Site ID	**14CTB-04**		
Field Crew	Julie Bernier, Scott Adams		
Date	4/2/14 --- JD 092		
Arrival Time	11:57 EDT	Departure Time	13:00 EDT
Latitude	N 38.04765	Longitude	W 075.23817
Water Depth (m)	< 1 cm		
Handheld GPS used	Garmin GPSmap 76S	GPS Waypoint	045
YSI	Pro Plus	Camera	Nikon AW100, D5200
Sample Type/Sample	**X, Measure, Time**	**Sample Type/Sample**	**X, Measure, Time**
DGPS Positioning			
GPS Session ID	C645		
Occupation Time (min)	30 min		
Surface/Grab		***Sand Gouge Core:***	
Pentrometer (marsh sites only)	1.5	Barrel Length (cm)	
Shear Strength (marsh sites only)	0.5	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	65 cm	Azimuth from GPS	
Azimuth from GPS	SW 225°		
Marsh Push Core		***Water Quality Parameters***	
Pentrometer	1.5	Water Type (Estuary, Marsh, Standing, Marsh Backfill)	Backfill
Shear Strength (kg/cm^2)	0.5	Temperature (°C)	17.8°
Vegetation Type	Spartina sp?	Barometric Pressure (mmHg)	765.1
Barrel Length (cm)	123 cm	Dissolved Oxygen (DO) (%)	6.2
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)	80 cm	DO (mg/L)	0.44
		Specific Conductance (mS/cm)	23.86
In-the-Ground Outside Depth to Surface (ITGODS) (cm)	73 cm	Salinity	14.51
		pH/pH (mV)	7.96 / -87.1
Recovered Core Length (cm)	46 cm	ORP (mV)	94.3
Distance from GPS	120 cm		
Azimuth from GPS	E 080°		
Marsh Auger Core		***Radium Sampling***	
Number of Sections	1	Start Time	
Total Core Length (cm)	45 cm	Stop Time	
Distance from GPS	206 cm	Total Volume	
Azimuth from GPS	NE 045°	Approximate Flow Rate	

Notes

Very thin root mat - difficult to get penetration in sandy sediment with push core or peat auger.
DGPS rover located ~ 150 cm SE of SET GPS monument (azimuth from GPS to SET 230°)

Peat auger - core description:
0 - 6 cm --- peat, brown to olive-brown hemic peat, with small root fragments
6 - 36 cm --- sand, gray sand with thin brown to black organic horizons
36 - 45 cm --- mud, borwn organic mud with sandy interbeds

Photos

DSCN1003.JPG to DSCN1006.JPG --- N → E → S → W from site
DSCN1007.JPG to DSCN1009.JPG ---marsh surface, marsh vegetation, and SET

DSC_0023.JPG to DSC_0024.JPG --- peat auger (0-50 cm)
DSC_0025.JPG to DSC_0028.JPG --- zoom photo of peat auger in overlapping ~ 20 cm sections