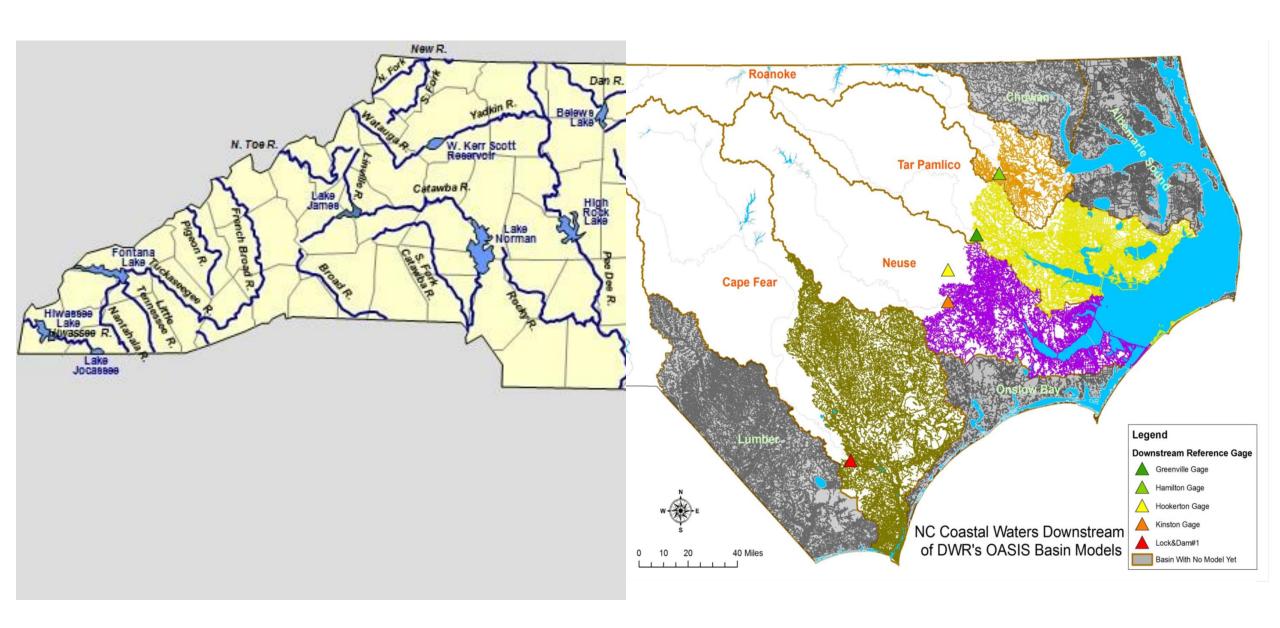
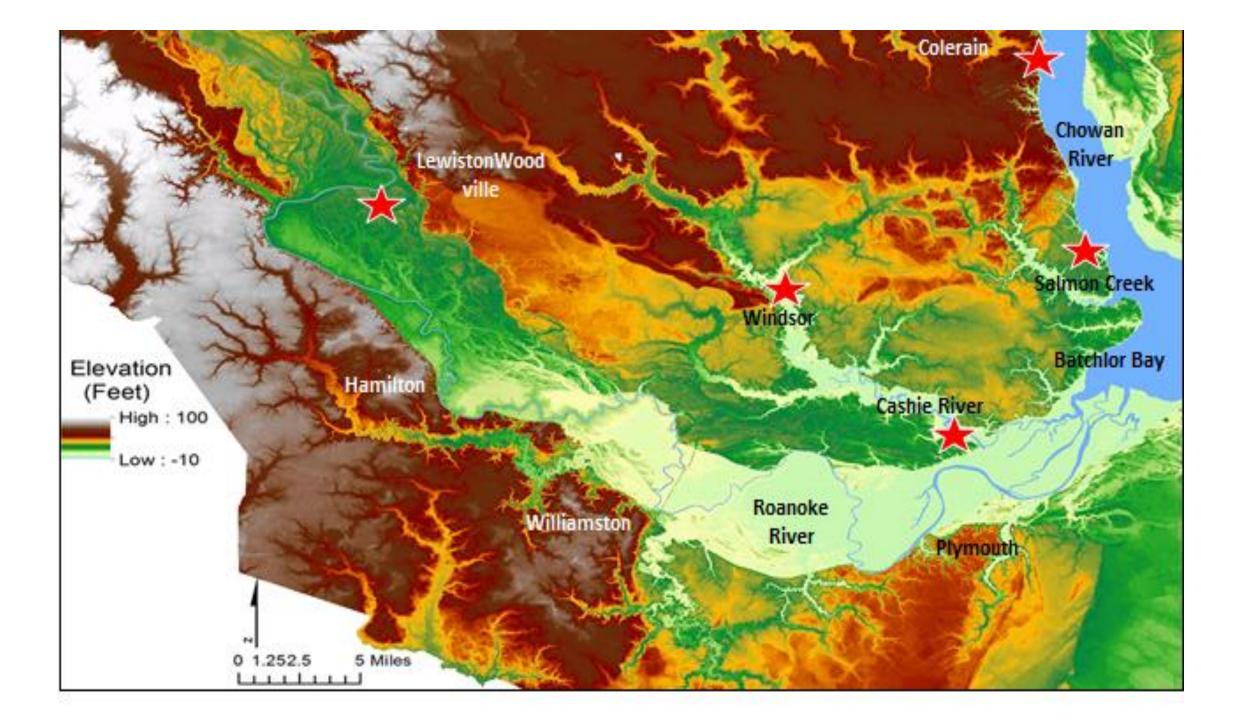


Downstream dynamics affecting upstream conditions of water level: examples from Bertie County

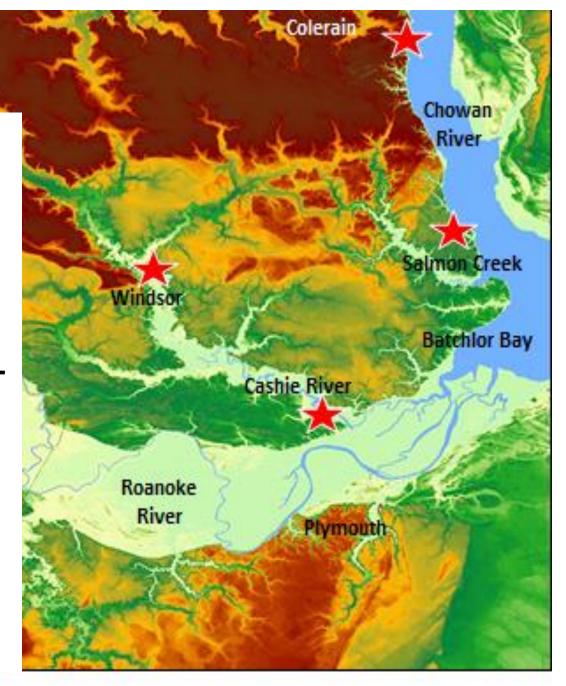
Robert R. Christian, Dorothea V. Ames and Stanley R. Riggs NC Land of Water & East Carolina University





Caveats

- > Preliminary results -
 - > with little analysis
- Done by a semi-retired ecologist
 - > not an active engineer
- > Focus on high flows and flooding -
 - > not low flows
- Focus on Cashie and ChowanRivers
 - **➤ Not Roanoke yet**
- Willingness to share data and ideas!!



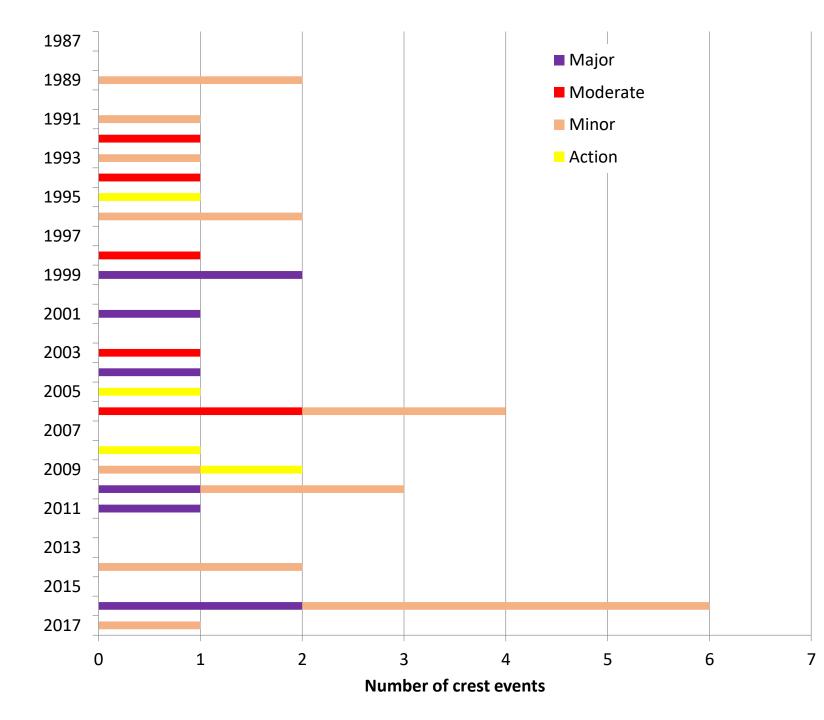


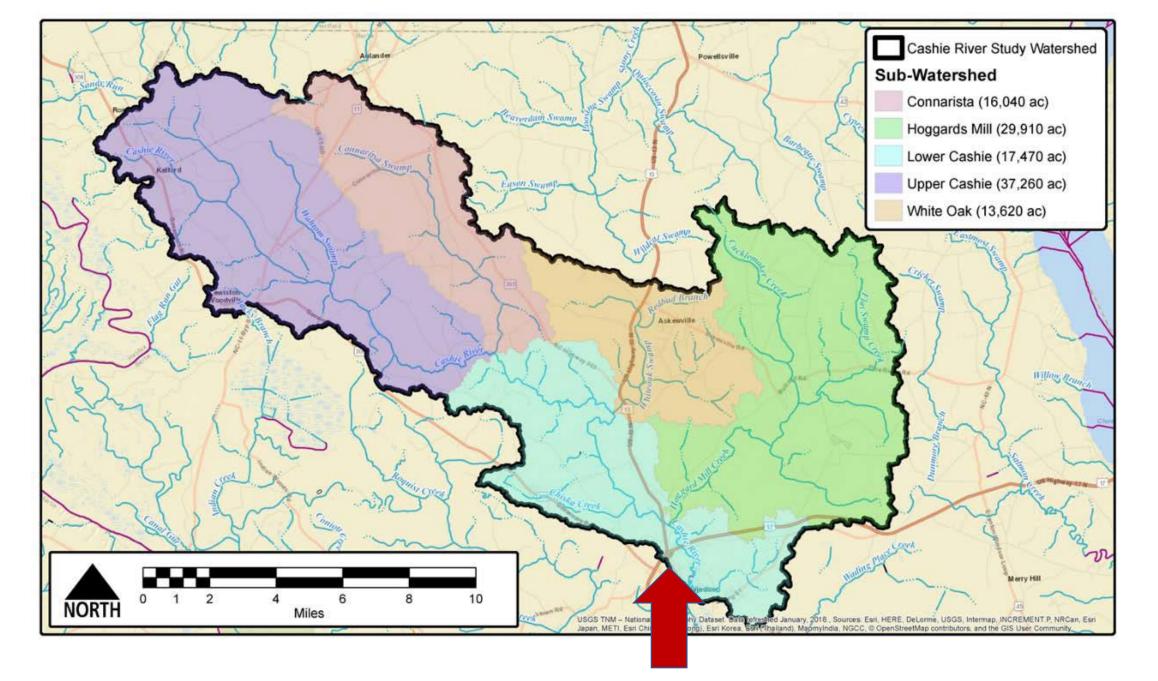




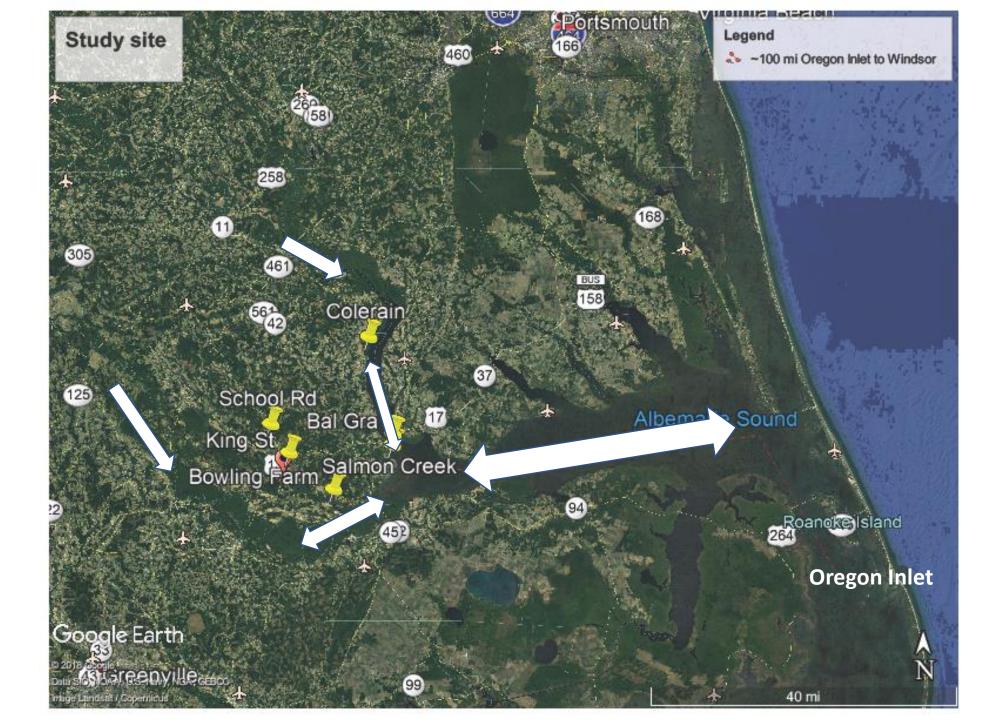


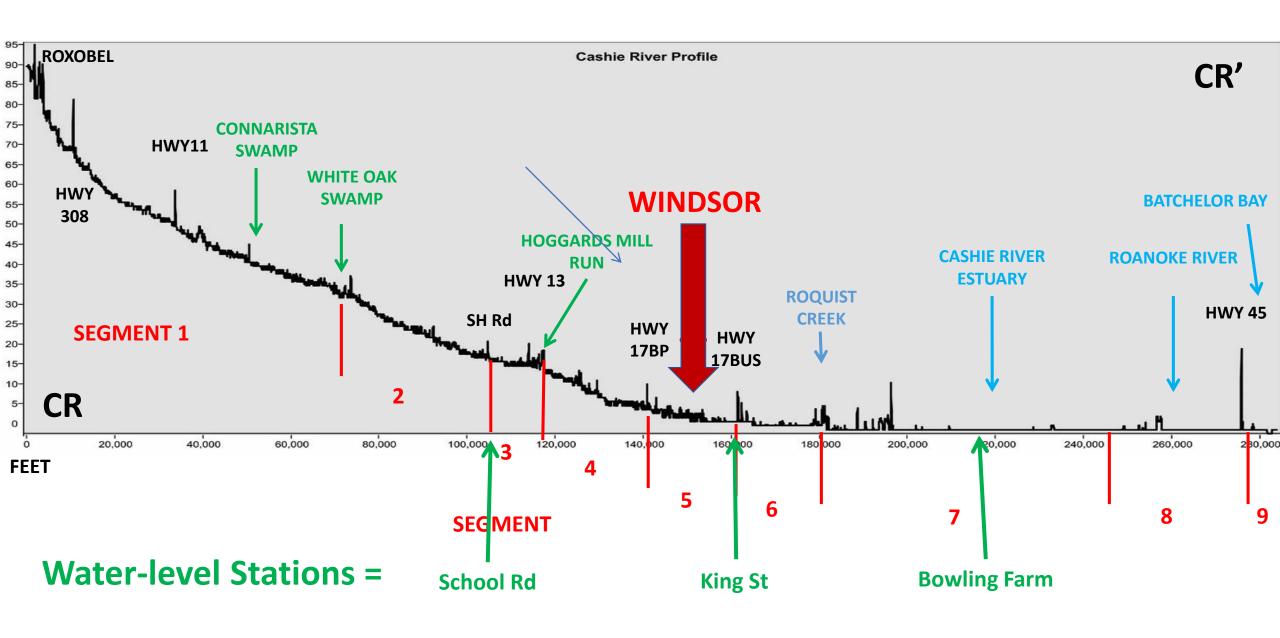
Timeline of 30 largest crest events at School Rd on the Cashie River

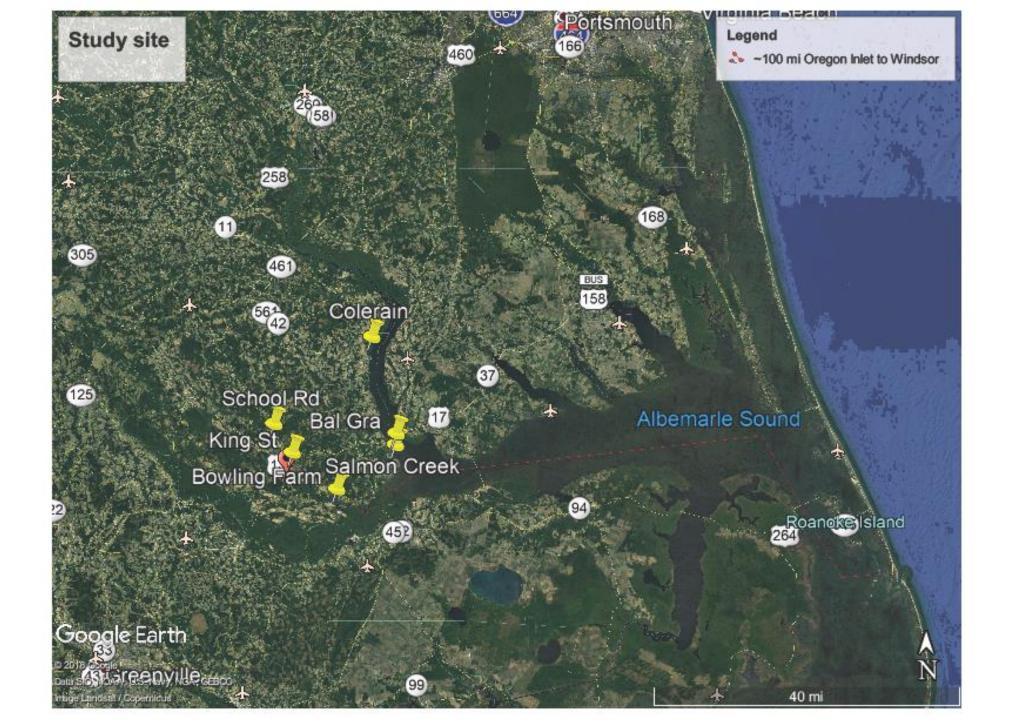


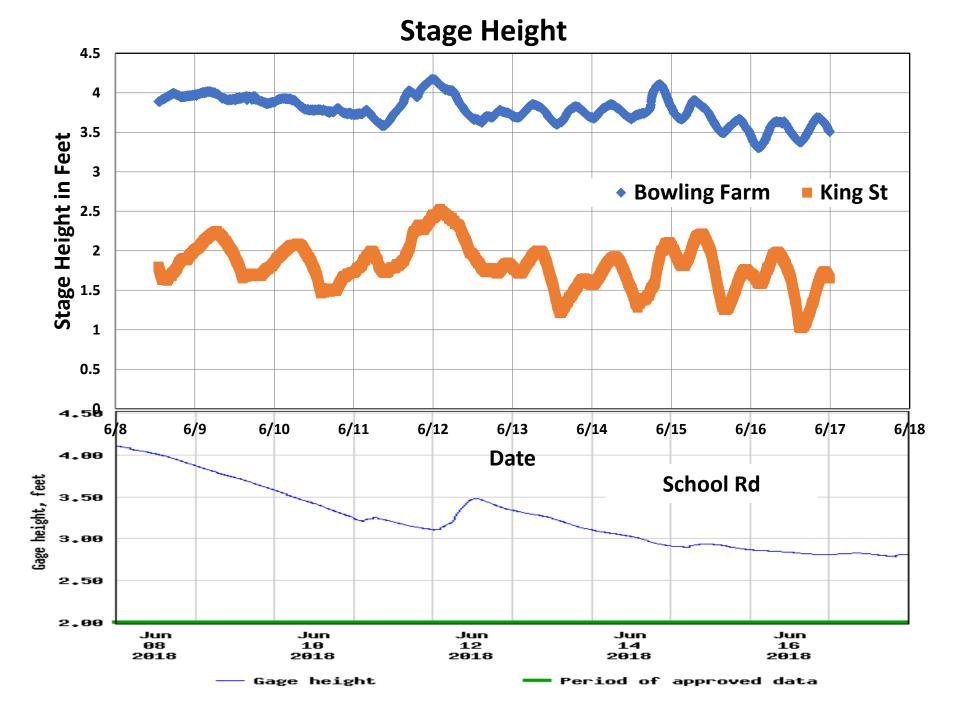


Windsor



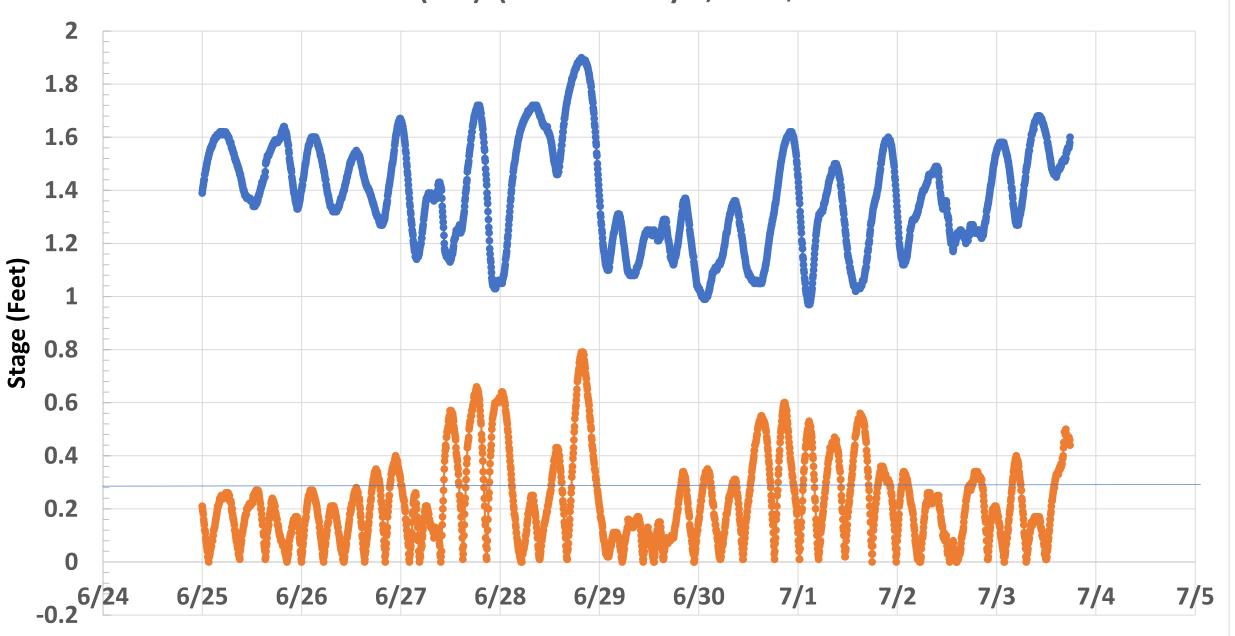


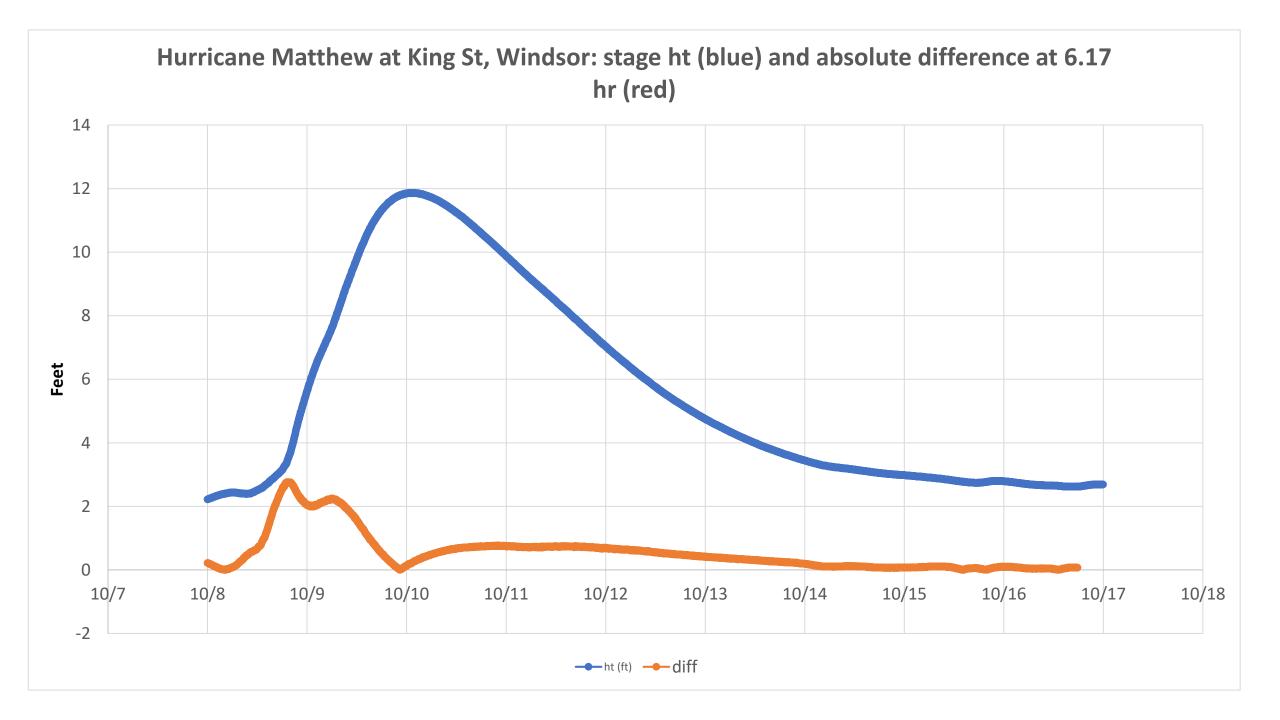


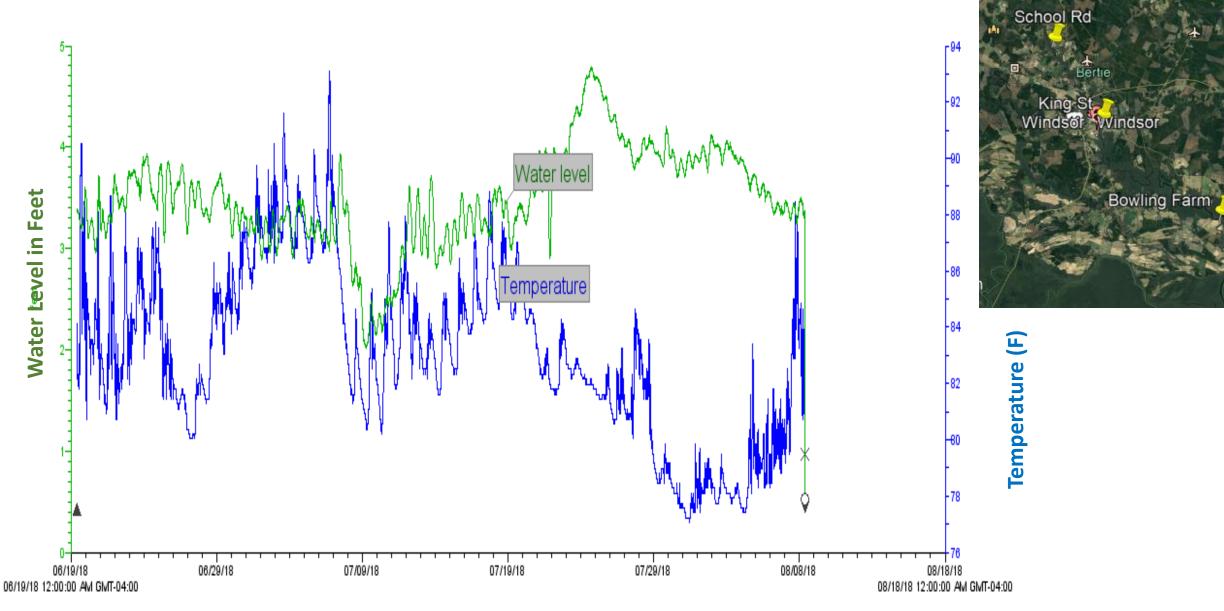




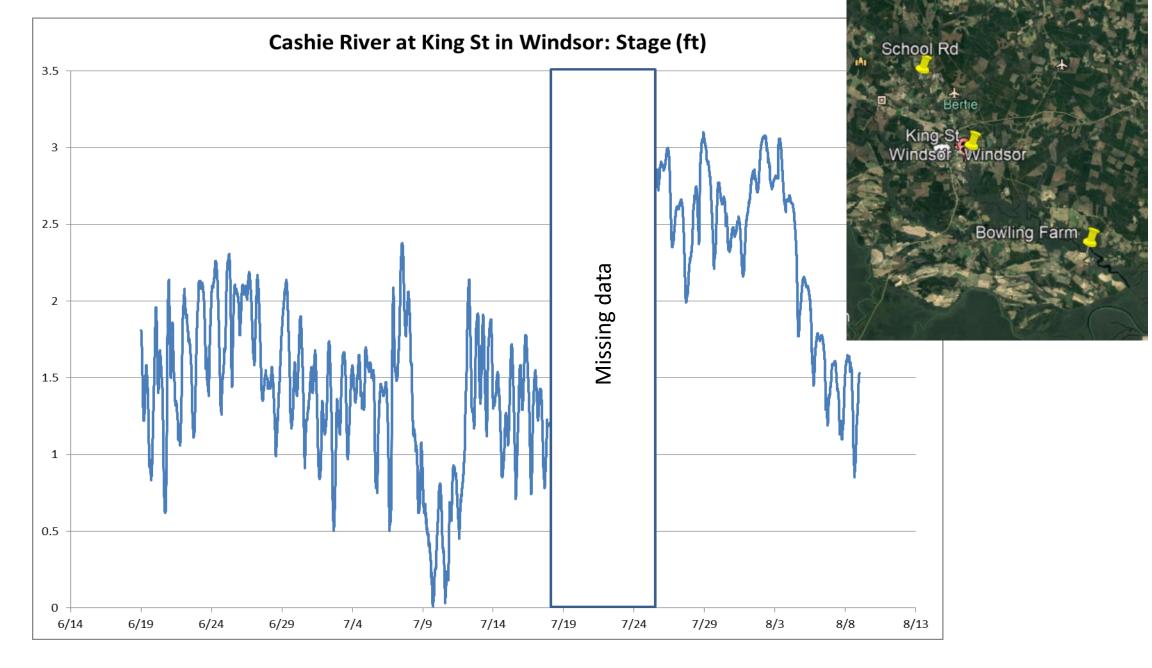
King St Stage Ht (blue) and absolute difference at intervals of 6 hr 10 min (red) (June 25 - July 4, 2014)



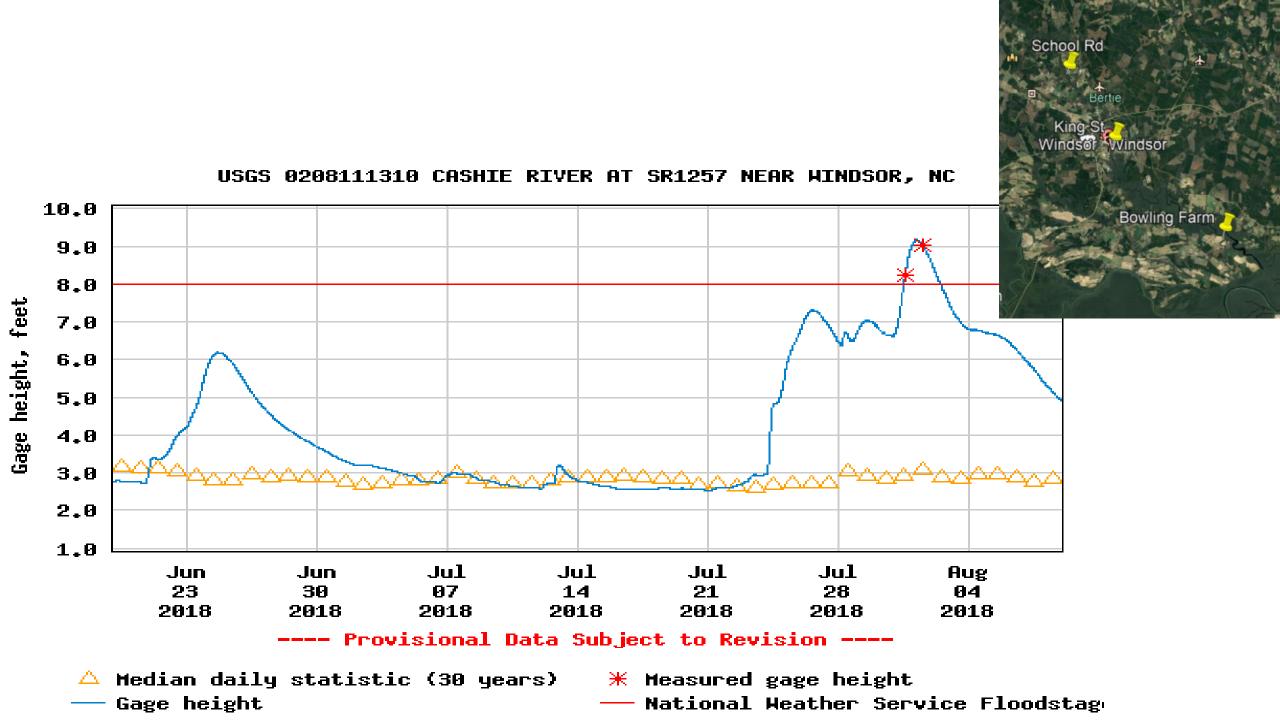




Bowling Farms on lower Cashie River (June 19 to August 8, 2018)

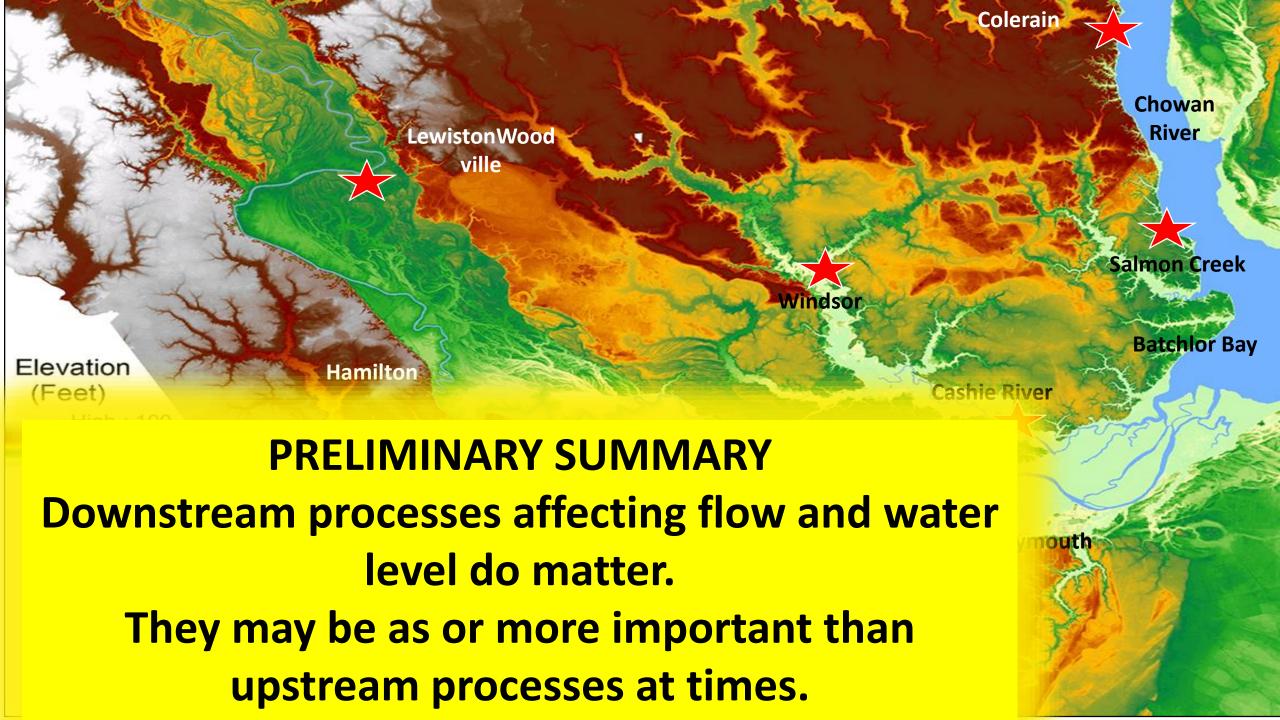


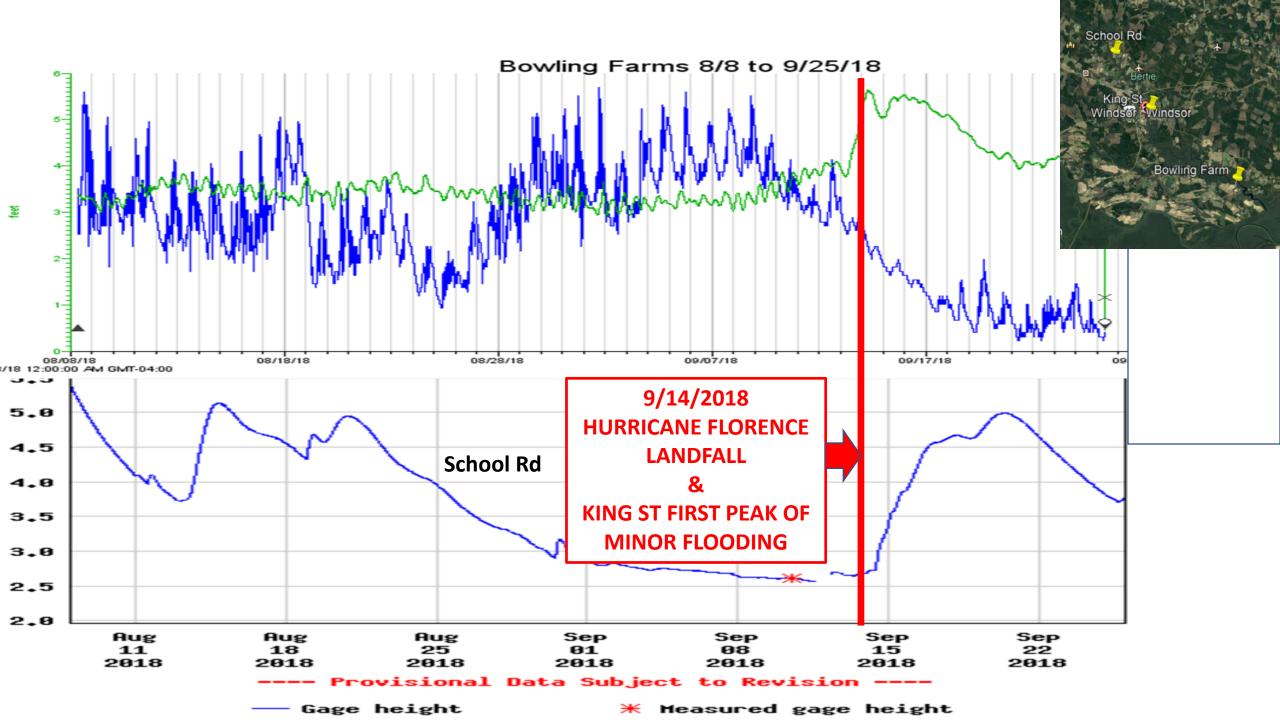
Cashie River at Windsor



Period of record and water level range time of June and August 2018

Location	Period of record	High water	High water	Low water	Low water	Difference
	(2018)	ft	date	ft	date	ft
Bowling Farm	6/19-8/8	4.8	7/24/2018	2.0	7/9/2018	2.8
Colerain	6/26-8/7	5.0	7/24/2018	1.7	7/9/2018	3.3
Bal Gra	6/19-8/8	4.1	7/24/2018	0.9	7/9/2018	3.2
Salmon Creek	7/12-8/8	3.9	7/24/2018	1.9	7/13/2018	2.0
Windsor	6/19-7/18:7/25-8/8	2.8	<u><</u> 7/28/2018	0.1	7/10/2018	2.7
School Road	6/19-8/8	9.2	8/1/2018	2.5	7/6-21/2018	6.7





NC FIMAN results at King St (Sep 11 to Oct 11, 2018)

