Site ID	**14CTB-11**		
Field Crew	Julie Bernier, Alisha Ellis, Scott Adams		
Date	3/30/14 --- JD 089		
Arrival Time	09:48 EDT	Departure Time	10:31 EDT
Latitude	N 38.11366	Longitude	W 075.19324
Water Depth (m)	3 - 5 cm		
Handheld GPS used	Garmin GPSmap 76S	GPS Waypoint	019
YSI	Pro Plus	Camera	Nikon AW100
Sample Type/Sample	**X, Measure, Time**	**Sample Type/Sample**	**X, Measure, Time**
DGPS Positioning			
GPS Session ID	A419		
Occupation Time (min)	30 min		
Surface/Grab		***Sand Gouge Core:***	
Pentrometer (marsh sites only)	0.75	Barrel Length (cm)	65 cm
Shear Strength (marsh sites only)	1	ITGODS (bottom of weld ≈ top of barrel) (cm)	16 cm
Forams (preserved, x2)	√	Recovered Core Length (cm)	15 cm
Grain Size	√	Core Catcher Used?	No
Stable Isotopes/Metals	√	Distance from GPS	165 cm
Distance from GPS	310 cm	Azimuth from GPS	NE 040°
Azimuth from GPS	S 190°		
Marsh Push Core		***Water Quality Parameters***	
Pentrometer	0.75	Water Type (Estuary, Marsh, Standing, Marsh Backfill)	Standing/Marsh
Shear Strength (kg/cm^2)	1	Temperature (°C)	11.3°
Vegetation Type	Spartina sp?	Barometric Pressure (mmHg)	749.2
Barrel Length (cm)	124 cm	Dissolved Oxygen (DO) (%)	37.7
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)	88 cm	DO (mg/L)	6.71
		Specific Conductance (mS/cm)	25.34
In-the-Ground Outside Depth to Surface (ITGODS) (cm)	85 cm	Salinity	15.46
		pH/pH (mV)	7.45 / -58.2
Recovered Core Length (cm)	32 cm	ORP (mV)	-61.0
Distance from GPS	267 cm		
Azimuth from GPS	SE 120°		
Marsh Auger Core		***Radium Sampling***	
Number of Sections		Start Time	
Total Core Length (cm)		Stop Time	
Distance from GPS		Total Volume	
Azimuth from GPS		Approximate Flow Rate	

Notes

Weather day yesterday - heavy rain and low visibility.
Cool and cloudy with scattered showers, winds 5-10 mph out of south increasing to 15 mph out of WNW in the afternoon.
Marsh sediment is very sandy and saturated --- poor sand auger and push core recovery
Very difficult to get penetration with push core; no penetration with peat auger

Photos

DSCN0921.JPG to DSCN0924.JPG --- E → S → W → N from site
DSCN0925.JPG, DSCN0926.JPG --- "Jesus bearing his cross"

DSCN0927.JPG, DSCN0928.JPG --- horseshoe crabs are huge here!