

Supplemental materials

Bottom Sediment Characteristics of a Tropical Lake: Lake Tana, Ethiopia

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Table S1: Descriptive Statistics of Lake Tana bottom sediment composition and sediment constituents: organic matter, organic carbon, total nitrogen, C/N ratio and available phosphorus fractions

Statistical parameters	Sand (%)	Clay (%)	Silt (%)	OM (%)	TN (mg kg ⁻¹)	OC (mg kg ⁻¹)	C/N Ratio	Av.P (mg kg ⁻¹)	Depth (m)
Mean	15.9	67.5	16.6	15.7	0.8	9.1	11.7	19.4	8.8
Standard Error	1.6	2.6	2.1	0.5	0.0	0.3	0.1	1.1	0.5
Median	13.0	75.0	9.0	16.1	0.8	9.3	11.7	18.9	9.2
Mode	12.0	82.0	6.0	16.1	0.7	9.3	11.7	25.7	–
Standard Deviation	12.6	20.3	16.5	4.3	0.2	2.5	0.5	8.3	3.8
Sample Variance	158.9	412.0	273.7	18.1	0.0	6.1	0.2	68.4	14.7
Kurtosis	12.6	0.7	1.4	-0.5	-0.5	-0.5	-0.3	-0.8	-1.5
Skewness	3.6	-1.4	1.6	-0.1	0.0	-0.1	0.3	0.1	-0.1
Range	62.0	72.0	62.0	17.5	0.9	10.2	2.2	34.9	12.0
Minimum	6.0	16.0	2.0	6.7	0.3	3.9	10.7	3.5	2.9
Maximum	68.0	88.0	64.0	24.2	1.2	14.0	13.0	38.5	14.9
Sum	952.0	4052.0	996.0	943.2	46.8	547.1	703.8	1164.2	530.0
Count	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
Confidence Level (95%)	3.3	5.2	4.3	1.1	0.1	0.6	0.1	2.1	1.0

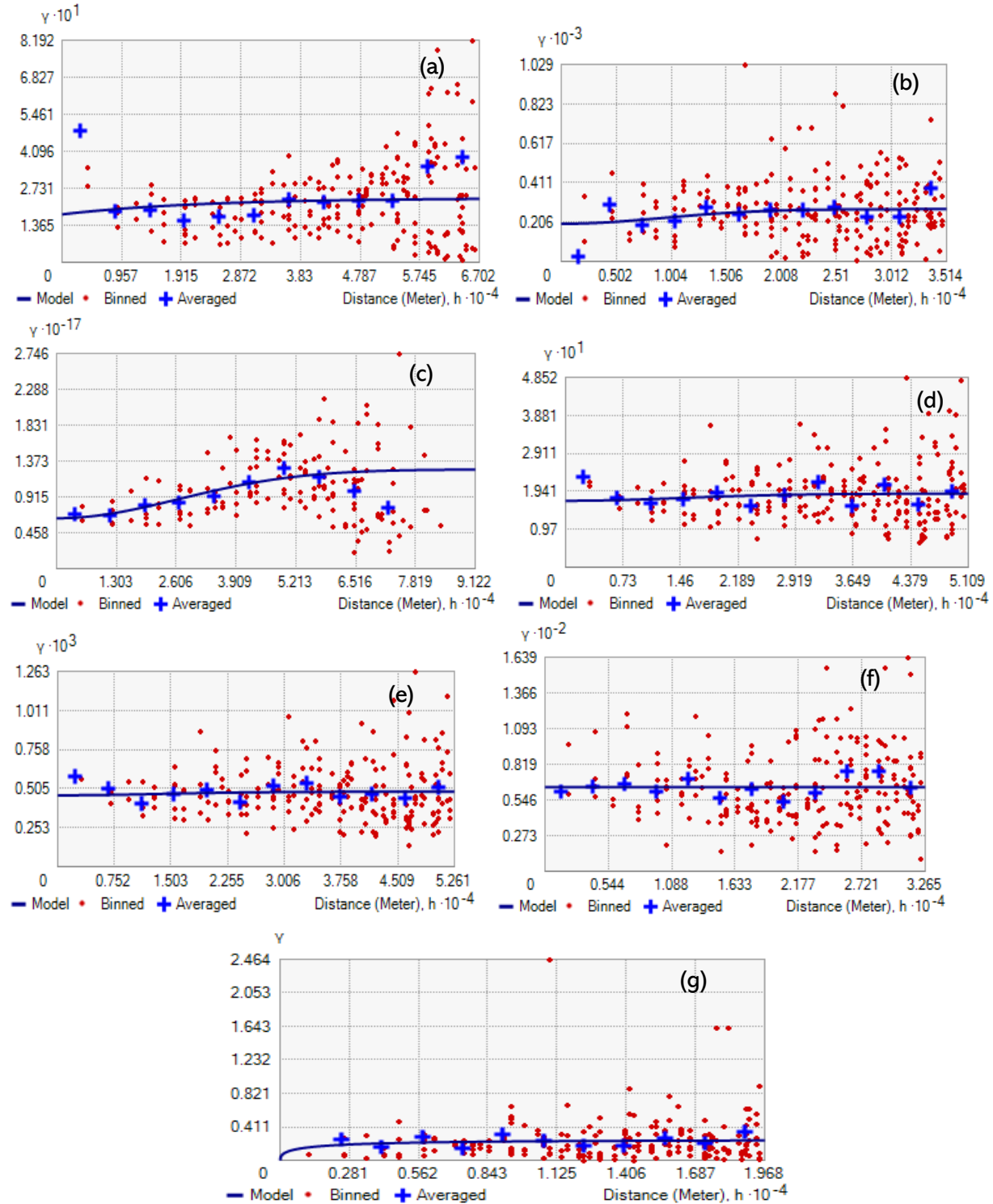


Figure S1: Kriging variogram model for spatial distribution of Lake Tana bottom sediment characteristics: (a) sand fraction (b) silt fraction (c) clay fraction (d) Organic matter fraction (e) sediment total nitrogen (f) sediment available phosphorus (g) carbon to nitrogen ratio on Lake Tana bottom sediments

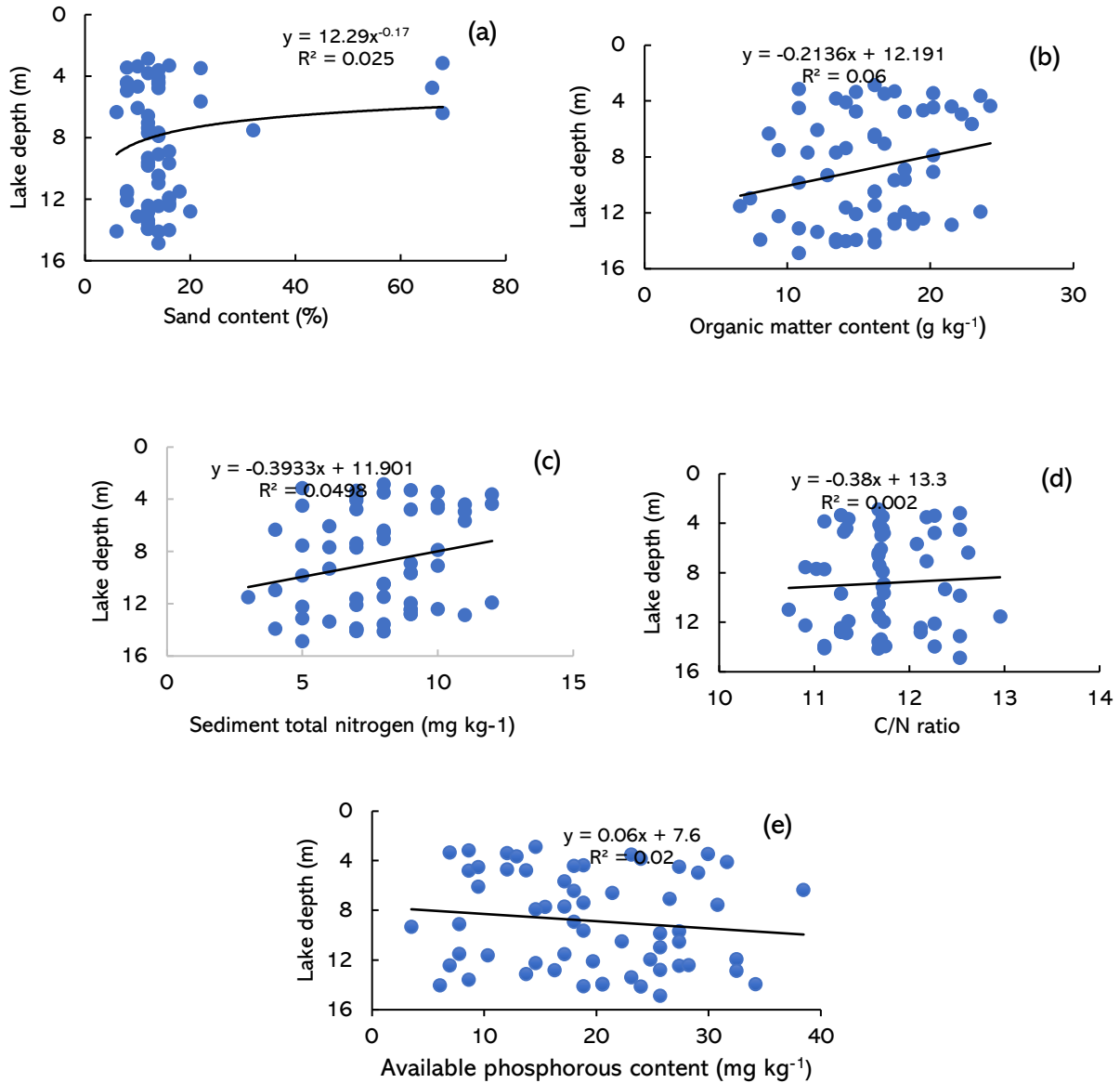


Figure S2: Bottom sediment characteristics of Lake Tana: (a) sand content with lake depth, (b) organic matter content with lake depth (c) sediment total nitrogen content with lake depth (d) C/N ratio with lake depth (e) sediment available phosphorous content with lake depth