Site ID	**14CTB-14**		
Field Crew	Julie Bernier, Scott Adams		
Date	4/1/14 --- JD 091		
Arrival Time	12:25 EDT	Departure Time	13:38 EDT
Latitude	N 38.15149	Longitude	W 075.18822
Water Depth (m)	< 1 cm		
Handheld GPS used	Garmin GPSmap 76S	GPS Waypoint	029
YSI	Pro Plus	Camera	Nikon AW100, D5200
Sample Type/Sample	**X, Measure, Time**	**Sample Type/Sample**	**X, Measure, Time**
DGPS Positioning			
GPS Session ID	E529		
Occupation Time (min)	30 min		
Surface/Grab		***Sand Gouge Core:***	
Pentrometer (marsh sites only)	0.25	Barrel Length (cm)	65 cm
Shear Strength (marsh sites only)	0.5	ITGODS (bottom of weld ≈ top of barrel) (cm)	full penetration
Forams (preserved, x2)	√	Recovered Core Length (cm)	20 cm
Grain Size	√	Core Catcher Used?	No
Stable Isotopes/Metals	√	Distance from GPS	153 cm
Distance from GPS	305 cm	Azimuth from GPS	ENE 060°
Azimuth from GPS	NW 310°		
Marsh Push Core		***Water Quality Parameters***	
Pentrometer	0.25	Water Type (Estuary, Marsh, Standing, Marsh Backfill)	Backfill
Shear Strength (kg/cm^2)	0.5	Temperature (°C)	14.9°
Vegetation Type	Spartina sp?	Barometric Pressure (mmHg)	765.8
Barrel Length (cm)	124 cm	Dissolved Oxygen (DO) (%)	60.9
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)	76 cm	DO (mg/L)	5.57
		Specific Conductance (mS/cm)	26.25
In-the-Ground Outside Depth to Surface (ITGODS) (cm)	67 cm	Salinity	16.1
		pH/pH (mV)	7.41 / -5.53
Recovered Core Length (cm)	49.5 cm	ORP (mV)	71.5
Distance from GPS	91 cm		
Azimuth from GPS	W 260°		
Marsh Auger Core		***Radium Sampling***	
Number of Sections	1	Start Time	
Total Core Length (cm)	43 cm	Stop Time	
Distance from GPS	230 cm	Total Volume	
Azimuth from GPS	NW 310°	Approximate Flow Rate	

Notes

Sand auger "punched through" --- full penetration but poor recovery
Marsh core penetrated thick sand below root mat
Could not get full penetration with peat auger
DGPS rover located ~ 220 cm NNW of SET GPS monument (azimuth from GPS to SET 140°)

Peat auger - core description:
0 -7 cm --- peat, brown hemic peat with small root fragments
7 - 23 cm --- sand, grey sand, with a few organics
23 - 39 cm --- mud and sand, interbedded brown to grey mud and sand
39 - 43 cm --- mud and sand, brownish-grey organic-rich mud and grey sand, with a few visible root fragments

Photos

DSCN0980.JPG to DSCN0984.JPG --- "panorama" N → NE → E → SE → S from site
DSCN0985.JPG ---close-up of second (exclusion) SET across tidal inlet from site

DSC_0017.JPG to DSC_0019.JPG --- peat auger (0-50 cm)
DSC_0020.JPG to DSC_0022.JPG --- zoom photo of peat auger in overlapping ~ 20 cm sections