DATA RESPOSITORY ITEM

Methods

Varve analysis

Varves were observed to occur almost continuously in the core between ~26-39 m depth, and intermittently at higher levels, where their preservation seems to be preferentially associated with organic matter-rich and rainforest pollen-rich zones. Patterns in the distribution of aquatic taxa indicates that these rainforest-rich zones reflect intervals of increased lake water depth, implying that varve preservation required anoxic bottom conditions which occurred only during intervals with sufficiently deep water (possibly >>10 m in small lakes such as SCB (Larsen et al.,1998)) to ensure monomixis. As the lake progressively infilled, these intervals became less regular, but perfect varve preservation observed near the top of the sequence, at 32 cm depth, indicates that the lake basin retained substantial accommodation space even near the termination of the record. Non-varved intervals are presumed to reflect bioturbation during episodes of shallower lake level. Sedimentation rates are unlikely to have varied much beyond the range observed through varve analyses, because both organic matter/rainforest pollen-rich and –poor samples were analysed, varying only within a relatively narrow range. Additionally, the monotonously fine textured silt-clays suggest little alteration in sedimentological regimes between the extremes of each climate/vegetation cycle.

Fission track dating. Zircons in the 60-250 µm size range were separated using standard magnetic and heavy liquid techniques. Grains were mounted in FEP teflon, polished and etched in an eutectic KOH-NaOH melt at 225°C for ~125 hours. Fission track ages were measured using the external detector method. Muscovite detectors were etched for 20 minutes in 48%HF at room temperature. Thermal neutron fluences were monitored using muscovites attached to Corning CN1 standard glasses. Fission tracks were counted in transmitted light using a dry 100x objective at a total magnification of 1600x. Only grains with sharp polishing scratches were counted. Ages and errors were calculated using the standard fission track age equation using the zeta calibration method. A personal zeta calibration factor of 125.5±3 (for POS) was determined empirically using zircon age standards with independently known ages.

Paleomagnetism. One hundred and twenty samples were taken from split cores by pushing 6 cm^3 standard plastic paleomagnetic boxes into the soft sediment. All samples were measured on the ScT 2-axis cryogenic magnetometer at ANU Paleomagnetic Laboratory, Canberra. NRM intensities were weak (generally < 2 mA/m) owing to the high organic content of the sediment. Magnetic susceptibilities were also weak (range 2-20 x 10-5 SI). Stepwise alternating field demagnetisation (peak field 100 mT) was undertaken using a Schonstedt tumbling a.f. demagnetiser. Characteristic Remanent Magnetisations were determined by Principal Components Analysis (PCA). Only

inclination values were used for polarity assignment because the sediment cores were not azimuthally oriented. Approximately 25% of samples did not yield reliable inclination values (scattered directions; PCA inclination <10 degrees), but on the basis of the remaining samples, a reversal occurs at a core depth of ~25-28 m which is consistent with the upper boundary of the Olduvai subchron.

Larsen, C.P.S., Pienitz, R., Smol, J.P., Moser, K.A., Cumming, B.F., Blais, J.M., Macdonald, G.M., and Hall, R.I., 1998, Relations between lake morphometry and the presence of laminated lake sediments: a re-examination of Larsen and Macdonald (1993): Quaternary Science Reviews, v. 17, p. 711-717.

FIGURE DR1. LOCALITY DIAGRAM OF THE STONY CREEK BASIN PALEOLAKE IN VICTORIA, AUSTRALIA

FIGURE DR2. SAMPLE DEPTH VS. VARVE THICKNESS

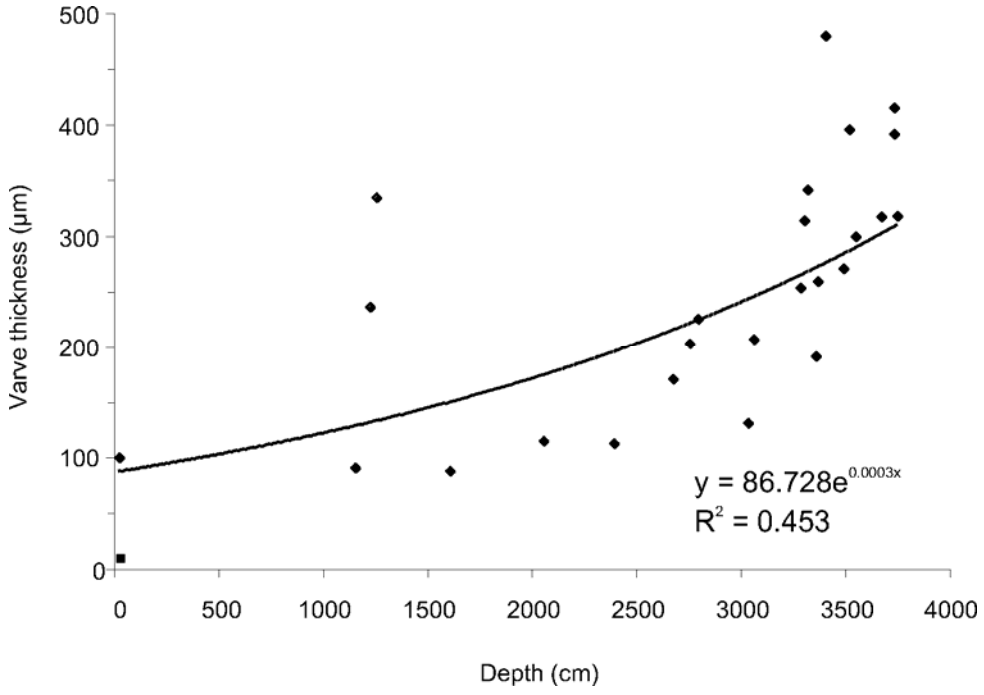

TABLE DR1. STRATIGRAPHIC DISTRIBUTION OF COUNTED VARVED SAMPLES

depth (cm)	number of varves counted	mean varve thickness (μm)
32	114	99.3
1160	171	89.7
1230	41	235.9
1262	39	334.3
1615	31	87.2
2060	102	114.1
2400	71	111.6
2680	48	169.9
2760	67	202.2
2802	11	224.6
3040	32	130.2
3066	67	206.3
3290	114	252.8
3310	51	313.3
3325	66	341.2
3365	48	190.5
3375	183	258.9
3410	40	478.6
3498	81	270.0
3524	28	394.3
3554	29	299.1
3678	52	317.0
3738	39	390.4
3740	33	414.2
3754	95	317.4
	∑=1653	

TABLE DR2. STONY CREEK BASIN FLOATING CHRONOLOGY

Depth (cm)	Age (floating kyr)	Depth (cm)	Age (floating kyr)	Depth (cm)	Age (floating kyr)	Depth (cm)	Age (floating kyr)	Depth (cm)	Age (floating kyr)
9	0.00	850	85.50	1703	152.74	2475	200.38	3246	238.15
32	2.52	869	87.17	1722	153.99	2494	201.39	3262	238.89
51	4.77	888	88.83	1739	155.26	2510	202.35	3281	239.67
69	6.89	906	90.57	1760	156.61	2530	203.37	3299	240.45
89	9.51	930	92.71	1780	157.98	2549	204.38	3317	241.20
124	12.80	962	94.99	1800	159.33	2566	205.36	3333	241.92
152	15.88	979	96.78	1820	160.67	2586	206.38	3351	242.66
172	18.42	996	98.24	1840	162.00	2606	207.41	3369	243.42
196.5	20.86	1013	99.75	1860	163.33	2624	208.39	3387	244.14
217	23.20	1033	101.38	1880	164.64	2642	209.33	3402	244.83
238	25.37	1053	103.07	1900	165.94	2660	210.17	3420	245.54
256	27.32	1073	104.75	1919	167.20	2671	210.95	3438	246.29
272	29.11	1093	106.41	1939	168.46	2691	211.87	3456	246.98
289	30.88	1113	108.07	1958	169.67	2711	212.89	3470	247.64
306	32.81	1133	109.70	1975	170.80	2731	213.91	3488	248.34
328	34.93	1152	111.33	1993	171.90	2751	214.93	3507	249.09
348	37.04	1174	113.02	2009	172.94	2771	215.93	3526	249.82
367	39.09	1194	114.72	2025	174.00	2791	216.93	3541	250.48
388	41.22	1216	116.44	2044	175.16	2811	217.93	3558	251.08
410	43.40	1238	118.18	2064	176.39	2831	218.92	3570	251.67
430	45.50	1259	119.84	2084	177.53	2851	219.90	3588	252.34
451	47.55	1279	121.44	2098	178.58	2871	220.86	3608	253.02
470	49.51	1299	123.01	2118	179.71	2889	221.71	3620	253.65
489	51.48	1319	124.56	2138	180.93	2903	222.50	3640	254.32
511	53.56	1339	126.11	2158	182.13	2923	223.39	3658	255.00
532	55.64	1359	127.65	2177	183.25	2943	224.35	3672	255.63
552	57.62	1379	129.22	2194	184.42	2963	225.28	3692	256.32
572	59.54	1401	130.85	2219	185.67	2981	226.18	3710	257.09
591	61.38	1423	132.51	2236	186.75	3001	227.09	3735	257.89
609	63.09	1445	134.16	2250	187.69	3021	228.02	3752	258.61
625	64.68	1467	135.76	2269	188.73	3040	228.92	3770	259.25
641	66.34	1487	137.30	2288	189.72	3060	229.84	3785	259.90
663	68.24	1508	138.81	2299	190.60	3081	230.68	3807	260.62
683	70.17	1528	140.29	2319	191.63	3092	231.36	3826	261.32
703	71.95	1548	141.71	2339	192.77	3108	232.03	3842	261.91
719	73.61	1566	143.06	2359	193.81	3124	232.75	3856	262.45
738	75.27	1585	144.41	2372	194.72	3140	233.47	3872	263.07
756	77.02	1604	145.79	2390	195.67	3156	234.21	3894	263.75
777	78.86	1624	147.19	2408	196.68	3174	235.02	3910	264.60
797	80.63	1644	148.60	2426	197.57	3194	235.85	3951	265.32
814	82.26	1664	150.02	2436	198.36	3211	236.64		
832	83.86	1685	151.42	2455	199.30	3229	237.41		

Note: Chronology based on an exponential function ($y = 86.728\ e^{0.0003x}$), predicting varve thickness from depth, based on the statistically significant relationship between depth and varve thickness observed on varved samples (Pearson's $r = 0.619$, $p = 0.001$, $n = 25$). 0-kyr is fixed at 9 cm depth. Estimated sedimentation rates for each depth have been applied to the interval within which each sample is centred.

TABLE DR3. SCB TUNED CHRONOLOGY

Depth (cm)	Age (ka)	Depth (cm)	Age (ka)	Depth (cm)	Age (ka)	Depth (cm)	Age (ka)	Depth (cm)	Age (ka)
9	1554.74	850	1634.83	1703	1698.00	2475	1755.11	3246	1803.09
32	**1557.00**	869	1636.42	1722	1699.17	2494	1756.33	3262	1804.05
51	1558.98	888	1637.96	1739	1700.39	2510	1757.58	3281	1805.07
69	1561.00	906	1639.69	1760	1701.71	2530	1758.92	3299	1806.06
89	1563.91	930	1642.00	1780	1702.98	2549	1760.15	3317	1806.98
124	1567.21	962	1643.99	1800	1704.25	2566	1761.41	3333	1807.90
152	1569.70	979	1645.37	1820	1705.51	2586	1762.77	3351	1808.87
172	1571.99	996	1646.74	1840	1706.76	2606	1764.05	3369	1809.83
196.5	1574.30	1013	1648.22	**1860**	**1708.00**	2624	1765.25	3387	1810.71
217	1576.41	1033	1649.81	1880	1709.67	2642	1766.45	3402	1811.59
238	1578.38	1053	1651.40	1900	1711.30	2660	1767.41	3420	1812.54
256	1580.09	1073	1652.97	1919	1712.91	2671	1768.44	3438	1813.48
272	1581.74	1093	1654.54	1939	1714.51	2691	1769.75	3456	1814.31
289	1583.44	1113	1656.09	1958	1715.98	2711	1771.05	3470	1815.15
306	1585.37	1133	1657.60	1975	1717.41	2731	1772.35	3488	1816.10
328	1587.44	1152	1659.18	1993	1718.78	2751	1773.64	3507	1817.08
348	1589.35	1174	1660.78	2009	1720.07	2771	1774.92	3526	1817.95
367	1591.29	1194	1662.38	2025	1721.47	2791	1776.19	3541	1818.76
388	1593.37	1216	1664.04	2044	1723.03	2811	1777.46	3558	1819.49
410	1595.39	1238	1665.65	2064	1724.61	2831	1778.72	3570	1820.25
430	1597.35	1259	1667.17	2084	1725.95	2851	1779.97	3588	1821.20
451	1599.24	1279	1668.65	2098	1727.28	2871	1781.15	**3608**	**1822.00**
470	1601.04	1299	1670.12	2118	1728.84	2889	1782.14	3620	1822.62
489	1602.96	1319	1671.59	2138	1730.39	2903	1783.19	3640	1823.36
511	1604.96	1339	1673.04	2158	1731.89	2923	1784.41	3658	1823.97
532	1606.86	1359	1674.49	2177	1733.27	2943	1785.63	3672	1824.62
552	1608.70	1379	1676.00	2194	1734.87	2963	1786.78	3692	1825.35
572	1610.49	1401	1677.56	2219	1736.46	2981	1787.92	3710	1826.16
591	1612.17	1423	1679.12	2236	1737.62	3001	1789.12	3735	1826.95
609	1613.71	1445	1680.67	2250	1738.86	3021	1790.27	3752	1827.61
625	1615.15	1467	1682.14	2269	1740.28	3040	1791.43	3770	1828.22
641	1616.85	1487	1683.57	2288	1741.39	3060	1792.63	3785	1828.91
663	1618.72	1508	1684.99	2299	1742.53	3081	1793.57	3807	1829.66
683	1620.49	1528	1686.36	2319	1744.00	3092	1794.35	3826	1830.30
703	1622.08	1548	1687.66	2339	1745.46	3108	1795.28	3842	1830.85
719	1623.61	1566	1688.91	2359	1746.65	3124	1796.20	3856	1831.39
738	1625.22	1585	1690.20	2372	1747.77	3140	1797.12	3872	1832.08
756	1626.91	1604	1691.50	2390	1749.07	3156	1798.09	3894	1832.76
777	1628.67	1624	1692.84	2408	1750.35	3174	1799.17	3910	1833.78
797	1630.26	1644	1694.17	2426	1751.35	3194	1800.21	3951	1834.50
814	1631.74	1664	1695.52	*2436*	1752.37	3211	1801.19		
832	1633.27	1685	1696.80	*2455*	1753.75	3229	1802.17		

Note: Exponential function chronology placed within the geological timescale by reference to the upper Olduvai Subchron boundary, then tuned to Jan 1 Insolation at 38°S with three tuning points shown in bold.

TABLE DR4. POLLEN COUNTS

Depth (cm)	Podo	Arauc	RFA	Tree ferns	Winter	*Poma*	*Euc*	Casua	*Callit*	Poa	Aster	*Plant*
9	192	1	9	11	2	0	0	181	0	16	1	0
32	188	0	19	13	5	0	0	184	0	6	3	1
51	172	1	16	20	8	0	0	206	0	14	4	0
69	55	2	6	16	25	0	0	258	0	35	8	0
89	21	0	4	2	26	0	0	313	0	48	4	5
124	9	0	4	3	17	1	0	307	6	37	4	4
152	11	1	1	0	0	0	0	273	0	42	8	4
172	7	0	1	0	5	0	1	254	3	66	4	1
196.5	16	0	3	3	6	0	9	266	19	43	6	1
217	35	0	7	10	14	0	25	210	21	45	10	8
238	35	3	20	18	13	0	110	144	17	40	13	3
256	28	1	17	14	3	1	156	168	15	26	6	6
272	42	2	9	10	8	1	137	173	42	44	9	3
289	36	3	11	7	0	2	146	104	49	49	5	2
306	20	0	5	1	4	3	70	140	79	113	3	4
328	8	1	8	3	5	1	128	55	54	40	3	1
348	17	2	4	1	6	1	40	174	92	8	8	6
367	20	3	2	5	0	1	22	49	305	6	3	0
388	226	1	38	24	1	3	16	36	24	5	2	1
410	140	0	113	23	1	0	30	40	23	2	1	1
430	89	1	111	36	0	1	19	59	33	1	3	1
451	17	0	2	1	10	4	26	164	97	22	10	0
470	13	1	5	8	1	1	66	95	91	15	3	0
489	16	0	10	18	0	0	111	77	84	14	2	3
511	17	2	10	47	2	1	128	64	47	10	3	3
532	14	1	9	1	1	1	133	54	67	6	2	0
552	5	0	3	3	4	2	64	62	86	9	4	0
572	3	1	0	1	1	0	25	159	148	22	3	1
591	19	1	7	3	0	4	27	145	167	23	3	0
609	16	0	3	1	2	1	56	51	246	8	2	1
625	204	0	27	14	2	0	49	42	16	5	2	0
641	239	0	43	21	1	1	42	41	20	2	2	2
663	121	1	106	44	0	0	36	85	41	1	5	1
683	50	0	41	25	3	1	61	48	69	6	7	1
703	14	0	2	1	17	4	28	141	85	15	12	2
719	3	0	0	1	16	0	22	168	92	17	12	0
738	5	0	1	3	21	0	12	176	110	18	4	4
756	10	0	5	0	9	0	16	240	65	21	6	1
777	10	0	0	1	11	0	26	178	155	13	4	0
797	9	0	8	4	11	1	65	183	108	11	7	2
814	19	3	8	3	4	2	84	140	187	10	1	1
832	18	3	14	5	2	1	47	110	134	10	0	1

TABLE DR4 (CONTINUED). POLLEN COUNTS

Depth (cm)	Podo	Arauc	RFA	Tree ferns	Winter	*Poma*	*Euc*	Casua	*Callit*	Poa	Aster	*Plant*
850	123	3	16	16	13	2	90	108	95	24	1	4
869	81	0	23	37	22	0	80	96	54	10	2	1
888	221	2	92	56	13	1	84	78	48	4	2	0
906	82	3	90	39	4	2	93	102	61	5	5	2
930	57	2	116	24	2	0	54	73	37	5	7	0
962	50	1	60	16	3	1	62	86	66	5	6	0
979	33	1	3	8	5	0	105	126	64	21	7	0
996	14	1	1	3	21	1	99	160	31	13	2	0
1013	11	0	6	1	21	2	68	272	50	32	4	0
1033	8	0	2	3	20	0	20	313	64	28	3	2
1053	14	0	5	1	18	2	44	331	84	15	3	3
1073	18	2	5	2	25	0	25	214	196	24	3	1
1093	16	2	1	1	12	4	37	187	141	28	5	1
1113	32	8	5	1	19	3	62	239	116	30	2	2
1133	41	4	5	5	4	5	67	128	104	12	2	1
1152	213	4	24	30	17	1	60	76	23	6	1	2
1174	134	7	58	51	7	3	85	100	31	5	2	1
1194	46	5	52	22	2	2	119	130	39	13	9	3
1216	21	3	10	25	5	7	174	106	64	17	11	2
1238	27	6	10	12	12	4	93	97	40	32	4	0
1259	17	1	10	3	25	0	96	108	32	44	2	0
1279	29	2	8	3	35	0	73	96	20	38	5	0
1299	20	2	4	0	23	1	108	122	19	27	3	0
1319	16	0	10	3	8	2	92	188	53	20	6	1
1339	21	2	3	2	4	1	98	139	62	28	2	1
1359	13	1	9	1	5	1	152	110	63	16	7	0
1379	17	2	7	1	6	1	132	96	53	28	3	4
1401	4	2	4	0	12	2	158	50	70	17	4	4
1423	11	2	4	2	28	1	96	141	22	35	4	1
1445	25	2	9	7	50	1	91	114	28	43	7	0
1467	25	2	5	7	2	1	116	134	45	13	9	3
1487	31	4	14	11	6	4	109	129	28	15	9	1
1508	27	3	4	11	19	1	100	157	26	23	6	2
1528	33	4	10	20	9	1	171	146	25	12	4	0
1548	31	3	5	6	5	0	181	146	30	22	5	2
1566	35	3	7	19	7	2	144	127	23	16	8	0
1585	39	3	9	19	4	1	154	113	32	12	8	1
1604	36	3	7	14	2	0	139	111	48	12	6	0
1624	25	4	9	8	0	4	118	99	25	17	5	2
1644	34	3	3	7	2	2	138	85	39	19	4	0
1664	25	1	7	2	3	3	200	65	30	7	2	0
1685	52	4	12	8	0	1	215	107	25	23	8	1

TABLE DR4 (CONTINUED). POLLEN COUNTS

Depth (cm)	Podo	Arauc	RFA	Tree ferns	Winter	*Poma*	*Euc*	Casua	*Callit*	Poa	Aster	*Plant*
1703	41	2	5	1	3	2	168	127	31	23	2	0
1722	29	3	8	7	3	3	156	90	41	14	1	0
1739	82	9	16	7	5	3	145	210	78	36	7	0
1760	62	4	6	5	1	1	118	119	58	11	0	0
1780	91	5	5	7	0	0	148	88	51	8	2	1
1800	172	4	14	8	0	1	103	66	41	9	1	3
1820	218	1	21	18	9	0	46	47	29	6	2	1
1840	232	0	19	6	9	4	70	44	33	5	2	0
1860	132	2	24	22	0	0	49	69	29	9	4	0
1880	20	1	5	19	7	1	154	110	36	7	7	2
1900	19	0	4	6	8	0	96	120	86	24	6	2
1919	23	0	4	1	8	1	92	134	42	14	7	3
1939	14	0	2	1	4	1	127	152	59	15	5	1
1958	9	4	3	1	4	2	115	132	72	17	8	0
1975	27	1	6	3	7	2	107	128	101	12	12	0
1993	21	1	6	3	0	0	177	72	63	3	2	0
2009	181	8	30	29	8	2	67	72	40	5	0	0
2025	132	15	53	30	6	1	76	73	28	8	1	0
2044	92	13	59	11	6	0	80	47	37	1	2	0
2064	119	4	51	16	3	1	53	71	27	1	2	0
2084	140	1	46	19	6	0	54	81	27	2	4	0
2098	102	6	49	11	2	1	59	82	40	4	5	0
2118	73	8	43	14	3	1	37	108	19	2	4	0
2138	128	6	39	17	11	0	55	61	40	5	2	1
2158	115	2	56	18	18	1	44	84	44	1	3	0
2177	113	9	51	24	7	0	53	95	32	2	6	0
2194	115	7	36	25	3	0	52	114	22	1	3	0
2219	40	4	33	8	4	3	66	123	46	3	5	0
2236	28	0	11	15	5	2	127	138	36	8	4	1
2250	12	3	4	0	4	3	131	108	96	10	2	1
2269	12	0	7	1	6	0	118	176	95	5	6	0
2288	16	2	4	1	7	0	122	181	122	9	5	0
2299	17	2	9	1	6	1	64	126	90	11	1	0
2319	35	5	7	8	0	3	140	92	35	4	3	0
2339	127	0	13	7	3	2	88	98	63	7	1	1
2359	123	4	15	25	4	1	71	83	51	6	1	1
2372	111	0	39	29	20	0	84	99	57	3	2	0
2390	111	2	40	34	11	0	52	115	60	9	2	1
2408	114	0	12	16	5	1	47	92	57	7	5	2
2426	25	0	10	19	8	0	160	138	51	14	5	1
2436	24	4	5	15	10	1	109	98	57	19	6	1
2455	13	0	5	6	2	2	138	81	60	5	4	0

TABLE DR4 (CONTINUED). POLLEN COUNTS

Depth (cm)	Podo	Arauc	RFA	Tree ferns	Winter	*Poma*	*Euc*	Casua	*Callit*	Poa	Aster	*Plant*
2475	7	2	5	2	3	0	148	54	109	12	2	0
2494	12	1	5	2	3	1	136	115	90	2	4	2
2510	12	2	6	2	9	1	118	121	46	11	1	2
2530	10	3	3	4	0	1	120	96	86	9	3	1
2549	37	7	4	14	4	0	68	156	58	13	3	1
2566	27	3	5	9	2	1	148	123	71	7	3	1
2586	57	4	5	6	0	0	175	113	63	3	0	1
2606	50	11	8	13	2	1	104	119	43	10	6	2
2624	55	3	6	11	5	2	162	97	38	9	3	1
2642	102	2	18	7	1	1	98	109	49	10	2	1
2660	46	4	12	18	3	1	147	94	34	12	1	0
2671	38	4	22	8	3	2	103	107	57	5	1	1
2691	98	3	15	5	9	2	44	57	91	8	1	0
2711	139	4	10	6	4	0	76	97	56	12	1	1
2731	161	2	4	4	1	0	74	73	28	13	3	3
2751	86	4	3	4	2	2	131	51	24	4	2	2
2771	24	3	6	15	5	3	176	102	46	6	3	1
2791	25	2	6	17	4	1	208	94	39	5	2	1
2811	28	3	4	6	0	0	175	77	34	11	3	1
2831	52	7	5	10	3	0	132	66	36	7	3	3
2851	61	2	3	8	0	0	142	73	31	18	2	0
2871	42	2	8	5	4	0	111	103	42	13	6	0
2889	55	3	3	8	0	1	181	87	37	7	3	0
2903	35	3	3	6	3	2	126	107	53	10	2	0
2923	55	5	11	9	0	1	134	70	39	10	2	0
2943	72	6	4	13	0	2	162	69	49	4	4	0
2963	199	8	12	12	2	0	173	123	82	5	2	1
2981	34	2	4	6	3	1	151	45	82	4	5	0
3001	63	2	7	16	0	1	80	96	45	11	6	2
3021	77	3	2	4	2	0	142	69	57	3	4	0
3040	78	2	2	6	3	2	138	76	44	8	0	2
3060	35	0	9	10	2	0	101	97	69	13	3	0
3081	47	1	4	8	4	0	133	57	67	10	6	0
3092	113	0	2	12	7	1	112	90	53	6	5	1
3108	72	3	6	10	5	1	120	78	106	12	8	2
3124	40	0	1	9	2	1	114	95	75	11	3	1
3140	49	1	5	9	7	3	75	92	80	20	6	3
3156	27	3	1	11	7	0	128	120	66	13	2	0
3174	33	0	2	7	15	0	70	111	34	17	9	1
3194	24	1	3	4	9	0	56	117	61	16	7	1
3211	22	0	1	12	8	2	155	121	121	23	5	0
3229	14	1	1	3	15	1	91	127	61	18	11	0

TABLE DR4 (CONTINUED). POLLEN COUNTS

Depth (cm)	Podo	Arauc	RFA	Tree ferns	Winter	*Poma*	*Euc*	Casua	*Callit*	Poa	Aster	*Plant*
3246	5	2	2	3	4	0	144	121	93	5	6	1
3262	8	0	3	1	4	2	106	123	119	18	11	4
3281	4	0	2	3	9	1	72	142	71	11	10	4
3299	18	1	1	2	3	0	101	128	87	12	5	7
3317	13	2	2	3	3	1	104	116	149	9	7	2
3333	20	1	4	7	5	1	107	108	109	11	7	1
3351	14	1	3	1	2	0	131	115	122	2	8	0
3369	17	1	3	2	2	1	168	104	87	6	6	0
3387	24	9	1	6	1	2	158	92	133	7	3	2
3402	28	7	2	4	5	0	107	71	113	4	3	0
3420	28	6	2	3	3	0	187	121	150	9	2	2
3438	27	11	2	4	4	1	207	100	104	14	0	0
3456	49	15	7	5	3	0	134	128	76	9	5	0
3470	153	26	5	7	3	0	122	106	56	4	3	0
3488	51	22	4	6	7	0	106	113	85	8	3	2
3507	182	17	2	14	2	0	42	101	57	6	3	0
3526	162	4	19	9	3	0	52	56	33	2	3	0
3541	156	10	11	6	1	1	65	97	52	3	4	0
3558	92	7	13	31	8	1	61	148	35	6	5	3
3570	97	10	11	37	14	1	46	117	36	17	4	19
3588	166	17	20	29	13	2	36	85	48	2	1	2
3608	150	55	54	39	12	2	34	76	39	7	1	1
3620	119	16	36	26	7	2	58	80	49	1	4	2
3640	130	20	19	41	11	1	63	94	32	1	4	3
3658	83	14	20	50	9	1	31	136	26	10	8	0
3672	153	15	32	62	6	3	44	74	29	3	6	1
3692	150	19	24	33	4	1	37	90	29	3	9	0
3710	157	12	21	17	5	0	18	79	30	4	1	1
3735	98	17	13	19	2	2	35	113	27	21	3	10
3752	119	9	17	9	1	1	33	85	17	14	1	8
3770	82	9	7	11	1	1	56	106	30	15	7	1
3785	100	13	5	17	2	2	157	152	25	20	3	2
3807	82	9	5	8	1	2	183	132	34	9	7	3
3826	52	5	5	3	0	0	93	99	86	10	6	0
3842	52	7	3	2	0	0	113	134	137	4	4	2
3856	73	6	4	9	0	0	64	177	83	14	1	1
3872	116	5	4	11	0	2	54	159	133	7	2	2
3894	50	2	4	4	0	1	57	112	135	32	2	4
3910	87	2	4	11	0	0	46	102	117	15	1	2
3951	78	3	3	6	2	0	52	110	64	5	1	0

Note: Podo = Podocarpaceae sum; Arauc = Araucariaceae sum; RFA = rainforest angiosperm sum; Tree ferns = Tree fern sum; Winter = Winteraceae; *Poma* = *Pomaderris*; *Euc* = *Eucalyptus*; Casua = Casuarinaceae; *Callit* = *Callitris*; Poa = Poaceae; Aster = Asteraceae; *Plant* = *Plantago*.

The Podocarpaceae sum is dominated by *Podocarpus*, *Podocarpidites* sp., *Phyllocladus*, *Dacrydium cupressinum* type, *Podosporites* cf. *microsaccatus* and *Dacrycarpus*, with trace occurrences of *Lagarostrobos franklinii* type, cf. *Microcachrys* (*Microcachryidites antarcticus*) and cf. *Microstrobos* (*Podosporites erugatus*). The Araucariaceae sum includes *Araucaria*, *Agathis*, and cf. *Wollemia* (*Dilwynites* cf. *granulatus*) types, and undifferenated Araucariaceae. The rainforest angiosperm sum is dominated by Cunoniaceae (2cp and 3cp types), Elaeocarpaceae, *Ilex*, *Quintinia*, *Symplocos*, *Rapanea*, *Myrsine*, *Acmena* and *Syzygium* types, with lower values of *Macaranga*/*Mallotus*, *Nothofagus* (subgenera *Brassospora* and *Lophozonia*), Araliaceae, *Beauprea*, cf. *Alectryon*, Cupanieae, Vitaceae, cf. *Diospyros*, cf. *Ripogonum*, cf. *Randia*, *Rubipollis oblatus*, Arecaceae, Oleaceae, Sapotaceae, and cf. *Ascarina* types. The tree fern sum includes *Cyathea*, *Dicksonia*, Osmundaceae and *Lophosoria.*