

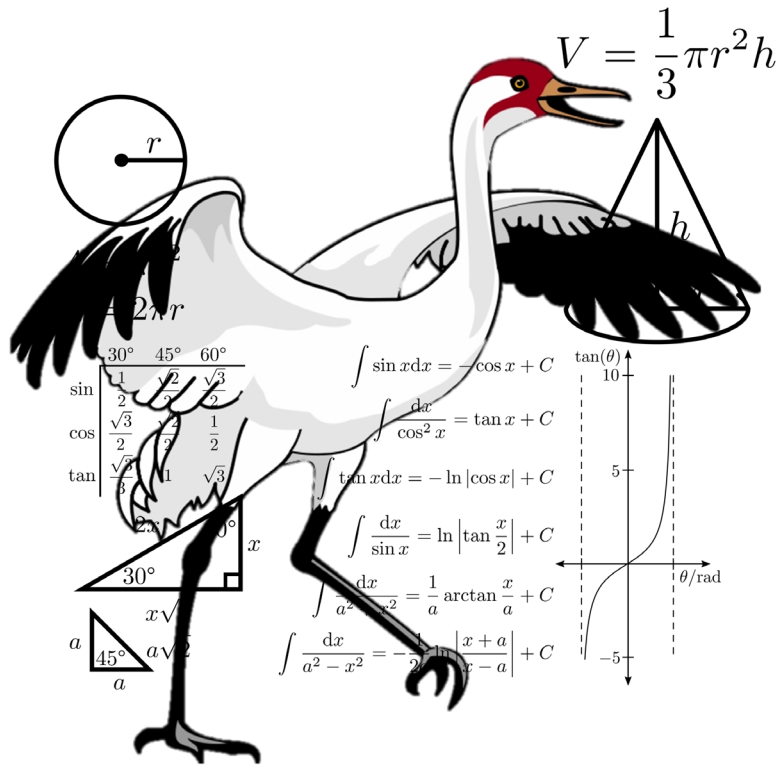
# Sed Aug 2023 Report Peer Review

Libby Casavant, P.E.

## Types of Feedback

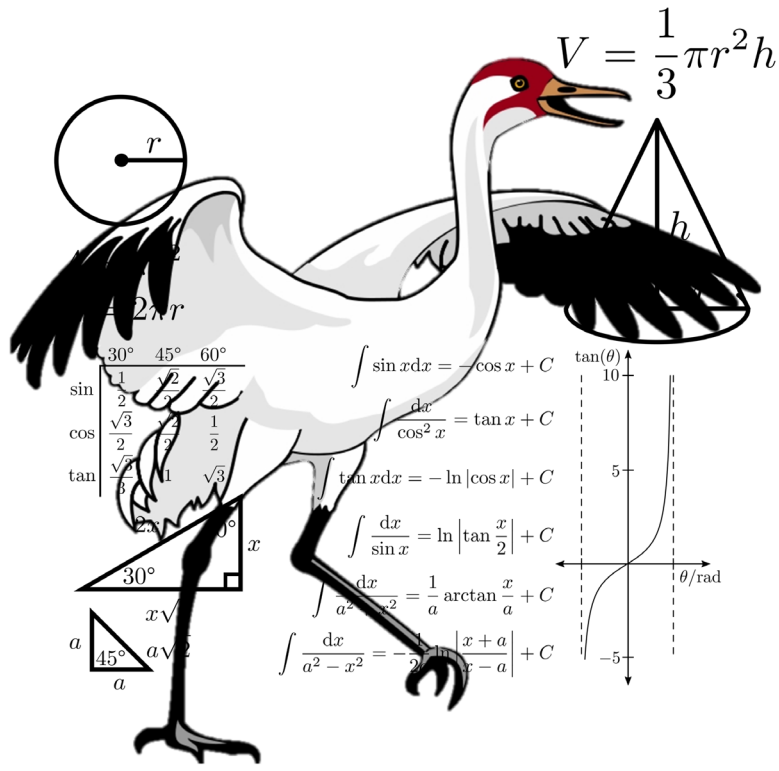
- Text/Figure Edits
- Report Organization
- Analysis and Methods





# Organizational Updates

- Added a Data Summary Section
- Added an appendix with additional figures
- Simplified/shortened Chapter 3



# Analysis and Methods

## Main Topics

- Lateral Erosion Delineation Method
- Volume Change Analysis
- LiDAR and Raster Differencing Uncertainty
- Analyze North Channel as a control reach

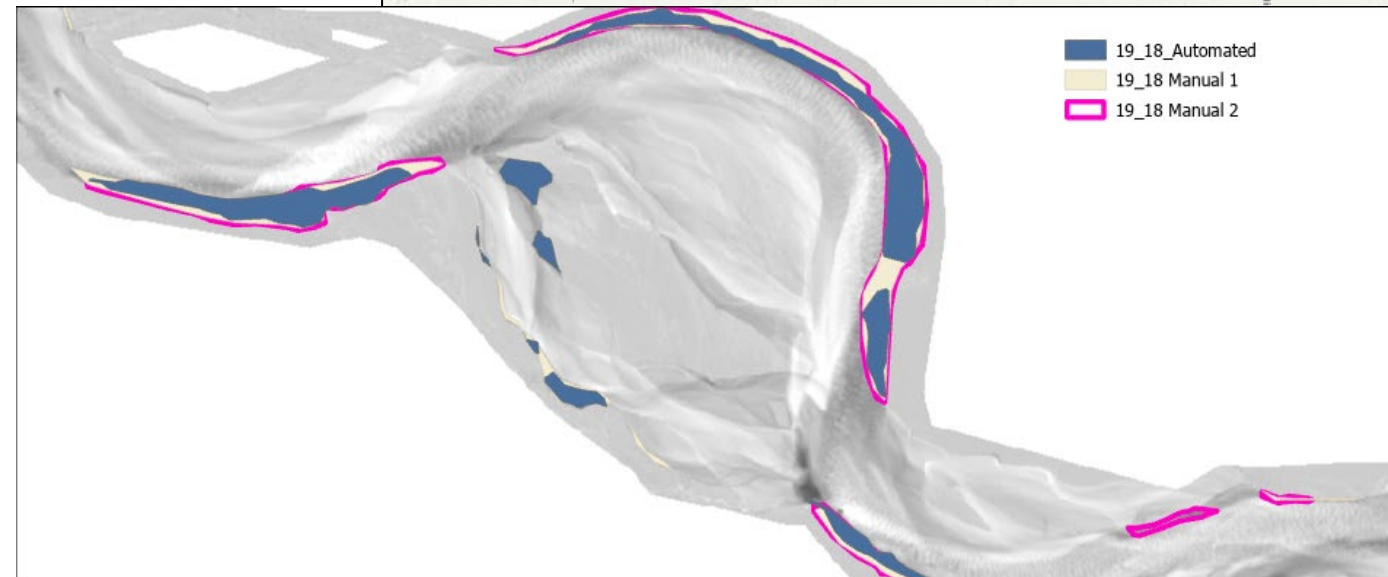
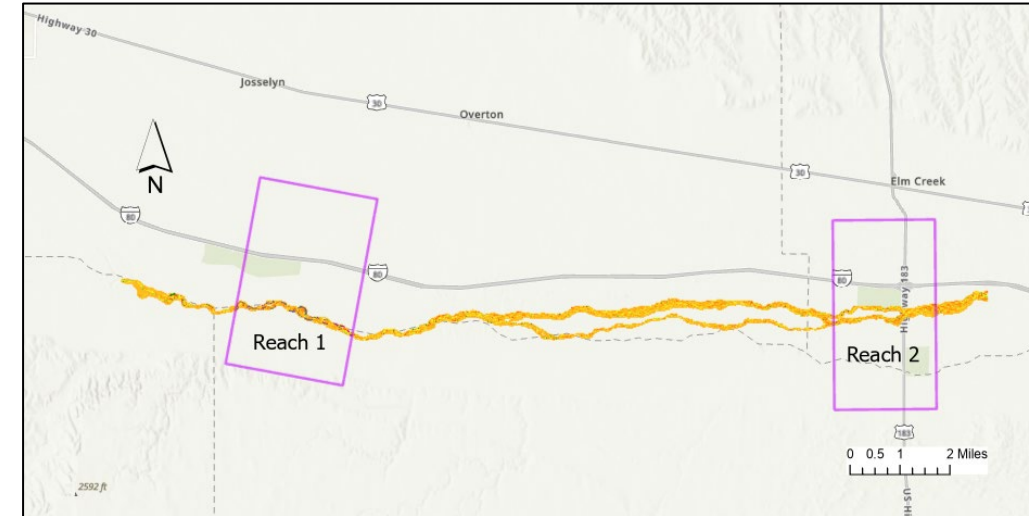
# Lateral Erosion Delineation Method

Current approach: Automated method

Reviewer Comments: Compare to manual delineation

Response:

- Two methods differ by 20-40%, but not in a predictable way
- Automated method is repeatable

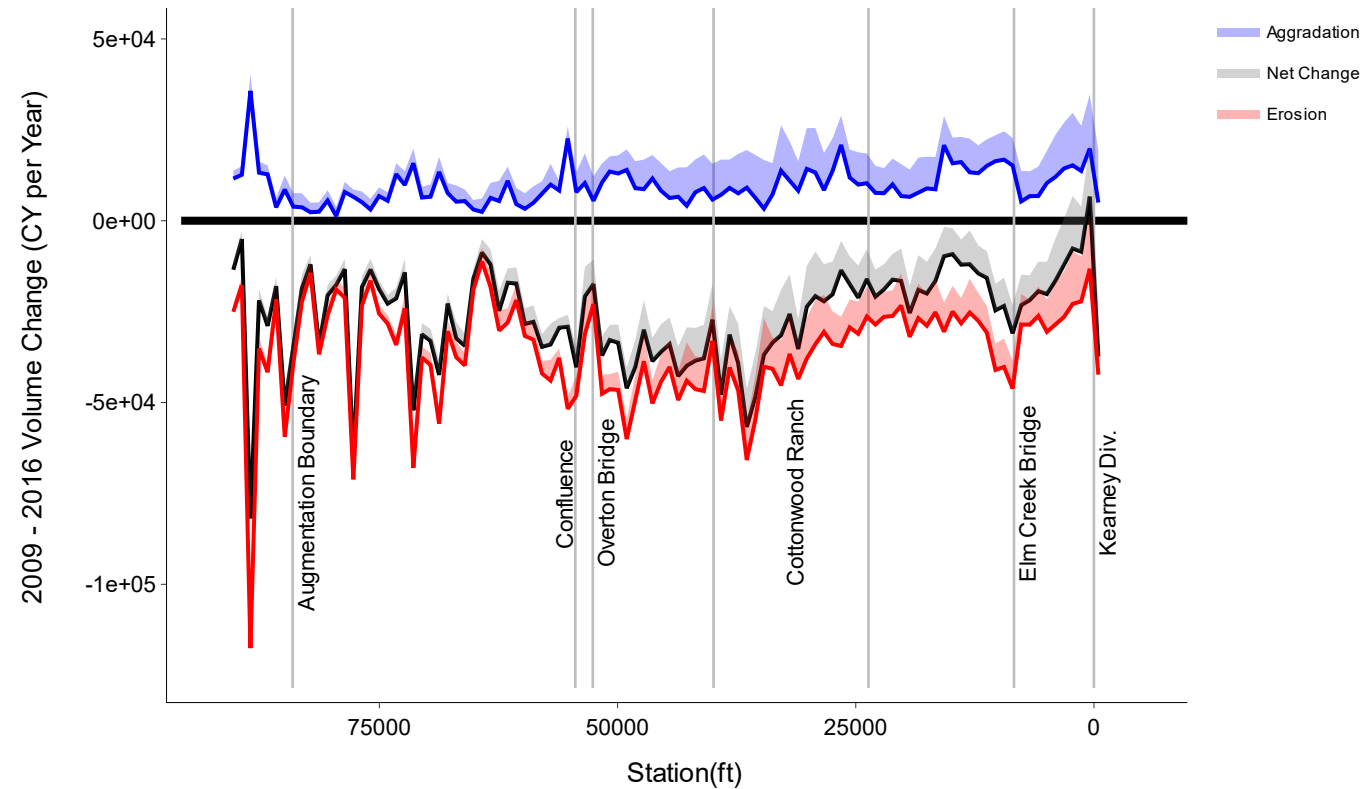


# Volume Change Analysis

Current approach: Present net volumetric changes.

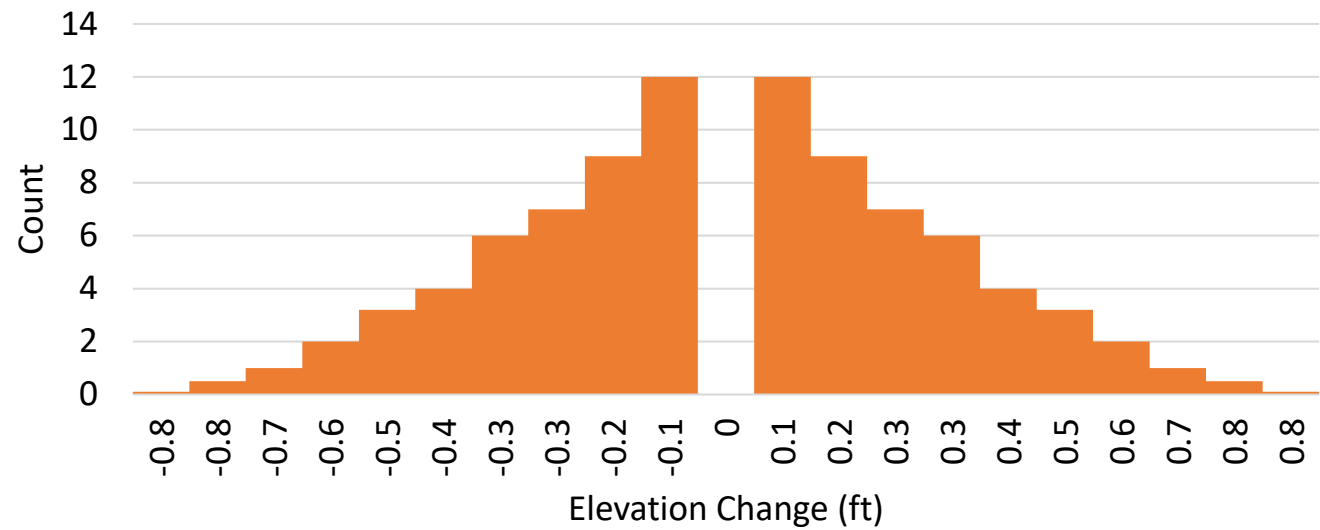
Reviewer Comments: Provide raw values of aggradation and degradation.

Response: Provided figures as an addendum to reviewers

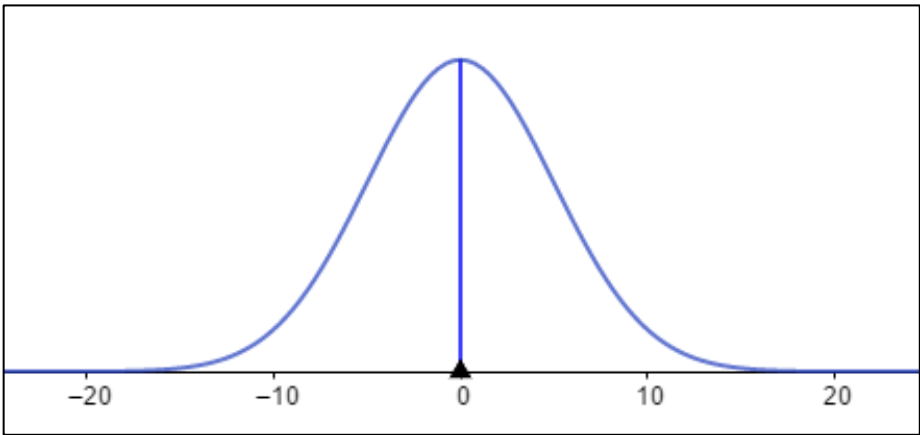


# LiDAR and Raster Differencing Uncertainty

LiDAR error is estimated every year by contractor. Typically +/- a few inches



Threshold to Remove Uncertainty?



Systematic or Normal Error?

# LiDAR and Raster Differencing Uncertainty

Current approach: No thresholding, all data used

Reviewer Comments: More details and error quantification needed to backup this approach

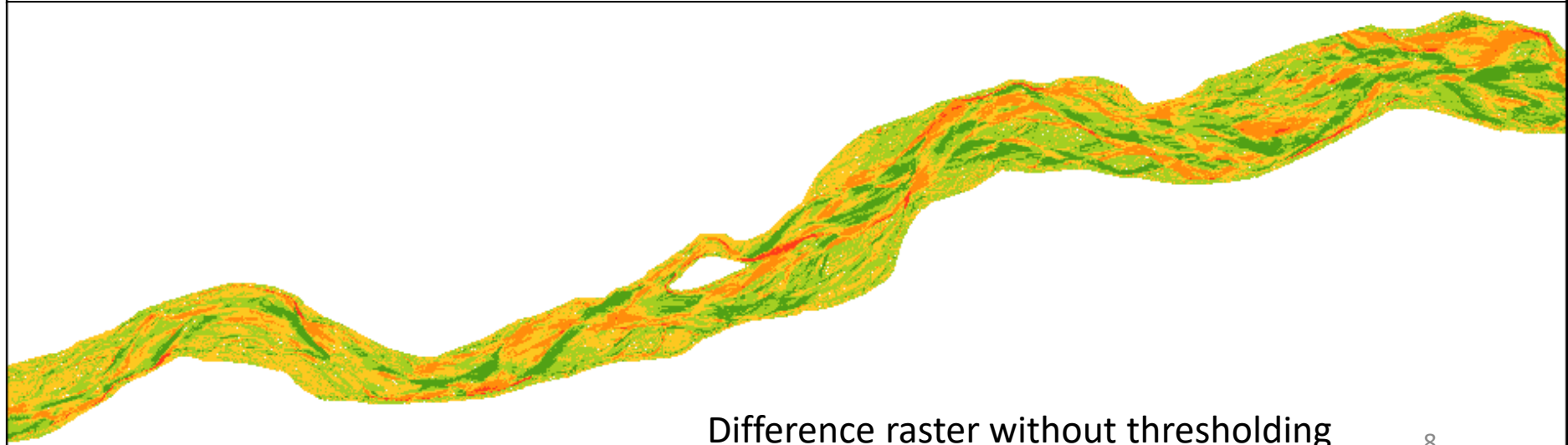
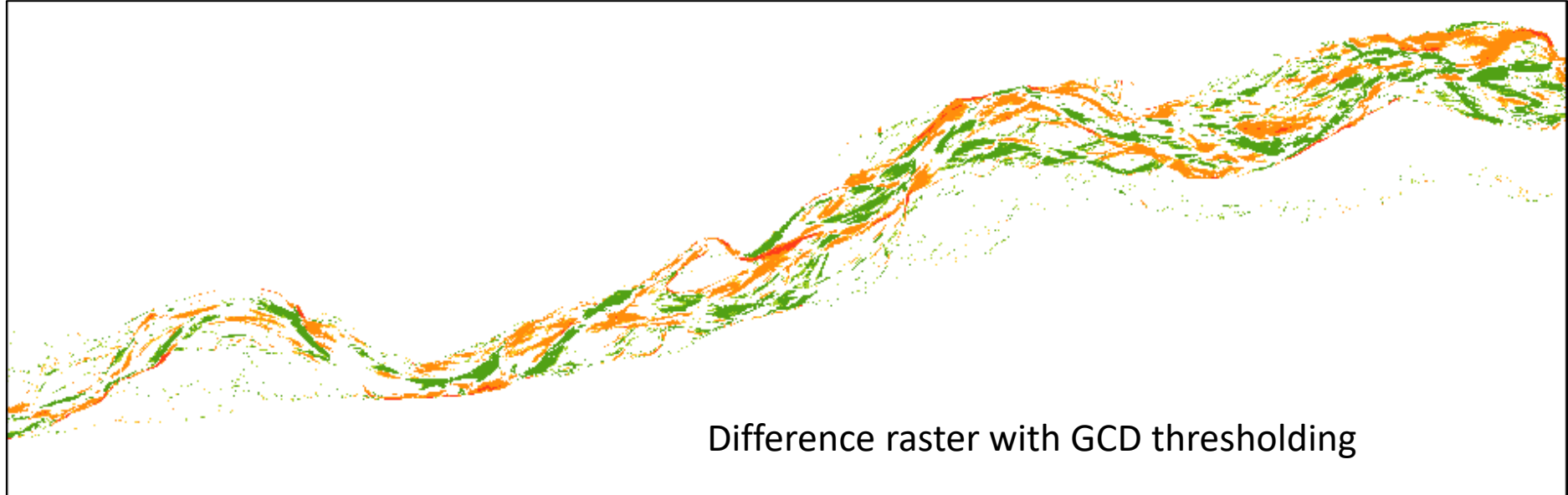
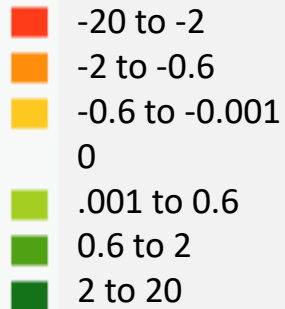
Response:

- Thresholding/ No Thresholding Comparison
- Systematic error testing
- Methodological details

# LiDAR and Raster Differencing Uncertainty

## Thresholding/ No Thresholding Comparison

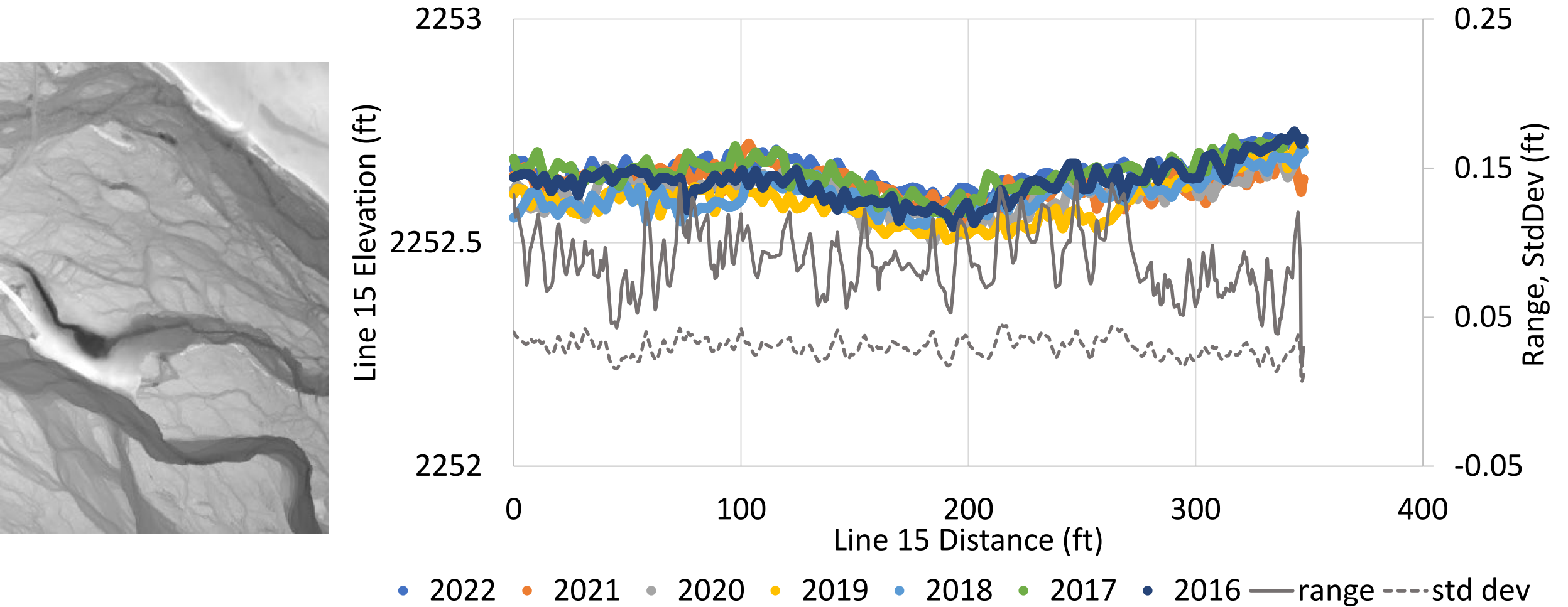
Elevation Change (ft)





# LiDAR and Raster Differencing Uncertainty

## Systematic Error Testing



# LiDAR and Raster Differencing Uncertainty

## Methodological details

