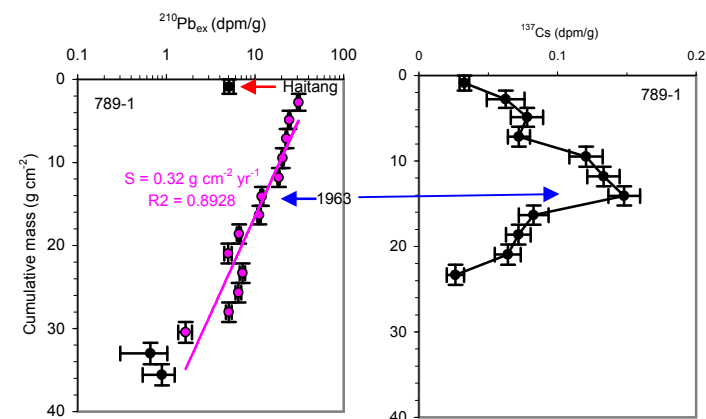


Downcore data on water content, cumulative mass, nuclide activities and sediment chronology

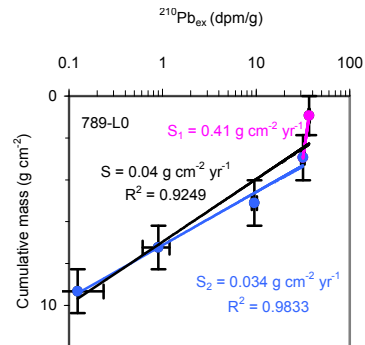
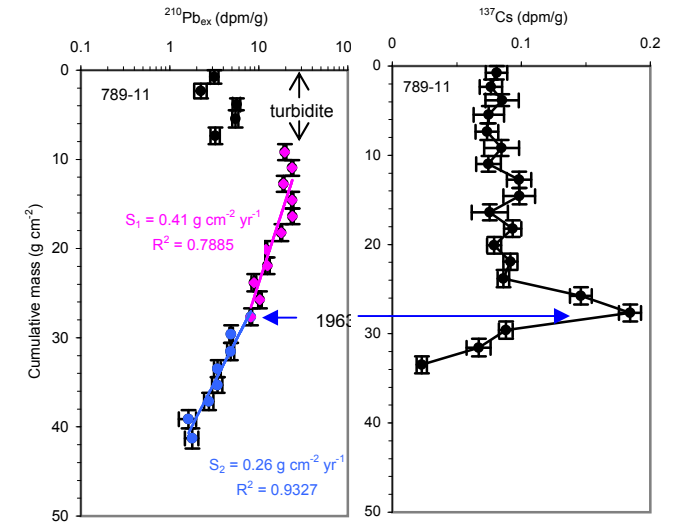
Depth (cm)	Content of water (%)	Cumulative mass* (g cm ⁻²)	Mean deposition time (A.D.)**	²¹⁰ Pb _{ex}	¹³⁷ Cs
				(dpm g ⁻¹)	
789-1 (22°14.31'N, 120°19.86'E; 395 m; collected on March 30, 2006)					
0-2	41.74	0.872 ± 0.872	2005.6	5.12 ± 0.61	0.0328 ± 0.0035 ← Typhoon Haitang
2-4	36.04	2.760 ± 1.016	1998.7	30.86 ± 1.05	0.0626 ± 0.0137
4-6	32.83	4.880 ± 1.105	1992.0	24.35 ± 0.78	0.0780 ± 0.0116
6-8	30.96	7.144 ± 1.159	1984.9	22.55 ± 0.57	0.0721 ± 0.0080
8-10	30.17	9.485 ± 1.182	1977.5	20.43 ± 0.64	0.1206 ± 0.0121
10-12	31.34	11.814 ± 1.148	1970.2	18.46 ± 0.54	0.1332 ± 0.0117
12-14	32.15	14.086 ± 1.124	1963.0	11.91 ± 0.48	0.1481 ± 0.0115
14-16	32.02	16.337 ± 1.128	1955.9	11.11 ± 0.55	0.0828 ± 0.0108
16-18	31.38	18.611 ± 1.146	1948.7	6.58 ± 0.37	0.0717 ± 0.0089
18-20	29.79	20.951 ± 1.194	1941.3	4.97 ± 0.46	0.0641 ± 0.0094
20-22	30.45	23.319 ± 1.174	1933.9	7.20 ± 0.51	0.0264 ± 0.0062
22-24	30.19	25.674 ± 1.182	1926.4	6.51 ± 0.51	
24-26	30.65	28.024 ± 1.168	1919.0	5.07 ± 0.37	
26-28	27.68	30.451 ± 1.259		1.65 ± 0.29	
28-30	26.67	33.001 ± 1.291		0.66 ± 0.36	
30-32	27.21	35.566 ± 1.274		0.89 ± 0.35	



789-11 (22°17.18'N, 120°8.40'E; 770 m; collected on March 31, 2006)

0-2	46.86	0.755 ± 0.755	↑	3.18 ± 0.34	0.0808 ± 0.0083
2-4	43.50	2.340 ± 0.830		2.23 ± 0.35	0.0764 ± 0.0087
4-6	51.15	3.835 ± 0.665	turbidite	5.65 ± 0.56	0.0852 ± 0.0128
6-8	38.41	5.453 ± 0.954	↓	5.45 ± 0.42	0.0747 ± 0.0118
8-10	38.80	7.352 ± 0.944		3.24 ± 0.39	0.0734 ± 0.0088
10-12	40.67	9.194 ± 0.898		19.62 ± 0.77	0.0847 ± 0.0136
12-14	41.90	10.960 ± 0.868	2003.3	23.74 ± 0.63	0.0745 ± 0.0096
14-16	39.97	12.743 ± 0.915	1999.0	18.90 ± 0.49	0.0983 ± 0.0093

16-18	39.80	14.577 ± 0.919	1994.6	23.71 ± 0.72	0.0985 ± 0.0123
18-20	41.00	16.386 ± 0.890	1990.2	23.80 ± 0.91	0.0755 ± 0.0140
20-22	38.77	18.220 ± 0.945	1985.8	17.88 ± 0.50	0.0934 ± 0.0066
22-24	39.84	20.084 ± 0.918	1981.3	11.98 ± 0.46	0.0789 ± 0.0055
24-26	39.32	21.933 ± 0.931	1976.8	12.54 ± 0.71	0.0916 ± 0.0054
26-28	37.97	23.830 ± 0.965	1972.3	8.81 ± 0.56	0.0861 ± 0.0045
28-30	38.40	25.750 ± 0.955	1967.6	10.27 ± 0.46	0.1462 ± 0.0084
30-32	38.20	27.664 ± 0.960	1963.0	8.15 ± 0.27	0.1843 ± 0.0086
32-34	37.55	29.600 ± 0.976	1955.6	4.88 ± 0.22	0.0880 ± 0.0054
34-36	37.66	31.550 ± 0.973	1948.2	4.84 ± 0.45	0.0669 ± 0.0093
36-38	38.33	33.479 ± 0.956	1940.9	3.45 ± 0.30	0.0229 ± 0.0039
38-40	41.65	35.310 ± 0.874	1933.9	3.43 ± 0.45	
40-42	37.72	37.156 ± 0.972	1926.9	2.75 ± 0.32	
42-44	36.24	39.138 ± 1.011	1919.4	1.62 ± 0.36	
44-46	31.74	41.285 ± 1.136	1911.2	1.79 ± 0.31	



789-L0 (22°04.99'N, 120°10.00'E; 752 m; collected on April 1, 2004)

0-2	39.22	0.934 ± 0.934	2004.0	36.78 ± 0.64
2-4	33.91	2.942 ± 1.074	1999.1	31.57 ± 1.31
4-6	33.36	5.105 ± 1.090	1935.4	9.58 ± 0.59
6-8	35.12	7.236 ± 1.041	1872.8	0.90 ± 0.29
8-10	35.07	9.318 ± 1.042	1811.5	0.12 ± 0.11

789-L1 (22°03.02'N, 120°14.00'E; 911 m; collected on April 1, 2006)

0-2	50.43	0.679 ± 0.679	2002.0	44.12 ± 1.45
2-4	39.71	2.280 ± 0.921	1991.9	23.50 ± 0.85
4-6	39.36	4.132 ± 0.930	1980.3	11.79 ± 0.67
6-8	40.98	5.952 ± 0.890	1968.8	10.28 ± 0.43
8-10	46.36	7.608 ± 0.766	1958.4	5.79 ± 0.49
10-12	39.06	9.311 ± 0.938	1947.7	3.59 ± 0.32

12-14	36.51	11.253 ± 1.004	1935.5	3.73 ± 0.31
14-16	36.16	13.269 ± 1.013	1922.8	2.78 ± 0.39
16-18	36.77	15.278 ± 0.997	1910.2	2.71 ± 0.29
18-20	38.72	17.221 ± 0.946	1897.9	1.54 ± 0.29
20-22	38.39	19.122 ± 0.955	1886.0	0.74 ± 0.31
22-24	38.71	21.024 ± 0.947	1874.0	0.58 ± 0.30
24-26	38.25	22.929 ± 0.958	1862.0	0.44 ± 0.39

789-L2 (22°02.01'N, 120°16.02'E; 876 m; collected on April 1, 2006)

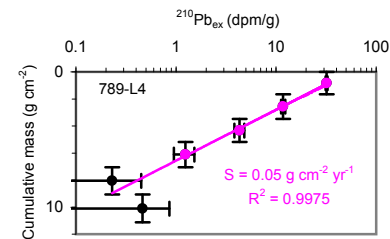
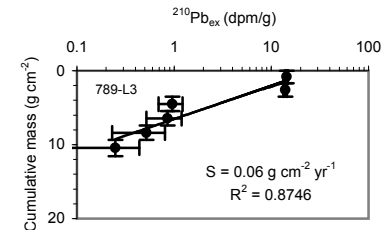
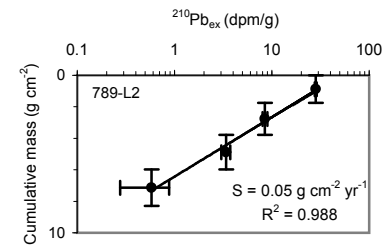
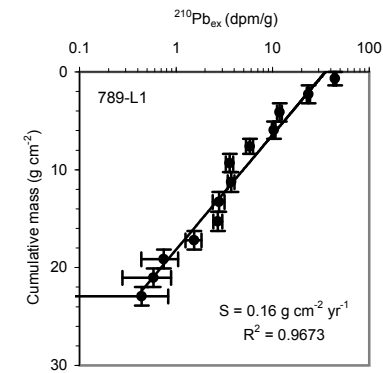
0-2	41.74	0.872 ± 0.872	1989.2	28.26 ± 0.63
2-4	36.04	2.760 ± 1.016	1952.1	8.50 ± 0.49
4-6	32.83	4.880 ± 1.105	1910.6	3.37 ± 0.36
6-8	30.96	7.144 ± 1.159	1866.2	0.58 ± 0.30

789-L3 (22°03.85'N, 120°17.42'E; 782 m; collected on April 2, 2006)

0-2	43.17	0.838 ± 0.838	1992.5	14.35 ± 0.48
2-4	39.63	2.600 ± 0.923	1963.6	13.90 ± 0.55
4-6	37.61	4.498 ± 0.975	1932.5	0.96 ± 0.27
6-8	37.59	6.448 ± 0.975	1900.5	0.86 ± 0.34
8-10	37.77	8.394 ± 0.971	1868.6	0.52 ± 0.29
10-12	33.47	10.451 ± 1.086	1834.9	0.25 ± 0.19

789-L4 (22°06.83'N, 120°14.14'E; 822 m; collected on April 2, 2006)

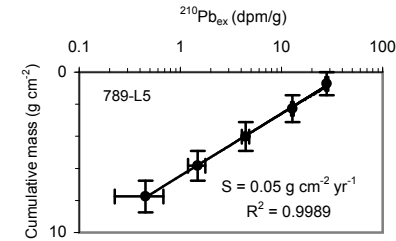
0-2	43.68	0.826 ± 0.826	1990.0	31.99 ± 0.73
2-4	40.18	2.563 ± 0.910	1955.8	11.76 ± 0.57
4-6	42.47	4.327 ± 0.855	1921.1	4.32 ± 0.48
6-8	39.31	6.113 ± 0.931	1885.9	1.24 ± 0.29
8-10	36.23	8.055 ± 1.011	1847.7	0.23 ± 0.22



10-12 35.49 10.097 ± 1.031 1807.5 0.46 ± 0.39

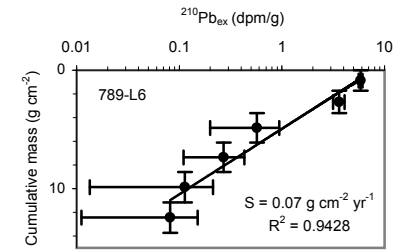
789-L5 (22°10.039'N, 120°10.003'E; 738 m; collected on April 2, 2006)

0-2	48.59	0.718 ± 0.718	1992.6	28.03 ± 0.90
2-4	43.01	2.277 ± 0.842	1962.9	12.81 ± 0.36
4-6	40.90	4.011 ± 0.892	1929.9	4.42 ± 0.36
6-8	39.45	5.831 ± 0.928	1895.2	1.48 ± 0.29
8-10	37.08	7.747 ± 0.989	1858.7	0.45 ± 0.23



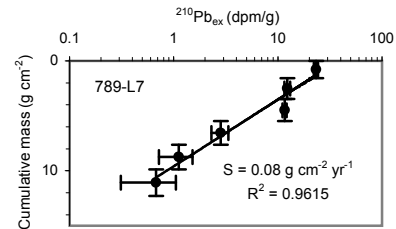
789-L6 (22°11.945'N, 120°12.571'E; 845 m; collected on April 2, 2006)

0-2	41.94	0.867 ± 0.867	1994.6	5.85 ± 0.27
2-4	38.97	2.674 ± 0.940	1970.4	3.61 ± 0.46
4-6	27.96	4.864 ± 1.250	1941.0	0.57 ± 0.37
6-8	28.36	7.352 ± 1.238	1907.7	0.27 ± 0.16
8-10	26.94	9.872 ± 1.282	1873.9	0.11 ± 0.10
10-12	26.78	12.442 ± 1.288	1839.5	0.08 ± 0.07



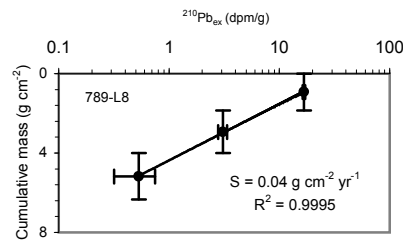
789-L7 (22°09.062'N, 120°16.854'E; 777 m; collected on April 2, 2006)

0-2	45.54	0.784 ± 0.784	1996.7	23.28 ± 1.09
2-4	38.67	2.515 ± 0.948	1975.6	12.30 ± 0.79
4-6	36.17	4.476 ± 1.013	1951.7	11.60 ± 0.50
6-8	34.15	6.555 ± 1.067	1926.3	2.82 ± 0.53
8-10	32.17	8.746 ± 1.123	1899.6	1.12 ± 0.40
10-12	29.30	11.078 ± 1.209	1871.2	0.68 ± 0.37



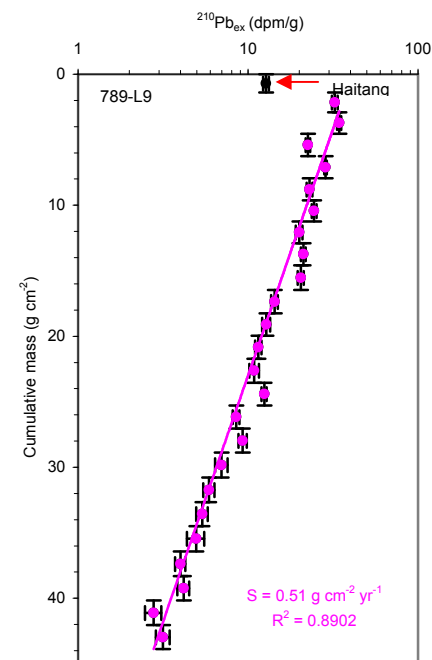
789-L8 (22°07.11'N, 120°20.82'E; 568 m; collected on April 2, 2006)

0-2	39.52	0.926 ± 0.926	1982.1	16.69 ± 0.45
2-4	33.84	2.929 ± 1.076	1929.8	3.07 ± 0.28
4-6	30.71	5.171 ± 1.166	1871.2	0.53 ± 0.21



789-L9 (22°11.04'N, 120°21.65'E; 491 m; collected on April 2, 2006)

0-2	49.42	0.700 ± 0.700	2005.6	12.74 ± 0.50	← Typhoon Haitang
2-4	47.07	2.151 ± 0.750	2002.8	32.39 ± 1.26	
4-6	44.13	3.717 ± 0.816	1999.7	34.36 ± 0.96	
6-8	42.02	5.398 ± 0.865	1996.4	22.47 ± 0.69	
8-10	43.20	7.100 ± 0.837	1993.0	28.57 ± 0.53	
10-12	42.81	8.784 ± 0.847	1989.7	22.99 ± 0.90	
12-14	44.85	10.430 ± 0.799	1986.5	24.48 ± 0.80	
14-16	43.54	12.059 ± 0.829	1983.3	20.00 ± 0.92	
16-18	42.56	13.741 ± 0.852	1980.0	21.14 ± 0.67	
18-20	38.94	15.534 ± 0.941	1976.4	20.43 ± 0.82	
20-22	40.97	17.365 ± 0.890	1972.8	14.33 ± 0.65	
22-24	42.59	19.108 ± 0.852	1969.4	12.81 ± 0.69	
24-26	41.51	20.837 ± 0.877	1966.0	11.51 ± 0.51	
26-28	39.91	22.631 ± 0.917	1962.5	10.88 ± 0.69	
28-30	42.10	24.410 ± 0.863	1959.0	12.45 ± 0.43	
30-32	41.09	26.161 ± 0.888	1955.5	8.50 ± 0.39	
32-34	40.00	27.963 ± 0.914	1952.0	9.29 ± 0.52	
34-36	38.28	29.835 ± 0.958	1948.3	6.99 ± 0.59	
36-38	39.30	31.724 ± 0.932	1944.6	5.89 ± 0.44	
38-40	39.84	33.574 ± 0.918	1940.9	5.38 ± 0.42	
40-42	38.08	35.455 ± 0.963	1937.2	4.95 ± 0.58	
42-44	38.62	37.367 ± 0.949	1933.5	4.00 ± 0.28	
44-46	39.75	39.236 ± 0.920	1929.8	4.17 ± 0.34	
46-48	38.67	41.104 ± 0.948	1926.1	2.78 ± 0.31	
48-50	40.18	42.961 ± 0.910	1922.4	3.16 ± 0.30	



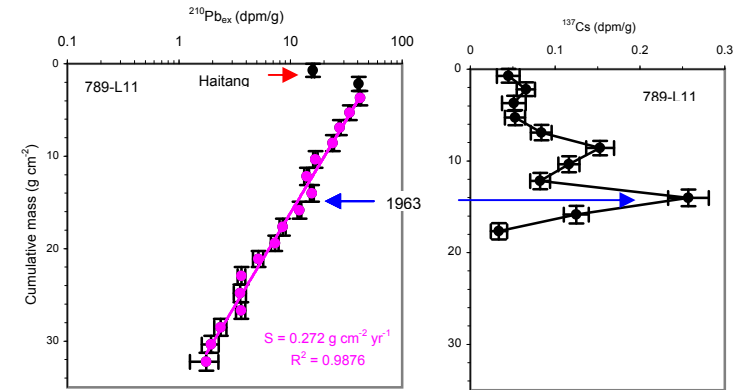
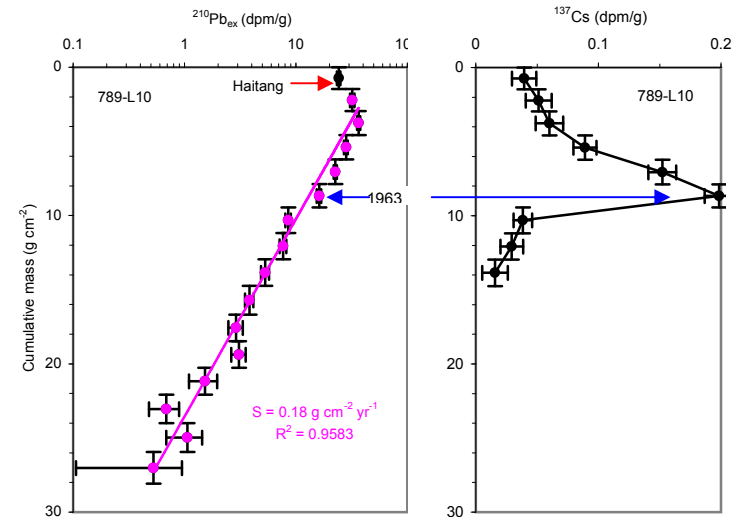
789-L10 (22°11.97'N, 120°17.98'E; 662 m; collected on April 2, 2006)

0-2	47.58	0.739 ± 0.739	2005.6	24.19 ± 0.90	0.0394 ± 0.0099
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2-4	47.73	2.214 ± 0.736	1997.1	32.09 ± 1.49	0.0513 ± 0.0107
4-6	44.14	3.766 ± 0.816	1988.6	36.59 ± 1.19	0.0600 ± 0.0111
6-8	44.03	5.400 ± 0.818	1980.1	28.17 ± 1.13	0.0891 ± 0.0094
8-10	43.30	7.053 ± 0.835	1971.5	22.56 ± 0.74	0.1521 ± 0.0114
10-12	45.82	8.665 ± 0.778	1963.0	16.17 ± 0.75	0.1983 ± 0.0117
12-14	41.91	10.311 ± 0.868	1953.9	8.53 ± 0.49	0.0384 ± 0.0075
14-16	41.17	12.065 ± 0.886	1944.1	7.67 ± 0.52	0.0293 ± 0.0093
16-18	40.63	13.849 ± 0.899	1934.2	5.31 ± 0.43	0.0156 ± 0.0104
18-20	37.99	15.713 ± 0.965	1923.8	3.83 ± 0.33	
20-22	40.74	17.574 ± 0.896	1913.5	2.91 ± 0.43	
22-24	40.52	19.371 ± 0.902	1903.5	3.08 ± 0.45	
24-26	40.31	21.180 ± 0.907	1893.4	1.53 ± 0.43	
26-28	38.41	23.040 ± 0.954	1883.1	0.69 ± 0.21	
28-30	37.53	24.971 ± 0.977	1872.4	1.06 ± 0.38	
30-32	34.03	27.019 ± 1.071	1861.0	0.53 ± 0.42	

789-L11 (22°13.62'N, 120°15.51'E; 721 m; collected on April 2, 2006)

0-2	48.63	0.717 ± 0.717	2005.6	15.89 ± 0.44	0.0448 ± 0.0134
2-4	47.14	2.182 ± 0.749	2000.9	40.68 ± 0.87	0.0656 ± 0.0108
4-6	45.75	3.710 ± 0.779	1996.0	42.03 ± 0.94	0.0513 ± 0.0140
6-8	44.98	5.286 ± 0.796	1991.0	33.80 ± 0.79	0.0527 ± 0.0119
8-10	43.71	6.908 ± 0.825	1985.8	27.62 ± 0.50	0.0837 ± 0.0123
10-12	42.27	8.593 ± 0.859	1980.4	23.93 ± 0.57	0.1530 ± 0.0164
12-14	40.27	10.360 ± 0.908	1974.7	16.73 ± 0.82	0.1161 ± 0.0125
14-16	39.73	12.188 ± 0.921	1968.9	13.97 ± 0.71	0.0823 ± 0.0116
16-18	40.16	14.020 ± 0.910	1963.0	15.55 ± 0.62	0.2571 ± 0.0240
18-20	39.82	15.849 ± 0.919	1956.3	12.01 ± 0.49	0.1249 ± 0.0149
20-22	40.39	17.672 ± 0.905	1949.6	8.50 ± 0.52	0.0337 ± 0.0096
22-24	42.88	19.422 ± 0.845	1943.1	7.25 ± 0.58	
24-26	42.06	21.131 ± 0.864	1936.9	5.14 ± 0.55	



← 1963 nuclear fallout max.

26-28	38.89	22.937 ± 0.942	1930.2	3.64 ± 0.29
28-30	38.53	24.830 ± 0.951	1923.3	3.54 ± 0.44
30-32	40.43	26.685 ± 0.904	1916.4	3.60 ± 0.35
32-34	39.69	28.511 ± 0.922	1909.7	2.37 ± 0.29
34-36	40.03	30.346 ± 0.913	1903.0	1.94 ± 0.34
36-38	38.11	32.22 ± 0.962	1896.1	1.75 ± 0.50

* Cumulative mass is integrated from the core top to the mid-depth of each sampling interval.

** Chronologies are established from ²¹⁰Pb decay in hemipelagic sediments and constrained by ¹³⁷Cs stratigraphy and known events.

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