

Site ID				14CTB-06			
Field Crew		Julie Bernier, Alisha Ellis, Scott Adams					
Date		3/28/14 --- JD 087					
Arrival Time		11:35 EDT		Departure Time		13:40 EDT	
Latitude		N 38.08804		Longitude		W 075.22086	
Water Depth (m)		< 1 cm					
Handheld GPS used		Garmin GPSmap 76S		GPS Waypoint		016	
YSI		---		Camera		Nikon AW100, D5200	
Sample Type/Sample		X, Measure, Time		Sample Type/Sample		X, Measure, Time	
DGPS Positioning							
GPS Session ID		A316					
Occupation Time (min)		30 min					
Surface/Grab				Sand Gouge Core:			
Pentrometer (marsh sites only)		0.75		Barrel Length (cm)			
Shear Strength (marsh sites only)		1.5		ITGODS (bottom of weld ≈ top of barrel) (cm)			
Forams (preserved, x2)		√		Recovered Core Length (cm)			
Grain Size		√		Core Catcher Used?			
Stable Isotopes/Metals		√		Distance from GPS			
Distance from GPS		30 cm		Azimuth from GPS			
Azimuth from GPS							
Marsh Push Core				Water Quality Parameters			
Pentrometer		0.75		Water Type (Estuary, Marsh, Standing, Marsh Backfill)			
Shear Strength (kg/cm ²)		1.5		Temperature (°C)			
Vegetation Type		Spartina sp?		Barometric Pressure			
Barrel Length (cm)		119 cm		Dissolved Oxygen (DO) (%)			
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)		68 cm		DO (mg/L)			
In-the-Ground Outside Depth to Surface (ITGODS) (cm)		55 cm		Specific Conductance (mS/cm)			
				Salinity			
				pH (-)			
Recovered Core Length (cm)		56 cm		ORP (mV)			
Distance from GPS		185 cm					
Azimuth from GPS		SE 145°					
Marsh Auger Core				Radium Sampling			
Number of Sections		1		Start Time			
Total Core Length (cm)		50 cm		Stop Time			
Distance from GPS		277 cm		Total Volume			
Azimuth from GPS		W 260°		Approximate Flow Rate			
Notes							
Warmest day yet, with light breeze ~ 10 mph out of SW; increasing clouds and wind in the afternoon as front moves in.							
Multiple attempts to take marsh push core, most with little penetration or no recovery (lost sediment out bottom of core).							
Filled core barrel with water and used plumbers plug to extract - bottom sediment was still "leaking out" -							
used "band-aid" core cap to stop sediment loss							
Site was a PIA to get to from OSV access - road ends in dense wooded area with a lot of brambles and downed trees -							
boat access looks very good to this site!!!							
Peat auger - core description (peat auger described at truck - no pvc):							
0 - 23 cm --- peat, brownish-grey fibrous root mat							
23 - 47 cm --- peat, borwnish-grey to dark brown fibric to hemic peat; visible root fragments decrease in size and content down-core;							
greyish horizon from 23-26 cm seems to be more clay-rich							
47 - 50 cm --- peat and clay, brownish peat interbedded with grey clay							
Photos							
DSCN0902.JPG to DSCN0904.JPG --- horse skeleton in woods by end of OSV access							
DSCN0905.JPG to DSCN0907.JPG, DSCN0912.JPG --- coring							
DSCN0908.JPG to DSCN0911.JPG --- N → E → S → W from site							
DSC_0001.JPG, DSC_002.JPG --- peat auger (0-50 cm)							
DSC_0003.JPG to DSC_006.JPG --- zoom photo of peat auger in overlapping ~ 20 cm sections							