

## Submitting Your Site Data for Illustration of Geostatistical Applications

As part of the Geostatistics Course, the instructor, Steve Carle of Lawrence Livermore National Laboratory will be demonstrating on screen how available tools can be used for geostatistical analysis of site data. Along with the data that he will select for the course demonstrations, he is encouraging class attendees to submit their own site data in advance of the course. The site data will be presented in a manner that maintains confidentiality, and no data will be distributed as part of the course materials. The instructor plans to weave applications of class participant's data sets into examples to illustrate important concepts.

If class participants wish to submit data sets, you will need to do so by **July 2, 2001**.

**Participants submitting data must use the following format for their data sets.**

### DATA FORMAT

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E-mail a data file in ASCII (or space delimited text file) format as an attached file to [carle1@llnl.gov](mailto:carle1@llnl.gov) by July 2.

Use "GEOEAS" format, which is:

1st Line: Text (anything you want - perhaps a description of the data)  
2nd Line: Number of Columns (=ncol)  
Next "ncol" Lines: Description of each column attribute. Include units!  
Remaining Lines: Data, with "ncol" attributes.

Use first three columns for "x, y, and z" locations. If data is 2-D, just set the third coordinate to a constant. Use remaining columns for multiple attributes (e.g., concentration, permeability, category, etc.).

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Example:

Data for "Bad Stuff"

5

x location (meters)

y location (meters)

z location (meters)

Bad Stuff #1 (micrograms/liter)

Bad Stuff #2 (micrograms/liter)

4.54 1.23 34.1 10000. 53000.

3.24 3.15 53.8 25000. 63000.

8.98 3.65 72.1 67000. 130000.

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If data is categorical (e.g., lithofacies, hydrofacies), treat each category as a binary variable, where (0 = not present) and (1 = present).

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Example:

Lithofacies data for site with Bad Stuff.

7

x location (meters)

y location (meters)

z location (meters)

Clay

Silt

Sand

Gravel

45.6 23.5 56.6 1 0 0 0

45.6 23.5 56.1 1 0 0 0

45.6 23.5 55.6 0 1 0 0

45.6 23.5 55.1 0 1 0 0

45.6 23.5 54.6 0 0 0 1

45.6 23.5 54.1 0 0 0 1

45.6 23.5 53.6 1 0 0 0

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Notes:

- (1) Please don't use "depth" as a z coordinate - convert to elevation.
- (2) Data may represent point values or block averages.
- (3) If data are from (semi-)continuous logs, provide adequate discretization with regular spacing.
- (4) Include a paragraph or two describing the data set.

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