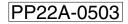
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A Sediment Record of Abrupt Lake-Level Change in West-Central Minnesota



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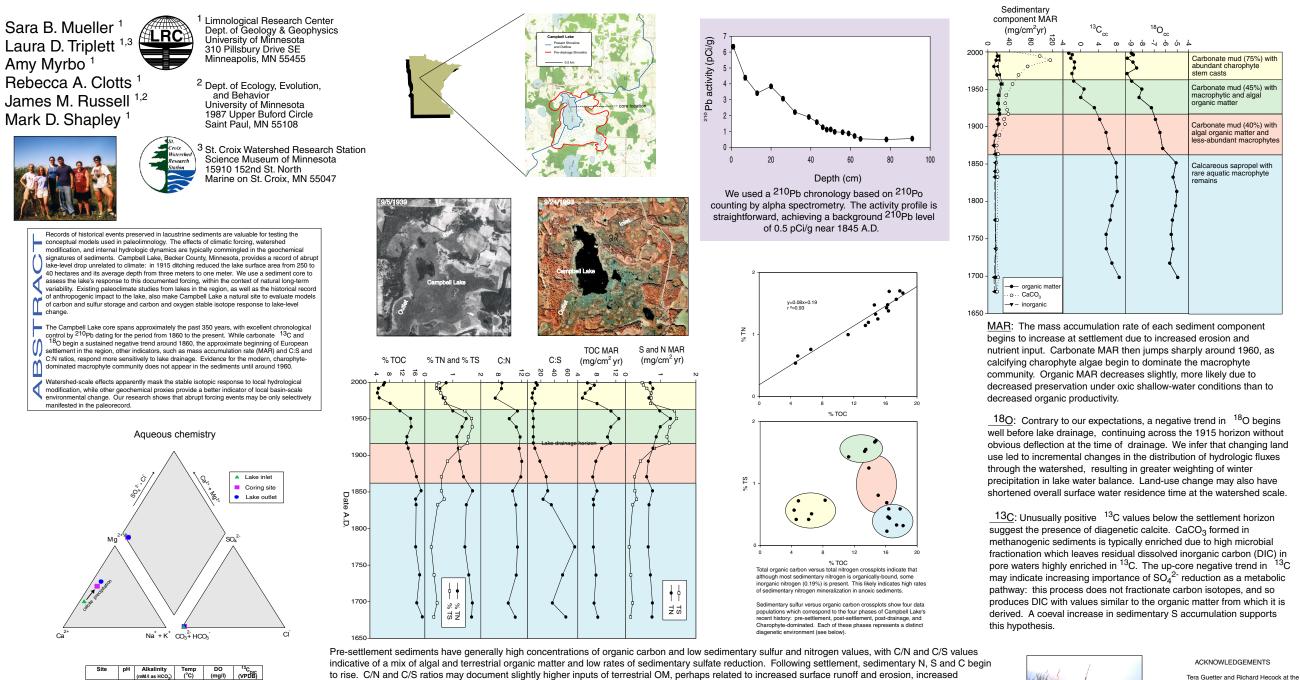
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productivity, and elevated levels of sulfate reduction. Total sulfur accumulation peaks, and C/S reaches a minimum, following drainage of Campbell Lake. During this time TOC and TN also peak, while C/N ratios decline slightly, likely indicating peak algal productivity coupled with elevated rates of sulfate reduction and sulfur retention. The latter is likely related to either reworking of sulfur-rich sediments from fringing marginal wetlands, or increased availability of easily metabolizable OM. High OC concentrations lend credence to the former. Roughly 50 years after drainage, the lake became dominated by *Chara* beds. C/S values remain low in this interval, likely due to increasingly oxic conditions in porous sediments, and declining TOC and TS concentrations.