

Monitoring Program Update

Path Forward Committee

March 2017





Routine Monitoring – Data generation status

Date	Sample Collection	Sample Analysis	Data Review	Posted to Database
Aug-Dec 2014	✓	✓	✓	✓
Jan-Dec 2015	✓	✓	✓	✓
Jan-Dec 2016	✓	✓	✓	✓
Jan-2017	✓	✓		
Feb-2017	✓	✓		
Mar-2017	✓			
Apr-2017				
May-2017				
Jun-2017				
Jul-2017				
Aug-2017				
Sep-2017				
Oct-2017				
Nov-2017				
Dec-2017				



High Flow Sampling

- > Collect water quality data when inflows to Falls Lake are high
- > No samples collected in February or March.
 - Below average rainfall
 - Precipitation has occurred in small amounts which do not produce significant runoff events



































Bathymetry and Sediment Mapping

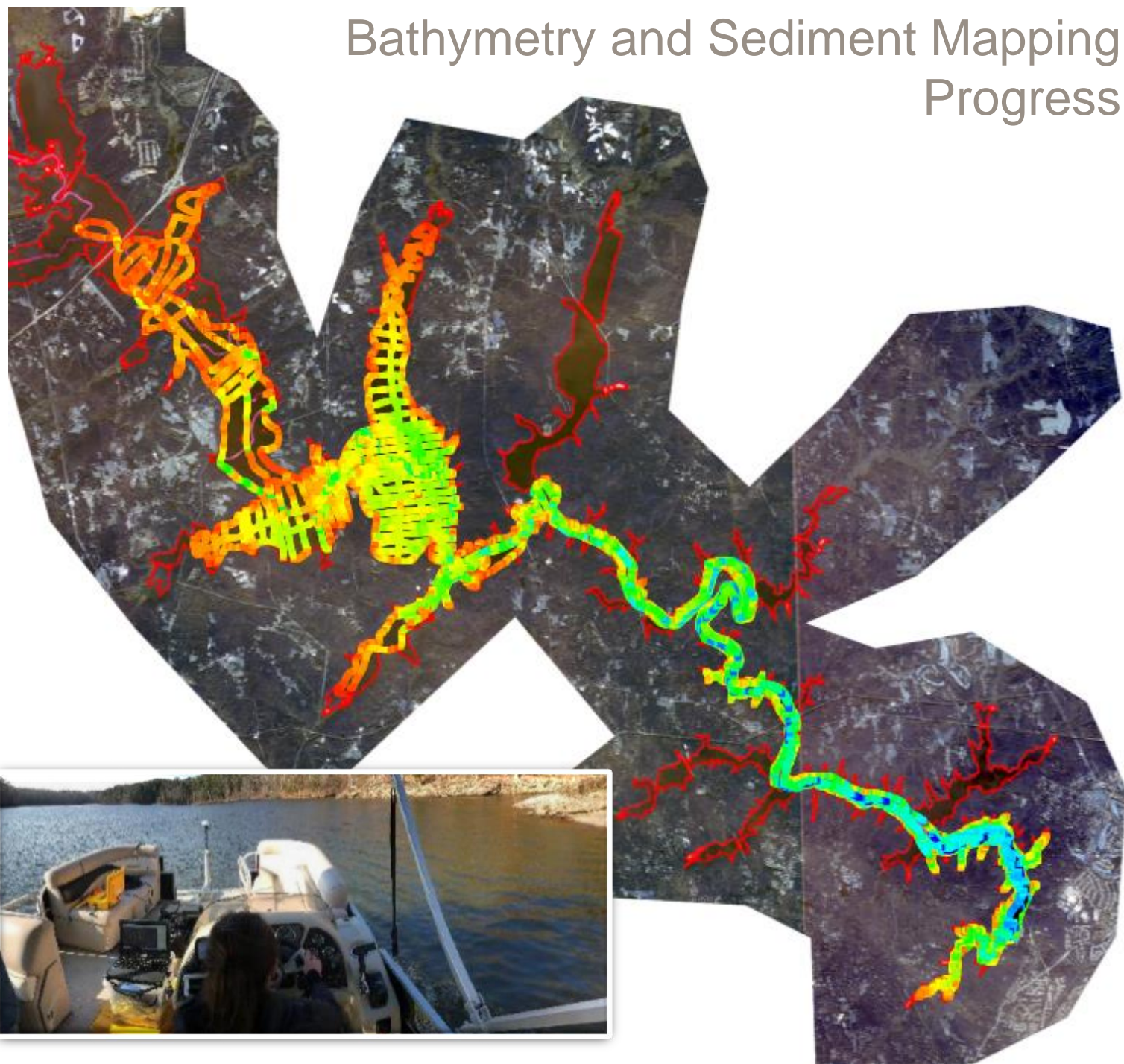
- > Map the underwater topography of the lake
- > Improve representation of the lake in the modeling
- > Started survey March 6



Bathymetry and Sediment Mapping Progress

Depth (meters)

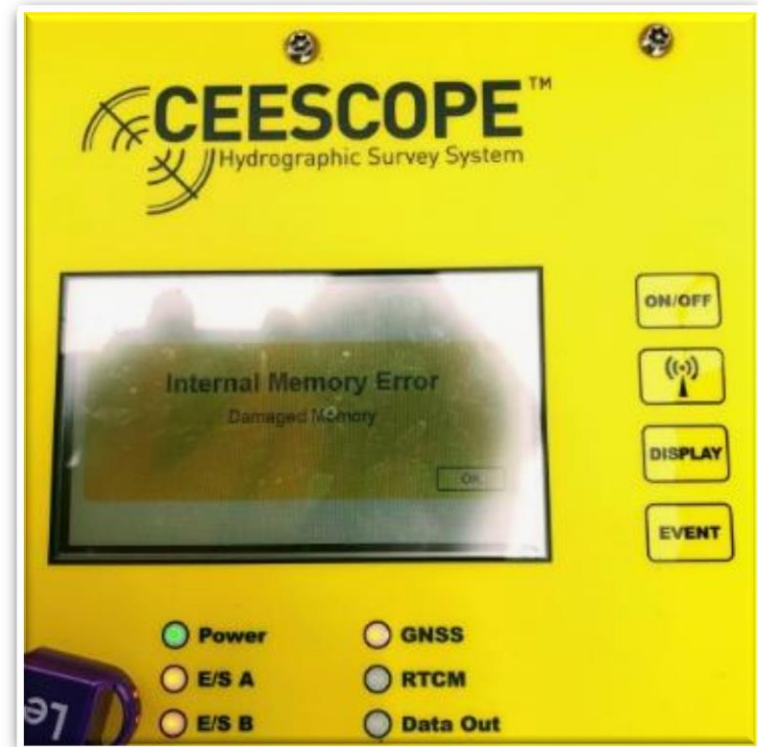
	0.00	0.50
	0.50	1.00
	1.00	1.50
	1.50	2.00
	2.00	2.50
	2.50	3.00
	3.00	3.50
	3.50	4.00
	4.00	4.50
	4.50	5.00
	5.00	5.50
	5.50	6.00
	6.00	6.50
	6.50	7.00
	7.00	7.50
	7.50	8.00
	8.00	8.50
	8.50	9.00
	9.00	9.50
	9.50	10.00
	10.00	10.50
	10.50	11.00
	11.00	11.50
	11.50	12.00
	12.00	12.50
	12.50	13.00
	13.00	13.50
	13.50	14.00
	14.00	14.50
	14.50	15.00





Bathymetry and Sediment Mapping

- > Mapping is about two-thirds complete
- > Field work is on hold until April 3
 - > Due to high wind last week
 - > Equipment repair





Special Studies – Lake sediment evaluation

- > Matt is meeting with Marc Alperin at UNC today to discuss results
- > Written report from Dr. Alperin will follow





Annual Report: May 2017

Compiling data sources for inclusion in 2016 annual report:

- NCSU - CAAE Lake Stations – **received**
- DWR Lake Stations – **received**
- DWR Algae – **received**
- City of Durham – **received**
- City of Raleigh – **in preparation**
- DWR Stream Stations - **not yet available**



