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|----------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------|-----------------------|
| Site ID14CTB - 452                                                                                                         |                   |                                                       |                       |
| 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)                                                                                                         | 10:07             | Departure Time (EDT)                                  | Not recorded          |
| Latitude                                                                                                                   | 38.24709          | Longitude                                             | -75.13394             |
| Water Depth (m)                                                                                                            |                   |                                                       |                       |
| Handheld GPS used                                                                                                          | Garmin GPSMap 76S | GPS Waypoint                                          | 055                   |
| YSI                                                                                                                        |                   | 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                                                                                                             | A055              | 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/cm²) (marsh sites only)                                                                                 |                   | 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                                                                                                          | 50 cm             | pH (-)                                                |                       |
| Azimuth from GPS                                                                                                           | SE 120°           | 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)                            | 47                    |
| Barrel Length (cm)                                                                                                         |                   | Core Catcher Used?                                    | No                    |
| In-the-Ground Inside Depth to Surface (ITGIDS) (cm)                                                                        |                   | Distance from GPS                                     | 60 cm                 |
| In-the-Ground Outside Depth to Surface (ITGODS) (cm)                                                                       |                   | Azimuth from GPS                                      | E 100°                |
| 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                                                                                                                      |                   |                                                       |                       |
| Low-lying wet sand near toe of overwash fan ~ 50 m to "marsh" edge.                                                        |                   |                                                       |                       |
| "Marsh" - sandy substrate with inlet to estuary, but more organic-rich mucky surface.                                      |                   |                                                       |                       |
| Patchy bare sand and vegetation - Panicum? grading into Spartina? marsh, with Juncus marsh bordering woody scrub to south. |                   |                                                       |                       |
| A lot of variability in vegetation here.                                                                                   |                   |                                                       |                       |
| DGPS site A056: off toe in thin strip of adjacent marsh (10~25 m wide along-shore).                                        |                   |                                                       |                       |
| Site shows lots of horse and deer traffic.                                                                                 |                   |                                                       |                       |
| Trench: water table at ~ 40 cm; backfill and trench wall collapse; backfill 5 ppt salinity.                                |                   |                                                       |                       |
| Sample 14CTB-452-T0: 38-40 cm, dark gray sand with roots above brownish organic contact.                                   |                   |                                                       |                       |
| Sand auger: 47 cm from surface; gradational transition to darker gray sand below 25 cm.                                    |                   |                                                       |                       |
| 34-42 cm - organic rich with roots/veg fragments.                                                                          |                   |                                                       |                       |
|                                                                                                                            |                   |                                                       |                       |
| Photos                                                                                                                     |                   |                                                       |                       |
| Nikon D5200: DSC_0284.JPG and DSC_0285.JPG: site photos                                                                    |                   |                                                       |                       |
| DSC_0286.JPG through DSC_0289.JPG: N --> E --> S --> W from site                                                           |                   |                                                       |                       |
| DSC_0290.JPG through DSC_0295.JPG: panorama S --> W --> NW from site                                                       |                   |                                                       |                       |
| DSC_0296.JPG through DSC_0298.JPG: trench photos                                                                           |                   |                                                       |                       |
| DSC_0299.JPG: excavated organic-rich material                                                                              |                   |                                                       |                       |
|                                                                                                                            |                   |                                                       |                       |