

Supplemental Figure Captions

Figure A. Loss-on-ignition profiles of % organic matter for primary sediment cores.

Figure B. Total ^{210}Pb activity plots for primary sediment cores. Supported ^{210}Pb indicated by dashed lines; error bars represent ± 1 s.d.

Figure C. Sediment accumulation rates vs. sediment age for primary sediment cores as determined by ^{210}Pb dating; error bars represent ± 1 s.d.

Figure D. Elemental ratios in lake sediments and unweathered soil samples from the lake catchments. Using Mg as a conservative tracer for clastic minerals, lake sediments appear to be enriched in Al and Ti relative to soil samples, presumably by organically-bound authigenic phases.







