

Spatial Data Analysis in Archaeology
Anthropology 589b

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Problem Set 2: More Correlograms and Variograms

The Problem

Archaeologists have long used temporal and spatial variation in Maya terminal-monument dates to document the "collapse" of Classic Maya societies. Using ArcMap symbolize the terminal monument dates. Compute correlograms for Moran's I and Geary's C for these data. Can you relate the shapes of the correlograms to the patterns you see on the map? Compare your results with those derived by Bove (1981) in his trend surface analysis. What are the implications of your results for the spatial scale over which some of the processes responsible for the collapse were operating?

What to Turn In

A short (< 1 page single spaced) description of the problem, the methods you used to address it, your results, and your conclusions. Come to class prepared to describe your results. Due date: 02.12.07.