

Site ID				14CTB - 462, 14CTB - 474 (Field Replicates)			
USGS Field Activity Number (FAN)		2014-322-FA (14CTB02)					
Date		25-Oct-14		Day of Year		298	
Field Crew		Julie Bernier, Marci Marot					
Platform		Over-Sand Vehicle		Location		Assateague Island, MD	
Arrival Time (EDT)		11:12		Departure Time (EDT)		Not recorded	
Latitude		38.24953		Longitude		-75.13293	
Water Depth (m)							
Handheld GPS used		Garmin GPSMap 76S		GPS Waypoint		045	
YSI				Camera		Nikon D5200	
Sample Type/Sample		X, Measure, Time		Sample Type/Sample		X, Measure, Time	
DGPS Positioning				Radium Sampling: Mn Fiber			
GPS Reciever Used		Z-Xtreme Rover A		Start Time			
GPS Session ID		A045		Stop Time			
Occupation Time (min)		5		Total Volume			
Surface/Grab				Water Quality Parameters			
Vegetation/Sediment Type		Sand + veg		Water Type (estuary, marsh, standing, marsh backfill)			
Pentrometer (marsh sites only)				Temperature (°C)			
Shear Strength (kg/cm <sup>2</sup> ) (marsh sites only)				Barometric Pressure (mm Hg)			
Forams (preserved, x2)		Yes (x4)		Dissolved Oxygen (DO) (%)			
Bulk Density/LOI		Yes (x2)		DO (mg/L)			
Grain Size		Yes (x2)		Specific Conductance (mS/cm)			
Stable Isotopes/Metals		Yes (x2)		Salinity			
Distance from GPS		20 cm		pH (-)			
Azimuth from GPS		NE 035°		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/cm <sup>2</sup> )				Recovered Core Length (cm)		50	
Barrel Length (cm)				Core Catcher Used?		No	
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)				Distance from GPS		Not recorded	
In-the-Ground Outside Depth to Surface (ITGODS) (cm)				Azimuth from GPS		Not recorded	
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				Recovered Depth (cm)			
Total Core Length (cm)				Distance from GPS			
Distance from GPS				Azimuth from GPS			
Azimuth from GPS							
Notes							
Sand and thin vegetation (Panicum?) on downslope from higher overwash to very thin (~ 10m wide) bayside "marsh."							
Vegetation - Spartina? and Panicum?							
Vegetation and type definitely seems to control elevation differneces and extent of sandy deposits.							
This fan unlike WTx4 has a very obvious slope from oceanside dunes to back-barrier marshes and bay.							
DGPS site A046: bayside marsh; site A047: on fan E of site.							
Trench: sand with banding to 36 cm then hit water table.							
Sand auger: 0-50 cm; 0~15 cm - relatively clean sand; some dark gray banding from 15~25 cm.							
Gradation with gray and brownish banding from 25~29 cm; below 29 cm more regular brownish "organic" layers with root and veg material.							
Cannot see same brownish organics in trench as in sand auger only 15 cm away --> highly variable distribution, even around trench.							
How to differentiate between "T0" and event layers where the "marsh" substrate is not organic rich?							
Photos							
Nikon D5200: DSC_0211.JPG and DSC_0212.JPG: site photos							
DSC_0213.JPG: from bayside marsh							
DSC_0214.JPG through DSC_0217.JPG: N --> E --> S --> W from site							
DSC_0218.JPG: vegetation adjacent to site; DSC0219.JPG: marsh vegetation							
DSC_0220.JPG through DSC_0222.JPG: trench photos (poor contrast from sun/shade)							
DSC_0223.JPG and DSC_0224.JPG: opposite trench wall							