Assessing Terrestrial Lidar Precision in an Arctic Tundra Setting for use in Detecting Fine-Scale Permafrost Subsidence

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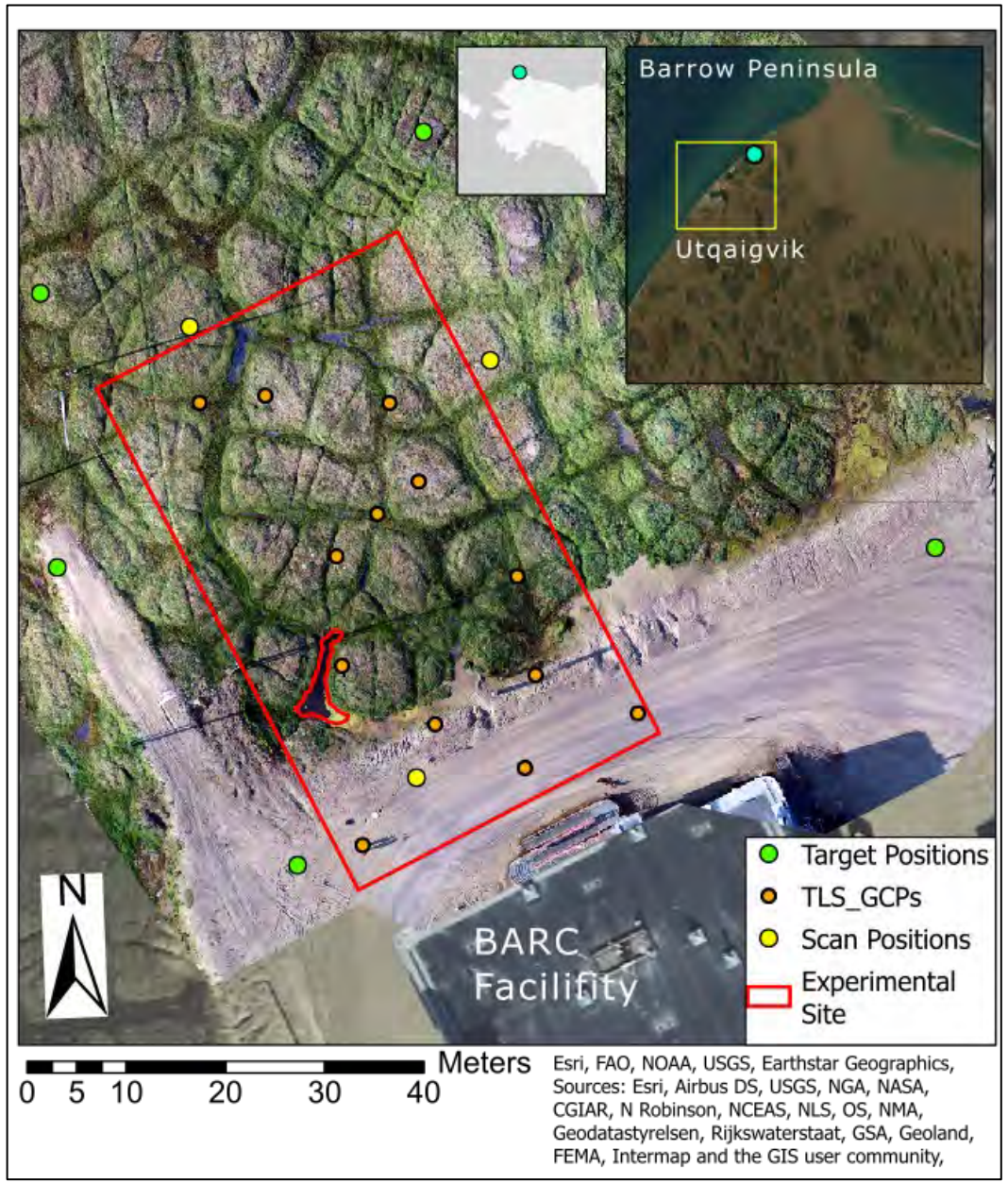
- Ground **subsidence** in the Arctic is a critical issue with regional and global implications.
- Subsidence can occur at **sub-centimeter** scales
- Terrestrial Laser Scanning (TLS) has emerged as a viable method for **high-resolution** surface modeling and change detection, including in the Arctic.
- Knowledge of its performance for modeling tundra features and detecting subsidence is **limited.**
- **Study investigates the precision of repeat TLS surface models**

Study Area



Precision Results