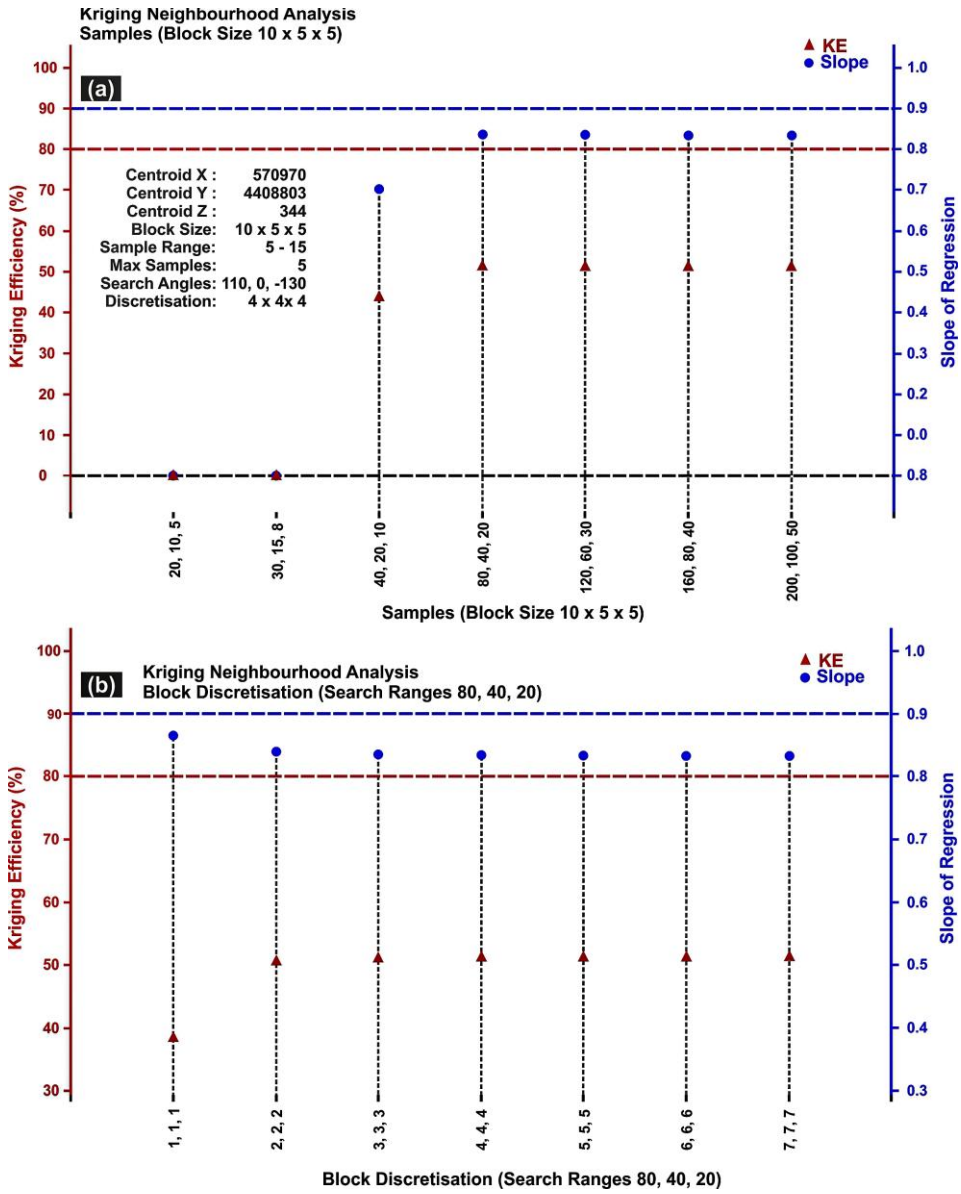
Electronic Supplementary Material ESM7: Search Radius and Block Discretization Optimization within Kriging Neighborhood Analysis

This supplementary material contains optimization studies carried out to minimize systematic errors in the prediction process and increase block model accuracy. S. Fig. 8 indicates the process of determining the search radius parameter, which directly affects prediction quality, and the statistical analysis of block discretization levels.



S. Fig. 8 Kriging Neighborhood Analysis (KNA) results: **a** – Optimal search radius analysis minimizing prediction variance; **b** – Block discretization optimization, which increases data representation capacity within the block.