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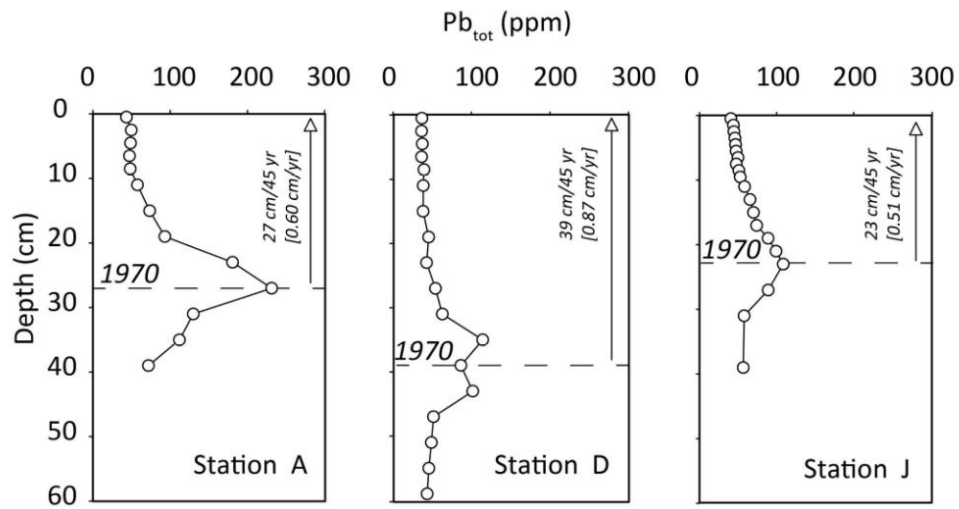
*Supplement of*

## **Impacts of flocculation on the distribution and diagenesis of iron in boreal estuarine sediments**

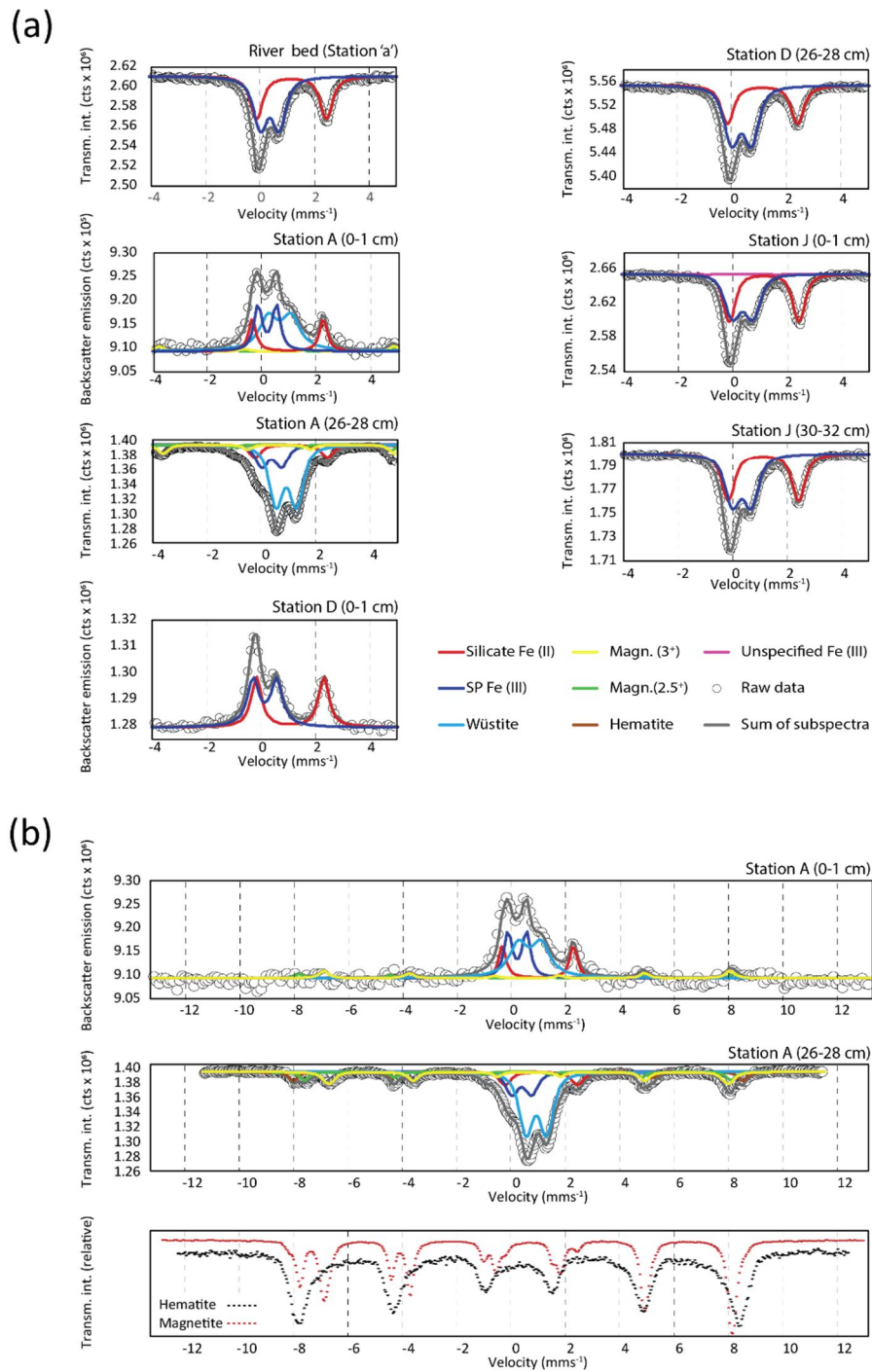
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**Supplement Fig. S1. Total lead ( $P_{tot}$ ) concentrations in sediment cores from stations A, D and J in 2015, determined by ICP-OES. The peak in  $P_{tot}$  is assumed equivalent to the year 1970 (Zillen et al., 2012). Mean sedimentation rates for each core were estimated for the interval 1970-2015 as indicated in the panels.**



**Supplement Fig. S2. (a) Mössbauer spectra from all samples presented in true orientation. Samples from Station A (0-1 cm) and Station D (0-1 cm) were analyzed in backscatter mode. All other samples were analyzed in transmission mode. (b) Expanded spectra from Station A, showing sextet components. Reference spectra for magnetite and hematite are reproduced by permission of M. Darby Dyer from the Mineral Spectroscopy Database of Mount Holyoke College.**