Site ID	**14CTB-25**		
Field Crew	Julie Bernier, Alisha Ellis, Scott Adams		
Date	3/30/14 --- JD 089		
Arrival Time	11:38 EDT	Departure Time	13:00 EDT
Latitude	N 38.14365	Longitude	W 075.18908
Water Depth (m)	3 - 5 cm		
Handheld GPS used	Garmin GPSmap 76S	GPS Waypoint	020
YSI	Pro Plus	Camera	Nikon AW100, D5200
Sample Type/Sample	**X, Measure, Time**	**Sample Type/Sample**	**X, Measure, Time**
DGPS Positioning			
GPS Session ID	C420		
Occupation Time (min)	30 min		
Surface/Grab		***Sand Gouge Core:***	
Pentrometer (marsh sites only)	1.25	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	190 cm	Azimuth from GPS	
Azimuth from GPS	N 005°		
Marsh Push Core		***Water Quality Parameters***	
Pentrometer	1.25	Water Type (Estuary, Marsh, Standing, Marsh Backfill)	Standing/Marsh
Shear Strength (kg/cm^2)	0.5	Temperature (°C)	11.5°
Vegetation Type	Spartina alterniflora?	Barometric Pressure (mmHg)	749.4
Barrel Length (cm)	122 cm	Dissolved Oxygen (DO) (%)	77.7
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)	85 cm	DO (mg/L)	7.2
		Specific Conductance (mS/cm)	36.33
In-the-Ground Outside Depth to Surface (ITGODS) (cm)	76 cm	Salinity	22.92
		pH/pH (mV)	7.38 / -53.2
Recovered Core Length (cm)	39 cm	ORP (mV)	9.0
Distance from GPS	360 cm		
Azimuth from GPS	NW 310°		
Marsh Auger Core		***Radium Sampling***	
Number of Sections	1	Start Time	
Total Core Length (cm)	44 cm	Stop Time	
Distance from GPS	390 cm	Total Volume	
Azimuth from GPS	N 350°	Approximate Flow Rate	

Notes

DGPS rover located ~ 3 m N of SET GPS monument (azimuth from GPS to SET 170°)
Attempted mutliple cores to improve recovery, inlcuding 2x with coring piston - recovery with coring piston was about 1/2x with no piston.
Core A --- Barrel length 122 cm, ITGIDS 85 cm, ITGODS 76 cm, core length 39 cm
Core B --- Barrel length 92 cm, ITGIDS 70 cm, ITGODS 56 cm, core length 25.5 cm

Peat auger - core description:
0 - 17 cm --- peat, olive-brown fibric root mat
17 - 29 cm --- peat, greyish-brown to borwn hemic peat
29 -44 cm --- sand, grey muddy sand with root fragments and thin black organic horizons

Photos

DSCN0929.JPG to DSCN0932.JPG --- N → E → S → W from site

DSC_0007.JPG, DSC0008.JPG --- peat auger (0 - 50 cm)
DSC_0009.JPG to DSC0011.JPG --- zoom photo of peat auger in overlapping ~ 20 cm sections