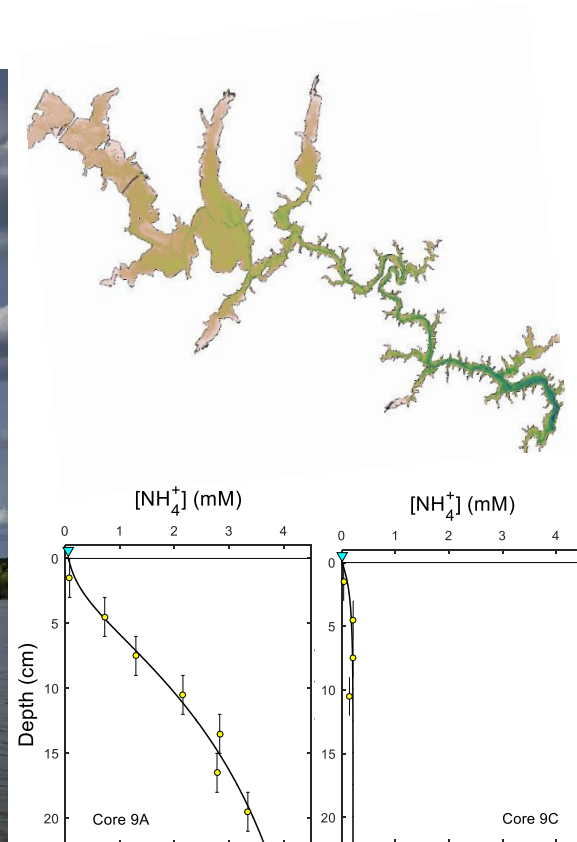


UNRBA Path Forward Committee

Monitoring Program Status Update

July 26, 2017



Routine Monitoring Status

Date	Sample Collection	Sample Analysis	Data Review	Posted to Database
Aug – Dec 2014	✓	✓	✓	✓
Jan – Dec 2015	✓	✓	✓	✓
Jan – Dec 2016	✓	✓	✓	✓
January 2017	✓	✓	✓	✓
February 2017	✓	✓	✓	✓
March 2017	✓	✓	✓	
April 2017	✓	✓		
May 2017	✓	✓		
June 2017	✓	✓		
July 2017	✓			

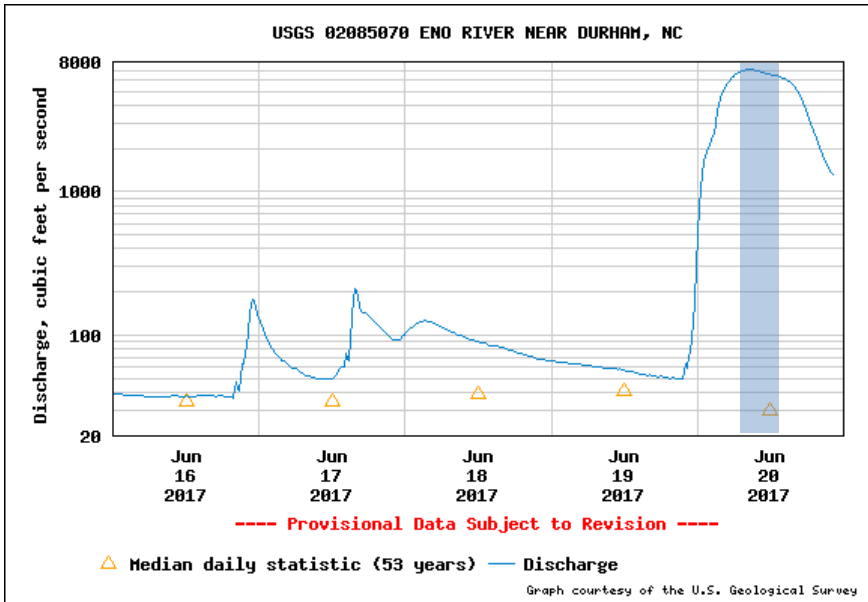
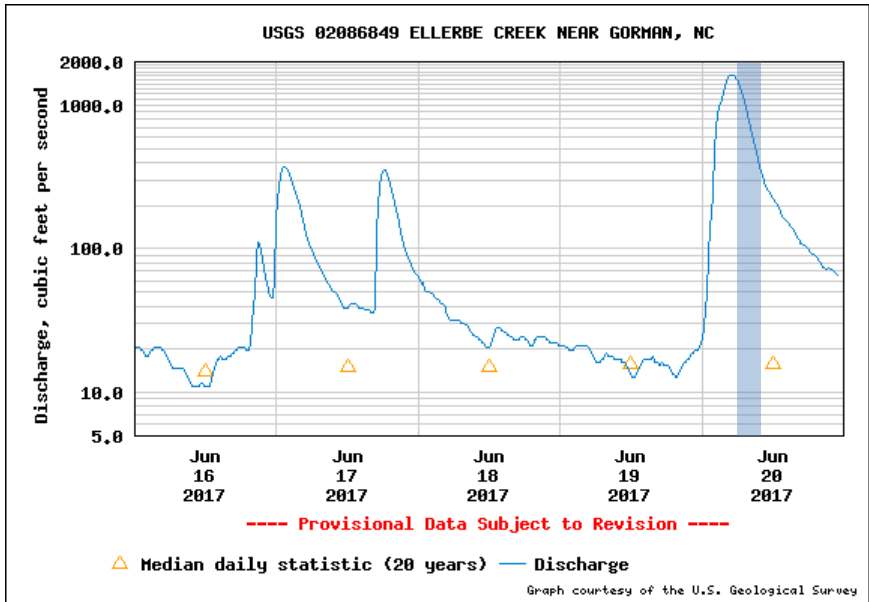
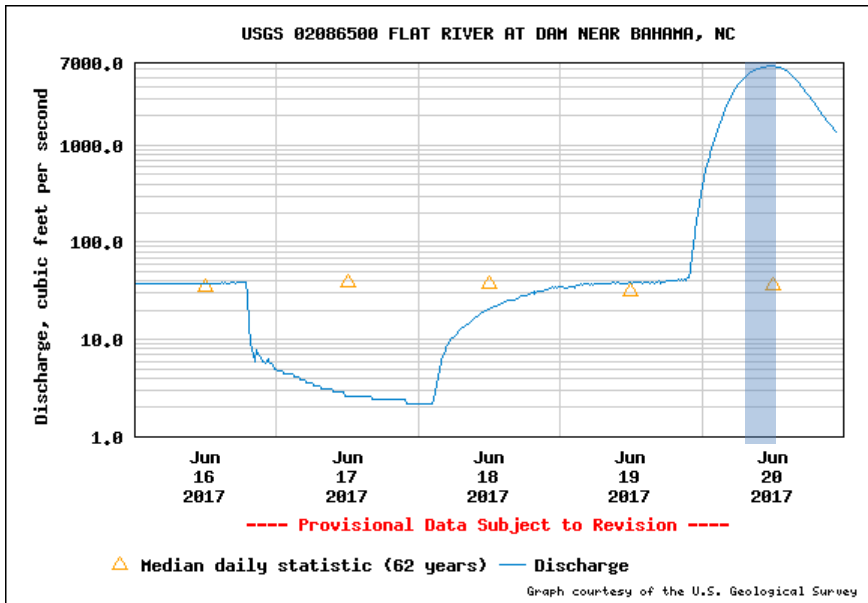
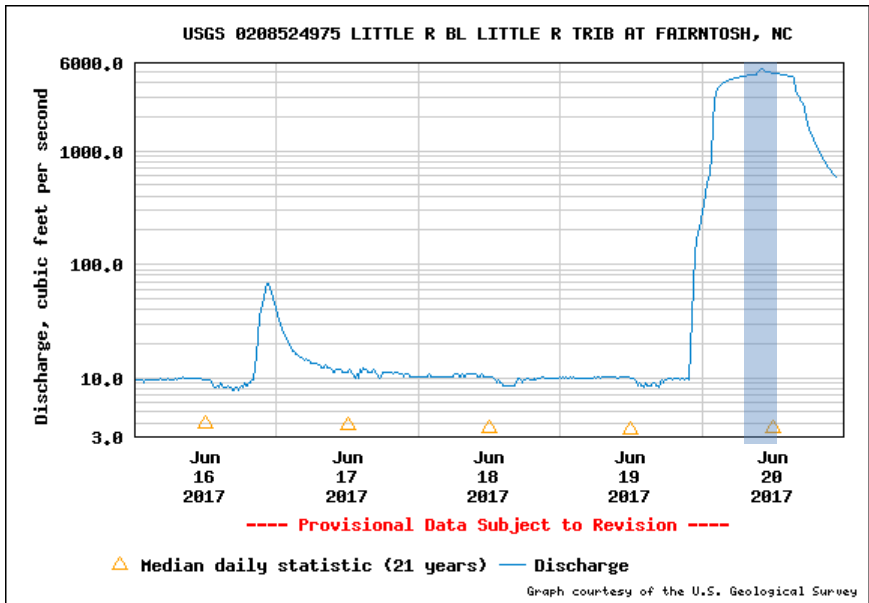
Special Studies Updates

July 2017

High Flow Sampling



Samples collected June 20 (at 17 out of 18 stations)



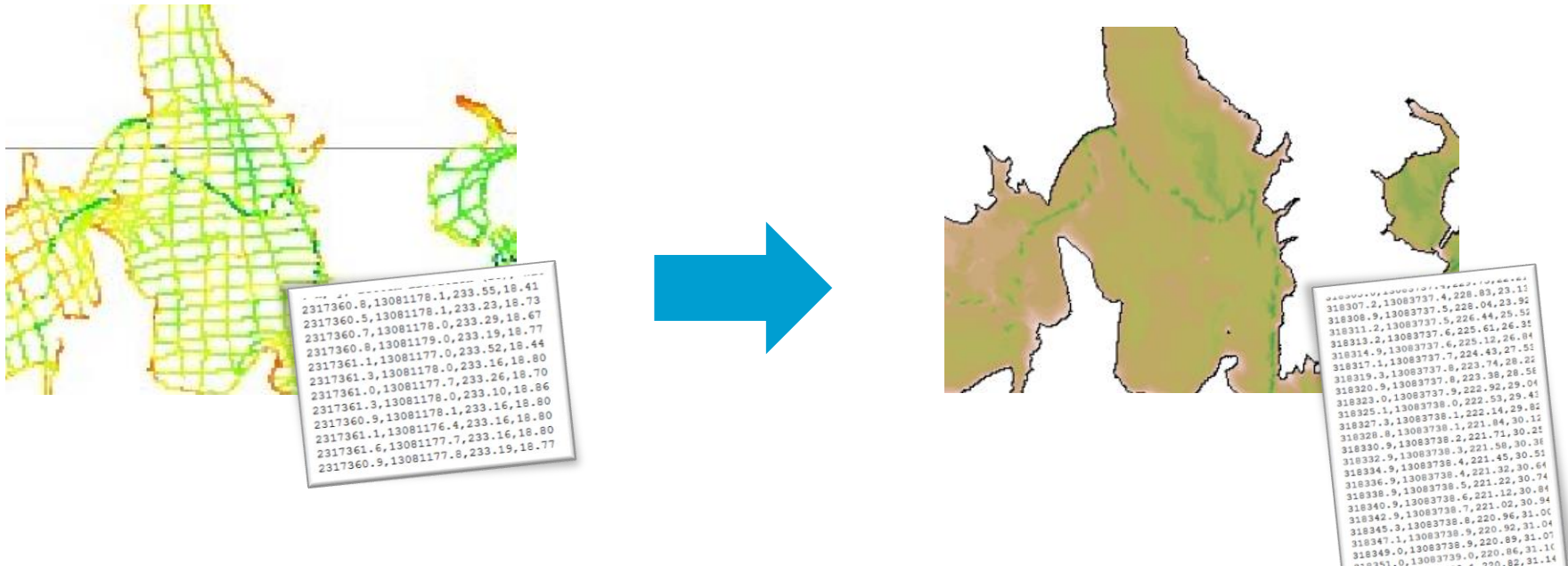
Bathymetric Mapping



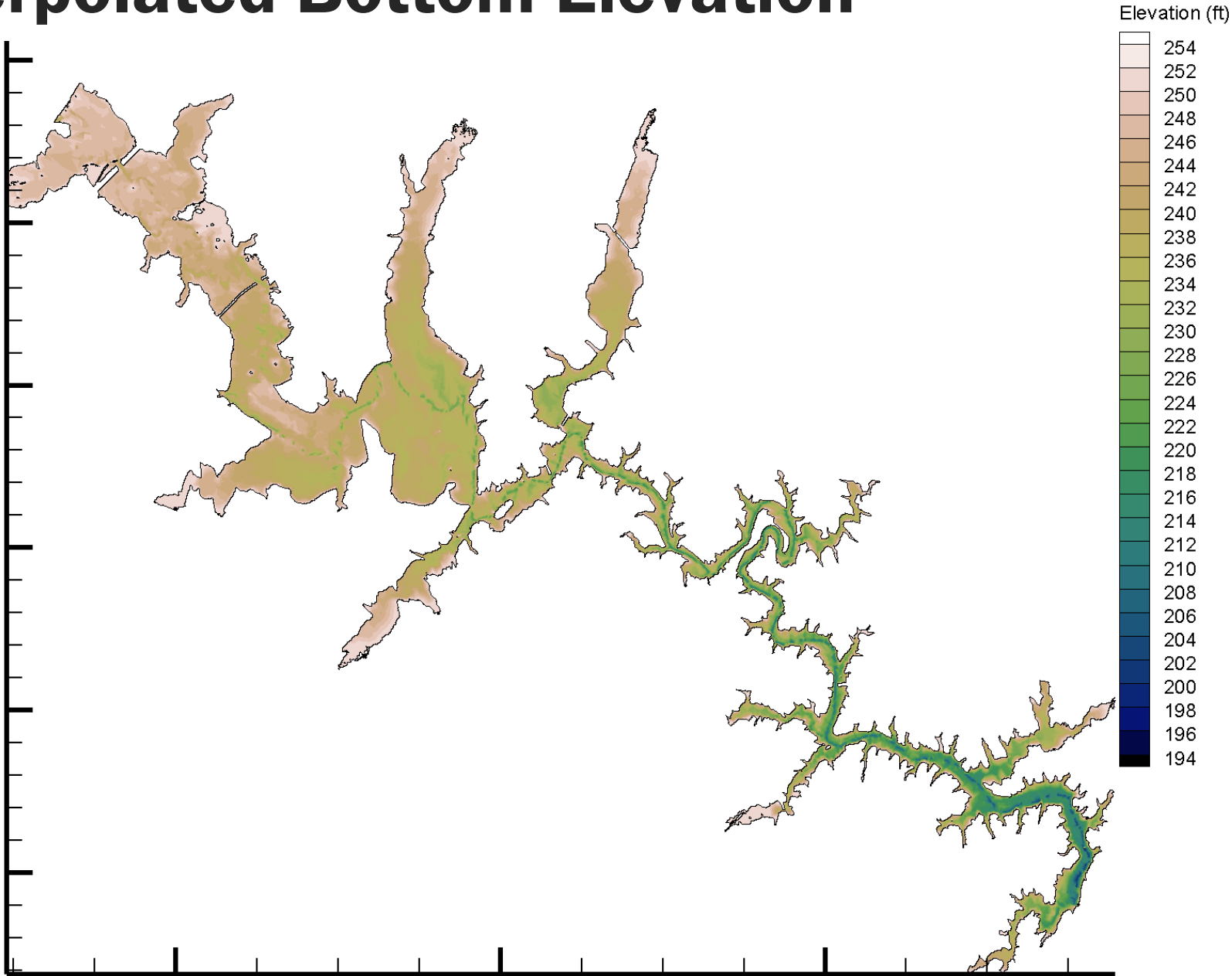
Bathymetric mapping

Goal: Improved physical representation for modeling

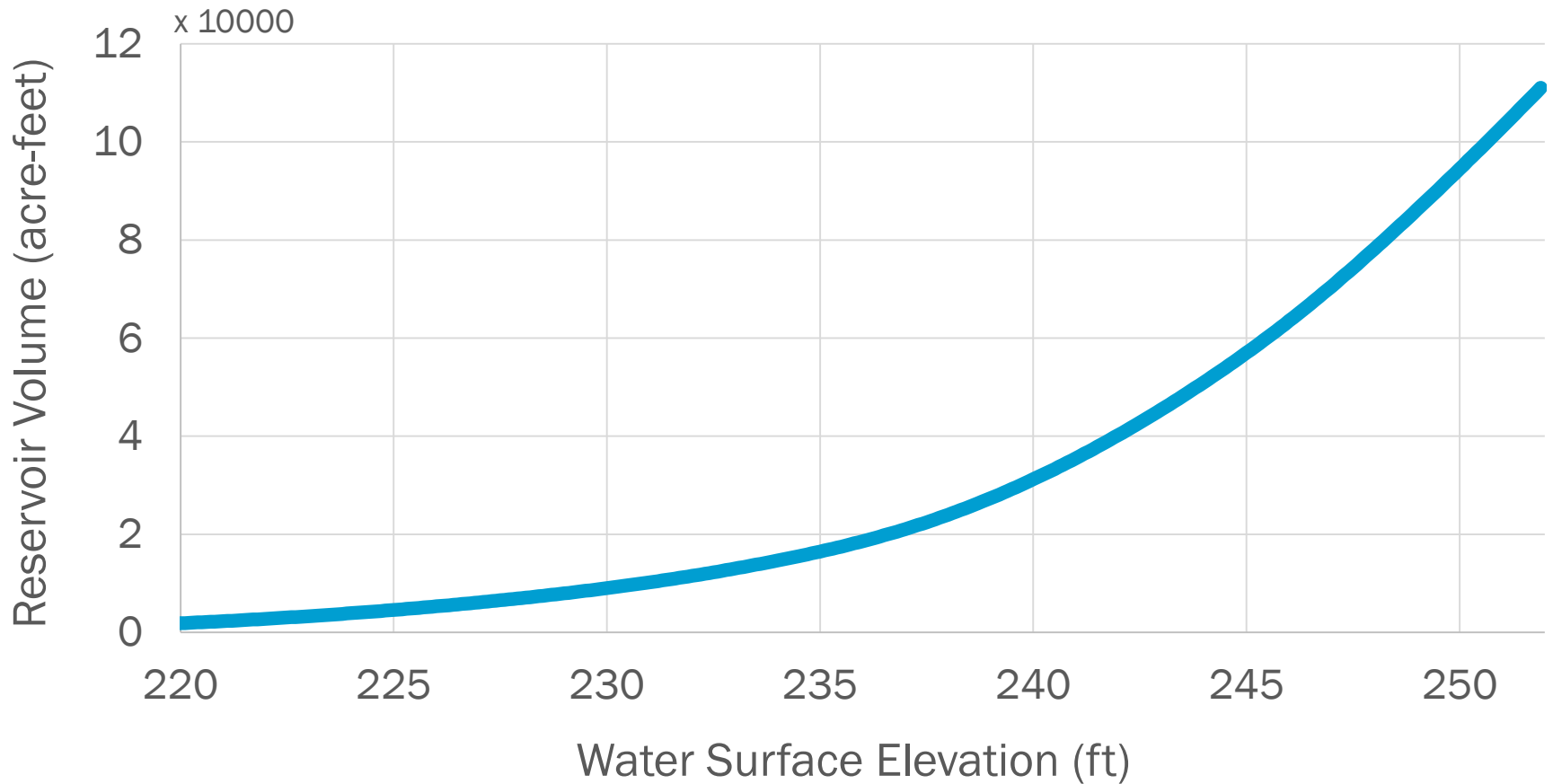
- ✓ Field measurements
- ✓ Data processing and interpolation
 - Depth measurements along boat track lines
 - Gridded, interpolated depths



Interpolated Bottom Elevation

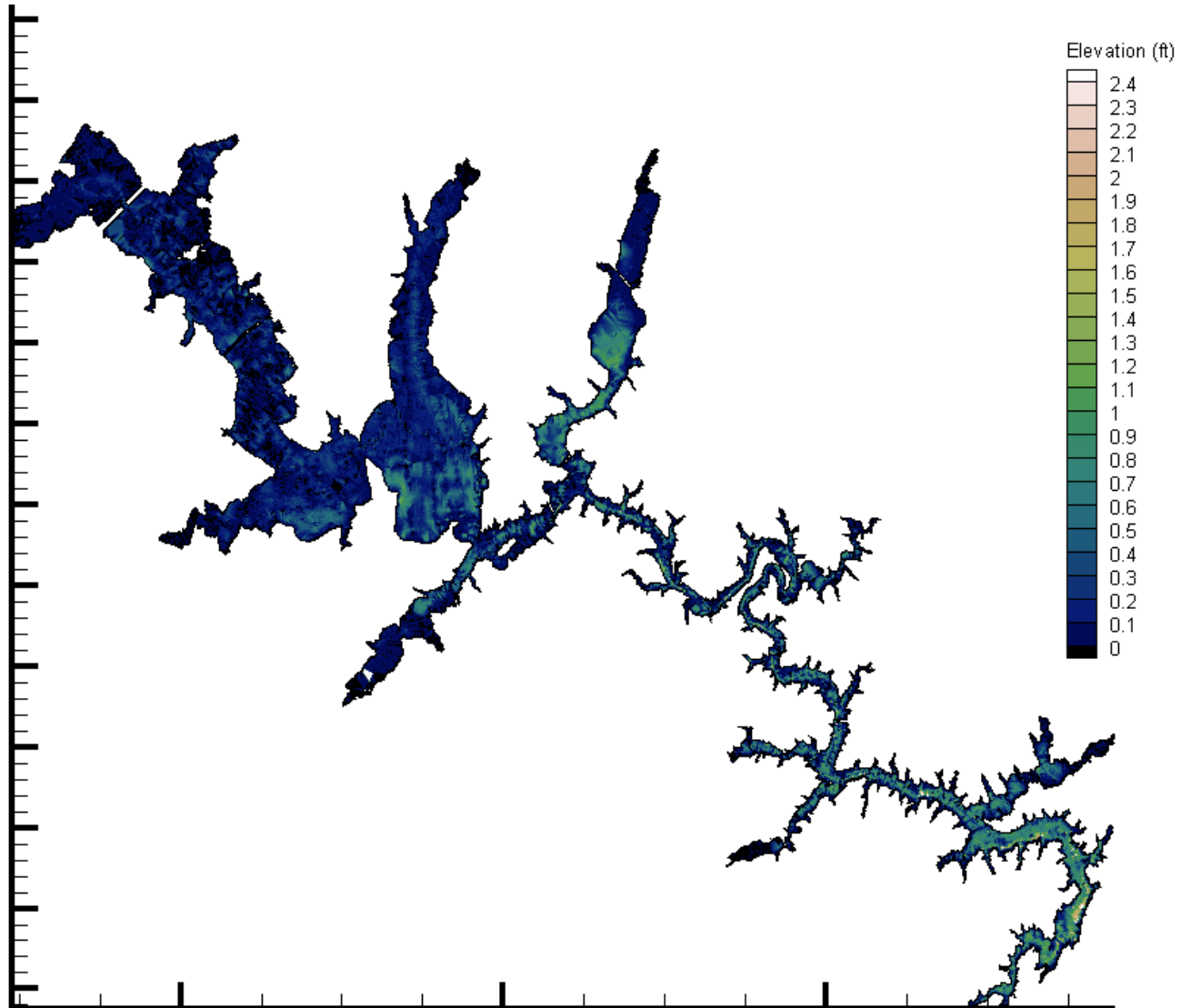


Reservoir volume and water depth



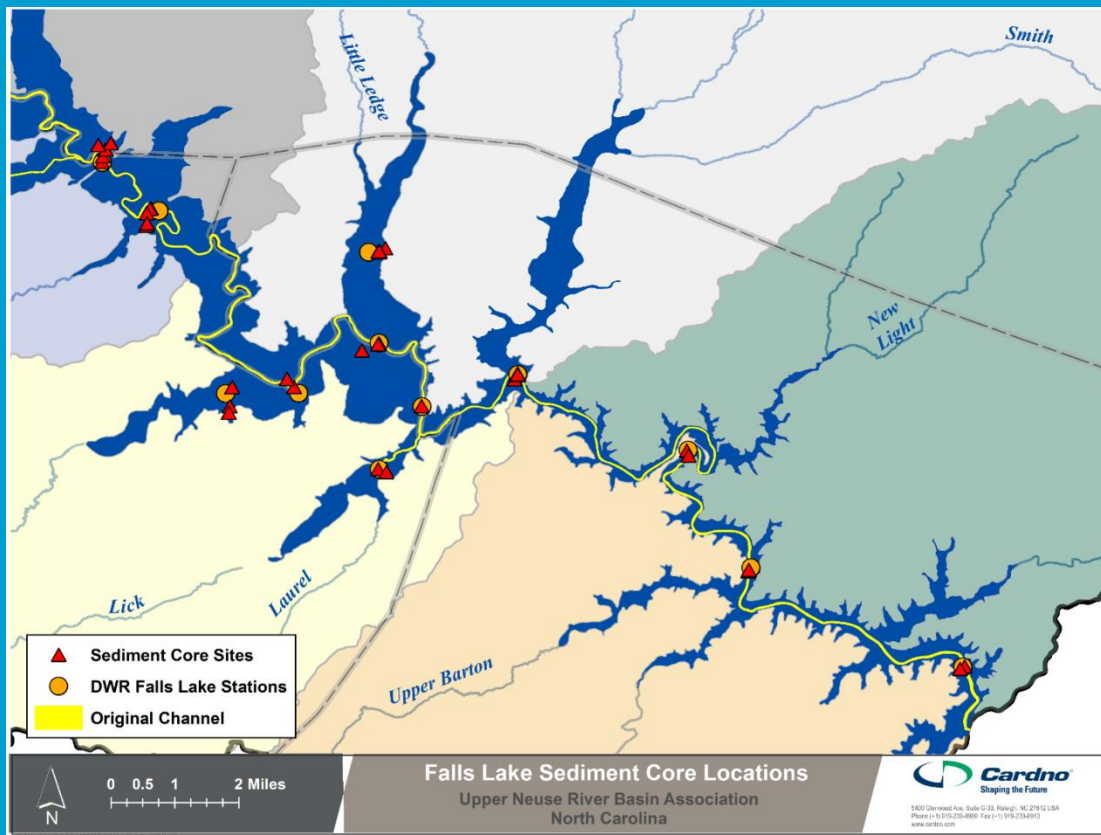
Sediment Mapping

Depth of low-frequency penetration as an index of sediment depth



Sediment Nutrient Flux

Estimates from sediment core analyses



Status update

- 27 sediment cores
 - Chemical analyses
 - Inorganic N profile models
 - Benthic flux rates
- Report in preparation
 - spatial context and patterns
 - average flux rate for the lake
 - ‘lifetime’ of existing nutrient pool

