

Table T3. Age-depth data, Site 1171. (See table notes. Continued on next seven pages.)

Source	Hole	Event	Age (Ma)	Alternate age (Ma)	Core, section, interval (cm)		Depth (mbsf)			Depth error (m)
					Top	Bottom	Top	Bottom	Mean	
L*	1171A		0.0003		189-	189-			0.000	
L*			0.0023						0.050	
L*			0.0043						0.100	
L*			0.0062						0.150	
L*			0.0086						0.210	
L*			0.0101						0.250	
L*			0.0118						0.300	
L*			0.0135						0.350	
L*			0.0152						0.400	
L*			0.0163						0.450	
L*			0.0181						0.500	
N		FO <i>Emiliana huxleyi</i> acme	0.085		1171A-1H-1, 15-16	1171A-1H-1, 90-91	0.155	0.905	0.530	0.375
L*			0.0198						0.550	
L*			0.0215						0.600	
L*			0.026						0.650	
L*			0.0296						0.690	
L*			0.0363						0.750	
L*			0.0406						0.800	
L*			0.0447						0.850	
L*			0.0487						0.900	
L*			0.0527						0.950	
L*			0.0572						1.000	
L*			0.0619						1.050	
L*			0.0672						1.100	
L*			0.0728						1.150	
L*			0.078						1.200	
L*			0.0818						1.250	
L*			0.0855						1.300	
L*			0.0894						1.350	
L*			0.0934						1.400	
L*			0.1011						1.500	
L*			0.1037						1.550	
L*			0.1054						1.600	
L*			0.1144						1.650	
L*			0.1264						1.700	
L*			0.1293						1.750	
L*			0.1323						1.800	
L*			0.1351						1.850	
L*			0.1379						1.900	
L*			0.1406						1.950	
L*			0.1433						2.000	
L*			0.1466						2.050	
L*			0.1526						2.100	
L*			0.1594						2.150	
L*			0.1647						2.200	

Table T3 (continued).

Source	Hole	Event	Age (Ma)	Alternate age (Ma)	Core, section, interval (cm)		Depth (mbsf)			Depth error (m)
					Top	Bottom	Top	Bottom	Mean	
					189-	189-				
L*			0.1677						2.250	
L*			0.1697						2.300	
L*			0.1705						2.350	
L*			0.1715						2.400	
L*			0.1758						2.450	
L*			0.1802						2.500	
L*			0.1832						2.550	
L*			0.1865						2.600	
L*			0.1898						2.650	
L*			0.1926						2.700	
N		FO <i>Emiliana huxleyi</i>	0.24		1171A-1H-2, 90-91	1171A-1H-3, 15-16	2.405	3.155	2.780	0.375
L*			0.1955						2.750	
L*			0.206						2.800	
L*			0.2157						2.850	
L*			0.2254						2.900	
L*			0.2316						2.950	
L*			0.2364						3.000	
L*			0.239						3.050	
L*			0.2417						3.100	
L*			0.2451						3.150	
L*			0.2516						3.200	
L*			0.2567						3.250	
L*			0.2601						3.300	
L*			0.2633						3.350	
L*			0.2661						3.400	
L*			0.2687						3.450	
L*			0.2713						3.500	
L*			0.2764						3.550	
L*			0.2804						3.600	
L*			0.2843						3.650	
L*			0.2882						3.700	
L*			0.2911						3.750	
L*			0.2935						3.800	
L*			0.2961						3.850	
L*			0.2987						3.900	
L*			0.3013						3.950	
L*			0.3039						4.000	
L*			0.3053						4.050	
L*			0.3068						4.100	
L*			0.3083						4.150	
L*			0.3097						4.200	
L*			0.3107						4.250	
L*			0.3114						4.300	
L*			0.312						4.350	
L*			0.3126						4.400	
L*			0.3139						4.500	
L*			0.3145						4.550	
L*			0.316						4.600	

Table T3 (continued).

Source	Hole	Event	Age (Ma)	Alternate age (Ma)	Core, section, interval (cm)		Depth (mbsf)			Depth error (m)
					Top	Bottom	Top	Bottom	Mean	
					189-	189-				
L*			0.3176						4.650	
L*			0.3192						4.700	
L*			0.3206						4.750	
L*			0.3214						4.800	
L*			0.3222						4.850	
L*			0.323						4.900	
L*			0.3238						4.950	
L*			0.3247						5.000	
L*			0.3255						5.050	
L*			0.3264						5.100	
L*			0.3272						5.150	
L*			0.3283						5.200	
L*			0.3301						5.250	
L*			0.3318						5.300	
L*			0.3342						5.350	
L*			0.3367						5.400	
L*			0.3396						5.450	
L*			0.344						5.500	
L*			0.3484						5.550	
F	T 1171B; B 1171A	FO <i>Globorotalia truncatulinoides</i>	XXX	2.0	1171B-1H-CC	1171A-1H-CC	4.190	7.005	5.598	1.408
L*			0.3575						5.600	
L*			0.3613						5.650	
L*			0.3649						5.700	
L*			0.368						5.750	
L*			0.3725						5.800	
L*			0.3792						5.850	
L*			0.3844						5.900	
L*			0.3871						5.950	
L*			0.3882						6.000	
L*			0.3894						6.050	
L*			0.3906						6.100	
L*			0.3922						6.150	
L*			0.3957						6.200	
L*			0.3967						6.250	
L*			0.3977						6.300	
L*			0.3987						6.350	
L*			0.3998						6.400	
L*			0.4008						6.450	
L*			0.4035						6.500	
L*			0.4066						6.550	
L*			0.4093						6.600	
L*			0.4141						6.650	
L*			0.4175						6.700	
L*			0.4184						6.750	
L*			0.4192						6.800	
L*			0.4201						6.850	
L*			0.4212						6.900	
L*			0.422						6.940	

Table T3 (continued).

Source	Hole	Event	Age (Ma)	Alternate age (Ma)	Core, section, interval (cm)		Depth (mbsf)			Depth error (m)
					Top	Bottom	Top	Bottom	Mean	
N		LO <i>Pseudoemiliana lacunosa</i>	0.42		189- 1171A-1H-5, 90-91	189- 1171A-1H-CC	6.905	7.005	6.955	0.050
L*			0.423						6.990	
L*			0.4252						7.100	
L*			0.4262						7.150	
L*			0.4271						7.200	
L*			0.4281						7.250	
L*			0.4305						7.300	
L*			0.4411						7.350	
L*			0.4435						7.400	
L*			0.4555						7.450	
L*			0.4643						7.500	
L*			0.4715						7.550	
L*			0.4774						7.600	
L*			0.4827						7.650	
L*			0.4881						7.700	
L*			0.4902						7.750	
L*			0.4924						7.800	
L*			0.4945						7.850	
L*			0.4967						7.900	
L*			0.4988						7.950	
L*			0.501						8.000	
L*			0.5035						8.050	
L*			0.5077						8.100	
L*			0.5118						8.150	
L*			0.5154						8.200	
L*			0.5189						8.250	
L*			0.5223						8.300	
L*			0.5253						8.350	
L*			0.5284						8.400	
L*			0.5315						8.450	
L*			0.5345						8.500	
L*			0.5384						8.600	
L*			0.5395						8.650	
L*			0.5421						8.700	
L*			0.5451						8.750	
L*			0.548						8.800	
L*			0.5521						8.850	
L*			0.5562						8.900	
L*			0.5607						8.950	
L*			0.5663						9.000	
L*			0.5723						9.050	
L*			0.5784						9.100	
L*			0.5844						9.150	
L*			0.5915						9.200	
L*			0.5938						9.250	
L*			0.5963						9.300	
L*			0.5989						9.350	
L*			0.6015						9.400	

Table T3 (continued).

Source	Hole	Event	Age (Ma)	Alternate age (Ma)	Core, section, interval (cm)		Depth (mbsf)			Depth error (m)
					Top	Bottom	Top	Bottom	Mean	
					189-	189-				
L*			0.6034						9.450	
L*			0.6049						9.500	
L*			0.6063						9.550	
L*			0.6087						9.600	
L*			0.6115						9.650	
L*			0.614						9.700	
L*			0.6163						9.750	
L*			0.6186						9.800	
L*			0.6209						9.850	
L*			0.6233						9.900	
L*			0.6256						9.950	
L*			0.628						10.000	
L*			0.6309						10.050	
Dm		LO <i>Actinocyclus ingens</i>	0.64		1171A-1H-CC	1171A-2H-CC	7.005	16.045	11.525	4.520
Dm		LO <i>Fragilariopsis reinholdii</i>	0.65		1171A-1H-CC	1171A-2H-CC	7.005	16.045	11.525	4.520
Dm		LO <i>Thalassiosira fasciculata</i>	0.7		1171A-1H-CC	1171A-2H-CC	7.005	16.045	11.525	4.520
M	1171C	Onset C1n	0.78						12.600	
N	1171A	LO <i>Reticulofenestra asanoi</i>	0.83		1171A-2H-4, 90-91	1171A-2H-5, 15-16	12.505	13.255	12.880	0.375
M	1171C	Termination C1r.1n	0.99						14.900	
M		Onset C1r.1n	1.07						16.500	
N	1171A	FO <i>Reticulofenestra asanoi</i>	1.16		1171A-2H-4, 90-91	1171A-3H-1, 90-91	16.100	17.505	16.803	0.703
N		LO <i>Helicosphaera sellii</i>	1.26		1171A-3H-3, 90-91	1171A-3H-4, 15-16	20.500	21.250	20.875	0.375
Dm		LO <i>Fragilariopsis barronii</i>	1.4		Top LO <i>H. sellii/C. macintyreii</i>	Base LO <i>H. sellii/C. macintyreii</i>	22.755	23.505	23.130	0.375
Dm		LO <i>Thalassiosira tetraoestrupii</i> var. <i>reimeri</i>	1.5		Top LO <i>H. sellii/C. macintyreii</i>	Base LO <i>H. sellii/C. macintyreii</i>	22.755	23.505	23.130	0.375
N		LO <i>Calcidiscus macintyreii</i>	1.59		1171A-3H-5, 15-16	1171A-3H-5, 90-91	22.755	23.505	23.130	0.375
Pliocene/Pleistocene boundary 1.77 Ma										
M	1171C	Termination C2n	1.77						24.000	
Dm	1171A	LO <i>Proboscia barboi</i>	1.8		Termination C2n	3H-CC	24.000	24.700	24.350	0.350
M	1171C	Onset C2n	1.95						26.000	
R	T 1171A; B 1171C	LO <i>Pseudocubus vema</i>	2.4		1171A-3H-CC	1171C-3H-CC	24.700	28.500	26.600	1.900
Dm	1171A	LO <i>Thalassiosira complicata</i>	2.5		1171A-3H-CC	1171C-3H-CC	24.700	35.705	30.203	5.503
Dm		LO <i>Thalassiosira inura</i>	2.5		1171A-3H-CC	1171C-3H-CC	24.700	35.705	30.203	5.503
M	1171C	Termination C2An.1n	2.581						31.750	
Dm	1171A	LO <i>Thalassiosira insigna</i>	2.63		Termination C2An.1n	Onset C2An.1n	31.750	34.500	33.125	1.375
Dm		LO <i>Fragilariopsis weaveri</i>	2.65		Termination C2An.1n	Onset C2An.1n	31.750	34.500	33.125	1.375
M	1171C	Onset C2An.1n	3.04						34.500	
M		Termination C2An.2n	3.11						35.600	
F	T 1171C; B 1171A	FO <i>Globorotalia inflata</i>	3.2		Termination C2An.2n	1171A-4H-CC	35.600	35.705	35.653	0.052
R	T 1171A; B 1171C	FO <i>Pseudocubus vema</i>	XXX	4.5	1171A-4H-CC	1171C-4H-CC	35.705	37.755	36.730	1.025
M	1171C	Onset C2An.2n	3.22						36.800	
M		Onset C2An.3n	3.58						40.400	
lower/upper Pliocene boundary 3.58 Ma										
M		Termination C3n.1n	XXX	4.18					42.700	
N	1171A	LO <i>Reticulofenestra pseudoumbilica</i>	3.65		1171A-5H-6, 15	1171A-5H-7, 15	43.255	44.755	44.005	0.750

Table T3 (continued).

Source	Hole	Event	Age (Ma)	Alternate age (Ma)	Core, section, interval (cm)		Depth (mbsf)			Depth error (m)
					Top	Bottom	Top	Bottom	Mean	
M	1171C	Onset C3n.1n	XXX	4.29	189-	189-			44.300	
M		Termination C3n.2n	4.462						46.500	
M		Onset C3n.2n	4.48						47.000	
M		Termination C3n.3n	4.8						47.600	
M		Onset C3n.3n	4.89						48.500	
M		Termination C3n.4n	4.98						50.600	
M		Onset C3n.4n	5.23						52.400	
N	1171A	LO <i>Triquetrorhabdulus rugosus</i>	5.23		1171A-6H-7, 15	1171A-7H-1, 15	54.255	54.755	54.505	0.250
Miocene/Pliocene boundary 5.3 Ma										
F	1171B	LO <i>Paragloborotalia continuosa</i>	XXX	8.0	1171A-6H-CC	1171A-7H-CC	52.000	60.690	56.345	4.345
Dm	1171A	FO <i>Fragilariopsis weaveri</i>	XXX	3.4	1171A-6H-CC	1171A-7H-CC	55.110	64.100	59.605	4.495
R		FO <i>Amphymenium challengerae</i>	XXX	6.6	1171A-6H-CC	1171A-7H-CC	55.110	64.100	59.605	4.495
M	1171C	Termination C3An.1n	5.894						62.300	
R	1171A	LO <i>Amphymenium challengerae</i>	6.137		Onset C3An.1n (6H-CC)	C3An.1n (7H-CC)	55.110	64.100	63.600	4.495
M	1171C	Onset C3An.1n	6.137						63.600	
M		Termination C3An.2n	6.269						65.500	
Dm		LO <i>Actinocyclus ingens</i> var. <i>ovalis</i>	6.269		Termination C3An.2n (6H-CC)	Termination C3An.2n (7H-CC)	57.380	67.040	65.500	4.830
N	1171A	<i>Reticulofenestra pseudumbilica</i> paracme top	7.1		1171A-8H-2, 15-16	1171A-8H-3, 15-16	65.25	65.89	65.89	0.320
N		FO <i>Amaurolithus primus</i>	7.4		1171A-8H-2, 15-16	1171A-8H-3, 15-16	65.25	65.89	65.89	0.320
N		LO <i>Minylitha convallis</i>	7.8		1171A-8H-2, 15-16	1171A-8H-3, 15-16	65.25	65.89	65.89	0.320
F	T 1171B; B 1171A	LO <i>Paragloborotalia nympha</i>	XXX	10.1	1171B-8H-CC	1171A-8H-CC	70.705	73.005	71.855	1.150
N	1171A	<i>Reticulofenestra pseudumbilica</i> paracme bottom	8.78		1171B-9H-2, 15-16	1171A-9H-3, 15-16	75.25	76.75	76.75	0.750
Dm		FO <i>Fragilariopsis reinholdii</i>	8.1		1171B-8H-CC	1171A-9H-CC	73.005	82.330	77.668	4.663
Dm		FO <i>Actinocyclus ingens</i> var. <i>ovalis</i>	8.68		1171B-8H-CC	1171A-9H-CC	73.005	82.330	77.668	4.663
M	1171C	Termination C5n.1n	9.74						80.000	
M		Onset C5n.1n	9.88						82.500	
M		Termination C5n.2n	9.92						83.500	
F	T 1171C; B 1171B	LO <i>Paragloborotalia mayeri</i>	XXX	11.4	1171C-10H-CC	1171B-11H-CC	94.370	97.890	96.130	1.760
Dm	1171A	LO <i>Denticulopsis dimorpha</i>	10.7		1171C-10H-CC	1171B-11H-CC	92.615	102.450	97.533	4.918
R	T 1171C; B 1171B	LAO <i>Cyrtocapsella japonica</i>	XXX	11.6	1171C-11H-CC	1171B-12H-CC	104.160	109.040	106.600	2.440
M	1171C	Onset C5n.2n	10.949						107.750	
M		Termination C5r.1n	11.052						109.500	
M		Onset C5r.1n	11.099						113.000	
Dm	1171A	FO <i>Actinocyclus fryxellae</i>	XXX	11.05	1171C-13X-CC	1171B-14X-CC	113.585	120.480	117.033	3.448
middle/upper Miocene boundary 11.2 Ma										
M	1171C	Termination C5r.2n	11.476						123.000	
Dm		LO <i>Denticulopsis praedimorpha</i>	11.53		Termination C5r.2n	1171B-14X-CC	123.000	123.450	123.225	0.225
Dm		LO <i>Nitzschia denticuloides</i>	11.7		Termination C5r.2n	1171B-14X-CC	123.000	123.450	123.225	0.225
M		Termination C5An.1n	11.935						129.750	
M		Onset C5An.1n	12.078						130.600	
M		Termination C5An.2n	12.184						133.400	
M		Onset C5An.2n	12.401						134.500	
R		LAO <i>Cyrtocapsella tetrapera</i>	12.71		Top 1171C-15X-CC	Base 1171B-15X-CC	134.320	134.500	134.410	0.090

Table T3 (continued).

Source	Hole	Event	Age (Ma)	Alternate age (Ma)	Core, section, interval (cm)		Depth (mbsf)			Depth error (m)
					Top	Bottom	Top	Bottom	Mean	
					189-	189-				
Dm		FO <i>Proboscia barboi</i>	12.71		Top 1171C-15X-CC	Base 1171B-15X-CC	134.320	134.500	134.410	0.090
Dm		LO <i>Actinocyclus ingens</i> var. <i>nodus</i>	12.71		Top 1171C-15X-CC	Base 1171B-15X-CC	134.320	134.500	134.410	0.090
N		LO <i>Cyclicargolithus floridanus</i>	11.9		1171C-16X-2, 150-16	1171B-16X-3, 15-16	136.155	137.655	136.905	0.750
F		FO <i>Paragloborotalia mayeri</i>	XXX	12.1	1171C-16X-CC	1171B-17X-CC	139.600	150.150	144.875	5.275
N		LO <i>Calcidiscus premacintyreii</i>	12.7		1171C-17X-1, 15-16	1171B-17X-2, 15-16	144.26	145.76	145.005	0.750
R		LO <i>Lychnocanoma conica</i>	13.5		1171C-17X-CC	1171B-18X-CC	150.150	162.875	156.513	6.363
M		Termination C5ACn	13.703						156.000	
M		Onset C5ACn	14.076						159.350	
N		LCO <i>Cyclicargolithus floridanus</i>	13.200		1171C-18X-5, 15-16	1171B-18X-6, 15-16	159.86	161.36	160.605	0.750
M		Termination C5ADn	14.178						161.300	
M		Onset C5ADn	14.612						167.200	
R		FO <i>Lychnocanoma nipponica</i> s. str.	XXX	15.7	1171C-19X-CC	1171B-20X-CC	172.725	181.055	176.890	4.165
F		FO <i>Orbulina suturalis</i>	15.1		1171C-20X-CC	1171B-21X-CC	181.055	190.045	185.550	4.495
Dm		FO <i>Actinocyclus ingens</i> var. <i>nodus</i>	XXX	14.38	1171C-21X-CC	1171B-22X-CC	190.045	198.875	194.460	4.415
F		FO <i>Praeorbulina curva</i>	16.3		1171C-21X-CC	1171B-22X-CC	190.045	198.875	194.460	4.415
lower/middle Miocene boundary 16.4 Ma										
N	1171C	FO <i>Calcidiscus premacintyreii</i>	17.4		1171C-22X-4, 15-16	1171B-22X-5, 15-16	196.455	197.955	197.205	0.750
Dm		LO <i>Cavitatus jouseanus</i>	XXX	14.612	1171C-22X-CC	1171B-23X-CC	198.875	210.055	204.465	5.590
R		LO <i>Cenosphaera coronata</i>	XXX	16.7	1171C-22X-CC	1171B-23X-CC	198.875	210.055	204.465	5.590
R		FO <i>Eucyrtidium cienkowskii</i> gr.	XXX	16.7	1171C-22X-CC	1171B-23X-CC	198.875	210.055	204.465	5.590
F		FO <i>Globigerinoides trilobus</i>	18.8		1171C-22X-CC	1171B-23X-CC	198.875	210.055	204.465	5.590
M		Termination C6n	19.048						207.200	
F		FO <i>Globoturborotalita connecta</i>	XXX	20.9	1171C-23X-CC	Base 171B-24X-CC	210.055	220.700	215.378	5.322
M		Onset C6n	20.131						223.500	
Dm		LO <i>Rocella gelida</i>	22.46		1171C-25X-CC	1171B-26X-CC	228.410	237.515	232.963	4.552
F		FO <i>Globoturborotalita woodi</i>	22.6	21.80	1171C-25X-CC	1171B-26X-CC	228.410	237.515	232.963	4.552
R		FO <i>Cyrtocapsella tetrapera</i>	XXX	23.6	1171C-25X-CC	1171B-26X-CC	228.410	237.515	232.963	4.552
F		FO <i>Globoquadrina dehiscens</i>	23.2		1171C-27X-CC	1171B-28X-CC	247.175	253.670	250.423	3.247
R		FO <i>Cenosphaera coronataformis</i>	24.4		1171C-27X-CC	1171B-28X-CC	247.175	253.670	250.423	3.247
Oligocene/Miocene boundary 23.8 Ma										
N	1171C	LO <i>Reticulofenestra bisecta</i> s. str.	23.9		1171C-28X-4, 15-16	1171B-28X-CC	253.16	253.67	253.413	0.257
F		LO <i>Chiloguembelina cubensis</i>	XXX	28.5	1171C-28X-CC	1171B-29X-CC	253.670	264.680	259.175	5.505
Dm		LO <i>Rocella vigilans</i> var. B	25.0		1171C-29X-4, 10-12	1171B-30X-1, 10-12	263.110	268.210	265.660	2.550
lower/upper Oligocene boundary 28.5 Ma										
Dm	1171C	FO <i>Rocella gelida</i>	25.823		1171C-29X-CC	1171B-30X-1, 10-13	264.680	268.210	266.445	1.765
M		Onset C6Cn.3n	XXX	24.118					268.000	
F		LO <i>Subbotina angiporoides</i>	XXX	30.0	1171C-29X-CC	1171B-30X-CC	264.680	272.740	268.710	4.030
N	1171D	LO <i>Chiasmolithus altus</i>	26.1		1171C-3R-3, 2-3	1171B-3R-3, 20-21	273.225	273.405	273.315	0.090
D		FAO <i>Brigantedinium?</i> sp.	XXX	35.2	1171C-3R-3, 105-107	1171B-3R-4, 13-15	274.260	274.500	274.380	0.120
D	1171C	LO <i>Enneadocysta</i> sp. A	33.3		Top 1171C-31X-CC	Base 1171B-31X-CC	274.150	274.800	274.475	0.325
Dm	1171D	FO <i>Rocella vigilans</i> var. B	28.0		1171C-3R-2, 10-12	1171B-4R-1, 10-12	271.810	279.910	275.860	4.050
Dm		FO <i>Rocella vigilans</i> var. A	30.24		1171C-3R-2, 10-12	1171B-4R-1, 10-12	271.810	279.910	275.860	4.050
Dm		FO <i>Cavitatus jouseanus</i>	30.62		1171C-3R-2, 10-12	1171B-4R-1, 10-12	271.810	279.910	275.860	4.050
Dm		LO <i>Hemiaulus characteristicus</i>	33.5		1171C-3R-2, 10-12	1171B-4R-1, 10-12	271.810	279.910	275.860	4.050

Table T3 (continued).

Source	Hole	Event	Age (Ma)	Alternate age (Ma)	Core, section, interval (cm)		Depth (mbsf)			Depth error (m)
					Top	Bottom	Top	Bottom	Mean	
Dm		LO <i>Distephanosira architecturalis</i>	33.5		189-1171C-3R-2, 10–12	189-1171B-4R-1, 10–12	271.810	279.910	275.860	4.050
N		FO <i>Cyclicargolithus abisectus</i>	XXX	31.1	1171C-3R-3, 20–21	1171B-3R-CC	273.405	279.800	276.603	3.197
N		LO <i>Reticulofenestra umbilicus</i>	31.3		1171C-3R-3, 20–21	1171B-3R-CC	276.340	277.915	277.128	0.787
Eocene/Oligocene boundary 33.7 Ma										
N	1171D	LO <i>Reticulofenestra oamaruensis</i>	33.7		Base 1171C-31X-CC (3R-3, 20–21)	1171B-3R-CC	278.400	279.800	279.100	0.700
D		LAO <i>Spinidinium</i> spp.	XXX	36	1171C-4R-1, 105–107	1171B-4R-2, 5–7	280.860	281.360	281.110	0.250
D		FO <i>Deflandrea</i> sp. A	35.2		1171C-4R-2, 5–7	1171B-4R-2, 55–57	281.360	281.800	281.580	0.220
D		FCO <i>Alterbidinium distinctum</i>	36.0		1171C-4R-CC	1171B-5R-CC	284.140	291.110	287.625	3.485
N		FO <i>Reticulofenestra oamaruensis</i>	35.8		1171C-4R-CC	1171B-5R-CC	284.140	291.110	287.625	3.485
N		LO <i>Reticulofenestra reticulata</i>	35.9		1171C-4R-CC	1171B-5R-CC	284.140	291.110	287.625	3.485
N		FO <i>Isthmolithus recurvus</i>	36.0		1171C-4R-CC	1171B-5R-CC	284.140	291.110	287.625	3.485
D		FO <i>Stoveracysta ornata</i>	36.4		1171C-5R-CC	1171B-6R-CC	291.110	298.850	294.980	3.870
N		LO <i>Chiasmolithus solitus</i>	XXX	38.2	1171C-6R-CC	1171B-7R-1, 25–26	298.850	304.255	301.553	2.702
N		FO <i>Reticulofenestra reticulata</i>	XXX	41.2	1171C-6R-CC	1171B-7R-1, 25–26	298.850	304.255	301.553	2.702
M		Termination C17n.1n	36.618						301.600	
D		LO <i>Arachnodinium antarcticum</i>	XXX	38.9	1171C-6R-CC	1171B-7R-CC	298.850	305.850	302.350	3.500
M		Onset C17n.1n	37.473						323.600	
D		LAO <i>Enneadocysta partridgei</i>	XXX	37.0	1171C-15R-CC	1171B-17R-CC	377.875	401.855	389.865	11.990
N		FO <i>Reticulofenestra umbilicus</i>	42.0		1171C-19R-1, 59–60	1171B-19R-3, 59–60	414.995	417.995	416.495	1.500
D		FAO <i>Vozzhennikovia</i> spp.	XXX	50.24	1171C-25R-CC	1171B-27R-CC	480.435	501.040	490.738	10.303
M		Onset C21n	47.906						574.600	
D		FAO <i>Enneadocysta partridgei</i>	48.5		Base C21n	1171B-35R-CC	574.600	577.450	576.025	1.425
D		LO <i>Membranophoridium perforatum</i>	48.5		Base C21n	1171B-35R-CC	574.600	577.450	576.025	1.425
D		LO <i>Hystrichokolpoma spinosa</i>	XXX	38.9	1171C-35R-CC	1171B-40R-CC	577.450	626.230	601.840	24.390
lower/middle Eocene boundary 49 Ma										
M	1171D	Termination C22n	49.037						633.600	
D		LO <i>Charlesdowniea edwardsii</i>	XXX	50.24	1171C-40R-CC	1171B-44R-CC	626.230	664.250	645.240	19.010
N		LO <i>Discoaster kupperi</i>	XXX	48.4	1171C-44R-CC	1171B-45R-CC	664.250	669.405	666.828	2.578
M		Onset C22n	49.714						683.600	
D		FO <i>Charlesdowniea edwardsii</i>	XXX	52.1	1171C-44R-CC	1171B-50R-CC	664.250	721.990	693.120	28.870
D		FO <i>Enneadocysta</i> sp. A	50.73		1171C-50R-CC	1171B-56R-CC	721.990	774.940	748.465	26.475
M		Onset C23n.2n	51.743						773.600	
D		FO <i>Membranophoridium perforatum</i>	52.5		Base C23n.2n	1171B-56R-CC	773.600	774.940	774.270	0.670
D		LO <i>Dracodinium waipawaense</i>	XXX	52.1	1171C-60R-CC	1171B-70R-CC	818.175	911.610	864.893	46.718
D		FO <i>Hystrichokolpoma spinosa</i>	XXX	52.5	1171C-70R-CC	1171B-71R-CC	911.610	922.575	917.093	5.483
D		FO <i>Dracodinium waipawaense</i>	52.8		1171C-70R-CC	1171B-71R-CC	911.610	922.575	917.093	5.483
M		Termination C24n	52.364						933.600	
D		FO <i>Deflandrea phosphoritica</i> complex	54.0		1171C-73R-CC	1171B-75R-CC	943.135	958.450	950.793	7.658

Notes: D = dinocyst, Dm = diatom, F = planktonic foraminifer, L* = reflectivity, M = magnetostratigraphic event, N = nannofossil, R = radiolarian. FO = first occurrence, LO = last occurrence, LAO = last abundant occurrence, LCO = last common occurrence. MIS = marine isotope stage. T = top, B = base. Top sample = last downhole occurrence of marker (FO); next sample up in case of LO. Bottom sample = first downhole occurrence of marker (LO); next sample down in case of FO. Error = half depth of top–bottom sample range. Tables are arranged by depth (mbsf). The primary age model comprises the most robust data available. XXX = alternate data provided. Alternative datums remain less robust until further work can resolve them. We include these data in the tables to highlight problem areas. See text for datum references.