

GStatSim V1.0: a Python package for geostatistical interpolation and conditional simulation

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Abstract. The interpolation of geospatial phenomena is a common problem in Earth sciences applications that can be addressed with geostatistics, where spatial correlations are used to constrain interpolations. In certain applications, it can be particularly useful to perform geostatistical simulation, which is used to generate multiple non-unique realizations that reproduce the variability of measurements and are constrained by observations. Despite the broad utility of this approach, there are few open-access geostatistical simulation software. To address this accessibility issue, we present GStatSim, a Python package for performing geostatistical interpolation and simulation. GStatSim is distinct from previous geostatistics tools in that it emphasizes accessibility for non-experts, geostatistical simulation, and applicability to remote sensing data sets. It includes tools for performing non-stationary simulations and interpolations with secondary constraints. This package is accompanied by a Jupyter Book with user tutorials and background information on different interpolation methods. These resources are intended to significantly lower the technological barrier to using geostatistics and encourage the use of geostatistics in a wider range of applications. We demonstrate the different functionalities of this tool for the interpolation of subglacial topography measurements in Greenland.

1 Introduction

The interpolation of geological and geophysical observations is a common problem in the geosciences with applications in mineral exploration (Journel and Huijbregts, 1976; Emery and Maleki, 2019), oil reservoir modeling (Kelkar and Perez, 2002; Pyrcz and Deutsch, 2014), groundwater hydrology (Kitanidis, 1997; Feyen and Caers, 2006), soil sciences (Goovaerts, 1999; Lark, 2012; Xiong et al., 2015), climate modeling (Costa and Soares, 2009), natural hazard prediction (Youngman and Stephenson, 2016), and glaciology (MacKie et al., 2020; Zuo et al., 2020). The field of geostatistics emerged in the 1950s with the development of kriging, a method for optimizing spatial interpolation, which was originally used to estimate gold ore grades (Krige, 1951; Cressie, 1990). This theory was expanded by Matheron (1963), who formalized the variogram as a measure of

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spatial variance. Since then, a number of methods have evolved to include a variety of interpolators and descriptors of spatial statistics (e.g. Cressie and Hawkins, 1980; Solow, 1986; Goovaerts, 1998; Strebelle, 2002).

In contrast to deterministic methods such as kriging, which are designed to minimize estimation variance, geostatistical simulation is designed to reproduce the variability of measurements (Deutsch et al., 1992). Geostatistical simulation involves the generation of many stochastic realizations of a Gaussian random field that retains the spatial statistics of observations. These realizations are conditioned to observed data, meaning they exactly match observations. The ensemble of realizations quantifies uncertainty. This approach is often used to account for subsurface heterogeneity when modeling petroleum reservoirs (Pvrez and Deutsch, 2014), performing geophysical inversions (Nunes et al., 2012; Shamsipour et al., 2010; Volkova and Merkulov, 2019), and modeling groundwater hydrology (Feyen and Caers, 2006).

Despite this wide range of geological applications, many existing geostatistical modeling software are primarily intended for use in oil and mineral exploration applications. For example, T-PROGS (Carle, 1999) is intended for use with borehole data, and the Leapfrog geological modeling software is used almost exclusively in industry. The Geostatistics Software Library (GSLIB (Deutsch et al., 1992)) test cases are predominantly devoted to modeling porosity and permeability for oil reservoir modeling. While these tools were primarily tested on point measurements such as borehole data, many scientific applications now rely on large-scale airborne geophysical data sets, which typically consist of cross-cutting line surveys that are densely sampled in the along-track direction with large gaps in between survey lines. This data configuration can prove challenging for geostatistical interpolation. Furthermore, geophysical surveys, and remote sensing methods in particular, can generate extremely large volumes of data. This can be problematic for certain software, such as the Stanford Geostatistical Modeling Software (SGeMS, Remy (2005)) which becomes slow to operate and sometimes crashes when users upload large files. As such, many geostatistics software are not directly suited to the scale and nature of certain geophysical data interpolation problems.

The commercial nature of many geostatistics applications and software further restricts the use of geostatistics in academic and educational settings. Many geostatistical modeling software are locked behind a paywall. For example, Leapfrog and T-PROGS are proprietary and cost thousands of dollars per year (e.g. GMS, 2021). Leapfrog and SGeMS only work on Windows operating systems. GSLIB is written in FORTRAN, which has a limited user base compared to Python. These interoperability issues make it difficult to integrate geostatistical simulation with existing scientific workflows. Furthermore, many of these software are intended for use by trained experts and require the purchase of a companion textbook to learn the documentation (e.g. Deutsch et al., 1992; Remy et al., 2009). These accessibility issues create a barrier to producing open-access, reproducible workflows and fail to meet modern accessibility standards such as the FAIR principles (Findable, Accessible, Interoperable, Reusable, (Wilkinson et al., 2016)). Moreover, the restricted availability of geostatistics software limits its use in educational settings. As such, developments in open-access, user-friendly tools are critically needed for advancing the use of geostatistical simulation in open science and education.

Recently, a growing number of open-source geostatistical modeling tools have become available. This includes the gstat package in R (Pebesma, 2004), and the Python packages PyKrige (Murphy, 2014), GeostatsPy (Pvrez et al., 2021), SciKit-GStat (Mälicke, 2022), and GSTools (Müller et al., 2022). PyKrige provides tools for performing kriging

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interpolation, SciKit-GStat offers variogram modeling functions, GeostatsPy is a Python wrapper of some of the <https://doi.org/10.5194/egusphere.2022.1224> [GSEIB](#) functions. GS Tools provides a number of useful functions including tools for time-series analysis, data transformation, and interpolation. While these resources are important steps towards providing the scientific community with accessible geostatistics software and have significantly expanded the repertoire of geostatistics functions in Python, additional tools are needed for performing geostatistical simulation. In particular, existing Python tools are limited in their ability to accommodate non-stationary or variations in spatial statistics, incorporate secondary constraints, and perform interpolations with large conditioning data sets.

To address the aforementioned needs, we present GStatSim, a Python package for performing geostatistical interpolations and simulations. GStatSim enables the user to perform a variety of deterministic and stochastic interpolations in Python including various versions of kriging and sequential Gaussian simulation (SGS). GStatSim is intended to complement existing Python and geostatistics frameworks. While GStatSim does not include variogram modeling tools, it is designed to be compatible with existing variogram modeling packages such as SciKit-GStat, a robust variogram modeling toolkit with extensive documentation. In contrast to previous tools, GStatSim emphasizes interpolation, particularly conditional simulation. We provide new tools for accommodating non-stationarity or variability in spatial statistics. This package is intended to strike a balance between flexibility and ease of use. The tools are sufficiently deconstructed to allow for a variety of interpolation workflows, while also limiting the number of parameter selections that must be made. In contrast to previous software that are tested on point data sets, GStatSim was constructed with geophysical line data sets specifically in mind.

In addition to providing tools for scientific analyses, GStatSim is also intended to be an educational resource. We developed a Jupyter Book that contains a series of tutorials for reproducing the figures in this paper. These tutorials provide intuition on the different algorithms and guidance on parameter selection. This is intended to make GStatSim accessible to non-experts and reduce the amount of time needed to develop models.

In this paper, we demonstrate the different functionalities of GStatSim and compare it to existing packages such as GS Tools. We also provide a brief description of the underlying theory behind each function. The interpolation functions are demonstrated for the interpolation of ice-sheet bed elevation data measured by airborne ice-penetrating radar. Our goal is not to recommend a specific interpolation method for this case study; rather, we describe the implementation considerations and illustrate the advantages and limitations of each interpolation method. We provide an overview of the available user support and documentation. Finally, we discuss possible future directions for further enabling the widespread utilization of geostatistical simulation in academic disciplines.

2 Data

We apply the GStatSim functions to the interpolation of ice-penetrating radar measurements of subglacial topography in Greenland. Subglacial topography is a critical parameter in ice-sheet models (Parizek et al., 2013; Seroussi et al., 2017). For instance, modeled ice flow behavior and subglacial water routing models can be highly sensitive to the method used to interpolate measurements (MacKie et al., 2021; Wernecke et al., 2022; Law et al., 2023). We use bed elevation measurements

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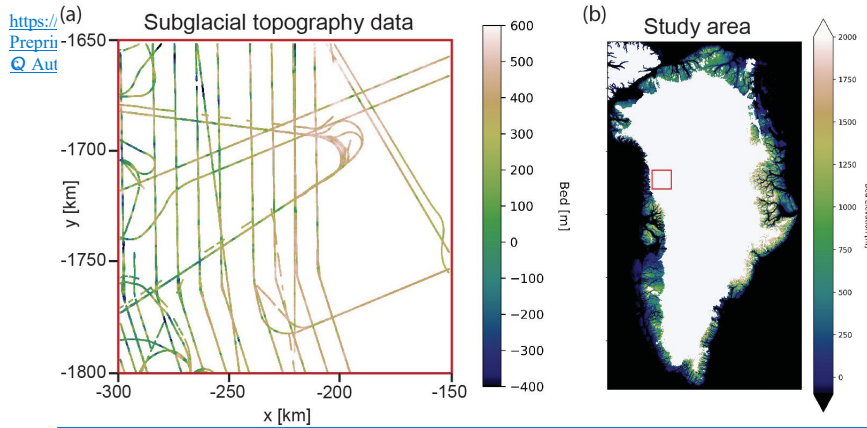


Figure 1. Ice-penetrating radar topography data for test region. The coordinates are shown in a polar stereographic projection.

from the Center for the Remote Sensing of Ice Sheets (CRaSI, 2022) over a 150x150 km² region in northwest Greenland (Figure 1). This location was chosen for the variability in line spacing (10-50 km), abundant crossover points, irregular survey orientations, and the presence of a large-scale trend. These conditions pose a challenge to interpolation, making this data set a good case study for testing the rigor of the GStatSim algorithms. For the multivariate applications we use ice surface elevation data from ArcticDEM (Porter et al., 2018) as a secondary source of information for constraining interpolations. We use the 500 m resolution version. The surface and bed elevation coordinates are transformed from geographic coordinates to polar stereographic coordinates using the National Snow and Ice Data Center (NSIDC) coordinate transformation tool (Torrence, 2019) so that Euclidean distances can be determined.

3 Interpolation with existing geostatistics tools

It was our original intent to test existing Python interpolation functions from PyKriging, GStatTools, and GeostatsPy on the aforementioned bed elevation data set in order to establish a baseline level of performance for comparison with GStatSim. However, the PyKriging and GStatTools kriging and conditional simulation routines crash when applied to our data set due to the high random access memory (RAM) consumption. We are also unable to produce a simulation result using GeostatsPy due to a 'singular matrix' error, which generally indicates that there is some sort of numerical instability. We discuss these limitations in more detail in Section 6.1. Only the GeostatsPy kriging function is successfully applied to this data set. The GeostatsPy kriging implementation and results are described in Section 4.3.3.

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Table 1. GStatSim interpolation functions.

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Function	Description
skrige	Simple kriging estimator
okrige	Ordinary kriging estimator
skrige_sgs	Sequential Gaussian simulation using simple kriging
okrige_sgs	Sequential Gaussian simulation using ordinary kriging
ccluster_sgs	Sequential Gaussian simulation using simple kriging, where different variograms are defined in different regions
cokrige_mm1	Co-kriging under Markov Model 1 (MM1) assumptions, uses secondary data as a constraint
cosim_mm1	Co-simulation under MM1 assumptions, uses secondary data as a constraint

Table 2. GStatSim accessory functions.

Function	Description
grid_data	Fits conditioning data to a grid of some specified resolution
prediction_grid	Makes an array of coordinates to be interpolated based on bounding coordinates and resolution
rbf_trend	Estimates the large-scale trend of the conditioning data using a smoothed radial basis function
adaptive_partitioning	Breaks conditioning data into blocks based on the density of measurements
find_colocated	Finds the co-located primary and secondary data points for performing co-kriging and co-simulation

105 4 GStatSim functions and implementation

GStatSim can be used with Python 3.0-3.10, and relies on commonly used packages such as `scipy` (Virtanen et al., 2020), `numpy` (Harris et al., 2020), `pandas` (McKinney et al., 2010), and `scikit-learn` (Pedregosa et al., 2011). This ensures that GStatSim is easy to use in different computing environments. The source code is written in accordance with PEP8 standards (Van Rossum et al., 2001), making it interpretable and easy to modify.

110 4.1 Data initialization

Prior to performing any geostatistical analysis, we fit the bed elevation data to a 1 km resolution grid using the GStatSim `grid_data` function which averages values within each grid cell. We do this because the interpolation examples shown in this paper use a 1 km resolution. This way, the spatial statistics of the data will be compatible with the interpolation grid. This gridded data set has 3,650 data points. In order to satisfy the Gaussian assumptions of our interpolation functions, we convert our data to a standard Gaussian distribution using the `scikit-learn` `QuantileTransformer` function. This step converts the data to a standard Gaussian distribution (mean = 0, variance = 1), shown in Figure 2. It is not strictly necessary

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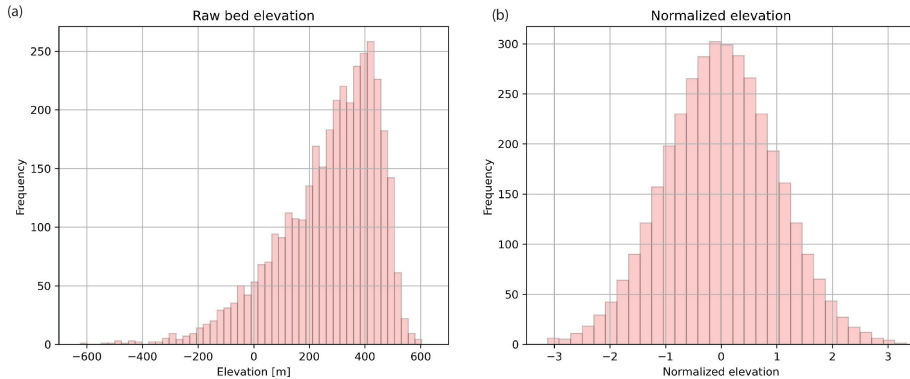


Figure 2. (a) Original data distribution. (b) transformed data with a standard Gaussian distribution.

for data to be Gaussian when using GStatSim. However, the interpolation results will be more robust if a Gaussian distribution is used.

4.2 Variogram calculation and modeling with SciKit-GStat

120 The interpolation functions in GStatSim rely on the variogram, which describes spatial statistics by quantifying the covariance between data points as a function of their separation distance, or lag (Matheron, 1963). The experimental variogram $\gamma(h)$ is defined as the averaged squared differences of data points separated by a lag distance h :

$$\hat{\gamma}(h) = \frac{\sum_{\alpha=1}^N (Z(u_{\alpha}) - Z(u_{\alpha} + h))^2}{2N(h)} \quad (1)$$

125 Where Z is a variable, u is a spatial location, and $N(h)$ is the number of pairs of data points for a lag h . Typically, the variance increases with lag distance until a threshold is reached where measurements are no longer spatially correlated. This threshold is called the *sill*, which is, in theory, equal to one for normalized data sets. The lag distance where the variogram reaches the sill is called the *range*.

130 GStatSim does not include variogram estimation tools as there are already existing resources (e.g. SciKit-GStat). Our interpolation functions are designed to be integrated with outside variogram modeling tools. We perform our variogram analysis with the SciKit-GStat functions, which offer robust tools for variogram estimation and modeling. We compute both the isotropic and anisotropic variograms. The anisotropic variogram computes the variogram for different angles from horizontal. Figure 3 shows that the data does not contain significant anisotropy. While the anisotropic variograms do exhibit

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some disagreement at lags greater than ~35 km, these differences can be attributed to regional trends in the topography. Additionally, the first part of the variogram with small lags is more important than the tail distributions when it comes to calculating the kriging weights used for interpolation. As such, only the isotropic variogram is used for the variogram modeling analysis.

In order to use the variogram for interpolation, a variogram model must be fit to the experimental variogram. GStatSim can currently accommodate exponential, Gaussian, and spherical variogram model types. The exponential model is as follows:

$$\gamma_{Exp}(h) = \begin{cases} 0 & \text{if } h = 0 \\ b + (C_0 - b) \cdot 1 - e^{-\frac{3h}{a}} & \text{if } h > 0. \end{cases} \quad (2)$$

where a is the range parameter, C_0 is the sill, and b is the nugget. The nugget describes the variance at near zero lags, which is often the result of measurement error. In most cases, the nugget is zero. The Gaussian model is

$$\gamma_{Gauss}(h) = \begin{cases} 0 & \text{if } h = 0 \\ b + (C_0 - b) \cdot 1 - e^{-\frac{3h^2}{a^2}} & \text{if } h > 0, \end{cases} \quad (3)$$

and the spherical model is

$$\gamma_{sph}(h) = \begin{cases} 0 & \text{if } h = 0 \\ \frac{b + (C_0 - b)(1.5 * \frac{h}{a} - 0.5 * (\frac{h}{a})^3)}{C_0} & \text{if } 0 < h \leq a \\ C_0 & \text{if } h > a. \end{cases} \quad (4)$$

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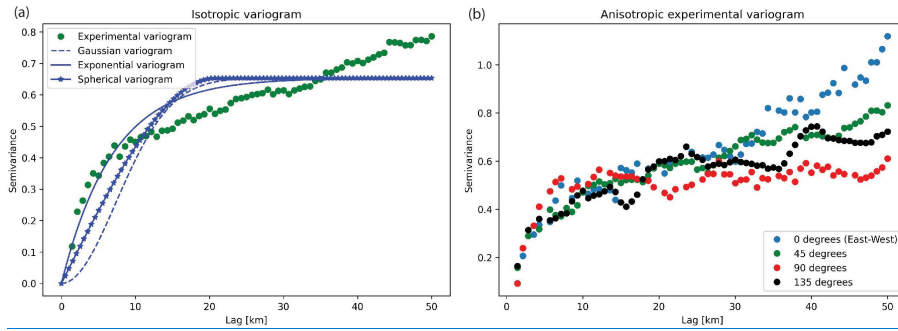


Figure 3. (a) Isotropic experimental variogram and variogram model. (b) Anisotropic variogram.

$$Z^*(u_i) = Z(u_i) - m(u_i). \quad (5)$$

In cases where the mean is constant, m is treated as a global mean. Each interpolated value Z^* at a location u_i is the weighted sum of neighboring measurements:

$$Z^*(u_0) = \sum_{i=1}^N \lambda_i Z(u_i), \quad (6)$$

where λ_i are the weights on the N data points. These weights account for the variability of the measurements, their proximity to each other and the node being estimated, and the redundancy between nearby measurements. Specifically, the weights are determined by solving the kriging system of equations which, for a system with three data points, would look like:

$$\begin{bmatrix} C(u_1-u_1) & C(u_1-u_2) & C(u_1-u_3) & \lambda_1 & C(u_0-u_1) \\ C(u_2-u_1) & C(u_2-u_2) & C(u_2-u_3) & \lambda_2 & C(u_0-u_2) \\ C(u_3-u_1) & C(u_3-u_2) & C(u_3-u_3) & \lambda_3 & C(u_0-u_3) \end{bmatrix} = \begin{bmatrix} c \\ c \\ c \end{bmatrix} \quad (7)$$

which can be abbreviated to

$$C'_{\lambda} = c \quad (8)$$

where C describes the covariance between pairs of data points, and c describes the covariance between each data point and the location that is being estimated, u_0 . Note that the covariance is linked to the variogram:

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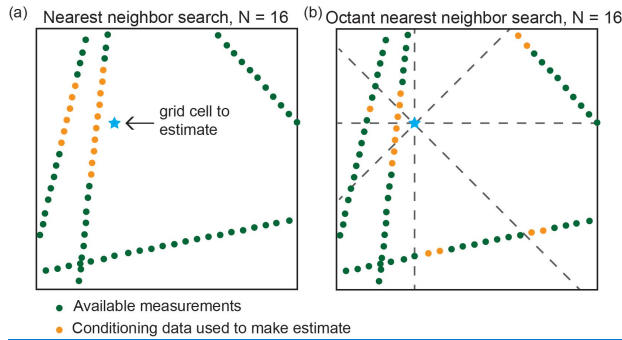


Figure 4. When measurements are gathered along line surveys, a simple nearest neighbor search (a) may result in estimates being skewed towards values on one side. The octant nearest neighbor search (b) used in GStatSim ensures that the conditioning data surrounds the coordinate being estimated, which minimizes this bias in interpolations.

4.3.2 Covariance matrix inversion

195 According to Equation 8, solving for the kriging weights λ requires the inversion of the covariance matrix C :

$$\lambda = C^{-1}c. \tag{12}$$

However, C is not always a positive definite matrix, meaning that C^{-1} cannot be computed. This is especially common for complex scenarios such as ice-penetrating radar data sets which often contain overlapping and conflicting measurements. The matrix singularity issue can be resolved by computing the pseudo-inverse, C^+ instead. However the pseudo-inverse requires a time-consuming singular value decomposition with a run-time that scales by $O(n^3)$ with data input size, making it an impractical choice for applications with large data sets. For improved performance, we use the `scipy.linalg.lstsq` function, which computes the least-squares solution to the equation $Ax = b$. Solving for the weights with `lstsq` instead of computing the matrix inversion directly lends greater numerical stability to the interpolation functions. Therefore, all functions in GStatSim involving covariance matrix inversions are implemented using `lstsq`.

205 4.3.3 Kriging implementation and results

We implement simple kriging and ordinary kriging using the `GStatSim` `skrige` and `okrige` functions, respectively. The input parameters for these functions are the conditioning data, search radius, number of conditioning points, variogram parameters, and a list of coordinates that describe the prediction grid. We use a search radius of 50 km and 100 conditioning points. For convenience, `GStatSim` includes a `prediction_grid` function that automatically generates a list of coordinates defined

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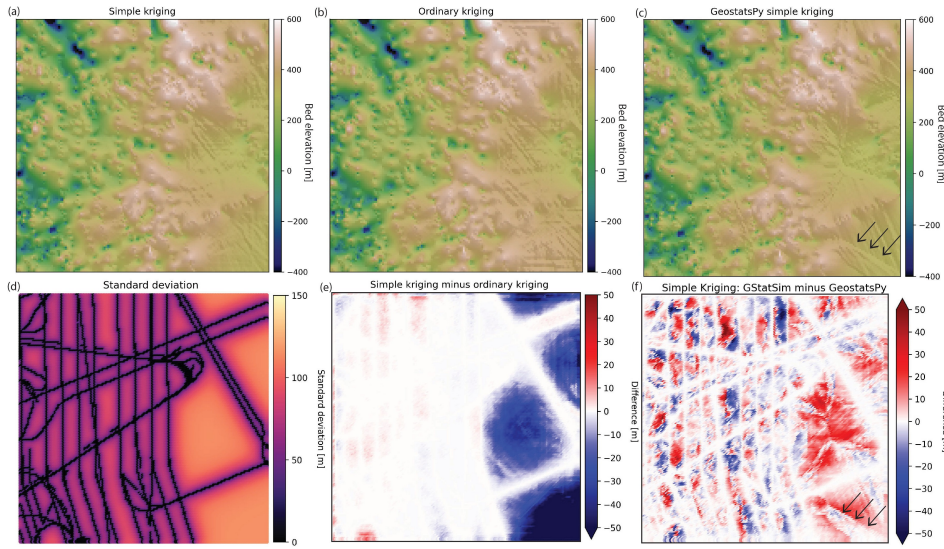


Figure 5. (a) Simple kriging (b) ordinary kriging interpolations using GStatSim. (c) Simple kriging interpolation using GeostatsPy. (d) Standard deviation for the simple kriging estimate from (a). (e) Difference between simple and ordinary kriging. (f) Difference between GStatSim and GeostatsPy simple kriging. The black arrows highlight an artifact in the GeostatsPy interpolation that is likely caused by using a simple nearest neighbor search (Figure 4).

by the minimum and maximum coordinate extents and the grid cell resolution. After GStatSim interpolation is applied, the kriging estimates are back-transformed using the scikit-learn QuantileTransformer function so that the original data distribution is recovered. For comparison, we also perform simple kriging using the GeostatsPy kb2d function.

The GStatSim kriging results (Figure 5) show that the right side of the ordinary kriging estimate has a slightly higher (~10s of meters) elevation than the simple kriging estimate. This is because ordinary kriging does not assume that the mean is constant. The GStatSim and GeostatsPy simple kriging estimates are visually similar but differ by 10s of meters throughout the domain. The black arrows in Figure 5c and 5f highlight a visible seam in the GeostatsPy interpolation. This seam is located along grid cells that are equidistant from conditioning lines and may be the result of using a simple nearest neighbor search (Figure 4).

To investigate the spatial statistics of kriging interpolation, we compute the variogram for the GStatSim simple kriging estimate. The resulting variogram, shown in Figure 6a has substantially lower variances than the experimental variogram de-

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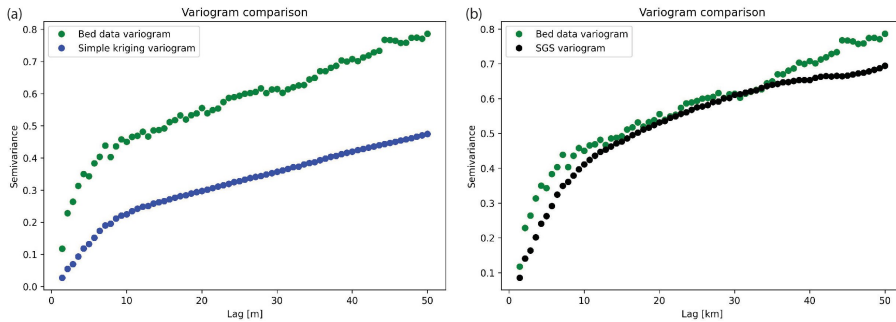


Figure 6. (a) Variogram for simple kriging estimate from Figure 5a. (b) Variogram for SGS Realization #1.

ived from the data. This difference highlights an important limitation of kriging interpolation: the variogram is not reproduced, making the interpolated values smoother than observations.

4.4 Sequential Gaussian simulation

In contrast to kriging, sequential Gaussian simulation (SGS) is designed to preserve the variance of observations. SGS is the stochastic alternative to kriging. In contrast to kriging where the objective is to optimize local accuracy, SGS is used to generate multiple realizations that reproduce the variogram statistics (e.g. Deutsch et al., 1992). The implementation of SGS, described in Figure 7, is:

1. Define a random simulation order in which to visit each node.
2. At each node, u , use kriging to estimate the mean $Z^*(u)$ and variance, $\sigma_A^2(u)$.
3. Randomly sample from the Gaussian distribution defined by $Z^*(u)$ and $\sigma_A^2(u)$. This becomes the simulated value at that node.
4. Proceed to the next node and repeat steps 2 and 3 until all nodes have been simulated.

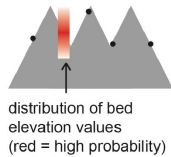
GStatSim has two different SGS functions, `okrige_sgs` and `skrige_sgs` which use ordinary kriging and simple kriging for Step 2, respectively. The results are unlikely to differ significantly between these two methods, but `okrige_sgs` may be more robust when large-scale trends are present. The input parameters are the same as those used for the `skrige` and `okrige` functions. We simulate four realizations using `okrige_sgs` using the same input parameters as in Section 4.3.3. To evaluate the ability of SGS to reproduce the spatial statistics of observations, we compute the variogram for realization #1

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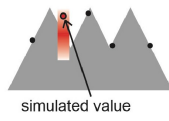
1) Randomly select a grid cell to simulate



2) Use kriging to estimate mean and variance



3) Sample from this distribution to simulate a value



4) The simulated value becomes part of the conditioning data. Repeat steps 1-4

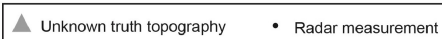
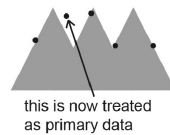


Figure 7. Schematic of SGS. This figure is modified from MacKie et al. (2021), which was published under a Creative Commons Attribution license (<https://creativecommons.org/licenses/by/4.0/>).

(Figure 6), The variogram of the simulated topography matches the variogram of observations. The realizations are shown in Figure 8. Each realization matches the conditioning data and represents an equally probable solution.

240 4.5 Interpolation with different variogram models

GStatSim can perform interpolations using the exponential, Gaussian, or spherical variogram models, as described in Section 4.2. In this section, we demonstrate how interpolations differ when using different variogram model types. We generate a synthetic conditioning data set of 100 points using the unconditional Gaussian field tools in GStools (Figure 9a). We use a variance of 2 and length scale of 8. While the true variogram for the synthetic is data, we perform interpolations using different variogram models for demonstration purposes. We compute the experimental variogram and fit Gaussian, exponential, and spherical variogram models (Figure 9b). Then we perform both simple kriging interpolation and SGS with each variogram model. The results, shown in Figure 9, show that the Gaussian model produces the SGS realization with the smoothest spatial structure and lowest kriging variance. The exponential model produces the roughest SGS topography and highest kriging variance, and the spherical model falls in the middle. These different model types allow GStatSim to accommodate different types of spatial structures.

250 4.6 Interpolation with anisotropy

Geologic phenomena frequently exhibit anisotropy in their spatial statistics. For example, preferential erosion can cause subglacial topography to be smoother in the direction that is parallel to ice flow (MacKie et al., 2021). The GStatSim interpolation functions can account for this anisotropy by accepting major and minor range parameters. The major range is the range

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SGS to reproduce the spatial statistics of observations, we compute the variogram for realization #1 (Figure 5).

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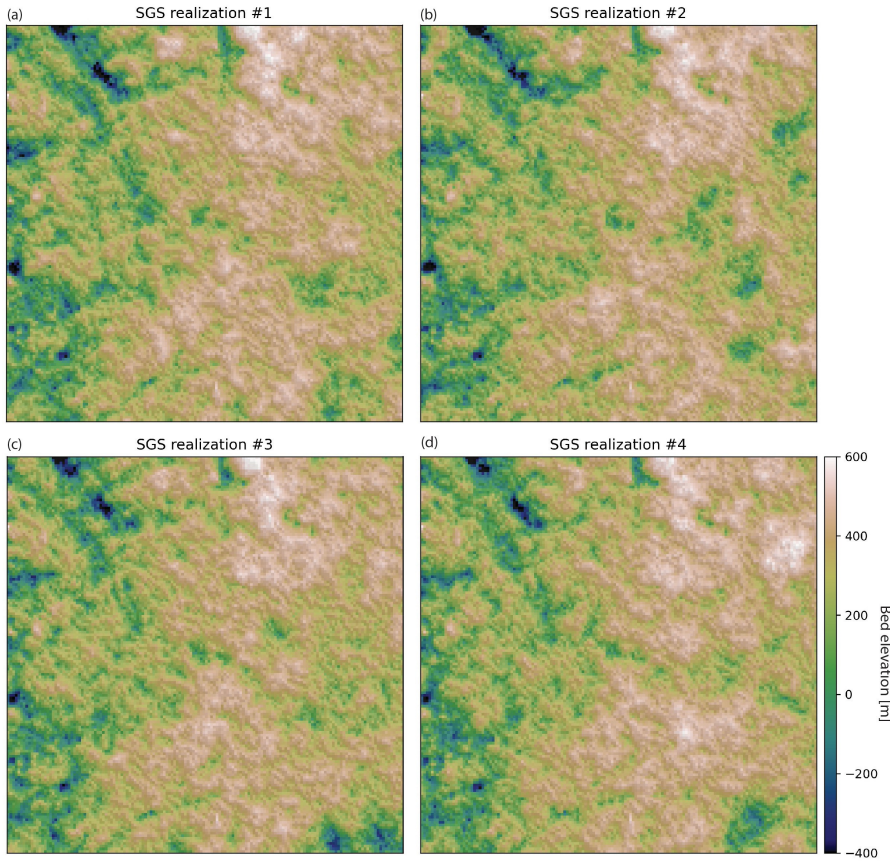
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Figure 8.4 (a-d) SGS realizations generated with okrige_SGS.

255 of the variogram in the smoothest (major) direction. And the minor range is the range of the variogram in the minor direction, which is orthogonal to the major direction. Not all pairs of data points are oriented along the major or minor orientations, so the range is treated as the radius of a rotated ellipse where the major and minor ranges are the lengths of each axis, and the degree

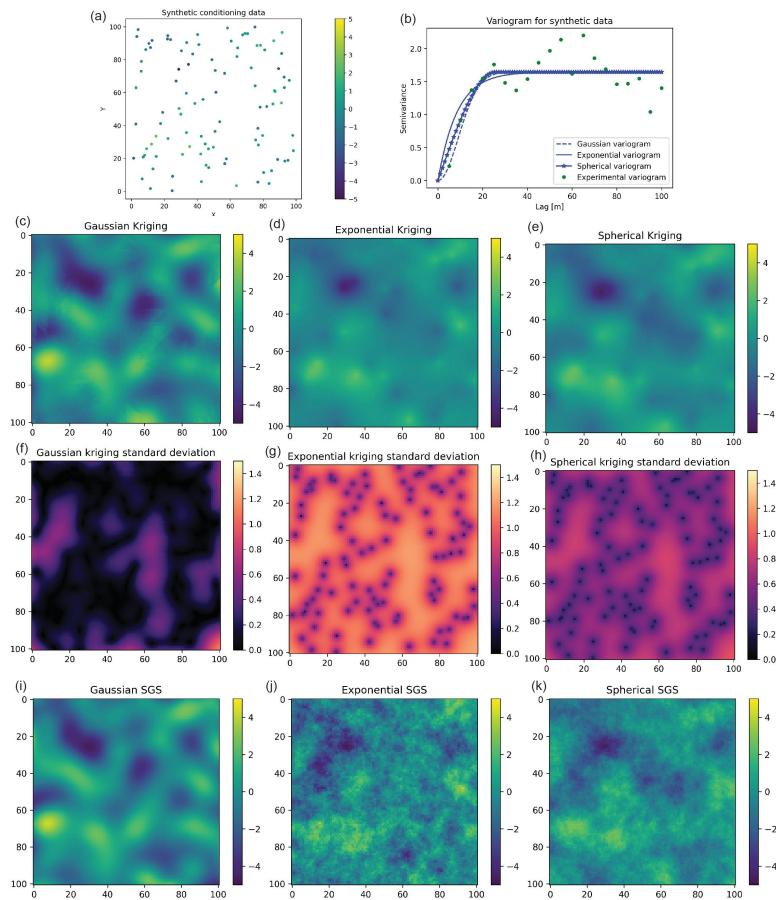


Figure 9 Interpolation comparison using different variogram models. Synthetic conditioning data (a), variograms (b), kriging interpolation (c-e), kriging uncertainty (f-h), and SGS (i-k).

of rotation is determined by the angle of anisotropy. The major angle orientation is defined as the angle from zero (horizontal)

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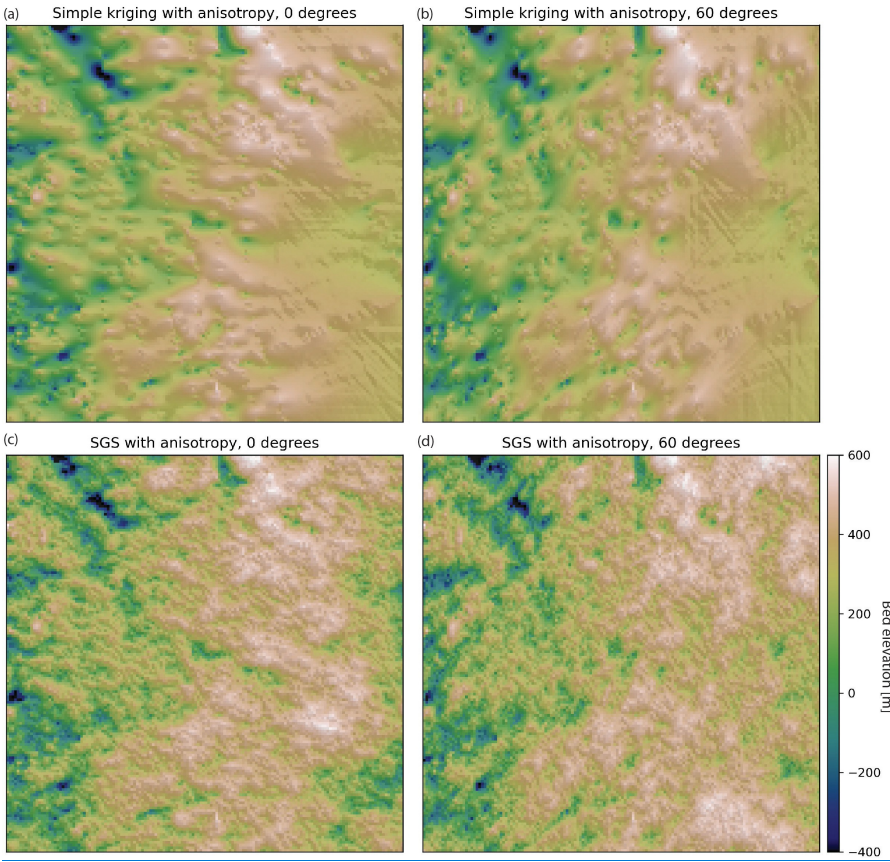


Figure 10. (a) Simple kriging with anisotropy at 0 degrees. (b) Simple kriging with anisotropy at 60 degrees. (c) SGS with anisotropy at 0 degrees. (d) SGS with anisotropy at 60 degrees.

of the major direction. In practice, these parameters can be determined by modeling the variogram in multiple directions and determining the major angle through visual inspection.

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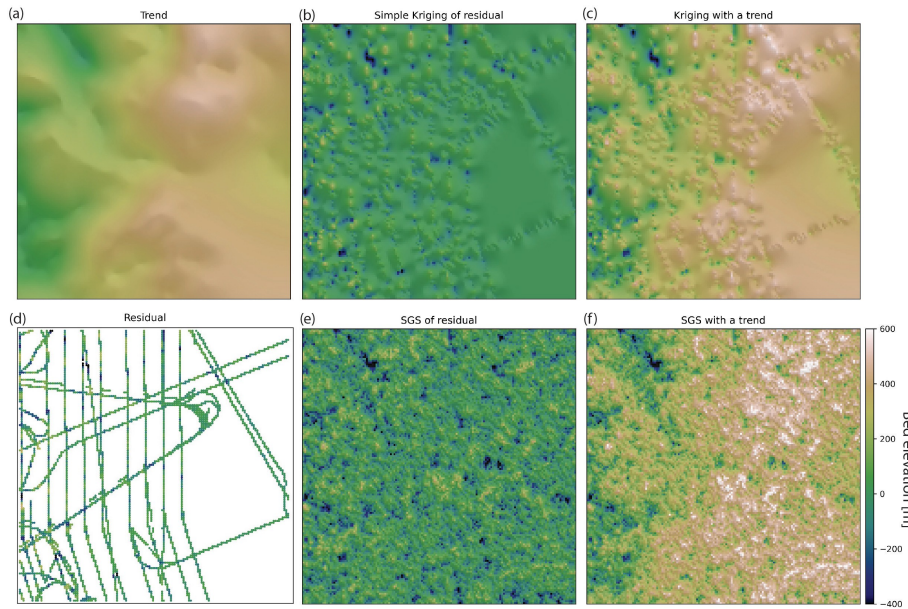


Figure 11. (a) Trend estimate, (b) Simple kriging of detrended data, (c) The simple kriging estimate from (b) added to the trend from (a), (d) The residual bed elevation data after the trend is subtracted from the data, (e) SGS applied to the detrended data, (f) The SGS interpolation from (e) added to the trend from (a).

To demonstrate the implementation of interpolation with anisotropy, we perform simple kriging and SGS with anisotropy for angles of 0° and 60° . We use the modeled variogram parameters from previous sections (nugget = 0, range = 31.9 km, sill = 0.7). We use 31.9 km as the minor range and set the major range to be 15 km greater than the minor range for exaggerated effect. These interpolations (Figure 10) have clearly visible anisotropy.

265 4.7 Mean non-stationarity

Data sets often contain variations in spatial statistics, a condition known as non-stationarity. Mean non-stationarity occurs in the presence of a large-scale trend or systematic changes across a study area. While ordinary kriging can accommodate variations in the mean, to some extent, it does not extrapolate well (Journel and Rossi, 1989). For this reason, it is sometimes convenient to detrend the data prior to variogram modeling and interpolation. This approach is known as kriging (or SGS) with

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270 a trend, or universal kriging. Detrending has the additional advantage of producing residual data that more closely represents a random Gaussian process, which makes the variogram modeling more robust. In contrast, data with a strong trend can yield an experimental variogram that never reaches an obvious sill, making it difficult to fit a variogram model.

Here we demonstrate kriging and SGS with a trend (Figure 11). This is achieved by:

1. Estimate the trend.
- 275 2. Subtract the trend from the data to obtain residual measurements.
3. Apply a normal score transformation to the residual data.
4. Conduct a variogram analysis on the transformed residual measurements.
5. Interpolate the residuals.
6. Back-transform the interpolation to recover the original data distribution.
- 280 7. Add the back-transformed interpolation to the trend.

While it is common practice to estimate the trend by fitting a linear or polynomial function to the data (e.g. Neven et al., 2021), determining higher-order polynomial models for complex landscapes can be difficult. Instead, we estimate the trend using a radial basis function (RBF), which is a function that changes with distance from a location, such as a thin-plate spline or Gaussian function. RBFs measure the distance between input values and a center point, assigns weights based on these distances, and combines these weights to produce an output value (Broomhead and Lowe, 1988). The RBF trend estimation was implemented using the GStatSim rbf trend function, which relies on the scipy RBF implementation, rbf trend uses a multiquadric kernel as its RBF, which is known for its high accuracy and flexibility (Franke, 1982; Sarra and Kansa, 2009). The rbf trend function input parameters are the conditioning data, the grid cell resolution, and a smoothing factor. The smoothing factor ensures that the trend is not overfitting to measurements. The smoothing parameter should be at least as large as the largest data gap. We use a smoothing factor of 100 km.

290 To evaluate the performance of the detrended SGS approach, we compute the experimental variogram for residual data (Figure 11d) and the residual SGS (Figure 11e). The variograms, shown in Figure 12, show close agreement between the spatial statistics of the residual measurements and simulation. Note that both variograms reach a sill of 1, in contrast to the variogram for the data without detrending (Figure 6). According to the theoretical definition of the variogram (Equation 2), data with a standard Gaussian distribution should reach a sill of 1. As such, the detrended data can often be better suited to variogram based interpolation.

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4.8 Variogram non-stationarity

Variogram non-stationarity describes the condition when the variogram statistics vary throughout a domain. For example, the topographic roughness varies throughout Greenland (Cooper et al., 2019). To handle these cases, GStatSim includes a

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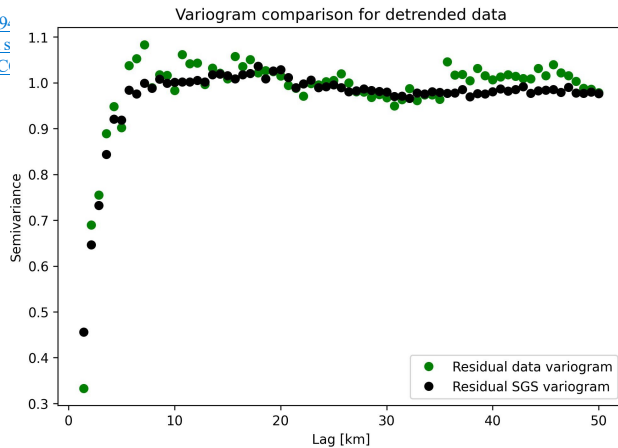


Figure 12. Variogram for detrended data from Figure 11d and simulation of trend from Figure 11e. These variograms have a sill of 1, which is the theoretical sill for standard Gaussian data.

`cluster_sgs` function, where the user can assign different variograms to different areas. It is implemented by partitioning the data into different clusters, and then computing the variogram for each cluster. To simulate a grid cell:

1. Choose a random grid cell.
2. Find the nearest neighbor value. Look up the cluster number of the nearest neighbor point.
3. Using the variogram parameters associated with the cluster of the nearest point, simulate a value with SGS.
4. Assign the nearest neighbor cluster number to the simulated value.
5. Repeat until each grid cell is simulated.

This process ensures that the boundaries between different clusters vary for each realization. `cluster_sgs` takes the same inputs as SGS as well as the cluster numbers for each data point, and a dataframe with the variogram parameters for each cluster. Users can use any method they like to partition the data into different clusters. In the next subsections, we outline two approaches.

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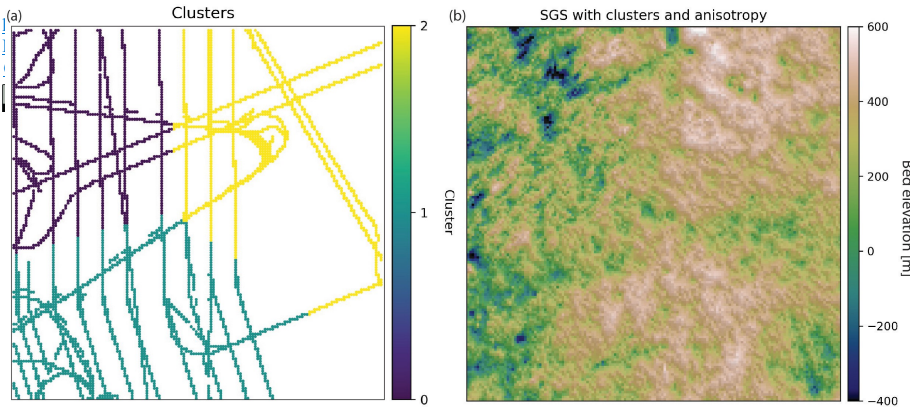


Figure 13. (a) K-means clustering of conditioning data. (b) SGS using different variogram parameters for each cluster.

4.8.1 K-means clustering approach

One of the simplest ways to cluster data is with k-means clustering, where the data is partitioned into k clusters such that the average squared sum of distances from the center within each cluster is minimized. We apply k-means clustering to the conditioning data and determine three clusters based on the coordinates and bed elevation (Figure 13a). The justification for using these parameters is that data points that are geographically close to each other and have similar elevation values should have similar spatial statistics. We use a k of 3, which was chosen arbitrarily for demonstration purposes. In real applications, external information or domain expertise may be used to inform the clustering decision.

We apply the variogram analysis to the data in each cluster separately using the procedure described in Section 4.2. To make the differences between clusters more pronounced, we manually modify several of the variogram parameters to exaggerate the differences in spatial statistics for visualization purposes. Clusters 0 and 2 are assigned angles for anisotropy (45° for Cluster 0 and 90° for Cluster 2). The minor ranges for Clusters 0 and 2 are assigned based on the automatic variogram modeling. The major ranges are set by adding 15 km to the minor ranges. Cluster 1 is given a sill of 0.6, and clusters 0 and 2 are assigned sills equal to 1. The `cCluster_sgs` simulation using these parameters produces visible differences in spatial statistics throughout the domain. For example, the anisotropy is clearly visible in the region defined by Cluster 0 (Figure 13b). Despite the extreme differences in parameters used for each cluster, the cluster boundaries do not have artifacts or inconsistencies.

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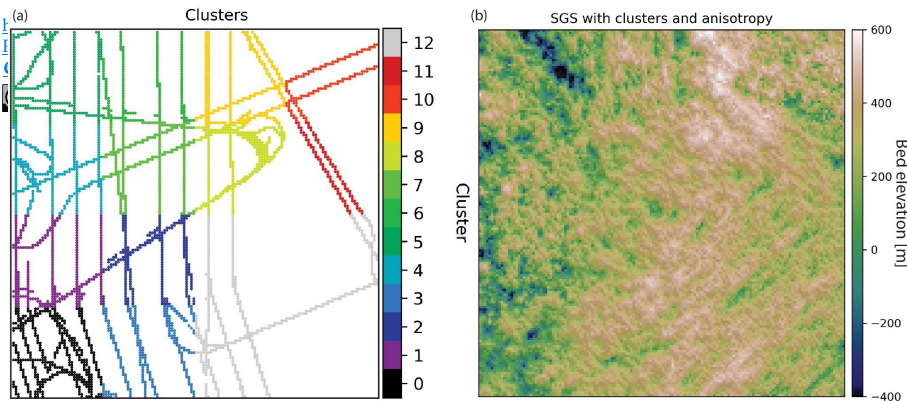


Figure 14. (a) Clusters derived from density-based adaptive partitioning function. (b) SGS using a different variogram in each cluster.

4.8.2 Adaptive partitioning

The k-means clustering approach described above provides a simple approach to partitioning the data, but the decision boundaries can seem arbitrary and result in clusters with widely varying sample counts. To overcome these challenges we present a recursive implementation of a divisive, density-based clustering approach we call Adaptive Partitioning. A similar approach was used in Yin et al. (2022). The algorithm begins by treating the dataset as a single cluster, and quartering this cluster into four rectangles of equal area. For each subsequent cluster, the areal extent of the cluster continues to be quartered until the number of data samples contained within the cluster is below the maximum number of samples allowed or the minimum cluster size has been reached. GStatSim implements this as a fully recursive function named adaptive partitioning with primary parameters *max_points* which controls the maximum points allowed in a cluster and *min_length*, which controls the minimum side length of a cluster. It may take tuning of these two parameters to produce a desirable partitioning, including adjusting *max_points* to create clusters of adequate sizes given the measurement density, *min_length* should be greater than the expected variogram range to ensure that there is sufficient data to accurately model the variogram parameters. Figure 14a shows the clusters resulting from adaptive partitioning with *max_points* of 800 and *min_length* of 25 km.

The variogram parameters for each cluster are modeled automatically and then modified to show exaggerated differences between clusters. Cluster 1 is modified to have a sill of 0.6, Clusters 6 and 12 are given 90° and 45° directions of anisotropy, respectively, with major ranges that are determined by adding 15 km to the modeled range. These regional differences in variogram parameters are apparent in the resulting simulation in Figure 14.

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4.9 Co-kriging and co-simulation

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Preprint. Discussion started 18 November 2022

Secondary information can be integrated into interpolations via co-kriging and co-simulation, where a well-sampled secondary

variable is used to constrain the interpolation of a sparsely-sampled primary variable. For example, if the ice surface elevation

(Figure 2a) is found to be correlated with the subglacial bed elevation, then the ice surface can be used to improve the

interpolation. We note that the ice surface and subglacial topography are unlikely to be linearly related (Ng et al., 2018); this

example is merely intended to demonstrate the usage of our co-kriging and co-simulation tools. In theory, co-kriging and co-

simulation are implemented by modeling the variogram for each variable and a cross-variogram that describes the covariation

between the variables. In practice, the full co-kriging system of equations is difficult to solve so approximations are used

instead (Almeida and Journel, 1994; Journel, 1999).

While there are several different ways to implement co-kriging (Journel, 1999), GStatSim only includes functions for co-

located co-kriging under Markov Model 1 (MM1) assumptions, as described by Almeida and Journel (1994). This version was

chosen for its simplicity; expert geostatistics knowledge is not needed to use this algorithm. Co-located co-kriging means that

an estimate is made using only the secondary data point that is *co-located* with, or at the same location as, the grid cell being

estimated. This significantly reduces the number of conditioning data points that are used to estimate each grid cell. Co-kriging

with MM1 approximates the cross-variogram through a Markov assumption of conditional independence. It is assumed that a

secondary data variable Z_2 at a location u is conditionally independent of the primary variable Z_1 at a location of u' , given

$Z_1(u)$. u' refers to a spatial location that is not u . This statement of conditional independence is written as:

$E(Z_2(u)|Z_1(u), Z_1(u'), Z_1(u)) = E(Z_2(u)|Z_1(u))$.

where E refers to the expected value. In the geostatistics community, this Markov assumption is referred to as Markov Model

1 (Almeida and Journel, 1994). See Journel (1999) and Shmaryan and Journel (1999) for other cokriging models. In the case

where the ice surface elevation is used as a secondary constraint, MM1 means that the expected value of the ice surface at a

location u , given knowledge of the bed elevation at location u , is independent of the bed elevation value at other locations. Under

MM1 assumptions, the cross-correlogram describing the covariation between the primary and secondary variables is calculated

as

$$\rho_{12}(h) = \rho_{12}(0)\rho_1(h) \quad (13)$$

where h is the lag distance and ρ is the correlogram, calculated by:

$$\rho(h) = 1 - \gamma(h) \quad (14)$$

assuming that $\gamma(h)$ is the normal scores variogram. While the variogram measures spatial covariance, the correlogram measures

spatial correlation. This means that $\rho_{12}(0)$, the correlogram at a lag distance of zero, is simply the correlation

between the primary and secondary variables.

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as

$$\rho_{12}(h) = \rho_{12}(0)\rho_1(h) \quad (14)$$

where h is the lag distance and ρ is the correlogram, calculated by:

$$\rho(h) = 1 - \gamma(h) \quad (15)$$

assuming that $\gamma(h)$ is the normal scores variogram. While the variogram measures spatial covariance, the correlogram measures

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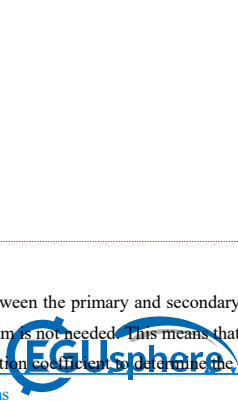
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coefficient between the primary and secondary variables. Because the cross-covariance between the primary and secondary data relies only on the correlation coefficient and primary variogram, the secondary variogram is not needed. This means that co-kriging and co-simulation with MM1 only require the primary variogram and the correlation coefficient. See also the

weights. The simple co-located co-kriging estimate $Z^*(u_0)$ at a location u_0 is defined as

$$Z^*(u_0) = \sum_{i=1}^N \lambda_i Z_1(u_i) + \lambda_2 Z_2(u_0), \quad (16)$$

where λ_i are the weights on the N primary data points, $Z_2(u_0)$ is the co-located secondary datum, and λ_2 is the weight for the secondary datum. This means that the co-kriging estimate of a bed elevation value is the weighted sum of bed elevation data points within a specified search radius and the co-located ice surface elevation datum. The variance is computed using equation 11. Co-SGS is implemented in the same way as SGS, except that Equation 16 is used instead of Equation 6.

To implement co-kriging and co-SGS, we use the variogram model parameters from Section 4.2 and compute the correlation coefficient, $\rho_{12}(0)$, between the bed elevation measurements and co-located ice surface elevation. For convenience, we developed a `find_colocated` function that extracts the co-located data points from the secondary variable (Figure 15b). $\rho_{12}(0)$ was determined to be 0.6. The interpolations are performed using the `GStatSim cokrige_mm1` and `cosim_mm1` functions. These functions require the same input parameters as `skrige`, `okrige`, `skrige_sfs`, and `okrige_sfs` with the addition of $\rho_{12}(0)$ and the secondary data set.

The co-kriging and co-SGS results are shown in Figure 15. Compared to the previous kriging and simulation examples, these interpolations produce visibly higher elevation topography on the right side of the region. This is due to the correlation with the ice surface. To evaluate the simulation performance, we compute the correlation coefficient between the ice surface elevation (Figure 15a) and co-simulated bed elevation (Figure 15d). This correlation coefficient is found to be 0.7, which is greater than the correlation coefficient of the co-located data, 0.6. This inflated correlation between the primary and secondary data is a known issue with MM1 (Shmeryan and Journel, 1999). Co-simulation with MM1 is also known to produce interpolation artifacts (MacKie et al., 2021) and artificially high variance (Journel, 1999). This is because the MM1 assumption screens out the influence of the primary data on the secondary data, except at the location u_0 , which can lead to the underestimation of the redundancy between the primary and secondary variables. For this reason, MM1 is most effective in situations where the primary variable is smoother than the secondary variable, which is not the case in our example. As such, it is important to check the statistics (variogram and correlation) of simulations produced with `cosim_mm1` to ensure that this method is used appropriately.

5 Tutorials and documentation

Each of the previous interpolation examples can be reproduced in tutorials found in the GStatSim GitHub page (https://github.com/GatorGlaciology/GStatSim), Jupyter Book (https://gatorglaciology.github.io/gstatsimbook/intro.html), or

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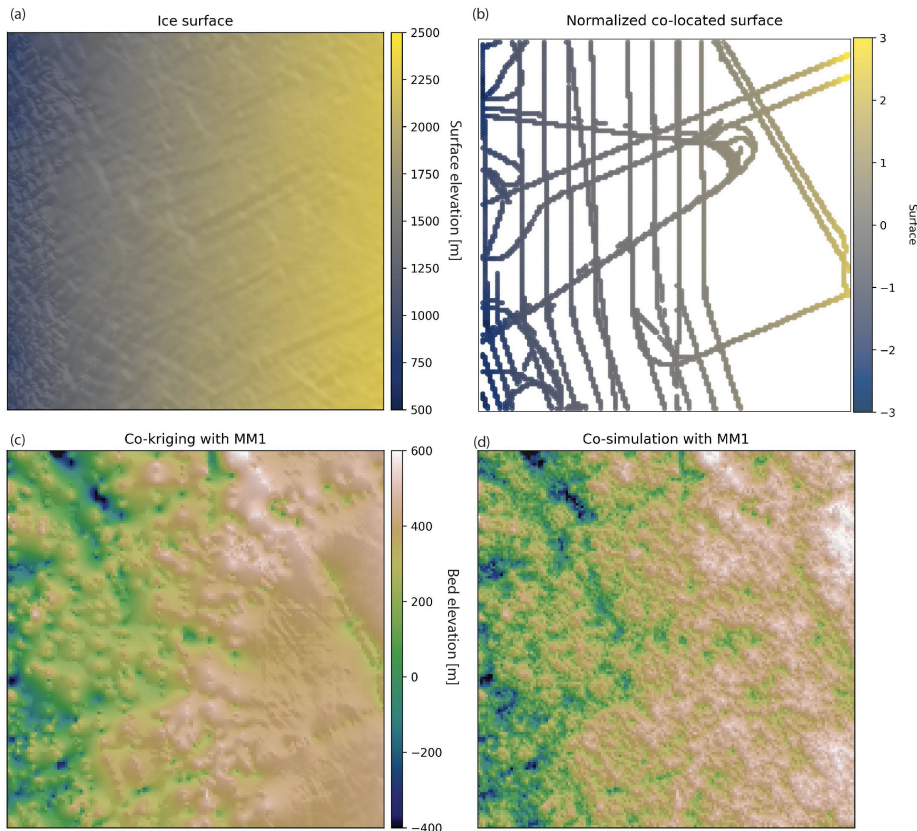


Figure 15. (a) Ice surface elevation data. (b) Normalized ice surface elevation measurements that are co-located with radar measurements. (c) Co-kriging interpolation. (d) Co-simulation.

Zenodo repository (<https://doi.org/10.5281/zenodo.7274640>). These tutorials can be downloaded as Jupyter Notebook files and are intended to enhance educational pathways to geostatistics.

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6 Installation, licensing, and redistribution

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GStatSim is added to the Python Package Index, commonly known as PyPi, and can be installed via the `pip install gstat` command. It can also be installed directly from GitHub with `git clone https://github.com/Gaop/Glaciology/GStatSim`. This package has an MIT license making it free to use and redistribute without restriction.

6.1 Discussion

Many existing geostatistical software are not open-source or directly suited to large-scale remote sensing problems. For example, we found that GStools was unable to perform conditional interpolations for our topography case study due to the large RAM requirements, making it an impractical choice for applications with large conditioning data sets. Similarly, the GeostatsPy simulation crashed due to a numerical instability. While it is certainly possible that these issues can be attributed to user error, they highlight the need for an open-source geostatistics package that is specifically tested on large-scale line surveys.

The GStatSim package provides an accessible, robust alternative to existing software. The functions in this package are efficient and effective at large scales. Additionally, the octant search can mitigate interpolation bias when line data is used. GStatSim relies on existing packages (e.g. SciKit-GStat) where possible and can easily be integrated with existing Python tools and scientific analyses. The tutorials and documentation provide ample scaffolding for users without prior geostatistics experience. This will encourage the utilization of geostatistical simulation in new scientific domains and enhance educational pathways in geostatistics.

The bed topography interpolation examples show many different ways to interpolate the same data set, each with different assumptions, advantages, and limitations. We do not make a recommendation for using one interpolation method over others. In practice, the optimal interpolation method or combination of methods will depend on the structure of the data and the scientific objectives for a specific problem. For example, kriging methods are best if local accuracy is desired, while SGS should be used if the goal is to preserve the heterogeneity of a given geological parameter. The `cluster_sgs` function is advantageous for enabling variations in the spatial statistics of simulated phenomena. In practice, expert domain knowledge will be needed to select the best clustering approach and parameters. For instance, a known geological boundary may be used to delineate clusters. Many of these interpolation approaches can be combined. For example, `cluster_sgs`, `cokrige_mm1`, and `cosim_mm1` could be applied to detrended data.

Although the focus of this manuscript is subglacial topography, the GStatSim routines could be applied to numerous geoscientific problems. Cryosphere applications could include the interpolation of englacial layers (MacGregor et al., 2015), marine sediment cores, and radiometric properties of subglacial conditions (e.g. Chu et al., 2021). Beyond glaciology, GStatSim could be used for downscaling, potential field data analysis (Volkova and Merkulov, 2019), and planetary applications such as improving the resolution of digital terrain models (Gwinner et al., 2009). The `cluster_sgs` function would be particularly useful for capturing regional changes in spatial statistics, and the nearest neighbor octant search makes GStatSim well-suited to geostatistical modeling with geophysical line data. Furthermore, the ability of co-kriging and co-simulation to include sec-

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boundary constraints provides a mechanism for synthesizing multiple geophysical and geological data sets, GStatSim could also be integrated with geophysical modeling routines such as SimPEG (Cockett et al., 2015) to perform inversions. Specifically, geostatistical simulation can be used in Markov chain Monte Carlo frameworks for solving inverse problems (Haas and Dubrule, 1994; Oh and Kwon, 2001; Nunes et al., 2012).

Each of the example interpolations in this paper takes 2-3 minutes to run on a MacBook Pro with an Apple M1 chip. The run times increase exponentially with size and resolution improvement. Most of this computational time is attributed to the nearest neighbor octant search. As such, geostatistical simulation can become cumbersome and time-intensive for large ensembles, depending on the simulation grid size, nearest neighbor search radius, and number of conditioning points. There are many approaches for accelerating SGS (Dimitrakopoulos and Luo, 2004; Daly et al., 2010; Mariethoz, 2010; Nussbaumer et al., 2018), though these methods lack flexibility or require greater computational resources. Future work is needed to develop tools with improved performance while maintaining the flexibility and functionality. GStatSim could also be modified to include additional variogram models and interpolation methods such as indicator kriging (Solow, 1986).

7 Conclusions

Spatial interpolation is a common problem in the geosciences, though the availability of open-access software remains a key barrier to the widespread utilization of geostatistics. The GStatSim package addresses this barrier by making available Python tools and educational materials for implementing various interpolation methods. The tools here could be applied to a variety of geological and geophysical data sets for both research and educational purposes and can be integrated with existing Python tools and workflows. The inclusion of non-stationary SGS, co-kriging, co-simulation, and trend estimation functions make GStatSim particularly useful for applying geostatistics to complex phenomena.

Code and data availability. The source code, data, and tutorials are permanently archived in Zenodo (<https://doi.org/10.5281/zenodo.7274640>). These materials can also be accessed from GitHub (<https://github.com/GatorGlaciology/GStatSim>), PyPi (<https://pypi.org/project/gstatsim/>), and our Jupyter Book (<https://gatorglaciology.github.io/gstatsimbook/intro.html>).

Author contributions. EJM is the primary developer of GStatSim and author of the manuscript, MF made major contributions to the package and writing. JW, ZY, NS, MH, and AZ contributed to the GStatSim software development.

Competing interests. The authors have no competing interests to declare.



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