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Spatial Variability of Heavy Metals in the Coastal Soils under Long-term Reclamation

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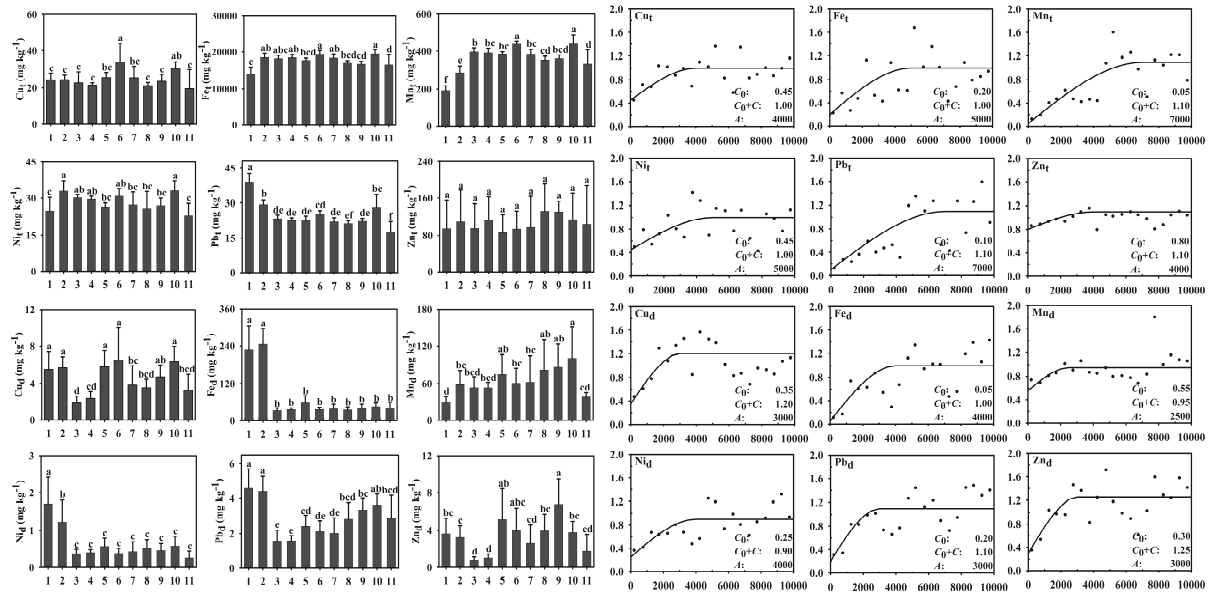
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There were significant differences for total and DTPA-extractable heavy metals concentrations among the eleven zones after over 1,000 years reclamation. (Error bars are \pm one standard deviation of the mean. Different letters indicate significant differences between reclaimed zones by Scheffé test ($P < 0.05$). Digital numbers, 1, 2, 3, and so on, denote the different zones. Subscript t represents total concentrations of heavy metals; subscript d represents concentrations of heavy metals extracted by DTPA.)

Geostatistical results illustrate that heavy metal concentrations showed strong or moderate spatial dependence. Ranges of metals were approximately several times of the reclamation zones spanning distance, meaning continuity generally occurred around the sea dikes. DTPA-extractable metals concentrations seemed to be less continuous in space and less stable in time than the total ones.

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