



Technical Assignment: Data Gridding Exercise

Making a grid and map from the MagAnomaly data
in the DataBoxTest.csv file

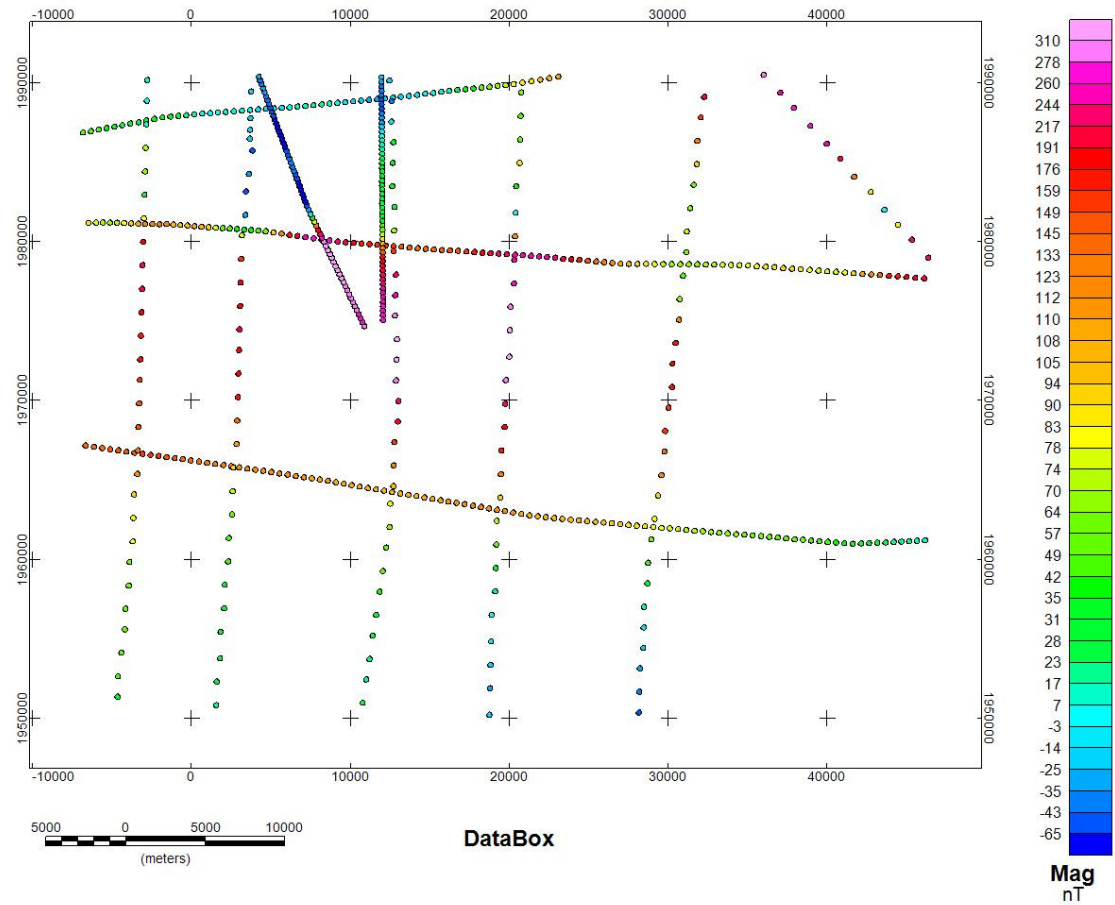


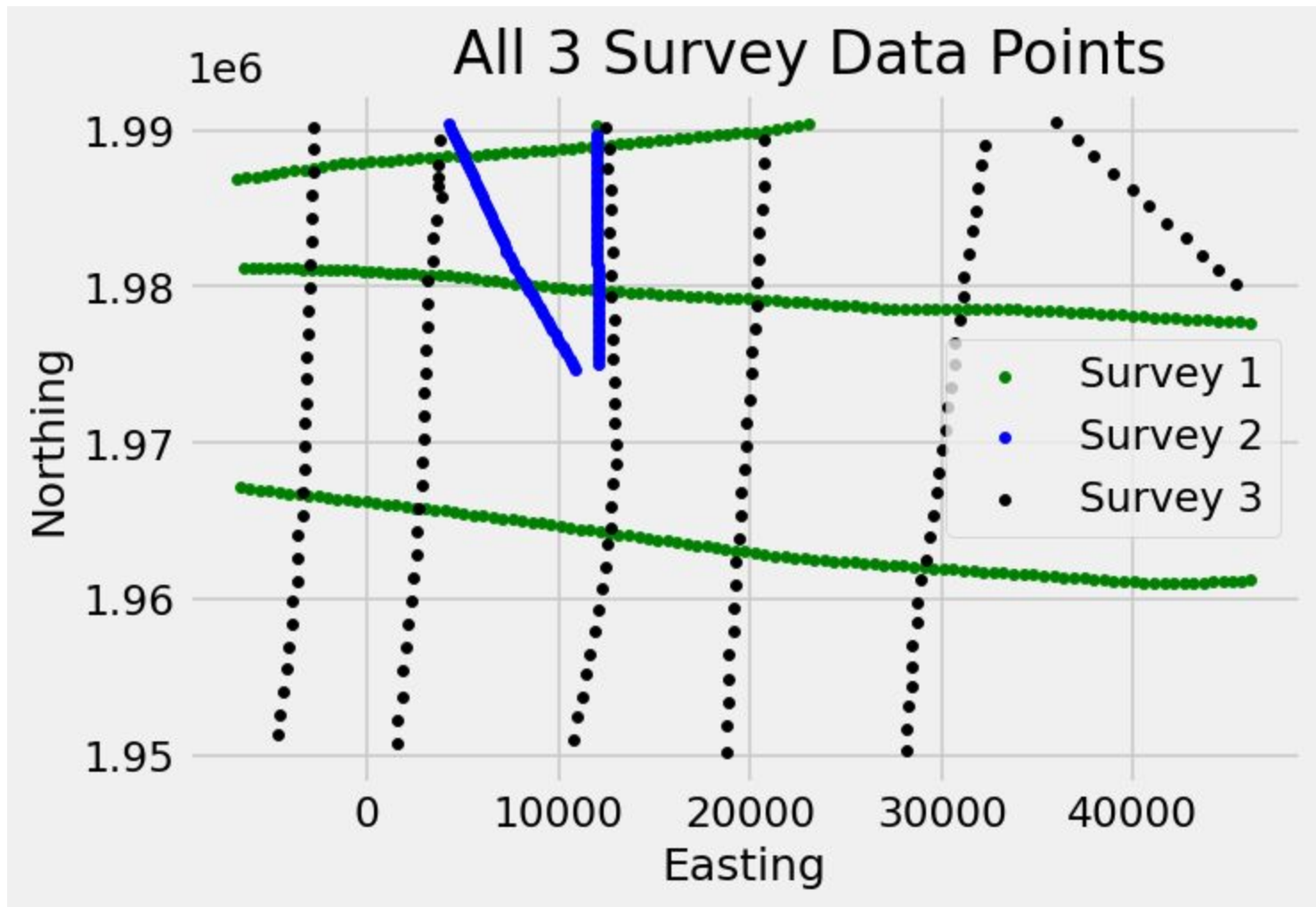


Assumptions of the Data

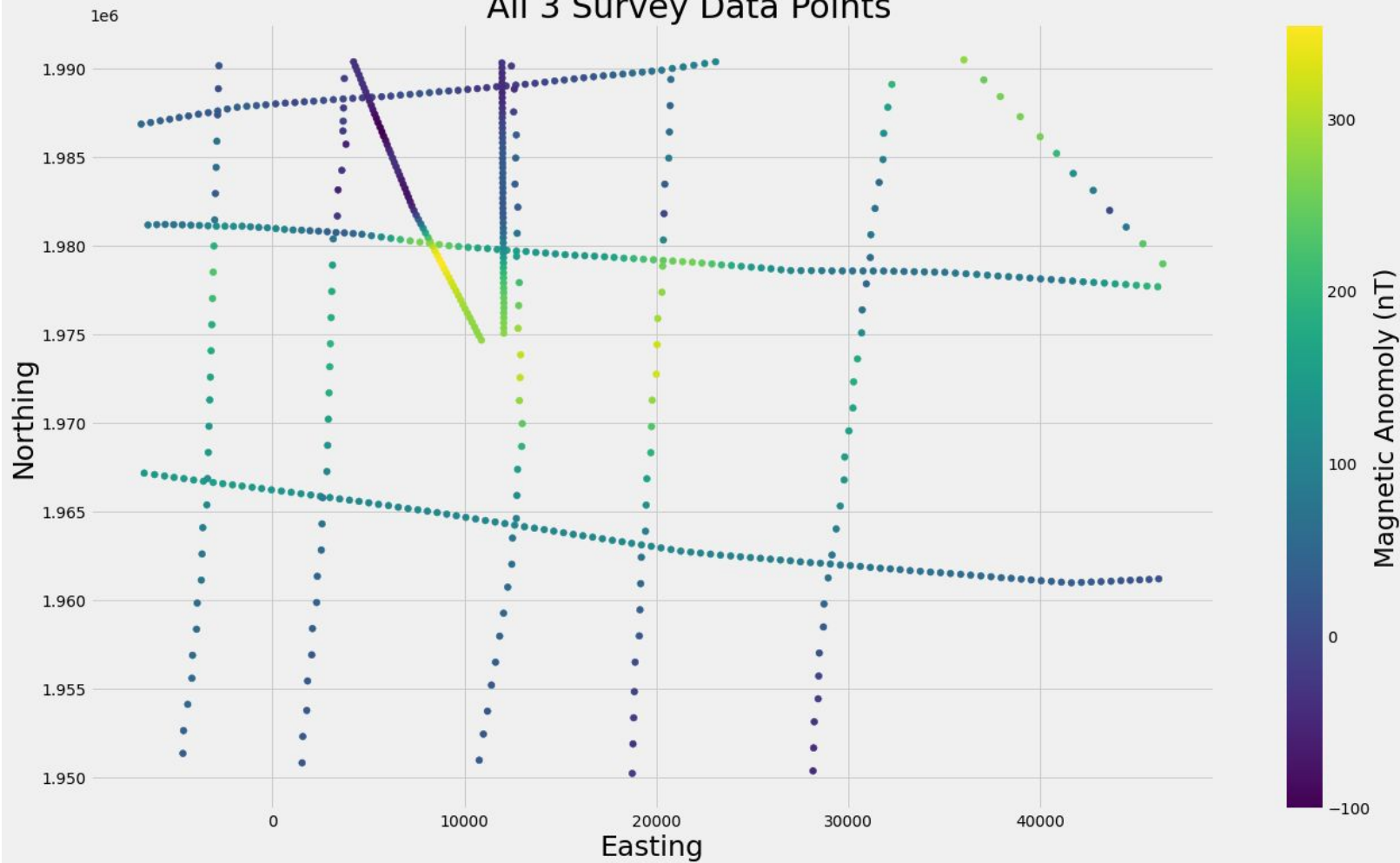
- Quality Control
 - Time Lag Correction
 - Topography Correction
 - Sensor Drop-outs
 - DGRF was removed for the original date of each survey
 - Working with multiple survey data, were some using surface-towed magnetometers, or near-bottom magnetometers, resulting in lower sensitivities
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- Based on the size of the survey, we have to ask if we are doing mapping of shipwrecks, geologic structure mapping, etc.
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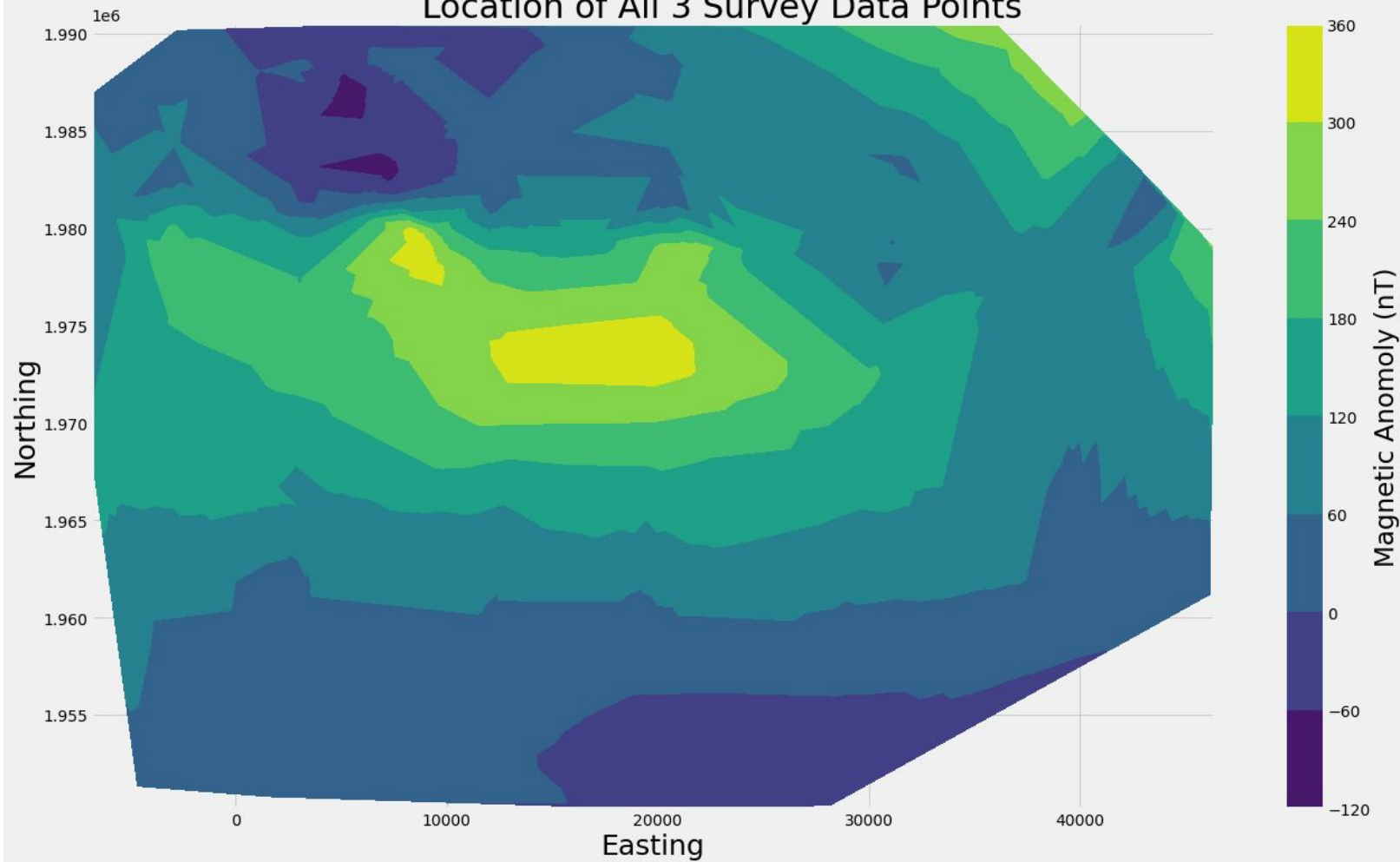




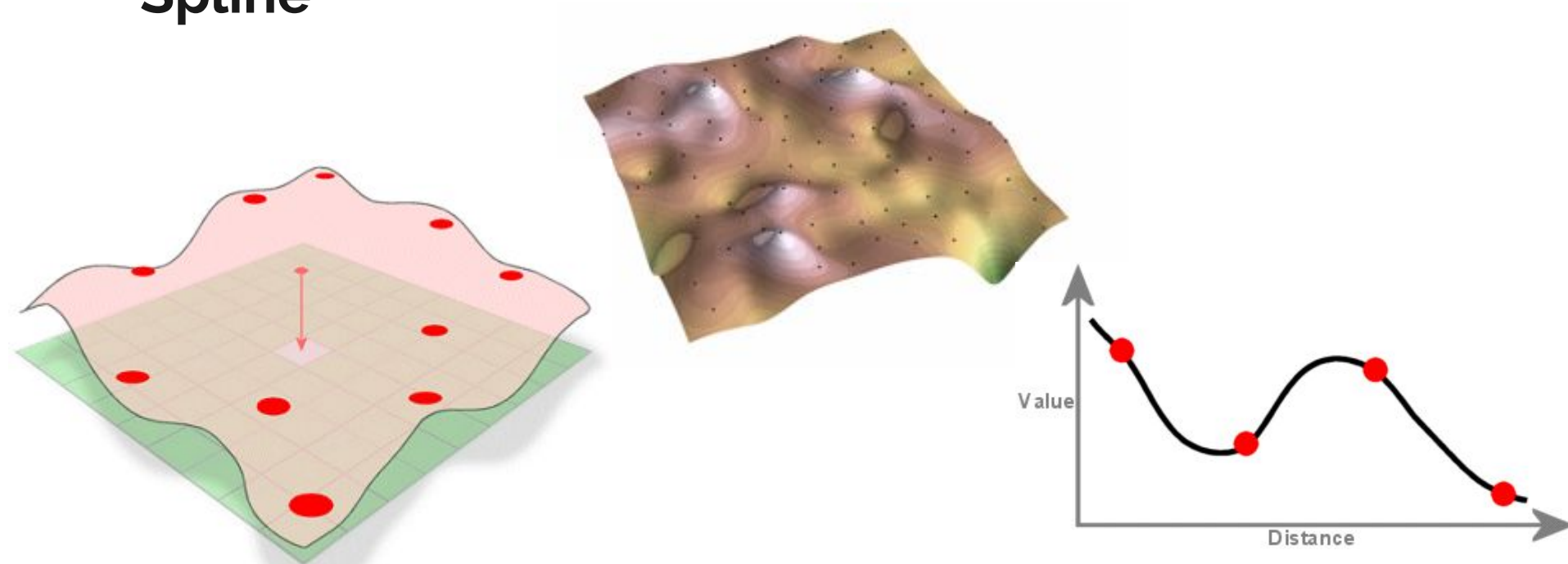
All 3 Survey Data Points



Location of All 3 Survey Data Points



Gridding Interpolation Method: Spline



GIS Resources. "Types of Interpolation Methods." *GIS Resources*, 7 Oct. 2013, gisresources.com/types-of-interpolation-methods_2.



Next Steps

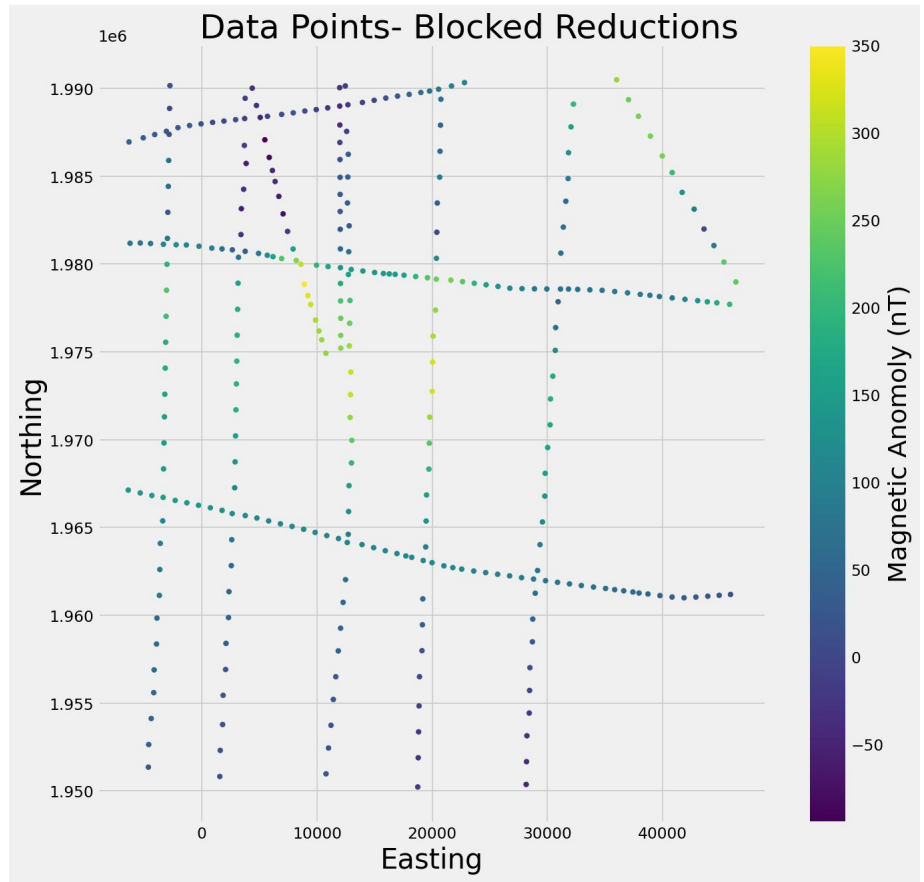
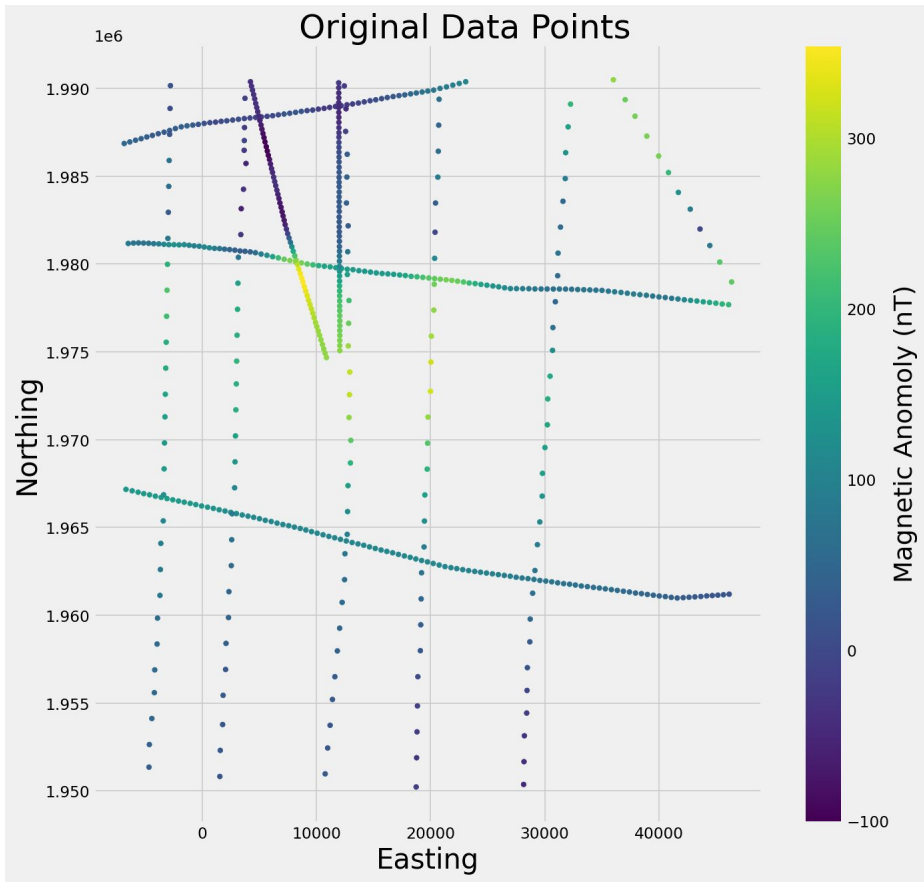
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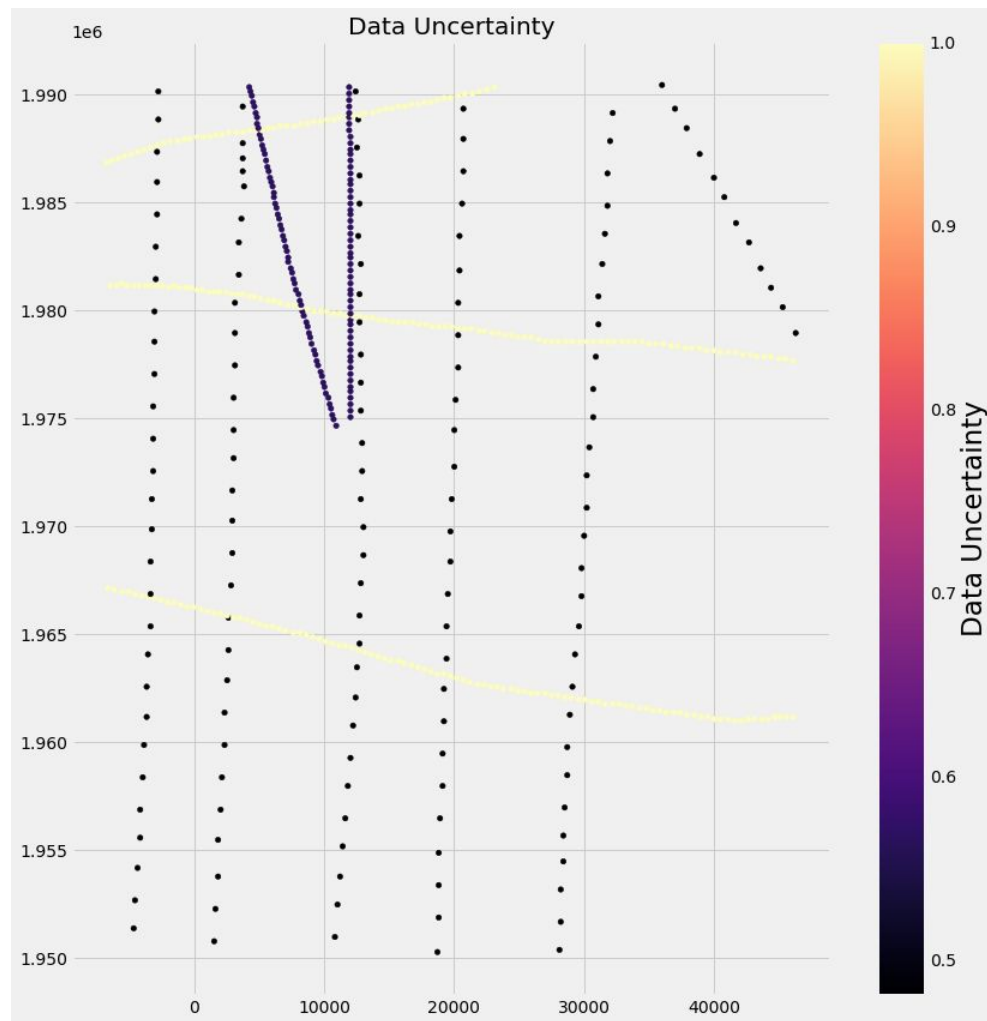
Removing 2D Polynomial trends

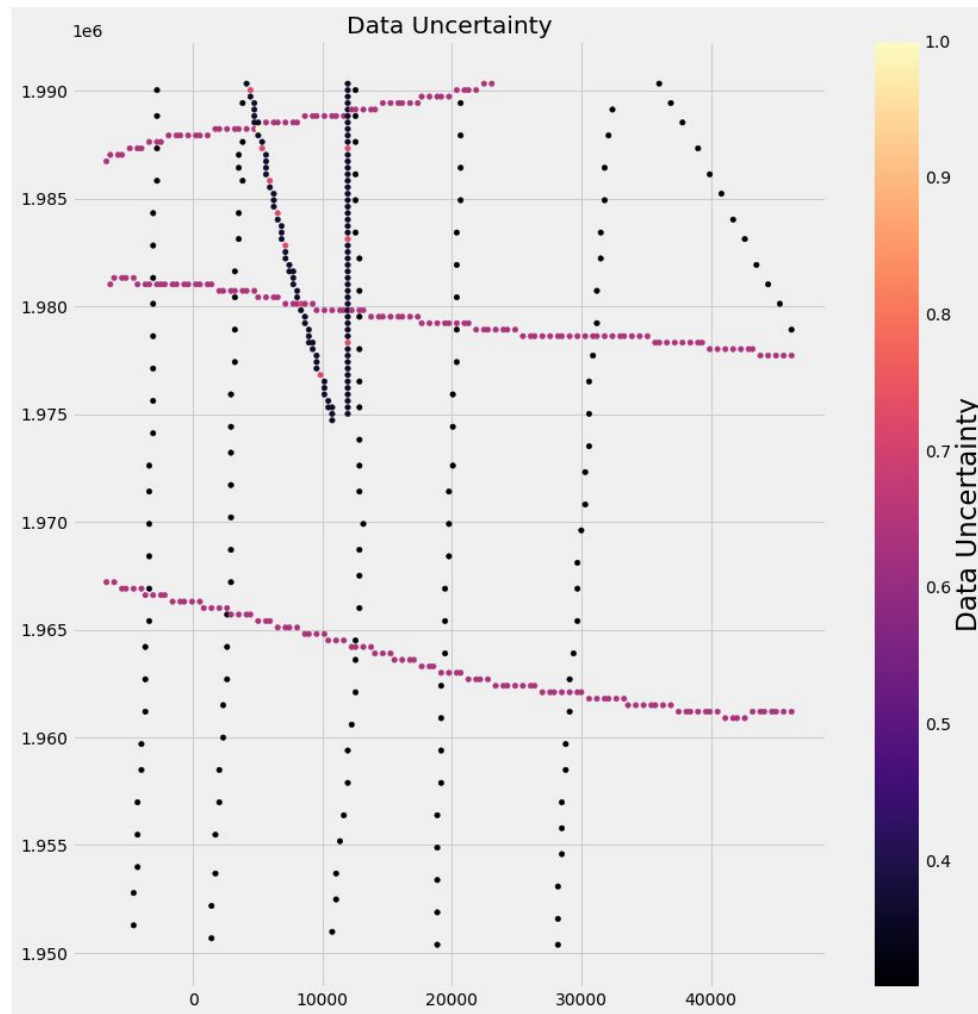
2

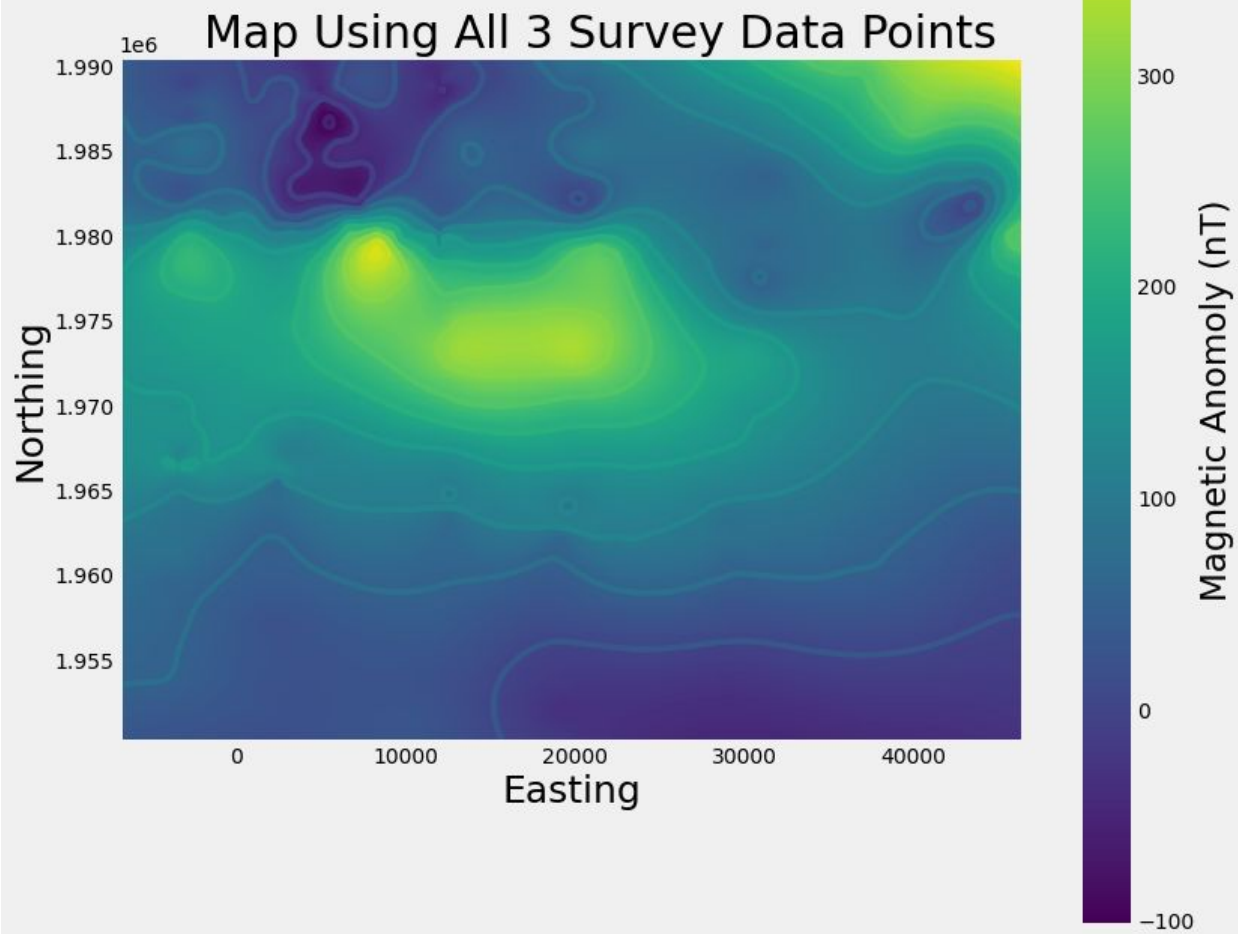
Blocked Reductions

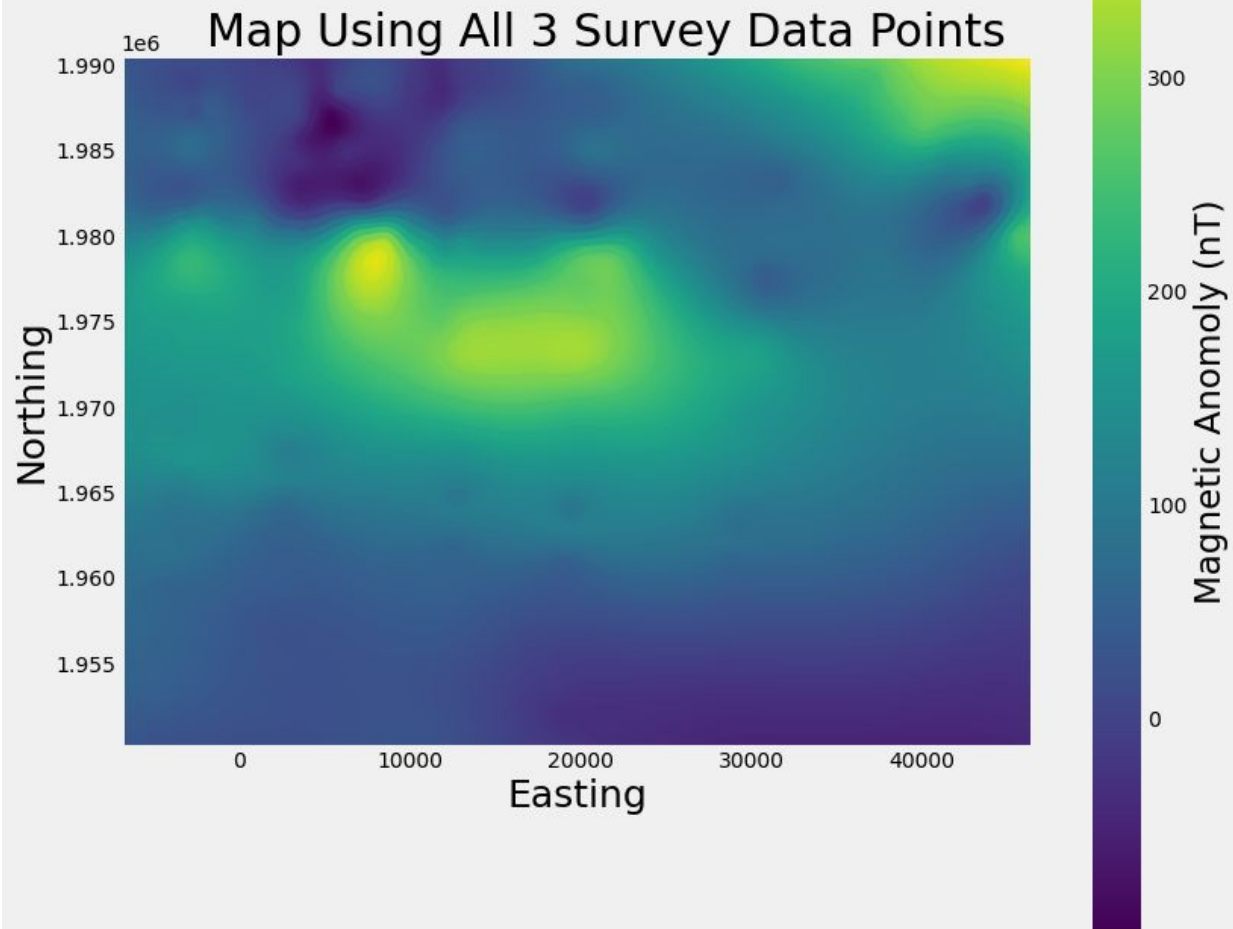
- Avoid Aliasing
- Helpful for Spline
- Uncertainty Impact













Things I would do with additional time or different software:

