

Site ID14CTB - 476			
USGS Field Activity Number (FAN)		2014-322-FA (14CTB02)	
Date	26-Oct-14	Day of Year	299
Field Crew		Julie Bernier, Marci Marot	
Platform	Over-Sand Vehicle	Location	Assateague Island, MD
Arrival Time (EDT)	16:14	Departure Time (EDT)	
Latitude	38.24598	Longitude	-75.13522
Water Depth (m)	3-5 cm		
Handheld GPS used	Garmin GPSMap 76S	GPS Waypoint	064
YSI	Pro Plus	Camera	Nikon D5200
Sample Type/SampleX, Measure, Time		Sample Type/SampleX, Measure, Time	
DGPS Positioning		Radium Sampling: Mn Fiber	
GPS Reciever Used	Z-Xtreme Rover A	Start Time	
GPS Session ID	A064	Stop Time	
Occupation Time (min)	> 30 STATIC	Total Volume	
Surface/Grab		Water Quality Parameters	
Vegetation/Sediment Type	Spartina marsh	Water Type (estuary, marsh, standing, marsh backfill)	
Pentrometer (marsh sites only)	1.0	Temperature (°C)	
Shear Strength (kg/cm²) (marsh sites only)	17.5	Barometric Pressure (mm Hg)	
Forams (preserved, x2)	Yes	Dissolved Oxygen (DO) (%)	
Bulk Density/LOI	Yes	DO (mg/L)	
Grain Size	Yes	Specific Conductance (mS/cm)	
Stable Isotopes/Metals	Yes	Salinity	
Distance from GPS	2 m	pH (-)	
Azimuth from GPS	SW 215°	ORP (mV)	
Marsh Push Core: 4" Polycarbonate Barrel		Sand Gouge Core: AMS Sand/Loose Sediment Probe	
Vegetation Type		Barrel Length (cm)	60.96
Pentrometer		ITGODS (bottom of weld ≈ top of barrel) (cm)	Full penetration
Shear Strength (kg/cm²)		Recovered Core Length (cm)	55, 38
Barrel Length (cm)		Core Catcher Used?	No
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)		Distance from GPS	20 cm
In-the-Ground Outside Depth to Surface (ITGODS) (cm)		Azimuth from GPS	SE 120°
Compaction (cm)			
Recovered Core Length (cm)			
Distance from GPS			
Azimuth from GPS			
Marsh Auger Core: Eijkelpamp Peat Sampler		Shovel (Dig) Core: AMS Sharpshooter Shovel	
Number of Sections	1	Recovered Depth (cm)	
Total Core Length (cm)	41	Distance from GPS	
Distance from GPS	50 cm	Azimuth from GPS	
Azimuth from GPS	SW 230°		
Notes			
Marsh/peat core site in Spartina marsh adjacent to site 395.			
Surface sediment samples from below ~ 4 cm algal growth from standing water "hole" in vegetation growth.			
Shear vane set at 265 kg/cm², numbers flashed 11.9, 14.5, 17.5 on 3 tries.			
Peat auger 41 cm to refusal.			
0-4 cm: live plant material, little or no matrix.			
4-16 cm: sandy peat - fibric root mat with sandy mud organic-rich matrix; with root fibers up to 1-2 cm wide.			
16-19 cm: organic-rich sandy mud; with finer root fibers.			
19-41 cm: muddy sand; with banded gray (cleaner) and olive-brown (more organic-rich, with root fragments / organic fibers) horizons.			
Tried marsh push core 3x with zero recovery - cannot plug core barrel into sand, and loose root mat is not cohesive enough.			
Same with shovel core - how to get and recover in unconsolidated roots and muck?			
Photos			
Nikon D5200: DSC_0353.JPG and DSC_0354.JPG: peat auger (whole core)			
DSC_0355.JPG through DSC_0357.JPG: overlapping ~ cm sections			