

# Supporting Information

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Table S1. Principal data

Depth, cm	Age, yr A.D.	SI, %	st. dev.	CO <sub>2</sub> , ppmv	CO <sub>2</sub> – 1 st. dev., ppmv	CO <sub>2</sub> + 1 st. dev., ppmv
–369.4	1021	15.63	0.38	308.65	307.11	310.24
–368.3	1022	16.20	1.60	306.37	300.35	313.02
–367.7	1023	14.96	0.54	311.45	309.16	313.82
–358.7	1030	15.01	1.13	311.22	306.59	316.21
–355.0	1033	13.90	2.00	316.15	307.56	326.07
–341.2	1045	16.89	0.65	303.71	301.29	306.22
–340.0	1046	14.20	1.50	314.78	308.37	321.92
–337.8	1048	18.03	4.04	299.51	286.61	315.70
–335.0	1050	17.00	2.00	303.28	296.17	311.28
–330.0	1055	20.20	2.20	292.26	285.65	299.63
–310.0	1072	17.20	1.20	302.53	298.22	307.16
–300.0	1080	18.00	2.00	299.63	292.90	307.16
–290.0	1089	17.90	1.50	299.99	294.84	305.58
–278.0	1099	15.50	1.60	309.18	302.91	316.15
–270.7	1119	17.71	0.36	300.67	299.37	301.99
–262.8	1133	17.04	0.26	303.12	302.15	304.10
–261.0	1136	16.00	0.49	307.17	305.24	309.16
–260.6	1137	15.63	1.11	308.65	304.26	313.37
–260.0	1138	15.63	0.54	308.63	306.48	310.86
–260.0	1138	14.78	0.47	312.21	310.19	314.29
–255.0	1147	16.26	2.89	306.14	295.68	318.64
–250.0	1156	18.00	2.50	299.63	291.32	309.18
–240.0	1173	18.50	2.50	297.88	289.78	307.16
–230.0	1197	22.00	1.80	286.81	281.78	292.26
–220.0	1232	16.42	2.51	305.51	296.40	316.12
–216.0	1246	16.84	2.17	303.89	296.16	312.69
–215.0	1249	18.50	2.00	297.88	291.32	305.19
–214.0	1253	18.20	1.22	298.92	294.78	303.34
–203.0	1291	13.75	2.31	316.86	306.95	328.60
–200.0	1301	15.98	2.36	307.26	298.44	317.49
–195.0	1318	13.26	1.93	319.18	310.48	329.25
–171.7	1383	15.74	1.94	308.19	300.78	316.58
–175.4	1386	17.41	0.64	301.75	299.45	304.13
–170.0	1387	14.50	1.50	313.45	307.16	320.42
–163.9	1403	15.50	1.83	309.20	302.07	317.23
–160.0	1413	16.10	1.00	306.76	302.91	310.86
–157.2	1420	15.58	0.19	308.85	308.08	309.63
–157.0	1420	16.06	1.41	306.91	301.55	312.76
–151.6	1434	16.43	1.63	305.46	299.44	312.12
–145.7	1449	16.93	1.08	303.53	299.59	307.73
–140.0	1460	15.80	1.50	307.96	302.16	314.33
–120.0	1480	20.50	1.50	291.32	286.81	296.17
–109.7	1490	15.05	3.68	311.06	297.06	329.00
–108.8	1490	17.83	0.44	300.25	298.71	301.84
–105.7	1493	17.25	1.54	302.34	296.89	308.30
–104.0	1495	15.86	0.01	307.70	307.67	307.74
–98.3	1500	20.96	3.88	289.89	279.04	302.98

st. dev., standard deviation.