

Soil Temperatures at Depth - Data Interpolation Fundamentals

Highlights from the project:

- This project proposals is based on the processes utilized throughout Lab 4.
- Project intent is to create the foundation for additional data analysis as soil temperature at depth will vary based on several factors (soil moisture content and type).
- Data interpolation used all points provided in the lab data for data monitoring stations even if no measured data was present.
- Kriging and IDW run on project data to have a baseline for comparison of the methodologies.
- Soil depth temperature decreased between classes around 3 degrees 5cm intervals with the lowest classification,
- Warmest classifications move west to east when stepping through the individual maps (only the shallowest and deepest depth trends shown on this slide).

Recommended Next Steps:

- Does removing the monitoring locations without soil temperature data impact the data interpolation trends?
- What are the soil classes?
- What impact, if any, does soil classification have on temperature variations across the state?

