



Supplement of

Age and chemistry of dissolved organic carbon reveal enhanced leaching of ancient labile carbon at the permafrost thaw zone

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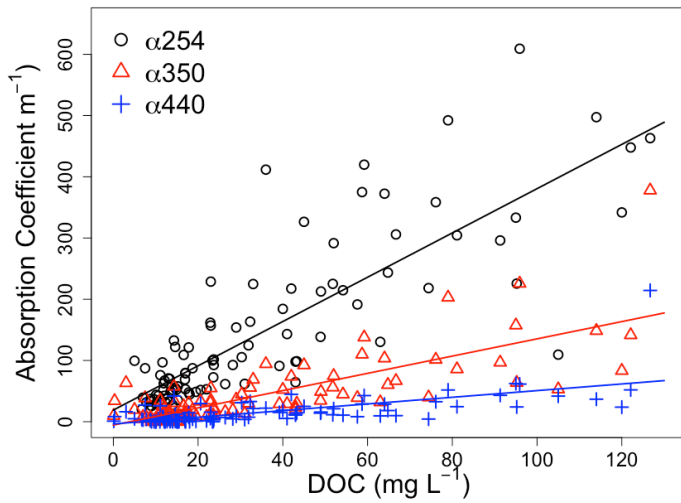


Figure S1. Absorption coefficients for 254, 350, and 440 nm wavelengths and DOC concentration. Regression followed by correlation: a_{254} : slope = 3.49, $R^2 = 0.65$, $p < 0.01$; a_{350} : slope = 1.41, $R^2 = 0.59$, $p < 0.01$; a_{440} : slope = 0.54, $R^2 = 0.42$, $p < 0.01$.

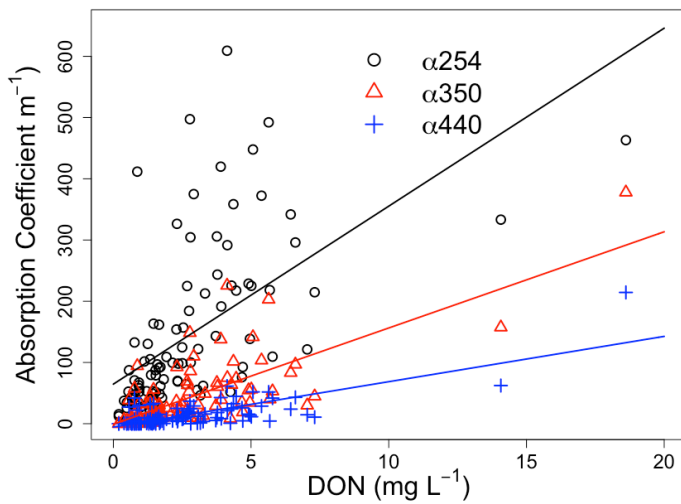


Figure S2. Absorption coefficients for 254, 350, and 440 nm wavelengths and DON concentration. Regression followed by correlation: a_{254} : slope = 29.45, $R^2 = 0.58$, $p < 0.01$; a_{350} : slope = 15.71, $R^2 = 0.74$, $p < 0.01$; a_{440} : slope = 7.40, $R^2 = 0.77$, $p < 0.01$.

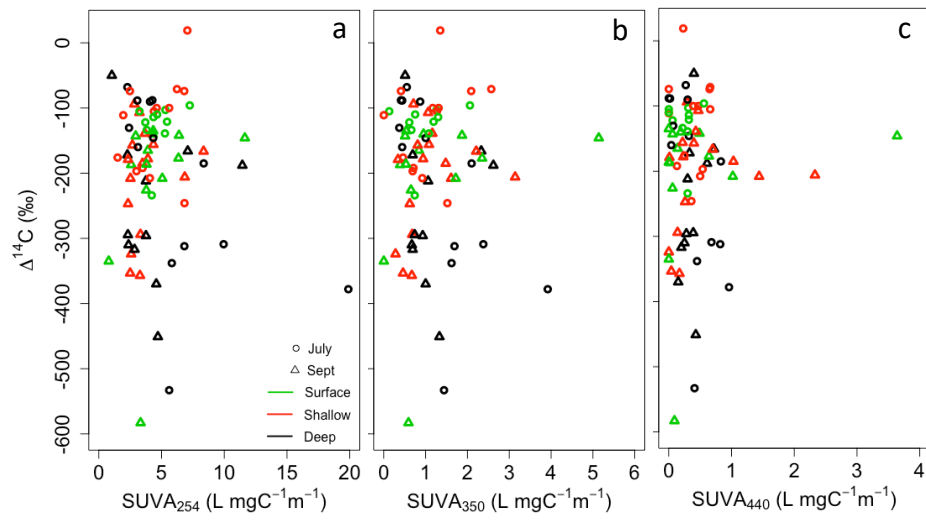


Figure S3. SUVA_{254} (a), SUVA_{350} (b), and SUVA_{440} vs. ^{14}C of DOC.