

Site ID				14CTB-71			
Field Crew		Julie Bernier, Alisha Ellis, Scott Adams, Nick Nidzieko					
Date		4/3/14 --- JD 093					
Arrival Time		09:13 EDT		Departure Time		10:40 EDT	
Latitude		N 38.05464		Longitude		W 075.32333	
Water Depth (m)		---					
Handheld GPS used		Garmin GPSmap 76S		GPS Waypoint		058	
YSI		---		Camera		Nikon AW100, D5200	
Sample Type/Sample		X, Measure, Time		Sample Type/Sample		X, Measure, Time	
DGPS Positioning							
GPS Session ID		C758					
Occupation Time (min)		30 min					
Surface/Grab				Sand Gouge Core:			
Pentrometer (marsh sites only)		2.5		Barrel Length (cm)			
Shear Strength (marsh sites only)		1.25		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		110 cm		Azimuth from GPS			
Azimuth from GPS		W					
Marsh Push Core				Water Quality Parameters			
Pentrometer		2.5		Water Type (Estuary, Marsh, Standing, Marsh Backfill)			
Shear Strength (kg/cm ²)		1.25		Temperature (°C)			
Vegetation Type		Spartina sp?		Barometric Pressure (mmHg)			
Barrel Length (cm)		122 cm		Dissolved Oxygen (DO) (%)			
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)		55 cm		DO (mg/L)			
				Specific Conductance (mS/cm)			
In-the-Ground Outside Depth to Surface (ITGODS) (cm)		17 cm		Salinity			
		full penetration!		pH/pH (mV)			
Recovered Core Length (cm)		68 cm		ORP (mV)			
Distance from GPS		170 cm					
Azimuth from GPS		S					
Marsh Auger Core				Radium Sampling			
Number of Sections		4		Start Time			
Total Core Length (cm)		200		Stop Time			
Distance from GPS		198 cm		Total Volume			
Azimuth from GPS		S		Approximate Flow Rate			
Notes							
14CTB71 sample bags used at last site (relabeled) - 14CTB70 relabeled 14CTB71							
Finally a "real" marsh core! Signiicant compaction of push core but good recovery							
Peat auger - core description:							
0 - 21 cm --- peat, reddish-brown and gray muddy (clayey) hemic peat, with root fragments up to 10 cm long							
21 - 28 cm --- peat, dark gray to black hemic peat, clayey texture							
28 - 50 cm --- peat, gray to brownish-gray hemic peat, clayey texture							
50 - 58 cm --- peat, reddish- to brownish-gray hemic muddy peat							
58 - 100 cm --- clay, gray clay with root fragments becoming less common down-core; brownish horizon from 87-93 cm has more root fragments and higher organic content							
100 - 150 cm --- clay, gray to dark gray clay, with a few root fragments and organic clasts/horizons; root content is highest from 100-104 cm							
150 - 200 cm --- clay, dark gray to gray clay; last dark gray (more organic?) horizon occurs at ~ 166 cm; a few organic clasts and root fragments from 150-181 cm and at 196 cm; last section was very "soupy" on extraction - in groundwater table							
Photos							
DSCN1025.JPG to DSCN1029.JPG --- NE → N → NW → W → SW from site							
DSCN1030.JPG to DSCN1031.JPG --- on site							
DSC_0029.JPG, DSC_0030.JPG --- peat auger (0-50 cm)							
DSC_0031.JPG to DSC_0034.JPG --- zoom photo of peat auger in overlapping ~ 20 cm sections							
DSC_0035.JPG, DSC_0036.JPG --- peat auger (50-100 cm)							
DSC_0037.JPG to DSC_0040.JPG --- zoom photo of peat auger in overlapping ~ 20 cm sections							
DSC_0041.JPG, DSC_0042.JPG --- peat auger (100-150 cm)							
DSC_0043.JPG to DSC_0046.JPG --- zoom photo of peat auger in overlapping ~ 20 cm sections							
DSC_0047.JPG, DSC_0048.JPG --- peat auger (150-200 cm)							
DSC_0049.JPG to DSC_0052.JPG --- zoom photo of peat auger in overlapping ~ 20 cm sections							