H-5, 45–46 1209A-24H-6, 45–46 1209A-24H-7, 45–46 1209C-14H-3, 115–116 1209C-14H-4, 100–102 1209C-14H-5, 100–102 1209C-14H-6, 100–102 1209C-14H-7, 0–2 1209A-25H-3, 110–111 1209A-25H-4, 110–111 1209A-25H-5, 110–111 1209A-25H-6, 100–101 1209C-15H-3, 80–81	late Paleocene	CP6/CP7		R		A		R	C		R				R	R																	
					R		A		R	C			R					R	R														
					R		C			F			R					R	R														
					R		C		A	R								R	R														
		CP5		R		C		C	F								R	R															
				R		C		C	F								R	R															
				R	R	C		C	F		R						R	R															
				R	R	C		C	F		R						R	R															
				R	R	C		C	F		C						R	R		R	R												
				R	R	A		A	F		R						R	R		R	R												
	early Paleocene	CP4			R		A			R						R	R		R	R													
					R		A			F							R	R		R	R												
					R	R	C		A			F					R	R		R	R												
					R	R	A		A			F					R	R		R	R												
		CP3		R		C		A		R							R	R		R	R												
						A		A		C							R	R		R	R												
						R		A		C							R	R		R	R												
						R		A		C							R	R		R	R												
						R		A		C							R	R		R	R												
						R		A		C							R	R		R	R												
		CP2			R		A		F							R	R		R	R													
							R		F							R	R		R	R													
							R		F							R	R		R	R													
		CP1b					R		F							R	R		R	R													
							R		F							R	R		R	R													
		CP1a					R			VR						R	R		R	R													

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