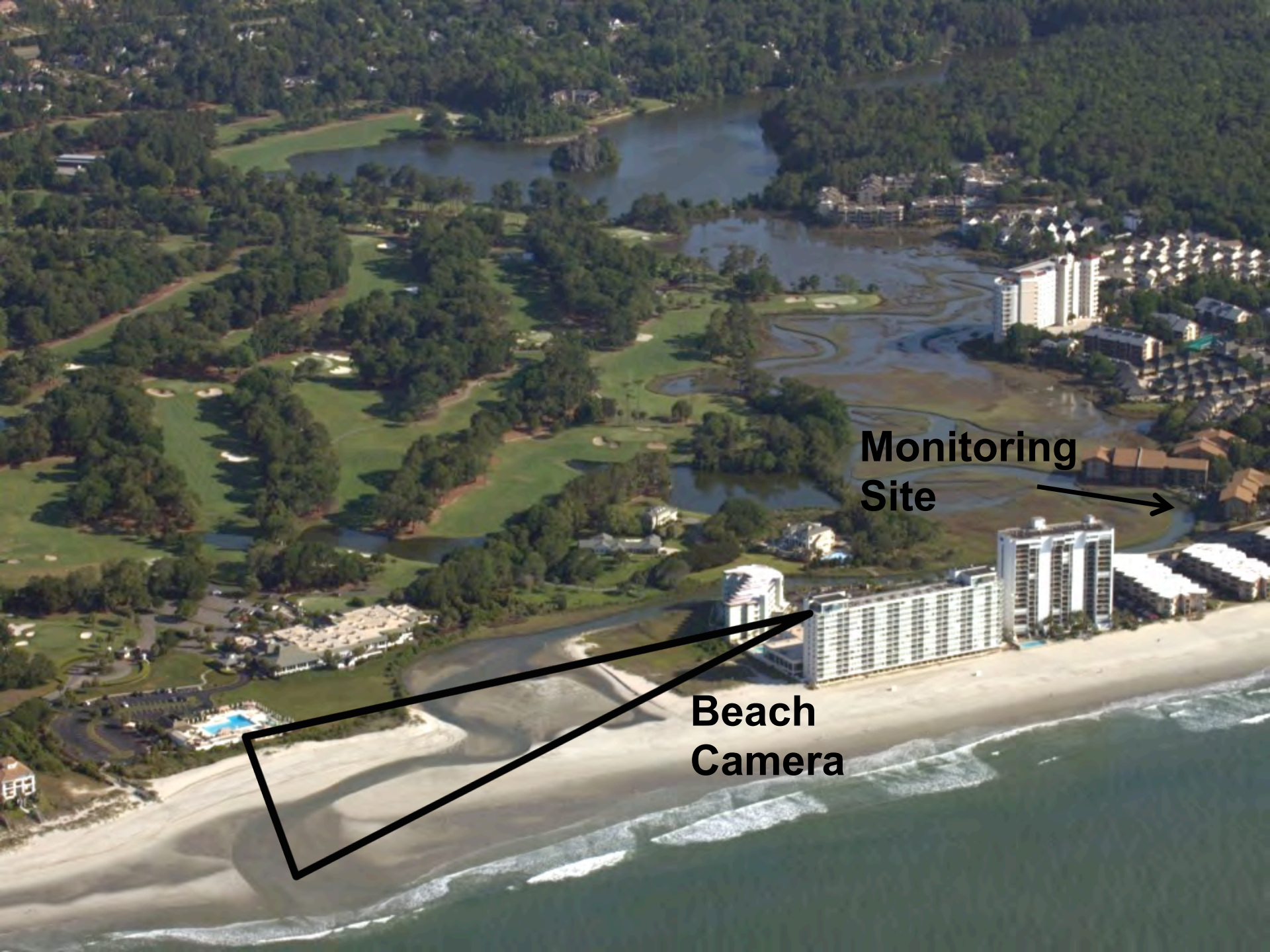


Impact of Beachface Geomorphology on Salt Marsh Flushing in Singleton Swash, Myrtle Beach

Rick Peterson¹, Rich Viso¹, Matt Carter¹,
and Tom Gerigan²

¹ School of Coastal and Marine Systems Science, Coastal Carolina University, Conway, SC

² Stormwater Division, Horry County, Conway, SC



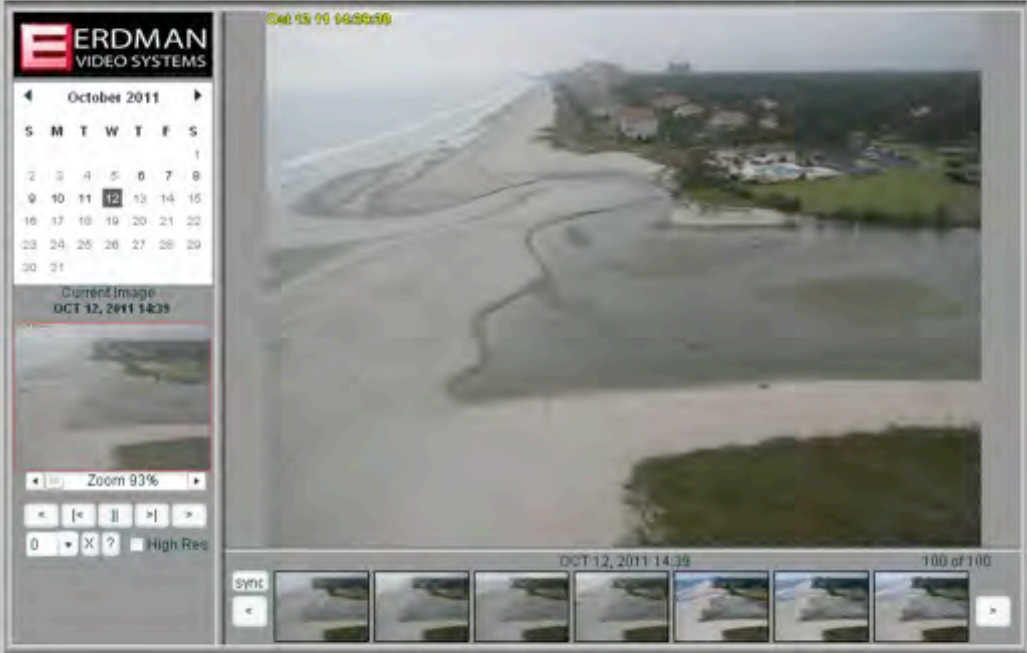
Monitoring Site



Beach Camera



CCU Beach Camera Website



ERDMAN VIDEO SYSTEMS

October 2011

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

Current Image
OCT 12, 2011 14:39

Zoom 93%


0 X ? High Res

sync

OCT 12, 2011 14:39 100 of 100

Click on the image for the full 8 megapixel shot... updated every 10 minutes

[Image Average and Variance](#)


COASTAL CAROLINA UNIVERSITY

<http://www.video-monitoring.com/beachcams/coastalcarolina/singletonswash/>



November 2010



December 2010



January 2011



February 2011



March 2011



April 2011



May 2011



June 2011



July 2011



August 2011



September 2011



October 2011

Hurricane Irene - August 27th, 2011



2011-08-26 15:23:29.187



2011-08-26 16:07:40.000



2011-08-26 16:51:35.906



2011-08-26 17:37:08.265

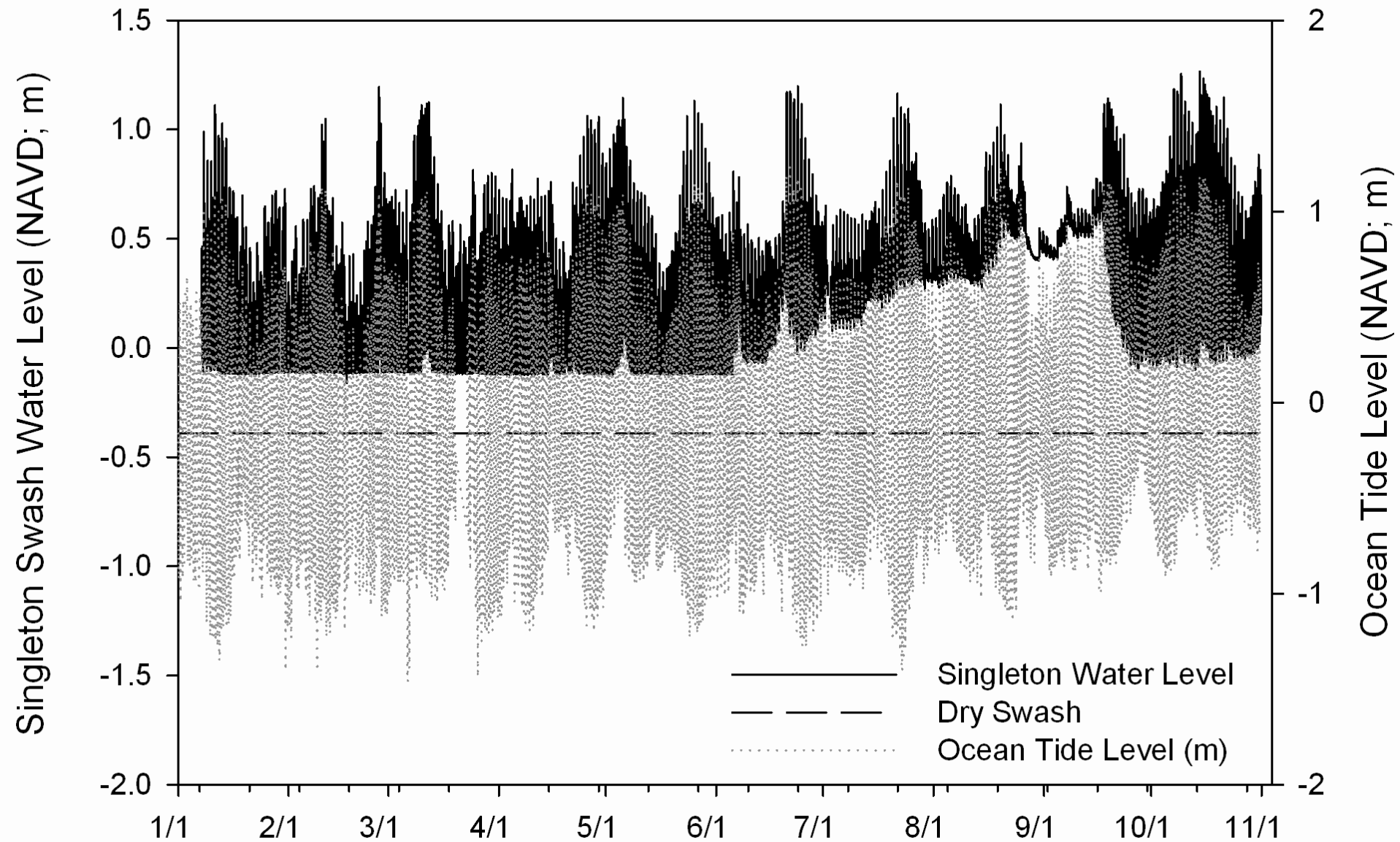
Hurricane Irene - August 27th, 2011



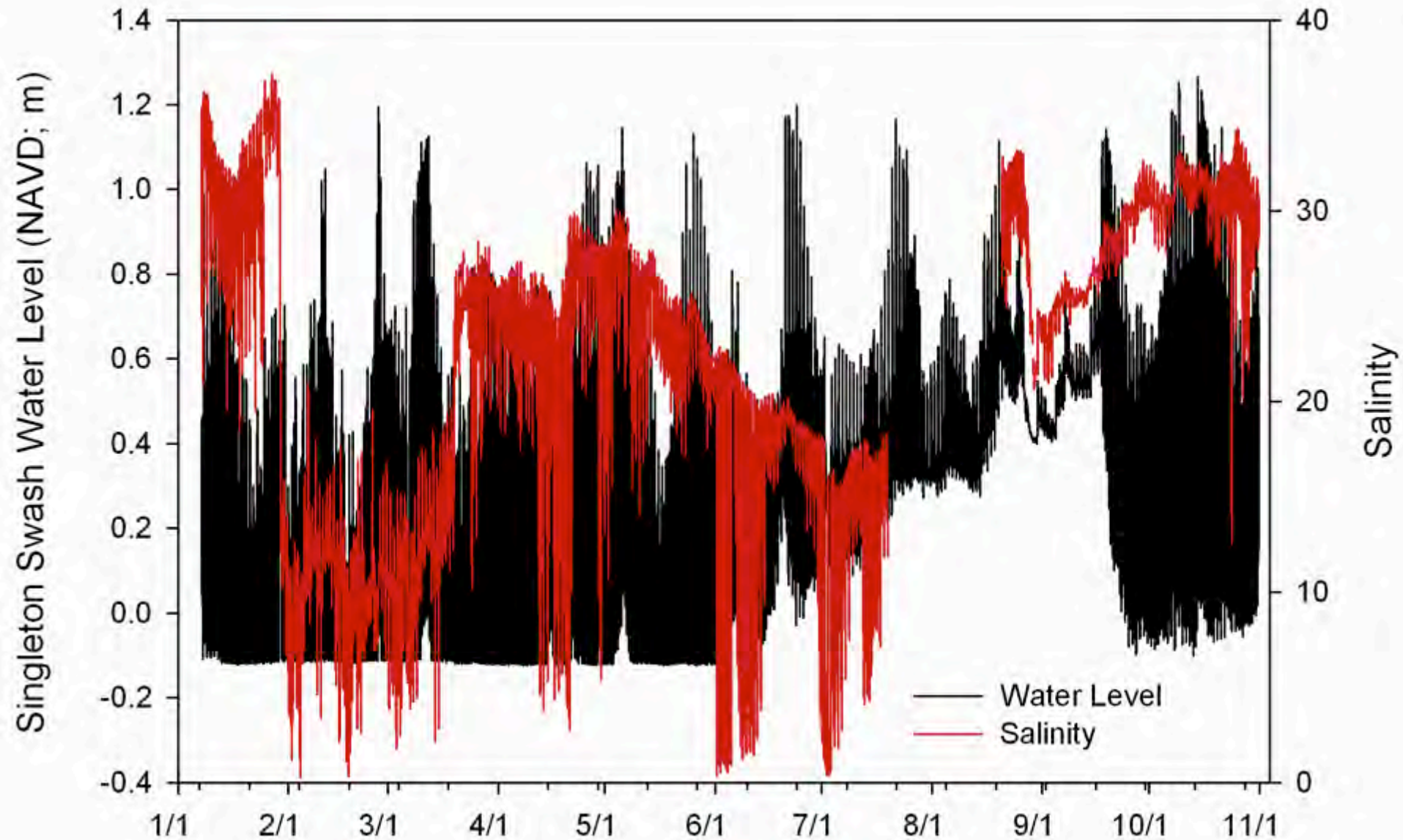
Withers Swash following a storm



2013 Singleton Swash Monitoring



2013 Singleton Swash Monitoring

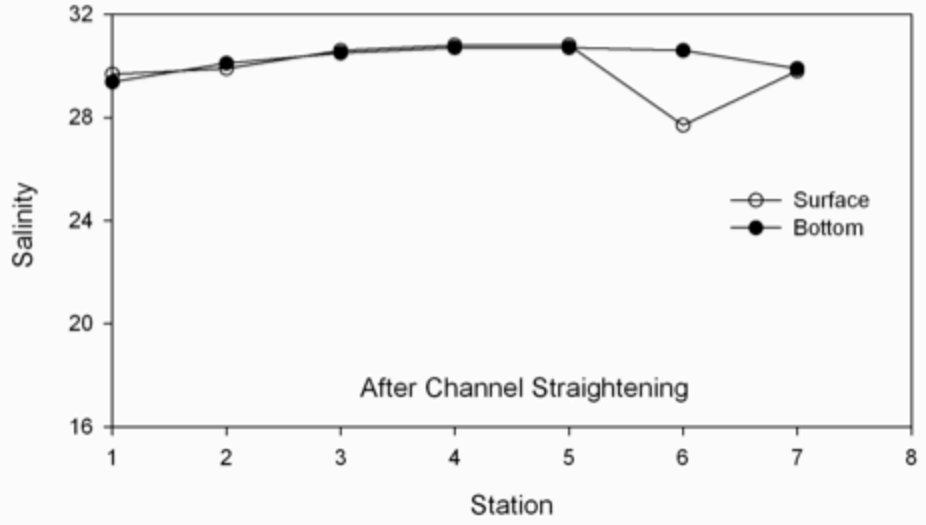
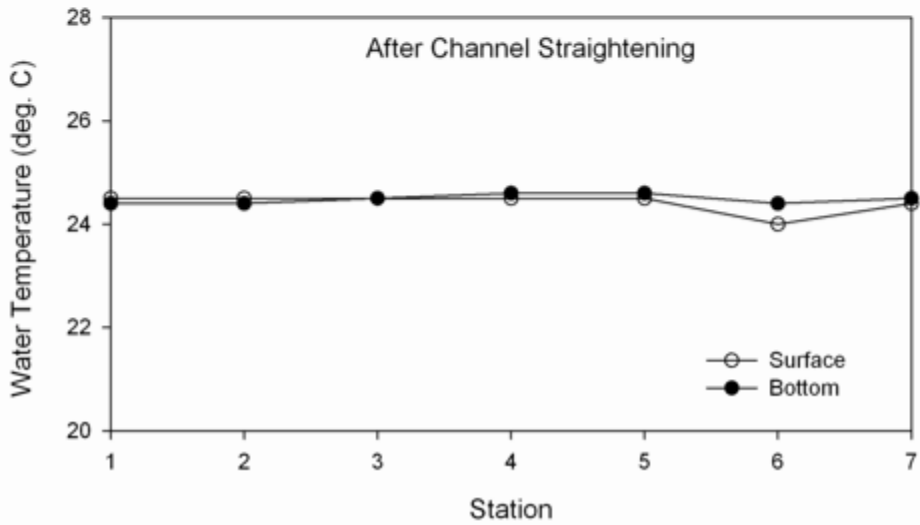
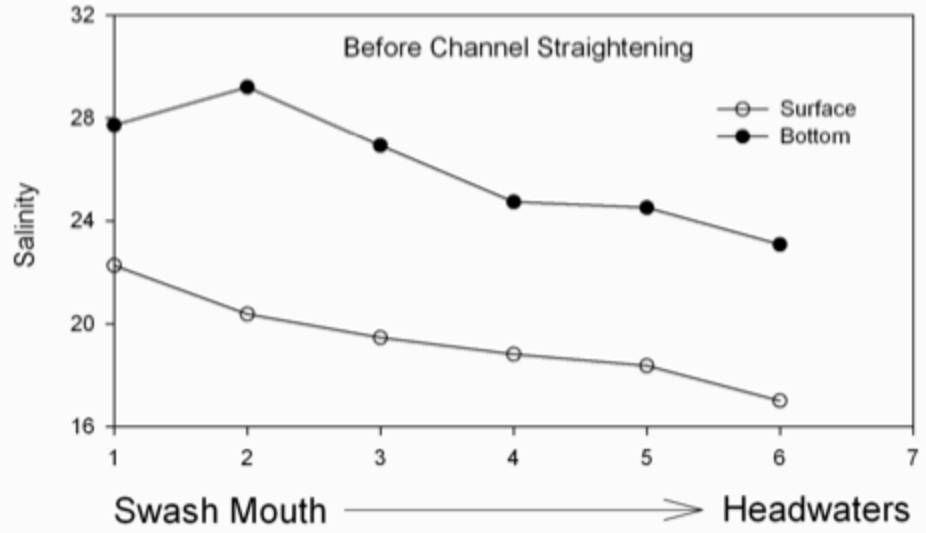
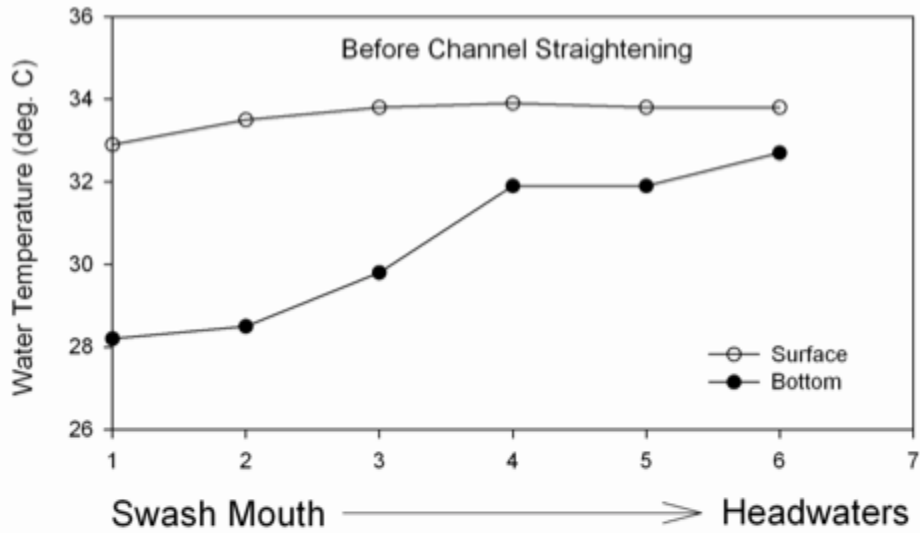


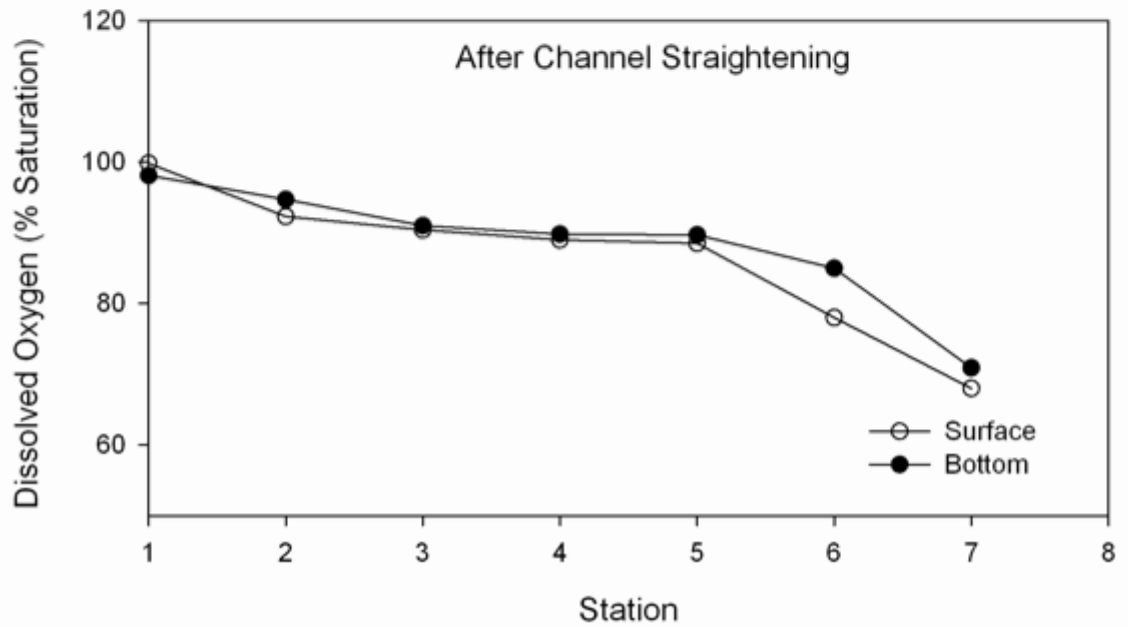
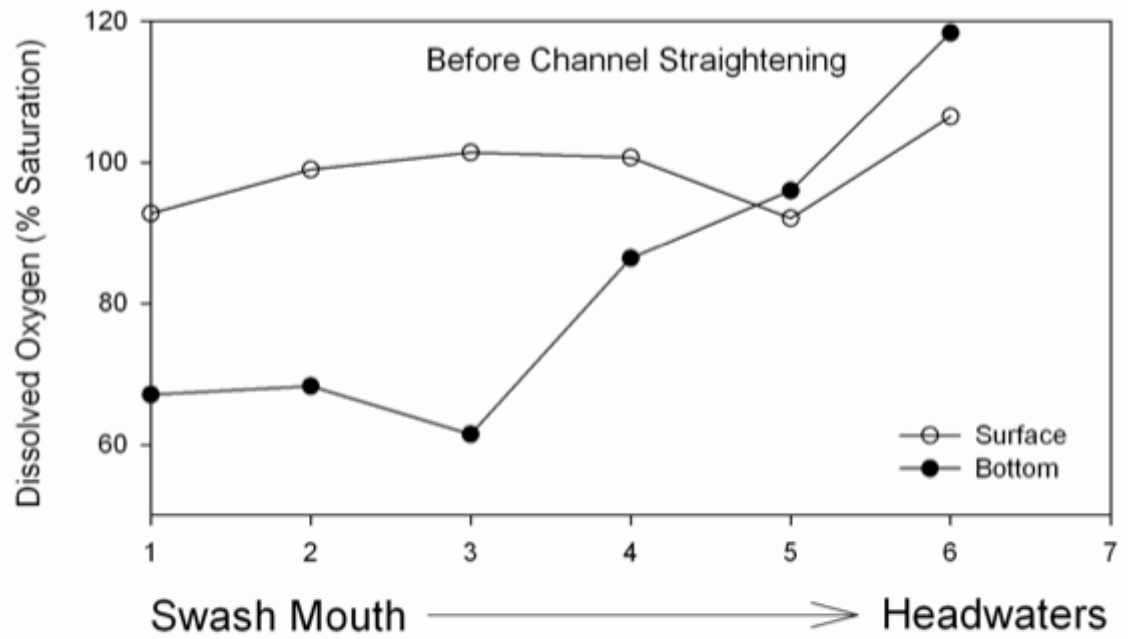
Before Channel
Straightening



After Channel
Straightening









Steps Forward for Continued Study...

1. Bi-monthly RTK GPS surveys of the beachface and channel elevation
2. Georectify beachcam images for comparison to RTK surveys
3. Weekly (low-tide) surveys of water quality parameters along swash channel
4. Groundwater tracer sampling
5. Phytoplankton monitoring and identification screening

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