

Site ID				14CTB - 431, 14CTB - 470 (Field Replicates)			
USGS Field Activity Number (FAN)		2014-322-FA (14CTB02)					
Date		23-Oct-14		Day of Year		296	
Field Crew		Julie Bernier, Marci Marot					
Platform		Over-Sand Vehicle		Location		Assateague Island, MD	
Arrival Time (EDT)		13:51		Departure Time (EDT)		14:25	
Latitude		38.1204		Longitude		-75.18386	
Water Depth (m)							
Handheld GPS used		Garmin GPSMap 76S		GPS Waypoint		019	
YSI				Camera		Canon A63, 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		A019		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 ²) (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		35 cm		pH (-)			
Azimuth from GPS		E 100°		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)		32	
Shear Strength (kg/cm ²)				Recovered Core Length (cm)		29	
Barrel Length (cm)				Core Catcher Used?		No	
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)				Distance from GPS		25 cm	
In-the-Ground Outside Depth to Surface (ITGODS) (cm)				Azimuth from GPS		NE 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				Recovered Depth (cm)			
Total Core Length (cm)				Distance from GPS			
Distance from GPS				Azimuth from GPS			
Azimuth from GPS							
Notes							
Near crest of dune/"hummock" with sparse vegetation (Panicum?).							
Trench: grayish sand layer ~ 32 cm from surface at hard pack contact.							
Samples: 14CTB-431-T1 (below contact), 14CTB-431-T2 (above contact).							
Digging down to ~ 70 cm exposed additional faint darker gray (heavy mineral?) layers.							
Do these represent "lags" like we see in depressed rippled areas adjacent to dunes?							
Sand auger: could not punch through hard pack sand at 32 cm.							
Photos							
Canon A630: IMG_210.JPG through IMG_213.JPG: N --> E --> S --> W from site							
IMG_214.JPG and IMG_215.JPG: E to site from GPR transect - tried to capture elevation change							
Nikon D5200: DSC_0059.JPG through DSC_0066.JPG: trench and ripples							