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Linking sedimentary total organic carbon to $^{210}\text{Pb}_{\text{ex}}$ chronology from Changshou Lake in the Three Gorges Reservoir Region, China



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Highlights

- TOC from anthropogenic activities significantly influences $^{210}\text{Pb}_{\text{ex}}$ activity in lake profile.
- Algal growth from fish farming constitutes carbon source to promote $^{210}\text{Pb}_{\text{ex}}$ scavenging.
- Combining rainfall erosivity and particle-size distribution affords for high resolution dating.
- TOC variation in lake sediments needs to be carefully considered for ^{210}Pb dating.

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