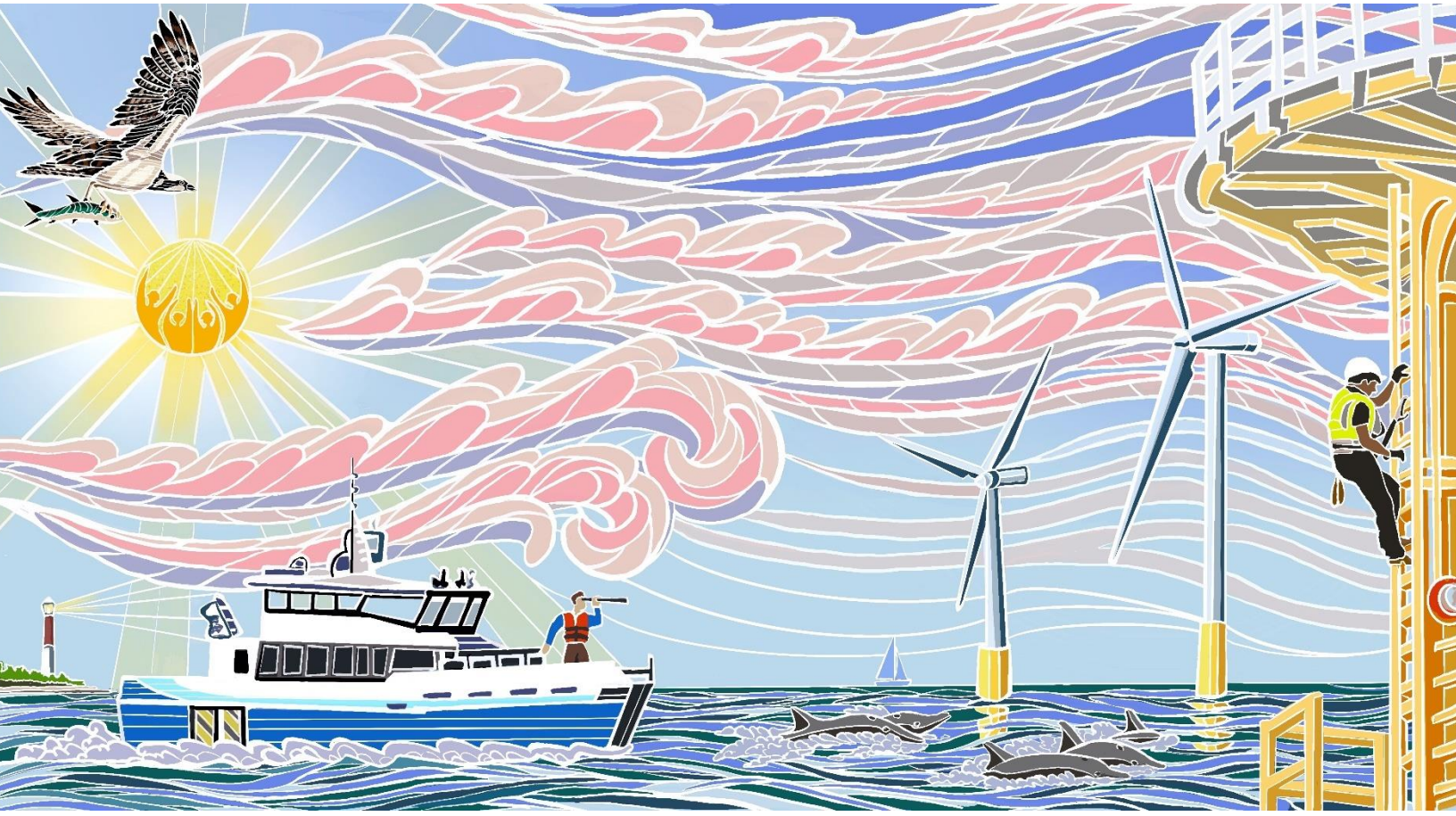

Appendix II-G3

Sediment Profile and Plan View Imaging Survey Report - 2022

March 2024

Sediment Profile and Plan View Imaging Survey of the Atlantic Shores Offshore Wind Project Areas

May 27–July 16, 2022

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ACRONYMS AND ABBREVIATIONS

aRPD	apparent redox potential discontinuity
ASOW	Atlantic Shores Offshore Wind
BOEM	Bureau of Ocean and Energy Management
cm	centimeter(s)
CMECS	Coastal and Marine Ecological Classification Standard
DSC	Digital Still Camera
ECC	Export Cable Corridor
EFH	essential fish habitat
Eh	oxidation/reduction potential
FGDC	Federal Geographic Data Committee
ft	feet/foot
GUI	graphical user interface
Integral	Integral Consulting Inc.
ISO	International Standard Organization
km	kilometer(s)
L	liter(s)
lb	pound(s)
m	meter(s)
MB	megabyte
mL	milliliter(s)
mm	millimeter(s)
NECCNJ	Northern Export Cable Corridor New Jersey Landfall
NECCNY	Northern Export Cable Corridor New York Landfall
NECCT	Northern Export Cable Corridor Trunk
NEF	Nikon Electronic Format
NMFS	National Marine Fisheries Service
OIS	Ocean Imaging Systems
PV	plan view

QA/QC	quality assurance and quality control
RPD	redox potential discontinuity
SD	Secure Digital
SLR	single lens reflex
SPI	sediment profile imaging
SWI	sediment-water interface
U.S.	United States
UTC	Coordinated Universal Time
W	watt

1 PROJECT BACKGROUND

The Atlantic Shores Offshore Wind (ASOW) farm is planned to be constructed off the coast of New Jersey within renewable energy lease areas OCS-A 0499, OCS-A 0549, and OCS-A 0541. Survey activities within these lease areas, along several Export Cable Corridors (ECCs) and landfall approaches, and in control areas have been in progress since 2020. Figure 1-1 shows the Atlantic Shores lease areas, and the potential ECCs and landfall approaches. This data report presents the results of the sediment profile imaging and plan view (SPI–PV) imaging survey that was conducted in Lease Area OCS-A 0549 (OCS-A 0549), and along the Northern Export Cable Corridor Trunk (NECCT), and the Northern Export Cable Corridor New Jersey Landfall (NECCNJ) and Northern Export Cable Corridor New York Landfall (NECCNY) from late May to mid-July 2022. The SPI–PV survey is one element of the investigations designed to characterize benthic habitats and macrofauna communities within the areas of potential impact as well as in control areas. This benthic characterization is being conducted in accordance with Bureau of Ocean and Energy Management (BOEM 2019) and National Marine Fisheries Service (NMFS 2021) guidelines, and includes the mapping of essential fish habitat (EFH) as defined in NMFS 2021. The guidance specifies the collection of the following priority information:

- Identify and confirm the dominant benthic macrofaunal and macrofloral communities and substrates present where development is proposed
- Identify potentially sensitive seafloor habitats, specifically associated with EFHs, and other biologically sensitive resources in the vicinity of proposed structures
- Establish a pre-construction baseline that may allow detection of changes to any post-construction benthic habitats associated with proposed operations
- Collect additional information aimed at reducing uncertainty associated with baseline estimates and/or to inform the interpretation of (other) survey results
- Develop an approach to quantify any substantial changes in the benthic community composition associated with a proposed operation.

The NMFS (2021) guidance recommends steps for mapping fish habitat to ensure benthic information collected for offshore development projects is sufficient for BOEM to meet requirements for the EFH consultation under the Magnuson-Stevens Fishery Conservation and Management Act. This information is intended to clarify and supplement the BOEM (2019) benthic survey guidelines.

This data report details the SPI–PV survey methods and results conducted at the ASOW project areas from May 27 to July 16, 2022. This high-resolution photographic seafloor survey was conducted as part of the benthic infauna and habitat assessment sampling program, which also included sediment grab sample collection for benthic infauna taxonomy and physical

parameters (e.g., grain size, total organic carbon). A real-time video camera attached to the grab sampler provided video footage of seafloor habitat at each grab sample location. Those data sets are reported elsewhere and no synthesis or interpretation across these data sets is presented here.

2 SPI CAMERA/PLAN VIEW VIDEO SURVEY

This report summarizes the SPI–PV survey image collection methods (Section 2.1) and image analysis approach (Section 2.2) used for the 2022 ASOW survey. This report presents 2022 SPI and PV image analysis results, and the classification of the SPI–PV data into the Coastal and Marine Ecological Classification Standard (CMECS) framework (Federal Geographic Data Committee [FGDC] 2012), in Section 3. CMECS is the framework recommended by BOEM (2013, 2019) and NMFS (2021) for development projects on the continental shelf off the United States (U.S.) East Coast.

2.1 SPI–PV IMAGE COLLECTION

The SPI–PV survey was conducted as part of the ASOW benthic survey; the images were collected concurrently with the benthic grab and live feed video survey aboard the M/V *Fugro Enterprise* from May 27 to June 14, 2022. The SPI–PV images in the relatively shallow NECCNY area (Raritan Bay) were collected aboard the R/V *Yeti* from July 14–16, 2022. At each station, the vessel was positioned at the target location and five replicate camera drops were conducted, with the goal of obtaining a minimum of three analyzable, paired SPI and PV images from each station. During each deployment, the SPI–PV system was determined to have reached bottom visually when the winch cable was observed to go slack. The SPI–PV system was left on the bottom for approximately 20 seconds, raised 5 meters (m) while the vessel repositioned, and then subsequent replicates were acquired. Generally, one to two minutes was allowed to pass between replicates in order for the camera strobes to recharge and sediment re-suspended from the previous drop to clear.

Figure 2-1 shows the locations sampled with the SPI–PV camera system in OCS-A 0549, and along NECCT, NECCNJ, and NECCNY in 2022, color-coded by area. Appendix A1 lists all the SPI–PV station and replicate drops conducted for this survey along with observed water depth and station coordinates recorded during image acquisition. In some instances, more than five camera drops were made at a station in an effort to ensure that three optimal-quality SPI and PV images were obtained for analysis. Decisions to re-sample/modify camera settings were made following download and review of the initial image sets from each location.

For this report, a total of 195 stations were sampled with the SPI–PV camera system. At 155 of these stations, three replicate SPI and PV images were analyzed for a total of 465 SPI–PV image pairs. The other 40 locations sampled were closely spaced transect stations where only a single SPI–PV replicate image pair was collected and analyzed. At one of these transect locations (NECCNJ-652) no PV image was collected. So overall, a total of 505 (465 plus 40) SPI replicates and 504 (465 plus 39) PV image replicates were analyzed for this 2022 ASOW SPI–PV data summary report.

Details on the camera system's configuration for each station, including stop collar settings and the number of weights used to achieve optimal prism penetration were recorded on field collection forms (Appendix A2). For this survey, all weights were added to the camera frame for all deployments in the lease area and along the NECCT and NECCNJ cable routes because of the generally firm, coarse-grained, seafloor in these outer coast/offshore areas. A range of weights were used in the inshore NECCNY stations in Raritan Bay where the bottom texture was variable and included some fine-grained areas. The following subsections summarize the SPI and PV sampling equipment setup and image collection process.

2.1.1 SPI Camera

Integral Consulting Inc. (Integral) field scientists used an Ocean Imaging Systems (OIS) Model 3731-D SPI system to take high-resolution *in situ* digital images of the sediment-water interface (SWI) for the 2022 ASOW benthic survey. The camera system features a Nikon D7100 digital camera set within a water-tight housing on top of a wedge-shaped prism. This prism assembly is mounted on a moveable carriage within a robust stainless-steel frame. The frame is lowered to the seafloor on a winch wire, and the tension on the wire keeps the prism in its "up" position. When the frame lands on the seafloor and the winch wire goes slack, the camera prism descends into the sediment at a slow, controlled rate by the dampening action of a hydraulic piston to minimize disturbance of the SWI (Figure 2-2). On the prism's descent, a trigger is tripped that activates a time-delay circuit of variable length (15 seconds for this survey) to allow the camera to penetrate the seafloor before the image is taken. The prism has a Plexiglas® window at the front and a mirror on the bottom wedge at a 45-degree angle. The camera lens looks down at the mirror, which reflects the image of the sediment column against the window. The resulting images give the viewer the same perspective as looking through the side of an aquarium filled with sediment. The prism has an internal strobe mounted inside at the back of the wedge to provide illumination for the image; this chamber is normally filled with distilled water, so image quality is unaffected by near-bottom water turbidity. After the first image is obtained at a target location, the camera is raised approximately 5 m off the bottom and a wiper blade mounted on the frame removes sediment adhering to the faceplate. The strobe recharges and the camera is ready to be lowered again for a replicate image. For this survey, a minimum of one to two minutes was allowed to pass between station replicates to avoid taking photographs of re-suspended sediments from the previous drop.

Two types of adjustments to the SPI camera frame system are typically made in the field to optimize prism penetration: 1) adjusting the chassis stop collars to set how far the prism assembly can descend; and 2) adding or subtracting lead weights to the chassis. Both adjustments can affect the prism penetration depth into the substrate. As noted previously, settings for stop collar height and number of weights were recorded on the image collection forms (Appendix A2).

Camera settings (i.e., f-stop, shutter speed, International Standard Organization [ISO] equivalents, digital file format, color balance, etc.) are selectable through a water-tight USB port on the camera housing and Nikon Camera Control Pro 2® software. At the beginning of the survey, the time on the SPI camera's internal data logger was synchronized with the internal clock on the navigation system to Coordinated Universal Time (UTC) time. Details of the camera settings for each digital image are available in the associated parameters file embedded in the electronic image file. For this survey, the ISO-equivalent was set at 640, shutter speed to 1/250, aperture to f 11, white balance to flash, color mode to sRGB, Active D-lighting to off, and High ISO Noise Ratio to normal. Images were stored as lossless compressed raw (14 bit) Nikon Electronic Format (NEF) files (6,000 x 4,000 pixels) and optimal quality JPEG (fine; 6,000 x 4,000 pixels). Recording modes for two 32-megabyte (MB) Secure Digital (SD) memory cards were set as NEF in the first slot and JPEG in the second slot.

Calibration information for the SPI images was determined by measuring 1-centimeter (cm) gradations from the Kodak® Color Separation Guide image, which was obtained by placing the guide card against the SPI prism. This calibration information was applied to all SPI images that were analyzed. Linear and area measurements were recorded as number of pixels (conversion factor of 14.52 pixels per centimeter) and converted to metric units using the calibration information.

When reviewing image quality during the field effort, the unique time stamp on each digital image was cross-checked with the time stamp in the navigational system's computer data file. The field crew kept sample logs of image acquisition time and sampling stations (Appendix A2). Images were downloaded after the first station and then periodically thereafter to verify successful image acquisition and assess prism penetration. The image files were renamed, during and immediately following the survey, with the appropriate station name in accordance with the survey plan (Fugro 2022).

2.1.2 Plan View Camera

An OIS Model Digital Still Camera (DSC) 24000 PV underwater camera system with a wide-angle dome port (rated to 6,000 m) was attached to the SPI camera frame and used to collect PV photographs of the seafloor surface during each "drop" of the system. The PV system consisted of Nikon D7100 digital single lens reflex (SLR) camera encased in a 17-4PH stainless steel housing with a domed glass port, a 24 VDC autonomous power pack, a 500-watt (W) strobe, and a bounce trigger. A 3-pound (lb) weight was attached to the bounce trigger with snap swivels (50-lb tensile breaking point) and a 3-foot (ft) nylon line so that the weight hung below the camera frame. The focus and trigger line length were adjusted during the survey based on observed water clarity conditions; these adjustments are documented in the field logs (Appendix A2). Two OIS Model 400-37 Deep Sea Scaling lasers were mounted to the DSC 24000 housing that projected two red laser dots separated by a constant distance of 26 cm regardless of the field of view of the PV image, which is a function of the length of the trigger line. As the

SPI–PV camera frame was lowered to the seafloor, the weight attached to the bounce trigger contacted the seafloor prior to the SPI–PV camera frame, hitting the bottom and triggering the PV camera to fire (Figure 2-2). Details of the PV camera settings for each digital image are available in the associated parameters file embedded in each electronic image file. Initially for this survey, the ISO-equivalent was set at 640, shutter speed to 1/15, and aperture to f 16. Changes to these three settings are documented in the field logs (Appendix A2). Additional camera settings that were maintained for the entirety of the survey were white balance to flash, color mode to sRGB, Active D-lighting to off, and High ISO Noise Ratio to normal. Images were stored as lossless compressed raw (14-bit) NEF files (6,000 x 4,000 pixels) and optimal quality JPEG (fine; 6,000 x 4,000 pixels). Recording modes for two 32-MB SD memory cards were set as NEF in the first slot and JPEG in the second slot. As with the SPI camera, the internal clock in the digital PV camera was synchronized with the navigation system computer (UTC) during field operations. Throughout the survey, PV images were downloaded at the same time as the SPI images (i.e., after collection image quality assurance and quality control [QA/QC]).

The ability of the PV system to collect useable images is dependent on the clarity of the near-bottom water column, which can be caused by excessive wave action from storm events and bottom turbidity kicked up by the SPI frame during previous replicate drops.

2.2 IMAGE ANALYSIS

Following selection of the final images for analysis, an automated, batch color correction process, developed using MathWorks® MATLAB Image Processing Toolbox, is applied to all images. Underwater images, particularly the PV images, may suffer contrast issues due to low-light conditions, the use of flash photography, water column turbidity, and color distortion due to wavelength-dependent attenuation. These distortions are often corrected using commercial programs (e.g., Adobe Photoshop). Typically, these corrections are performed on a photo-to-photo basis and results are based on an individual photo analyst's judgement. Integral uses the automated process so that the color correction process is applied consistently across an entire image library.[1]

Integral uses a proprietary, integrated, MATLAB-based image analysis software (iSPI v1.2a) to analyze SPI and PV images. The image files along with the metadata-containing Microsoft® Excel files generated during the field survey are imported directly into iSPI. A menu-structured graphical user interface (GUI) in iSPI allows the image analyst to manually or semi-automatically measure and/or add descriptive comments for key imaged features. The

[1] The image libraries compiled in Appendix B have been color corrected using this approach. The process works very consistently in settings without ambient light and low to medium levels of turbidity. However, some color exaggerations, bleeding, or shifts can occur in images collected in the photic zone and/or especially turbid areas, these are typically nearshore locations.

analyst is presented with the paired SPI and PV images in the GUI (Figure 2-3) and can expand and annotate features on either image as desired. The draft data are stored in the system for review by a senior SPI scientist who can inspect all measurements recorded and revise as needed. Following the QA/QC check of all measured and descriptive parameters, the data set is compiled and identified as final; the data can then be evaluated and exported. Figure 2-3 shows the iSPI v1.2a GUI display following QA/QC review.

The subsections below describe the methodology used to identify and measure features observed in SPI images and PV images and the underlying interpretive rationale.

2.2.1 SPI Image Analysis

The SPI image analysis approach and interpretive frameworks described below are both based on and built upon the SPI method development work conducted by Rhoads and Germano in the 1980s (Rhoads and Germano 1982, 1986).

2.2.1.1 Grain Size, Sediment Structure and Composition

The sediment grain-size major mode and range are estimated in each image both manually by the analyst and by an algorithm in iSPI that estimates grain size automatically. The analyst visually compares the textures in each image with a photograph set of known grain sizes (grain-size comparator). The comparator images were generated by imaging a series of sieved Udden-Wentworth sediment size class samples (equal to or less than coarse silt up to granules) placed against the SPI camera prism in the laboratory. Seven grain-size classes (phi units) are on the comparator: >4 (silt-clay), 4–3 (very fine sand), 3–2 (fine sand), 2–1 (medium sand), 1–0 (coarse sand), 0–(-1) (very coarse sand), and <(-1) (granule and larger). The lower limit of optical resolution of the photographic system is about 62 microns (the coarse silt/very fine sand boundary), allowing recognition of grain sizes equal to or greater than coarse silt (>4). For sediment particles larger than granules (< -2), such as pebbles and cobbles, the analyst directly measures the size of the particles in millimeters (mm) in life-size images. The image analyst documents the predominant major modal grain size across the entire image (or notes the major mode of obvious layers if present) and total grain-size range (minimum to maximum particle size) observed in each image. Distinct layering in grain size or notable sedimentary fabrics are noted in the comment field.

iSPI Automated Grain Size Feature

For this survey, the iSPI grain-size algorithm was also used to estimate the grain-size major mode in each 512×512-pixel area of each image analyzed (Figure 2-4). The algorithm can

identify five phi size classes (silt or finer through coarse sand[2]). The analyst uses the automated output to guide the visual analysis and final grain-size designations.

Finally, the SPI grain size observations inform the PV image grain size designations as the vertical profile of the upper sediment column reveals sediment texture details that cannot be discerned in the down-looking PV images. This collocated perspective helps inform the final CMECS substrate classifications (see Section 2.2.2).

2.2.1.2 Prism Penetration Depth

The reported SPI prism penetration depth is the average depth in centimeters from the SWI to the bottom of the image, which is a measure of the how deeply the prism settles into the bottom. The analyst traces the SWI in each image and the iSPI software calculates the total cross-sectional area of the sediment column in the image; this area is divided by the linear width (14.4) of the image to determine the average penetration depth. iSPI v.1.2a includes a neural network–based feature detector that automatically identifies and traces the SWI in the images. The analyst has the option of manually or automatically drawing the SWI. If the algorithm is used, the analyst can edit any portion of the defined SWI if needed; this combination of automation and manual editing streamlines the delineation of the SWI. Accurately defining the SWI is the first step in the SPI image analysis workflow as many subsequent measurements need this datum. Relative penetration depths across a surveyed area can be a function of relative sediment bearing strengths.

2.2.1.3 Small-Scale Surface Boundary Roughness

Once the SWI is delineated, the iSPI software determines surface boundary roughness automatically by calculating the vertical distance between the highest and lowest points of the SWI. The surface boundary roughness may be related to either physical structures (e.g., sand ripples) or biogenic features (e.g., burrow openings, fish foraging depressions). The analyst notes whether the overall roughness appears to be physical or biogenic in origin.

2.2.1.4 Apparent Redox Potential Discontinuity Depth

Near-surface marine sediments are typically aerobic and have higher optical reflectance than the underlying reduced or anaerobic sediments. Surface sands washed free of mud also have higher optical reflectance than underlying muddy sands. These differences in reflectance with depth in the sediment column are readily apparent in SPI images. The oxidized surface sediment particles are coated with ferric hydroxide, which has a brownish or olive color, while reduced sediments below this oxygenated layer are darker, generally gray to black (Fenchel

[2] The iSPI grain size algorithm can identify the major modal sediment type within each 512×512-pixel area of the image for the following textures: >4 phi (silt-clay, < 62.5 μm), 4–3 phi (very fine sand, 62.5–125 μm), 3–2 phi (fine sand, 125–250 μm), 2–1 phi (medium sand, 250–500 μm), and 1–0 phi (coarse sand, 500–1000 μm).

1969; Lyle 1983). The boundary between the colored ferric hydroxide surface sediment and underlying gray to black sediment is called the apparent redox potential discontinuity (aRPD). Note that this measure is referred to as the *apparent* RPD as the actual redox potential discontinuity (RPD) is the horizon that separates the positive oxidation/reduction potential (Eh) (oxidizing) region of the sediment column from the underlying negative Eh (reducing) region, which can only be determined with microelectrodes.

The color/reflectance contrast of the aRPD boundary can vary widely in SPI images as a function of organic loading and bioturbation levels, and the geochemical processes associated with different environmental settings (Germano et al. 2011). The relative contrast between the apparently oxidized, brownish surface sediment layer and underlying gray to blackish sediments is also noted and can be mapped across a surveyed area.

In iSPI, the average aRPD depth is measured in each image by the analyst tracing the redox color boundary across the image. This boundary is often undulated or wavy as a function of the distribution of individual macrofauna and their localized biogenic mixing activities. The average depth of the aRPD is then calculated in iSPI by subtracting the aRPD boundary from the SWI.

The aRPD is a key SPI parameter for documenting changes (or gradients) that develop over time in response to benthic disturbance factors (e.g., sediment erosion or depositional events), demersal fish foraging, and temporal (seasonal or yearly cycles) changes in environmental factors, such as water temperature and organic loading. Overall, time-series RPD measurements following a disturbance are a diagnostic element in assessing the rate and degree of recovery in an area following a perturbation (Rhoads and Germano 1982, 1986) (Figure 2-5).

Finally, it is important to note that there are physical factors that may influence the aRPD depth in a SPI image. For example, in well-sorted sands with little or no silt or organic matter, the depth of the aRPD can be influenced by factors such as sediment porosity and near-bottom current flow velocities that force surface water into the substrate. If such factors are inferred by the analyst based on bottom texture and environmental setting, then these aRPD depths are considered physical aRPDs (i.e., they are not solely a function of infaunal biogenic mixing).

2.2.1.5 Organic Loading, Sedimentary Methane, and Thiophilic Bacterial Colonies

If organic loading is high in marine sediments, porewater sulfate is depleted and methanogenesis occurs. In SPI images, methanogenesis can be revealed by the appearance of methane bubbles in the sediment column. These gas-filled voids are readily discernible in SPI images because of their irregular shape and glassy texture (due to the reflection of the strobe off the gas). The image analyst notes the presence of these methane voids, and the number and area of the voids can be measured.

A related feature that indicates if an area is suffering severe sediment oxygen demand due to organic enrichment and/or depleted water column dissolved oxygen levels (i.e., hypoxia or anoxia) is the presence of the sulfur-oxidizing bacterial colonies at or just below the SWI. These bacterial colonies have diagnostic bright white or orange filamentous morphology that has been documented in numerous SPI surveys (Germano et al. 2011). The presence of sulfur-oxidizing bacterial colonies appears when boundary-layer dissolved oxygen concentrations drop into the "hypoxic" range between 0 and 1 milliliters per liter (mL/L) (Rosenberg and Diaz 1993). If present, the image analyst notes the presence and relative extent of sulfur-oxidizing bacteria in a SPI image.

2.2.1.6 Infaunal Successional Stage

In fine-grained, silt-dominated sediment habitats, following a disturbance marine benthic infaunal communities follow the succession pattern described by Pearson and Rosenberg (1978) and Rhoads and Germano (1982). Figure 2-5 illustrates this generalized progression from an initial community of tiny, densely populated, tubicolous, surface-dwelling polychaete assemblages (Stage 1) to a mature, equilibrium community of deep-dwelling, head-down deposit feeders (Stage 3) that create distinctive feeding voids and aerated burrows that are visible in SPI images.

However, in temporal and spatially dynamic marine environments, benthic communities are unlikely to progress completely and sequentially through four stages in accordance with the idealized conceptual model depicted in Figure 2-5. Various and transitional combinations of these basic successional stages are possible (e.g., Stage 1 going to Stage 2). More frequently, secondary succession can occur in response to additional labile carbon input to surface sediments, with surface-dwelling Stage 1 or 2 organisms co-existing at the same time and place with Stage 3, resulting in the assignment of a "Stage 1 on 3" or "Stage 2 on 3" designation. The image analyst assigned an infaunal successional stage for each SPI image analyzed based on this interpretive paradigm.

The successional dynamics of invertebrate communities in sand and coarser sediments are less well-documented and biogenic structures are less-well preserved or discernable in SPI images from non-cohesive sediments, so successional stage is often indeterminate in sand-dominated settings, especially when prism penetration is minimal (e.g., less than 5 cm).

2.2.1.7 Other Biological Features

In addition to the infaunal successional stage designation, specific biological features can be identified and traced by the analyst when observed in the images. These features include: 1) the infaunal organisms themselves (bivalves, polychaetes, crustacea); 2) the feeding pockets or voids that subsurface, deposit-feeding polychaetes produce; and 3) the burrows that polychaetes and crustacea can produce. When biological features are identified and measured

in an image, iSPI automatically counts and calculates each feature's size and depth in the sediment column. The "Sediment Profile Attributes" box in Figure 2-3 shows the number feeding voids, worms, and burrows identified in that SPI image.

2.2.1.8 CMECS Substrate and Biotic Classifications from SPI–PV Imagery

SPI and PV imagery combined can be used to classify physical habitat in accordance with these CMECS designations. NMFS (2021) indicates that seabed imagery (such as video or PV still images) should be used to characterize rock, gravel, and shell substrates. Grab samples or SPI imagery, which are also useful for characterizing gravel mixes and gravelly substrates, are particularly useful for characterizing the fine unconsolidated substrate subclass (slightly gravel, sands, and muds). This is because SPI images (or grab samples) provide more detailed information on near-surface sediment grain sizes than PV images, especially in sands and silts where the SPI prism penetrates the bottom to several centimeters or deeper.

For this survey, CMECS Substrate Group and Substrate Subgroup were designated for each SPI image and these classifications are included in Appendix C1. These SPI-based substrate classifications were assigned in accordance with the CMECS substrate classification scheme as modified for offshore wind projects by NMFS (2021). Similarly, the CMECS Substrate Group and Substrate Subgroup were designated for each PV image and these classifications are included in Appendix C2. For fine unconsolidated substrates, the PV CMECS classifications were informed by the SPI designations (e.g., fine vs. medium sand). Overall, because of the larger field-of-view, the PV image–based CMECS substrate designations (Appendix C2) are the designations mapped, tabulated, and discussed in this report.

CMECS Biotic Groups and Co-occurring Groups were also designated for each SPI and PV pair. As noted in Section 2.2.2, CMECS Biotic components down to the Biotic Group and Co-occurring Group level (if present) were designated for each PV image. The PV images provide a broader field of view and better perspective for making these biotic classifications. The paired SPI images do inform the biotic designations, especially in finer-grained areas where SPI prism penetration is relatively deep and both surface and subsurface infauna and biogenic structures are imaged. For example, the size and orientation of these features support distinguishing between and large and small tube-building and deep and shallow-burrowing fauna biotic groups within the soft sediment fauna subclass (FGDC 2012).

2.2.2 PV Image Analysis

A PV image provides a different view of the seafloor than the associated SPI image. This complementary perspective can provide valuable information on the broader seabed topography, substrate composition and the presence and density of epifauna, and infaunal and demersal fauna and/or their biostructures, such as burrows and fecal casts. The PV image can provide a broader spatial context for any features detected in the SPI image that exhibit a visible

surface manifestation. For firm, coarse-grained (sands and gravels) bottoms, such as those observed at the ASOW area, the PV images can provide more valuable information on benthic habitat and fauna, especially surface-dwelling epifauna, than the SPI images.

The scale information provided by the underwater lasers deployed with the PV camera (red dots in PV image in Figure 2-3) allows measurements of ripple wavelength, density counts of epifauna (number per square meter), or larger macrofauna or fish that may be missed in the SPI image cross section. During image analysis, the iSPI software automatically detects the lasers and calibrates the scale of each PV image. The key features noted/quantified in PV images for this survey are listed below:

General Observations:

- Field of View (cm^2)
- Epifauna/Infauna Types (types and count)
- Fish Type (presence: yes/no, count and type)
- Bedforms (ripples; yes [wavelength in cm]/no)
- Burrows (presence: yes/no)
- Tracks (presence; yes/no)
- Tubes (presence: yes/no)
- General Comments (overall replicate biological and physical conditions, noteworthy/rare organisms, etc.).

For this survey, each PV image was also assessed relative to the CMECS framework (FGDC 2012) and more recent BOEM (2019) and NMFS (2021) recommendations for substrate and biotic components. These classifications are listed below and discussed in Section 3 of this report.

CMECS Substrate Components:

- Habitat Type (e.g., hard bottom, sand, rippled sands)
- Substrate Class (e.g., rock, consolidated mineral, unconsolidated mineral and shell)
- Substrate Subclass (e.g., coarse, fine, shell reef)
- Substrate Group (e.g., gravels, gravel mixes)
- Substrate Subgroup (e.g., sandy gravel, gravelly sand)
- Substrate Group Percent.

CMECS Biotic Components:

- Biotic Setting (e.g., benthic/attached biota)
- Biotic Subclass (e.g., soft sediment fauna, inferred fauna)
- Biotic Group (e.g., larger tube-building fauna, sand dollar bed)
- Co-occurring Biotic Group (e.g., mobile mollusks on soft sediment, tracks and trails).

3 SPI–PV RESULTS

The SPI and PV image analysis results are discussed in this section. The results include tables and maps of the key SPI–PV parameters and CMECS substrate and biotic classifications. These results are presented for each major survey subarea in separate subsections. Section 3.1 presents the SPI–PV survey results from OCS-A 0549. Section 3.2 describes the seafloor features observed along the NECCT and NECCNJ export cable corridors. Section 3.3 details the findings from the NECCNY export cable corridor images collected in Raritan Bay. Copies of all SPI and PV images analyzed for this report are provided in Appendix B. Appendix C1 provides the complete SPI image analysis results, including the SPI-based CMECS substrate classifications, organized by subarea. The complete PV image analysis results, similarly organized, including the PV-based CMECS substrate and biotic classifications, are provided in Appendix C2. Notable spatial patterns in benthic habitat conditions within the lease areas, along the cable routes, and at any of the associated control areas are summarized within each subsection based on the physical, geochemical, and biological features observed in the images. Any inferences about potential benthic processes are based solely on the physical and biological structures observed in the SPI–PV images. Comparison and synthesis with other data sets (e.g., benthic taxonomy, side scan sonar) are not conducted as part of this SPI–PV data report.

3.1 OCS-A 0549

OCS-A 0549 lies approximately 20 kilometers (km) off the central New Jersey coast (Figure 1-1). In May and June, a total of 24 stations were sampled in lease area OCS-A 0549 and five stations were sampled at the OCS-A 0549 control area. Three paired SPI–PV images were analyzed from each station for a total 87 SPI–PV replicates. Figure 3.1-1 shows the stations sampled in this area and it includes the NECCT stations that fall within the map's geographic view (to the east of the lease area boundary on Figure 3.1-1). The following subsections describe the physical, geochemical, and biological seabed features observed and measured in the SPI–PV images and the CMECS substrate and biotic classifications assigned to each image and location. Gradients and spatial patterns in key features are noted.

3.1.1 Physical Characteristics

Table 3.1-1 lists the key SPI–PV physical parameters (e.g., grain size, presence and size of sand ripples, penetration depth) summarized by station in the OCS-A 0549 control areas. Note that the grain size data presented here and throughout this report is the based solely on the visual estimates from the imagery. Sediment samples were also collected and analyzed for grain size in the laboratory. Those data are reported elsewhere. The grain size major mode tabulated and mapped for each station is the coarsest major mode observed among the three SPI station replicates. Appendix C1 includes the designated grain size major mode for all individual SPI

replicates. Numerical parameters, such as SPI prism penetration depth, are included as station averages. A subset of these data (grain size major mode, penetration depth, and sand ripple presence/size) are mapped in Figure 3.1-2.

OCS-A 0549 is dominated by rippled medium and coarse sands and gravels (Table 3.1-1; Figures 3.1-2 and 3.1-3). Gravel was the major mode at the sediment surface at three of the four stations sampled in the southern portion of the lease area (e.g., see Station 471 in Appendices B1 and B2). Gravel is also present in the western portion of the upper lease area (Station 442 in Appendices B1 and B2), while sand is more prevalent in the eastern portion (Station 421 in Appendices B1 and B2). The OCS-A 0549 control area, located immediately east of the southern portion of the lease area (Stations 474 to 478) is medium and coarse sand without notable gravel. The presence and relative size of sand ripples observed at each station is indicated in Figure 3.1-2 and included in Table 3.1-1. Ripples were evident at approximately 59% (17 of 29) of the OCS-A 0549 stations (e.g., see Station 437 in Appendix B2).

Prism penetration was consistently shallow throughout OCS-A 0549 with station averages ranging from 3.5 to 7.6 cm, with a mean of 5.6 cm (Table 3.1-1). This is consistent with the widespread sand and gravel bottom.

The CMECS substrate classifications for each replicate image pair analyzed at OCS-A 0549 are listed in Table 3.1-2, and the CMECS substrate classifications for each station are mapped in Figure 3.1-3.[3] As noted in Section 2.2.1.8, CMECS Substrate Group and Substrate Subgroup were designated separately for each SPI and each PV image and these classifications are included in Appendices C1 and C2. These substrate classifications were assigned in accordance with the CMECS substrate classification scheme as modified for offshore wind projects by NMFS (2021), based on the field of view of each image type. Given their larger-scale and downward-looking field of view, the PV images generally provide a more representative view of the substrate character in an area. For unconsolidated substrates (sands and finer), the PV CMECS classifications are informed by the SPI designations (e.g., fine vs. medium sand). Overall, however, the PV image–based CMECS substrate classifications are the designations mapped in Figure 3.1-3 and discussed here. Please note that these vary in some instances from the grain-size major modes mapped in Figure 3.1-2, which are based on the SPI perspective and a more limited field of view.

Figure 3.1-3 shows locations where 15 of the 24 (62%) lease area stations are classified as CMECS gravelly or gravel mixes. All five of the OCS-A 0549 control area stations are medium or coarse sand. CMECS sand substrate also dominates the ECC stations to the immediate east

[3] The mapped station CMECS substrate classifications were assigned based on a review of all six replicate pair classifications (three SPI and three PV images) for each station and selection of the dominant substrate group and subgroups.

of the northern portions of OCS-A 0549 (see Section 3.3), contrasting in texture with many of the 0549 stations.

Finally, two features observed in the OCS-A 0549 images are noteworthy. First, barrel-shaped, sand "tubes" (with a hole at the top) and sand clasts (without a hole) were evident at about 18 of the 29 stations (62%), mostly in the northern portion of the lease area. It is unclear what these are (possibly live and senescent tunicates), or how they are formed, but they occur in both scattered isolation in some images and in clusters (replicate PV image 450-A in Appendix B2 has both scattered and clusters of these tubes). The second feature is extensive surface shell hash that is evident in at least one replicate at 21 of the 29 stations (72%), and observed throughout the lease area (see Station 450 in Appendices B1 and B2). The shell hash and large shell debris indicate widespread physical disturbance of the bottom, likely from periodic storm-related tidal and wave energy. Anthropogenic bottom disturbance from surf clam and/or other commercial fisheries may also be creating some of these physical disturbance features. If present, these features are noted in the comment field for each replicate in Table 3.1-2 and Appendices C1 and C2.

3.1.2 Geochemical Characteristics

Given the coarse grain–dominated bottom texture and limited prism penetration throughout OCS-A 0549, only a single aRPD boundary was observed and measured (2.2 cm) at Station 442 (Table 3.1-1). None of the SPI or PV images showed any evidence or reduced sediment at or near the SWI. Both the PV and SPI images from Station 468-A (Appendices B1 and B2) show gray clay at the surface that appears to reflect recent bottom disturbance exposing subsurface sediments. No methane or sulfur-oxidizing bacteria were observed in any of the SPI or PV images from OCS-A 0549, so low-oxygen conditions were not present near the sediment bed in the area during the survey period.

3.1.3 Biological Characteristics

This section notes the types of infauna, epifauna, and their biogenic structures observed in the OCS-A 0549 SPI and PV images. The CMECS biotic classifications are listed in Table 3.1-2 for each replicate image pair, and the assigned biotic classifications for each station are mapped in Figure 3.1-4.[4]

As with the aRPD depths, due to the limited SPI prism penetration in the coarse-grained sediments throughout OCS-A 0549, infaunal successional stages in the SPI images were generally indeterminate. This is because biogenic features observed in profile images, such as feeding voids and burrows that indicate the presence of Stage 3 infauna, generally do not form

[4] The mapped station CMECS biotic classifications were assigned based on a review of all six replicate pair classifications (three SPI and three PV images) for each station and selection of the dominant biotic group and co-occurring biotic groups.

or persist in non-cohesive sediments. This coupled with the limited prism penetration minimizes the detection of large, subsurface-dwelling infauna, even if present. Successional stages were assigned to only six of the 87 SPI replicates images analyzed. Given this low density, gradients in the infaunal community structure cannot not be assessed. However, all assigned successional stages were relatively advanced (Stage 2 → 3 or Stage 3), perhaps suggesting that the infaunal assemblages are robust in the survey area. As listed in Table 3.1-2, a wide range of benthic infauna and epifauna taxa are evident in OCS-A 0549 PV images analyzed. The types of infaunal and epifaunal organisms observed in the SPI images are listed in Appendix C1. Taken together, the dominant epifauna and infauna include sand dollars, *Diopatra*, burrowing anemones, hermit crabs, and nassariid snails. The most widespread and dominant taxa observed are sand dollars, which are present, often in high densities, in many locations (see Station 444 in Appendix B2). Hermit crabs and *Diopatra* are also observed in many images. Skate egg cases are present in a few images. When present, these biological features are noted in the comment field in Table 3.1-2 and Appendix C2. No squid mops or other egg masses were observed. The CMECS biotic component classifications assigned for each station in OCS-A 0549 are mapped in Figure 3.1-4. The biotic group categories are color-coded such that blue biotic groups are attached/hard bottom fauna, green groups are more mobile fauna on mixed substrates (gravels and sands), and orange groups are generally on soft sediment (finer sands/silts) fauna/infauna or their structures. Looking at the color patterns on Figure 3.1-4, it is evident that the mobile epifauna on mixed substrates (green) are the dominant biotic groups in this area. These include sand dollar beds, mobile crustaceans (e.g., hermit crabs), and mobile mollusks (e.g., snails). The most prevalent co-occurring biotic groups are infaunal organisms or structures (e.g., burrows, tubes, tracks and trails), which are indicated by the color orange on Figure 3.1-4. Attached fauna biotic groups (blue) are relatively rare in this survey area. Table 3.1-3 lists type and number of each biotic and co-occurring biotic group observed in OCS-A 0549 images across all replicates. As indicated by the mapped data, sand dollar beds, mobile crustaceans on both hard/mixed and soft sediments, and larger tube-building fauna (*Diopatra*) make up 76% of the biotic group designations.

3.2 NECCT AND NECCNJ

Figure 3.2-1 shows the NECCT and NECCNJ stations sampled in 2022. The NECCT stations consist of a long, south to north transect with three, small cross-corridor transects. The NECCNJ stations include the west-east corridor/approach to New Jersey, one cross-corridor transect, and one control area. In total, three paired SPI–PV images were analyzed from the 94 NECCT and NECCNJ stations, and one paired SPI–PV replicate was analyzed from the 40 transect stations[5]. As a result, a total of 322 SPI images and 321 PV images were analyzed. Figure 3.2-1 also shows the stations sampled in OCS-A 0549 that fall within this geographic view. The lease area is immediately west of the southern portion of the ECC. For completion,

[5] No PV was obtained at transect station 652.

the data observed in the lease are included on the ECC data maps, but the discussion of the results is focused on the ECC locations. Section 3.1 details the results from OCS-A 0549. The following subsections describe the physical and biological seabed features observed and measured in the SPI–PV images and the CMECS substrate and biotic classifications assigned to each NECCT and NECCNJ image. Table 3.2-1 and Figure 3.2-2 include the SPI–PV physical parameter measurements (e.g., grain size), while Table 3.2-2 and Figures 3.2-3 and 3.2-5 provide the CMECS substrate and biotic classifications and other observations. Gradients and spatial patterns in key features are noted.

3.2.1 Physical Characteristics

The physical parameters/features measured or observed by station along the NECCT and NECCNJ corridors are listed in Table 3.2-1. Stations are tabulated in numerical, not geographic, order. Numerical parameters, such as SPI prism penetration depth, are included as station averages. A subset of these data (grain size major mode, penetration depth, and sand ripple presence/size) are mapped in Figure 3.2-2.

Medium and mostly coarse rippled sands are present from the southern end of the NECCT corridor (Station 581) to immediately east of the northern end of OCS-A 0549 (Station 583). North from there, some gravel-dominated locations are intermixed within a predominantly (medium, coarse, and very coarse) sand bottom. The two cross-corridor transects along the southern portion of the NECCT (left panel in Figure 3.2-2) show the same pattern, i.e., sand dominated with one or two gravelly locations intermixed, but no extensive gravelly areas. The northern portion of the NECCT (right panel in Figure 3.2-2) shows the same textural characteristics. Medium to coarse sands dominate with some gravelly locations interspersed. The presence and relative size of sand ripples observed at each station are indicated in Figure 3.2-2 and included in Table 3.2-1. Ripples were evident at approximately 70% (92 of 134) of the ECC stations indicating a generally dynamic boundary layer setting throughout the survey route.

In terms of the SPI image–determined grain size major modes, a 4-km stretch from Station 607 to 346 is a gravel-dominated portion of the NECCT. Excluding the transect, seven of the 11 stations sampled along the NECCT in this area exhibit gravel as the grain size major mode.

Finally, two of the five NECCNJ control stations show gravels, the other three stations are coarse sand, and this control area is a good physical match for the NECCT and NECCNJ stations.

The station-averaged SPI prism penetration values are indicated by the size of the station circles in Figure 3.2-2. As expected in sands and gravel bottoms, the prism penetration is relatively shallow across nearly all stations. Station-averaged penetration depths range from 0 to 16.7 cm, with an average of 5.1 cm (Table 3.2-1). A single station (605) is predominantly silt and

penetration is greater than 16 cm. This location shows some sand layering and the locations immediately south and north of it are sand dominated with minimal penetration indicating this is a spatially-limited texture (see Station 605 in Appendix B3).

Other "physical" features observed along the ECC include the barrel-shaped, sand "tubes"/possible tunicates and/or sand clasts mentioned previously (see examples in images from Stations 550 and 569 in Appendices B3 and B4). They are present at 46 of the 134 ECC locations sampled (34%), and are more common along the southern portion of the ECC, adjacent to northern portion of lease area 0549. Again, it is unclear what these structures are and how they are formed. Also, as in the lease areas, extensive surface shell hash and large bivalve shell fragments are widespread at the NECCT and NECCNJ stations. They are evident in at least one replicate at 56 of the 134 stations (42%). As noted previously, the shell debris indicates physical disturbance of the bottom, either natural or anthropogenic. If present, these features are noted in the comment field for each replicate in Appendices C1 and C2.

The CMECS substrate classifications along the NECCT and NECCNJ are included in Table 3.2-2 for each replicate image pair, and the CMECS substrate classifications for each station mapped in Figure 3.2-3.[6] As noted in Section 2.2.1.8, the CMECS Substrate Group and Substrate Subgroup were designated separately for each SPI and each PV image and these classifications are included in Appendices C1 and C2. These substrate classifications were assigned in accordance with the CMECS substrate classification scheme as modified for offshore wind projects by NMFS (2021), based on the field of view of each image type. Given their larger-scale and downward-looking seabed field of view, the PV images generally provide a more representative view of the substrate character in an area. For unconsolidated substrates (sands and finer), the PV CMECS classifications are informed by the SPI designations (e.g., fine vs. medium sand). Overall, however, the PV image–based CMECS substrate classifications are the designations mapped in Figure 3.2-3 and discussed here. These vary in some instances from the grain-size major modes mapped in Figure 3.2-2, which are based on the SPI perspective and more limited field of view.

As noted in Section 3.3.1, fine to coarse-grained sands are present from the southern end of the NECCT (Station 581) to Station 583 (immediately east of the northern end of lease area 0549). North from there, there is a mix of CMECS gravel substrates (both gravel mixes and gravelly) and sand substrate, but gravels dominate from the southern cross-corridor transect to Station 568, a 6-km stretch. Sand and gravel CMECS substrates are equally mixed north from Station 407 to Station 547. North from Station 547 to the Raritan Bay entrance, sand substrates dominate, although there is some gravel at the control area and along the far northern cross-corridor transect.

[6] The mapped station CMECS substrate classifications were assigned based on a review of all six replicate pair classifications (three SPI and three PV images) for each station and selection of the dominant substrate group and subgroups.

3.2.2 Geochemical Characteristics

Given the coarse-grained bottom along the entire ECC, aRPD boundaries were only apparent and measured at 30 of the 134 (22%) stations sampled (Table 3.2-1; Figure 3.2-4). The station-averaged aRPDs ranged from 0.6 to 4.3 cm, with an average depth of 1.4 cm. As shown in Figure 3.2-4, most of the measurable aRPDs are found offshore of the northern New Jersey coast (see Stations 597 to 344 on the lower portion of the right panel in Figure 3.2-4). While this area is predominantly sand at the sediment surface, there are silt subfractions and some locations show distinct, thin (1–5 cm) sand over reduced (black) mud at depth (see Stations 547 and 602 in Appendix B3). A few locations (e.g., Station 599) have thin aRPDs in mostly silt. Finally, some of the stations along the NECCNJ corridor that goes west from the NECCT toward Ashbury Park show dark sands (see Stations 357 and 359 in Appendix B3) at the sediment surface, suggesting a localized area of elevated sediment oxygen demand or organic loading. Across all of the NECCT and NECCNJ SPI and PV images, no methane or sulfur-oxidizing bacteria were observed, indicating no severe low-oxygen stress in the area during the late spring/summer 2022 survey period.

3.2.3 Biological Characteristics

This section notes the types of infauna, epifauna, and their biogenic structures observed along the NECCT and NECCNJ in the SPI and PV images. The CMECS biotic classifications are listed in Table 3.2-2 for each replicate image pair and the assigned biotic classifications for each station are mapped in Figure 3.2-5.[7]

As with the aRPD depths, due to the limited SPI prism penetration in the coarse-grained sediments along the NECCT and NECCNJ, infaunal successional stages were generally indeterminate in the SPI images. Biogenic features observed in profile images, such as feeding voids and burrows, that indicate the presence of Stage 3 infauna, generally do not form or persist in non-cohesive sediments. This coupled with the limited prism penetration minimizes the detection of large, subsurface-dwelling infauna, even if present. Consequently, successional stages were assigned to only 20 of the 325 NECCT and NECCNJ SPI replicate images analyzed; given this low density, gradients in the infaunal community structure cannot be discerned. When reviewed in total, a wide range of benthic infauna and epifauna taxa are evident in the NECCT and NECCNJ SPI and PV images analyzed (Table 3.2-2); these infauna include sand dollars, *Diopatra*, burrowing anemones, hermit crabs, nassariid snails, mobile decapods, and some demersal flat and finfish. The most widespread and dominant taxa observed are sand dollars, which are present along much of the NECCT and NECCNJ, often in high densities. In addition to the fauna, skate egg cases and gastropod egg casings (e.g., moon snail casings) were

[7] The mapped station CMECS biotic classifications were assigned based on a review of all six replicate pair classifications (three SPI and three PV images) for each station and selection of the dominant biotic group and co-occurring biotic groups.

observed in some PV images. When present, these are noted in the comment field in Table 3.2-2 and Appendix C2. No evidence of squid mops was observed in any of the NECCT and NECCNJ images.

The CMECS biotic component classifications observed in the survey area for each station along the NECCT and NECCNJ are mapped in Figure 3.2-5. Looking at the color patterns on Figure 3.2-5, it is evident that the mobile epifauna on mixed substrates (green) are the dominant biotic groups along the NECCT and NECCNJ. These include sand dollar beds, mobile crustaceans (e.g., hermit crabs), and mobile mollusks (e.g., snails). The most prevalent co-occurring biotic groups are infaunal organisms or structures (e.g., burrows, tubes, tracks) indicated by the color orange on Figure 3.2-5. Finally, attached fauna biotic groups (blue) are relatively rare at NECCT and NECCNJ stations, occurring at the NECCNJ control area and at a few stations along the northern NECCT transects, generally where gravel is present.

Table 3.2-3 lists type and number of each biotic and co-occurring biotic group observed in the NECCT and NECCNJ images across all replicates. Sand dollar beds, burrowing anemones, mobile crustaceans on hard/mixed and soft sediments, larger tube-building fauna, and mobile and mollusks on soft sediments make up 73% of the biotic group designations.

3.3 NECCNY

As part of the 2022 ASOW SPI–PV survey, 32 NECCNY locations were sampled in Raritan Bay at the north end of the NECCT (Figure 2-1). These images were collected on July 14–16, 2022. The NECCNY stations were located along three transects from the mouth of the bay to the shore, and two five-station control areas were also sampled (Figure 3.3-1). Three paired SPI−PV images were analyzed from each station for a total of 96 SPI–PV replicates.

3.3.1 Physical Characteristics

Table 3.3-1 lists the key SPI−PV physical parameters (e.g., grain size, presence and size of sand ripples, penetration depth) summarized by NECCNY station. Note that the grain size major mode tabulated and mapped for each station is the coarsest major mode observed among the three SPI station replicates. Appendix C1 includes the designated grain size major mode for all individual SPI replicates. Numerical parameters, such as SPI prism penetration depth, are included as station averages. A subset of these data (grain size major mode, penetration depth, and sand ripple presence/size) are mapped in Figure 3.3-2.

The nearshore NECCNY area is more heterogeneous than the offshore survey areas. The main central transect and both control areas are predominantly rippled, medium sand, often with shell fragments in the troughs (e.g., see Stations 322 and 326 in Appendices B5 and B6). The presence and relative size of sand ripples observed at each station is indicated in Figure 3.3-2 and included in Table 3.3-1. Sand ripples are widespread in the bay and evident at 78% (25 of

32) of the stations, including all 10 control stations. Closer to shore, the bottom texture transitions to very fine sand mixed with silt (see Stations 301 and 303 in Appendix B5). Some locations are predominantly silt (see Stations 306 and 329). Prism penetration depth (indicated by the station circle size in Figure 3.3-2) generally follows the bottom texture with deeper penetration as the fines content increases. Reflecting the textural heterogeneity, station-averaged prism penetration varies widely, ranging from 2.6 to 17.9 cm with a mean of 5.9 cm (Table 3.3-1). Finally, the bottom at some locations consists of shell hash, (i.e., mussel, and slipper shells (*Crepidula*) overlying silt and sand/silt mixtures (see Stations 302 and 307 in Appendix B5 and B6).

The CMECS substrate classifications for each NECCNY replicate image pair are listed in Table 3.3-2, and the CMECS substrate classifications for each station are mapped in Figure 3.3-3.[8] As noted in Section 2.2.1.8, CMECS Substrate Group and Substrate Subgroup were designated separately for each SPI and each PV image and these classifications are included in Appendices C1 and C2. Figure 3.3-3 shows that all but one NECCNY station are classified as sand, muddy sand, sandy mud, or mud CMECS Substrate Groups. Station 327 in the center of the bay is classified as gravelly based on an estimated 5% gravels in two of the replicates at that location (Appendix C2). All 10 control area stations are CMECS sand (mostly fine sand) and do not reflect the heterogeneity of the stations throughout the bay, although one control station replicate (317-C) shows a large cobble and abundant shell fragments.

Only a single NECCNY station (Station 321 replicates B and C) exhibits the small sand tubes or clasts noted in the offshore areas. There are only a few of these structures in each image. While there are some shell fragments in most of the NECCNY images, extensive surface shell hash is evident in at least one replicate at about 11 of the 32 stations (34%), again reflecting some level of physical bottom disturbance. Shell hash is the CMECS Substrate (Subclass) at Stations 302 and 307, where, as noted above, slipper shell and mussel shell debris overlie silt and sand/silt (Figure 3.3-3). These and other observed features are noted in the comment field for each replicate in Table 3.3-2 and Appendices C1 and C2.

3.3.2 Geochemical Characteristics

Twenty of the 32 NECCNY stations (62%) exhibit measurable aRPD boundaries. The station-averaged values are listed in Table 3.3-1 and mapped in Figure 3.3-4. The aRPD depths range from 0.5 to 3.0 cm, with an average depth of 1.6 cm. At Stations 307 and 329 (see Appendix B5), reduced sediment extends partially to the SWI and these locations appear to have high sediment oxygen demand. At Station 307, shell hash is smothering the silt bottom and creating the low-oxygen conditions in the upper sediment column. At Station 329, which is the far west

[8] The mapped station CMECS substrate classifications were assigned based on a review of all six replicate pair classifications (three SPI and three PV images) for each station and selection of the dominant substrate group and subgroups.

location very close to shore, high organic content mud is evident and aRPDs are thin but present. Also, there is evidence of burrowing infauna at depth in all three replicates. No methane or sulfur-oxidizing bacteria were observed in any of the SPI or PV images analyzed. Overall, there is no evidence severe near-bottom oxygen stress at the NECCNY stations at the time of the survey.

3.3.3 Biological Characteristics

Infaunal successional stages were assigned to 27 of the 96 (28%) SPI NECCNY replicates. These are mapped in Figure 3.3-5. As in the offshore areas, successional stages are largely indeterminate in the sandy areas. The distribution of successional stage in the nearshore siltier areas indicates all stations show some evidence of higher-order successional assemblages, i.e., Stage 3 subsurface deposit-feeders, which are typically detected in SPI images by the presence of their feeding voids in the cohesive sediment column.

As listed in Table 3.3-2, a range of benthic infauna and epifauna taxa are evident in the NECCNY images analyzed. Infauna and epifauna observed include *Ampelisca, Crepidula*, mussels, *Diopatra*, hermit crabs, nassariid snails, and hydroids. The only egg case observed was a large moon snail egg case at Station 321. The CMECS biotic classifications are listed in Table 3.3-2 for each replicate image pair, and the assigned biotic classifications for each station are mapped in Figure 3.3-6.[9] Looking at the widespread orange on Figure 3.3-6, it is evident that soft sediment epifauna/infauna or their structures are the dominant biotic groups in the bay. Table 3.3-3 lists type and number of each biotic and co-occurring biotic group observed across all replicates. These six classifications—tracks and trails, mobile crustaceans (e.g., hermit crabs), mobile mollusks (e.g., snails) on soft sediments, larger tube-building fauna, attached hydroids (present where shell fragment or beds provide an attachment surface), and mussel beds—make up 58% of the biotic group designations.

[9] The mapped station CMECS biotic classifications were assigned based on a review of all six replicate pair classifications (three SPI and three PV images) for each station and selection of the dominant biotic group and co-occurring biotic groups.

4 SUMMARY

This data report details the SPI–PV data set collected at ASOW areas in May, June, and July 2022. The tabulated and mapped results are presented and discussed separately for three major areas: OCS-A 0549, the NECCNJ and NECCT, and NECCNY in Raritan Bay.

Some general patterns include:

- The areas sampled in OCS-A 0549 and along the NECCNJ and NECCT are coarser-grained than the NECCNY stations.
- Sand ripples are more widespread along the NECCNJ, NECCT, and NECCNY stations than in OCS-A 0549.
- Prism penetration depths (potential measure of surface sediment bearing strength) and aRPD depth (potential measure of near-surface biological and physical sediment mixing) are comparable across all surveyed areas.
- Sand tubes/clasts and shell hash abundance appear to be more widespread in the lease area than along the NECCNJ, NECCT, and NECCNY stations.
- Dominant biota in OCS-A 0549 and along the NECCT and NECCNJ corridors are similar and include: sand dollars, mobile crustaceans and mollusks, larger tube-building fauna, and burrowing anemones. The inshore finer-grained, NECCNY stations lack sand dollars, but also show mobile crustaceans (e.g., hermit crabs) and mollusks (e.g., snails), larger tube-building fauna, as well as numerous tracks and trails and some mussel beds.

5 REFERENCES

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Figures

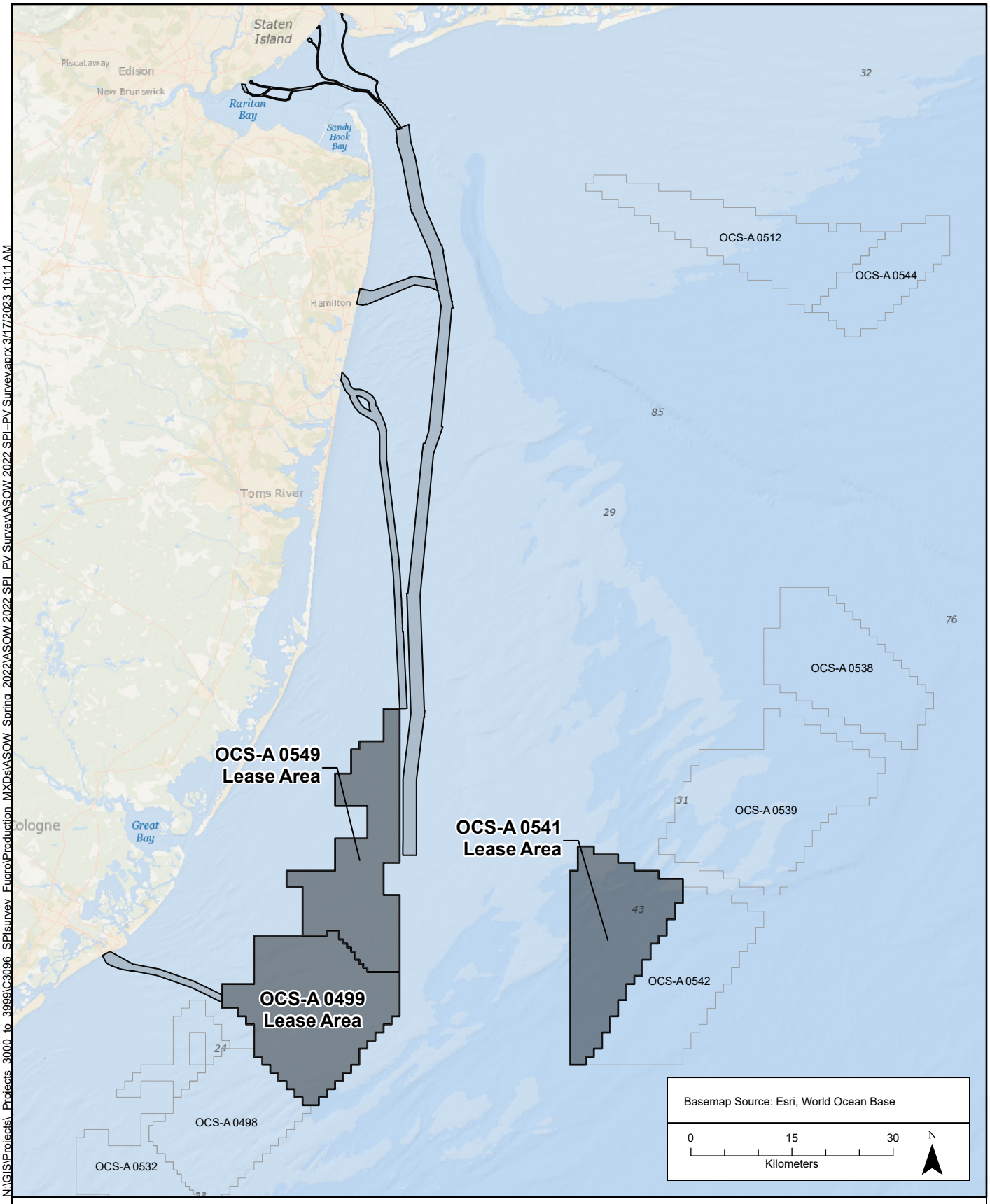

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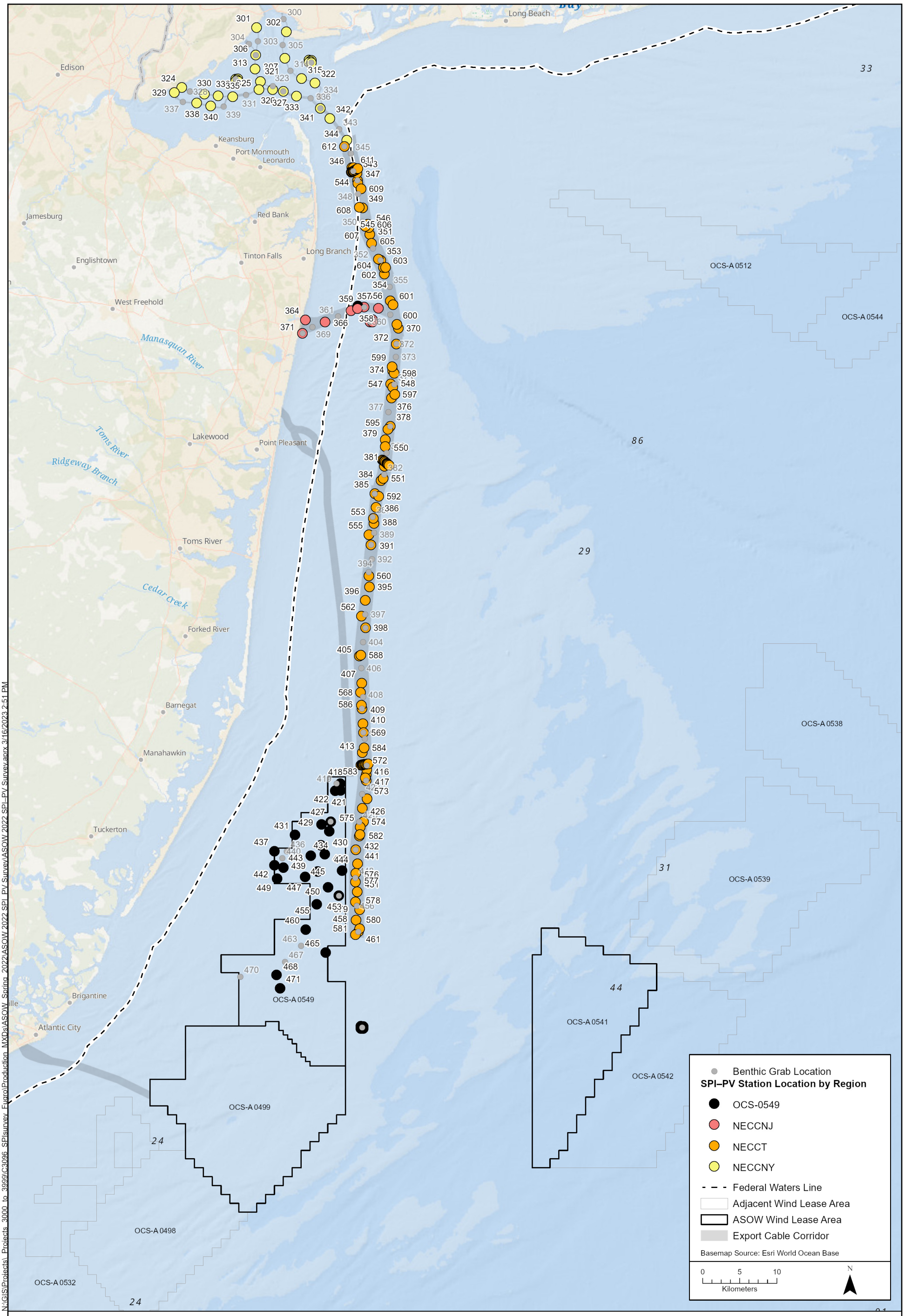
Figure 1-1.
Atlantic Shores Wind Lease Areas, Export Cable Corridors, and Adjacent Wind Lease Areas
Atlantic Shores Offshore Wind Project Areas



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Notes:
1. Offshore benthic survey conducted May 27 - June 15, 2022
2. NECCNY benthic survey conducted July 14 - July 16, 2022
2. Basemap elevations shown as meters below sea level

Figure 2-1.
Benthic Survey Sampling Locations
Atlantic Shores Offshore Wind Project Areas

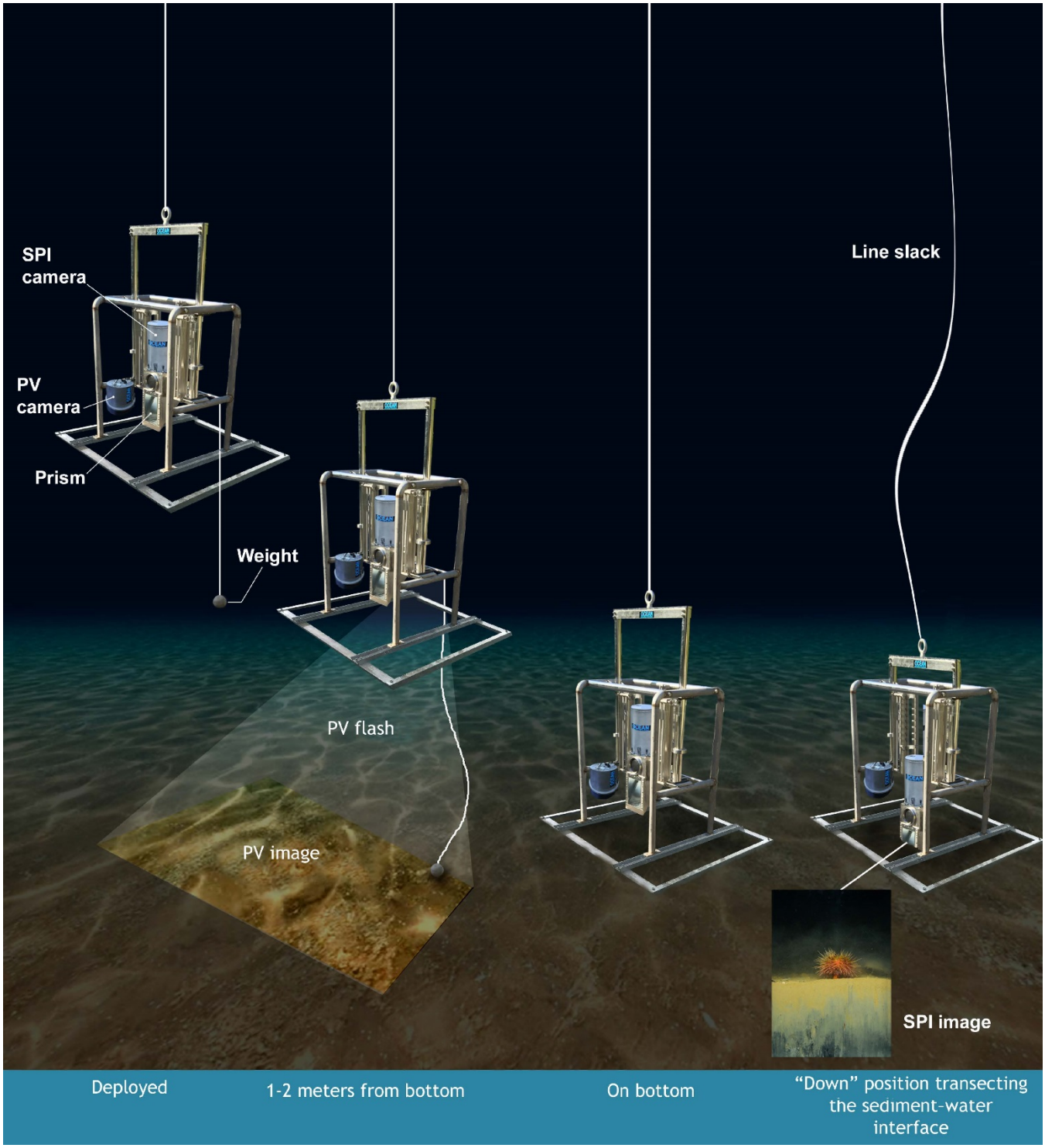

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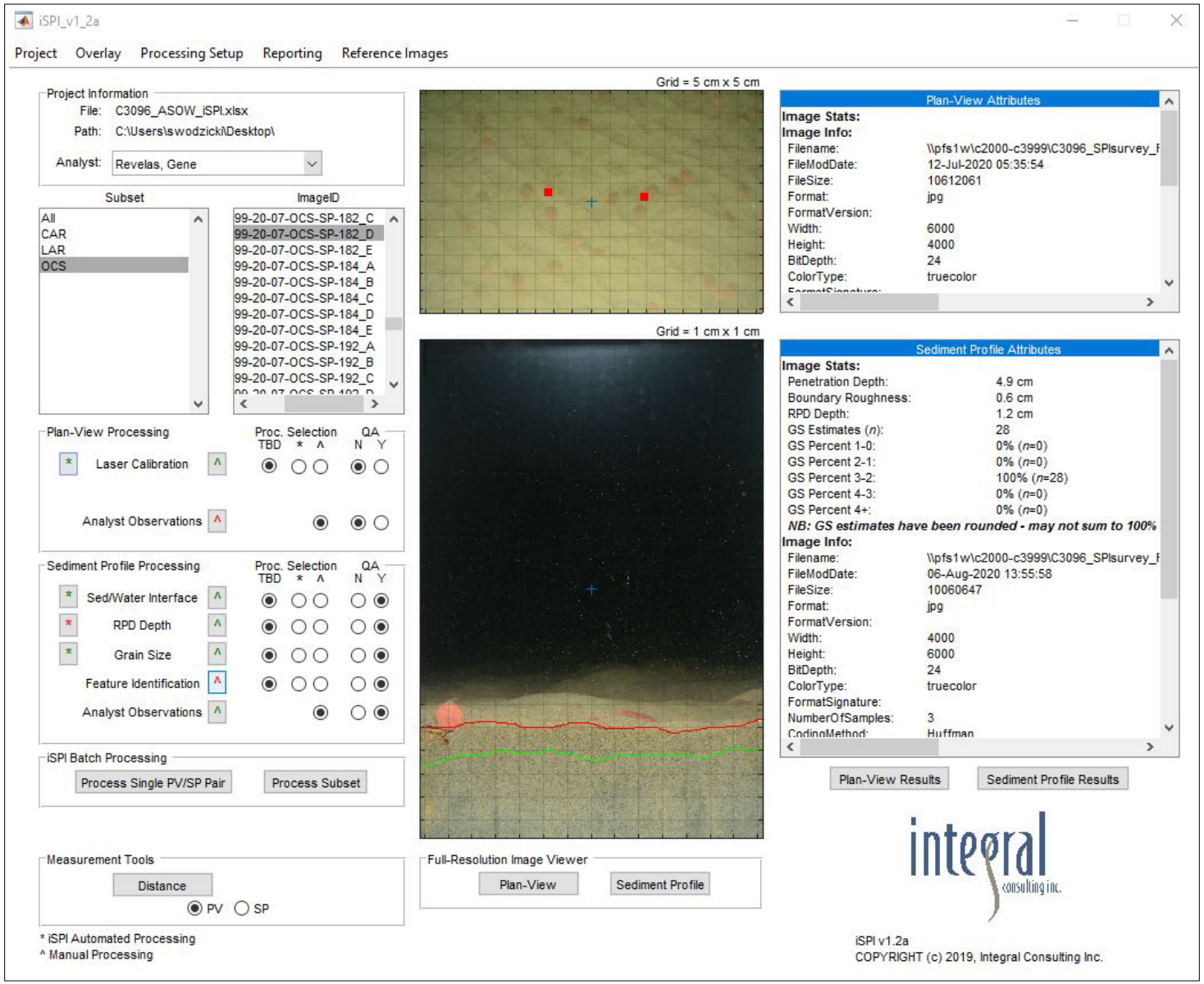
Figure 2-2.
The Sediment Profile and Plan View Camera System Deployment



Red dots in PV image are 26-cm-spaced laser scalers.

SPI Image Lines:

- red = sediment-water interface
- green = aRPD boundary
- blue = encircle feeding voids and worms

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Figure 2-3.
iSPI Display. Paired PV (top) and SPI (bottom) images are shown in center. Station list and analyst menus are on left. Real-time data are on right; "results" buttons allow data export.

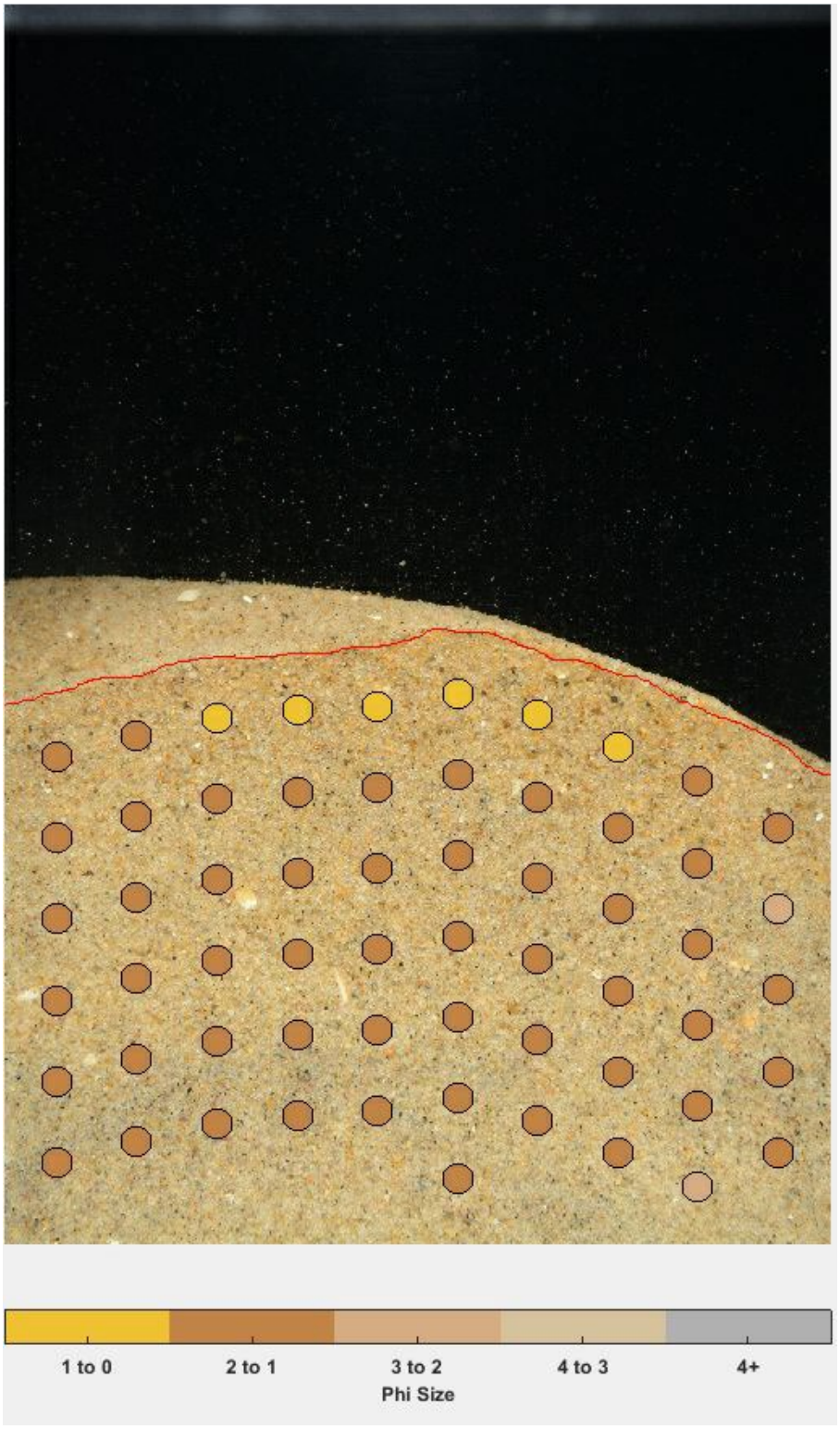


Figure 2-4. iSPI Grain Size Major Mode Output
iSPI grain size major mode output showing the algorithm's assignment of phi size classes in each 512x512 pixel (~1.8x1.8 cm) portion of the image. Most of this sand ripple is medium sand (2 to1 phi), with coarse sand (1 to 0 phi) on the crest and some fine sand (3 to 2 phi) at depth. Red line is SWI.

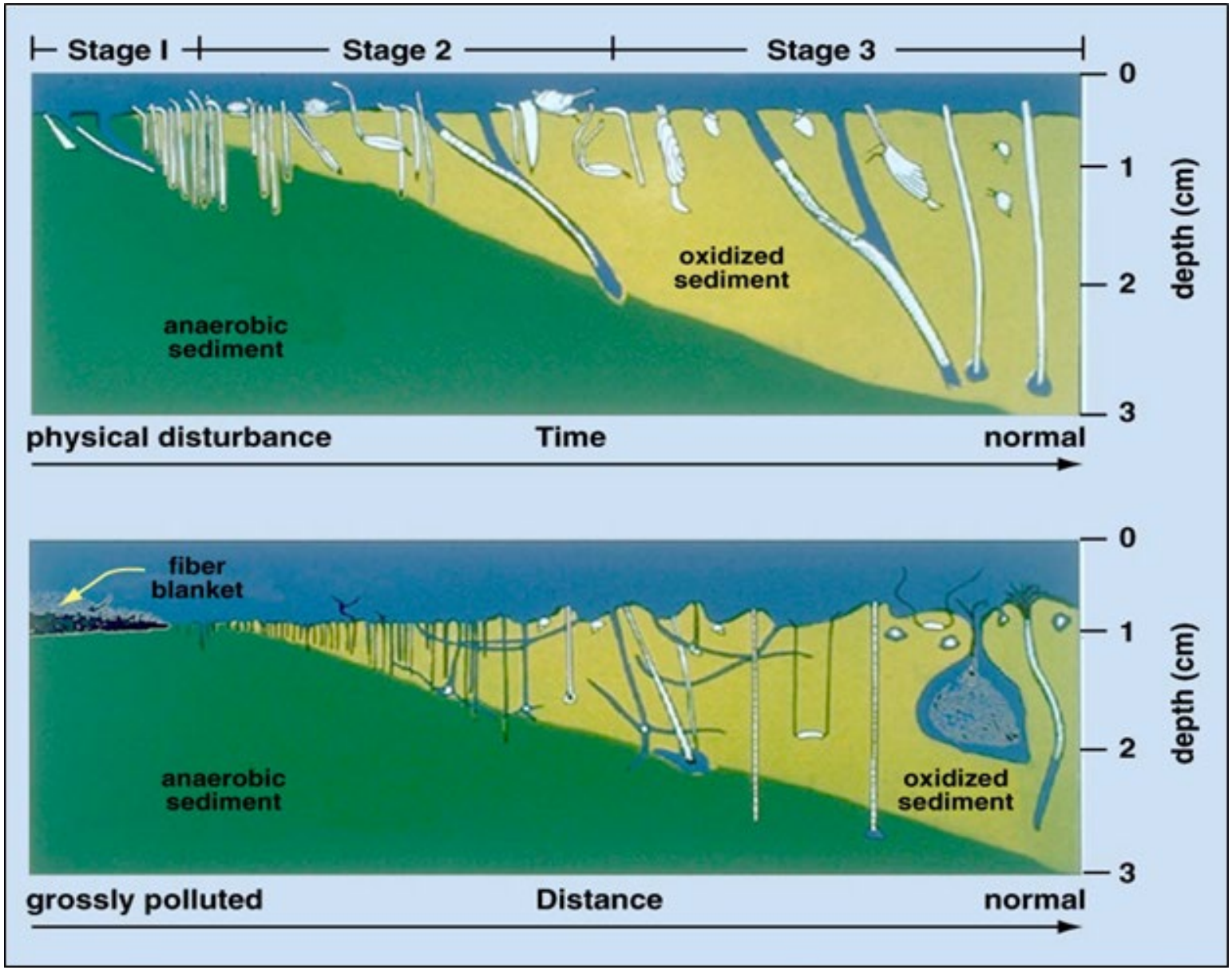
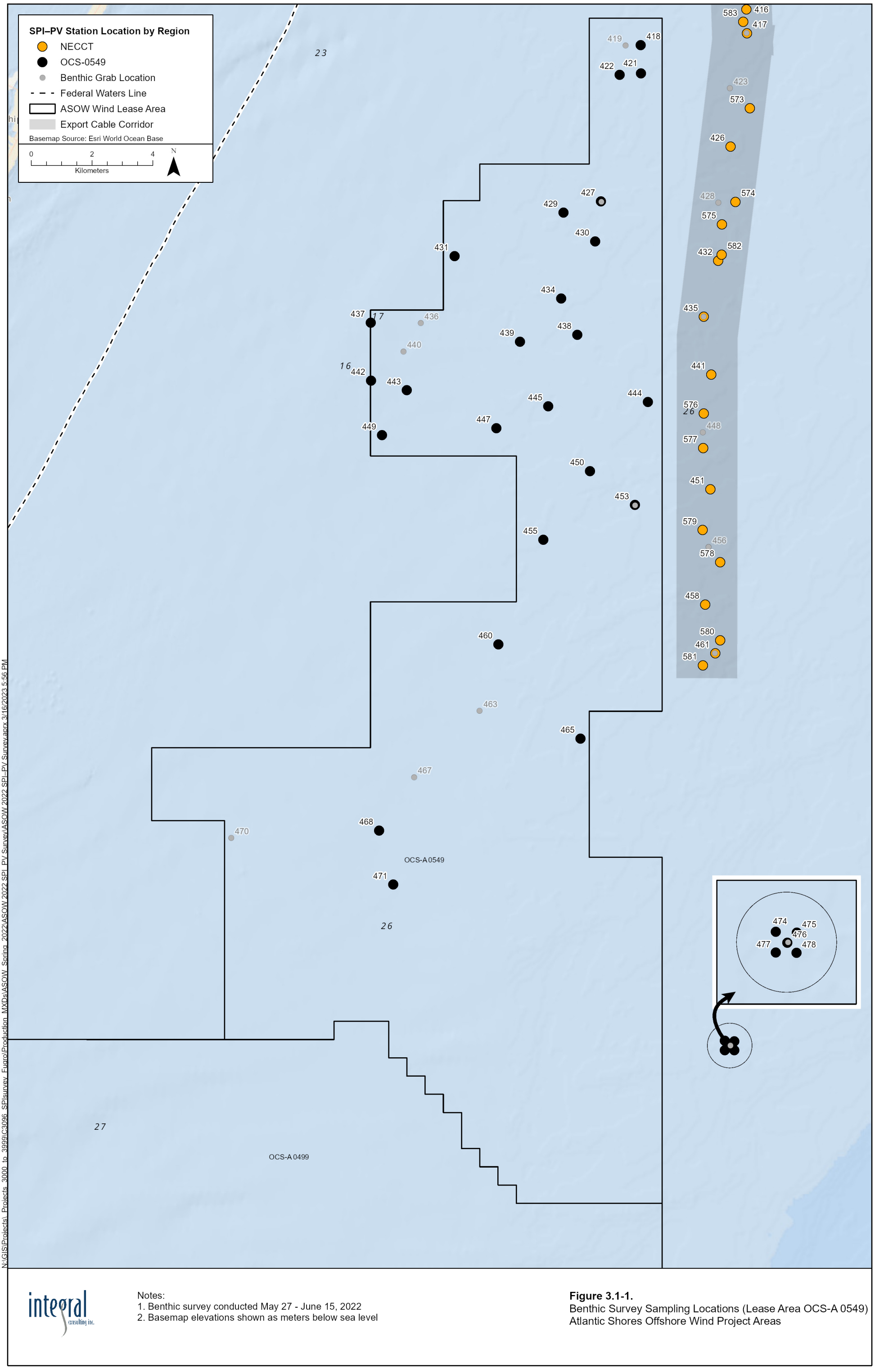


Figure 2-5.
Benthic Infaunal Successional Stages that Develop Over Time or Space Following a Disturbance (from Rhoads and Germano 1982)



Notes:
1. Benthic survey conducted May 27 - June 15, 2022
2. Basemap elevations shown as meters below sea level

Figure 3.1-1.
Benthic Survey Sampling Locations (Lease Area OCS-A 0549)
Atlantic Shores Offshore Wind Project Areas

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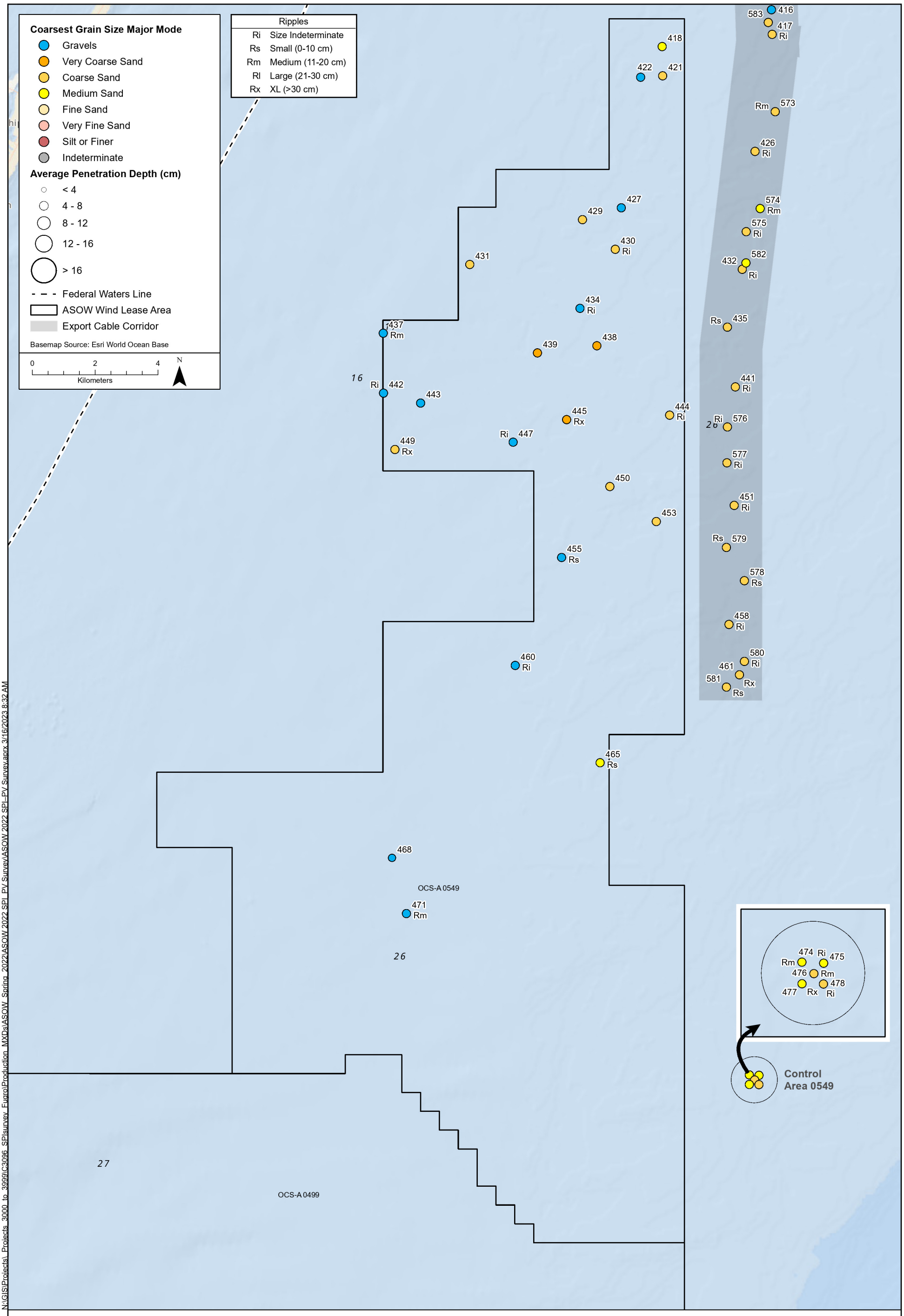

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Notes:
1. SPI–PV survey conducted May 27 - June 15, 2022
2. Basemap elevations shown as meters below sea level

Figure 3.1-2.
Key SPI–PV Physical Parameters (Lease Area OCS-A 0549)
Atlantic Shores Offshore Wind Project Areas

SPI–PV Station Location
(Substrate Group | Substrate Subgroup)
Federal Waters Line
ASOW Wind Lease Area
Export Cable Corridor
Basemap Source: Esri World Ocean Base
0 2 4 Kilometers
N

Substrate Group		Substrate Subgroup	
GR	Gravels	pG	Pebble/granule
GM	Gravel mixes	mG	Muddy gravel
GY	Gravelly	sG	Sandy gravel
SD	Sand	cS	Very coarse/coarse sand
MS	Muddy sand	gS	Gravelly sand
SM	Sandy mud	gmS	Gravelly muddy sand
MD	Mud	mS	Medium sand
SH	Shell hash (subclass)	fS	Fine sand
Ind	Indeterminate	gM	Gravelly mud
		NA	Not applicable

23 16 26 27

OCS-A 0549 OCS-A 0499

416 GM/sG
583 417 GM/sG SD/cS
418 SD/mS
422 SD/fS 421 SD/mS
573 SD/cS
426 SD/cS
427 GM/sG
429 GY/gS
574 SD/fS
575 SD/cS
430 SD/mS
431 GM/sG
582 432 SD/mS SD/mS
434 GM/sG
435 SD/cS
437 GY/gS
439 GY/gS
438 GY/gS
441 SD/mS
442 GM/sG
443 GY/gS
444 SD/cS
445 SD/cS
576 SD/cS
447 GM/sG
449 GY/gS
577 SD/cS
450 GY/gS
451 SD/cS
453 SD/mS
579 SD/cS
455 GM/sG
578 SD/cS
458 SD/cS
460 SD/cS
580 SD/mS
461 GY/gS
581 SD/cS
465 SD/mS
468 GM/sG
471 GM/sG

SD/mS SD/mS
474 475
476 SD/cS
477 478
SD/mS SD/cS

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Notes:
1. SPI–PV survey conducted May 27 - June 15, 2022
2. Basemap elevations shown as meters below sea level

Substrate Subgroup
400 GY / gS
Station ID
Substrate Group

Figure 3.1-3.
CMECS Substrate Classifications Based on SPI–PV Imagery
(Lease Area OCS-A 0549)
Atlantic Shores Offshore Wind Project Areas

SPI–PV Station Location
(Biotic Group | Co-occurring Biotic Group)
Federal Waters Line
ASOW Wind Lease Area
Export Cable Corridor
Basemap Source: Esri World Ocean Base
0 2 4 Kilometers
N

Biotic Group	
AA	Attached Anemones
AH	Attached Hydroids
AM	Attached Mussels
DC	Diverse Colonizers
SG	Sessile Gastropods
CB	Clam Bed
CM	Mobile Crustaceans on Hard or Mixed Substrates
DE	Diverse Soft Sediment Epifauna
MM	Mobile Mollusks on Hard or Mixed Substrates
SD	Sand Dollar Bed
SF	Starfish Bed
BA	Burrowing Anemones
CS	Mobile Crustaceans on Soft Sediments
FM	Fecal Mounds
LB	Larger Deep-Burrowing Fauna
LT	Larger Tube-Building Fauna
MB	Mussel Bed
MS	Mobile Mollusks on Soft Sediments
ST	Small Tube-Building Fauna
TT	Tracks and Trails
IND	Indeterminate
NA	None

23 16 26 27

OCS-A 0549 OCS-A 0499

416 CM/NA
583 417 CM/LT SD/MS
418 LT/SD
422 CS/MS 421 SD/CS
573 SD/CS
426 SD/NA
427 CM/TT 429 CM/CS
574 SD/MS
575 SD/LT
430 CS/TT
582 432 CS/MS SD/TT
431 CM/LT
434 LT/CM
435 SD/TT
437 AM/CM
439 CM/SD 438 CS/CM
441 SD/MS
442 CM/LT 443 AM/CM
445 SD/LT
444 SD/CB
576 SD/TT
447 CM/LT
449 CM/SD
577 SD/CB
450 LT/CM
451 SD/CS
453 CS/TT
579 SD/NA
455 SD/CM
578 SD/CB
458 SD/NA
460 SD/LT
SD/CS 580 461 SD/LT 581 SD/MS
465 SD/CS
468 CM/NA
471 CM/SD

SD/MS SD/LT
474 475
476 SD/MS
477 478
SD/MS SD/TT

Control Area 0549

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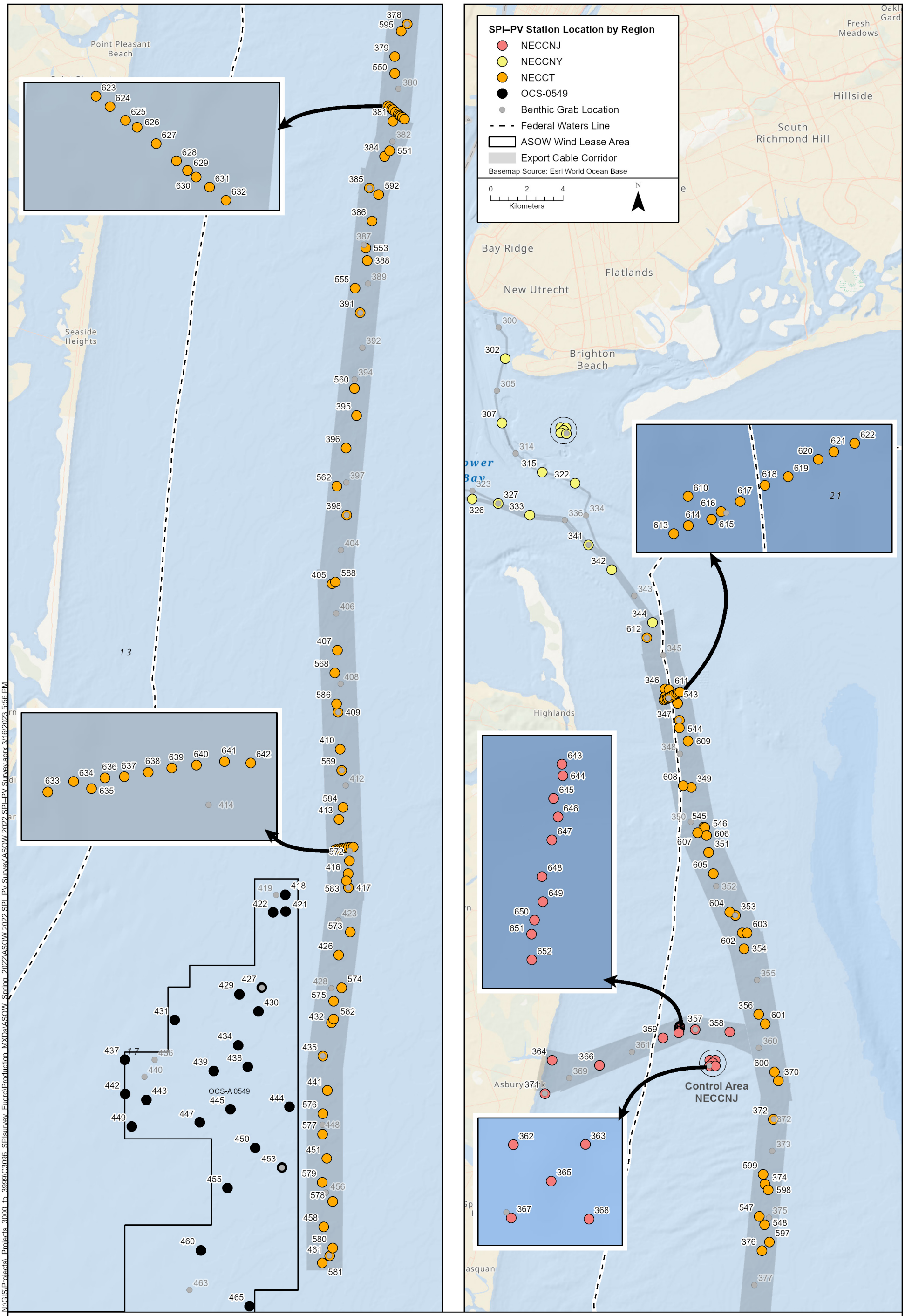
Notes:
1. SPI–PV survey conducted May 27 - June 15, 2022
2. Basemap elevations shown as meters below sea level

Co-occurring Biotic Group
400 SD / MS
Station ID
Biotic Group

Figure 3.1-4.
CMECS Biotic Classifications Based on SPI–PV Imagery
(Lease Area OCS-A 0549)
Atlantic Shores Offshore Wind Project Areas



Notes:
1. Benthic survey conducted May 27 - June 15, 2022
2. Basemap elevations shown as meters below sea level

Figure 3.2-1.
Benthic Survey Sampling Locations (NECCT and NECCNJ)
Atlantic Shores Offshore Wind Project Areas

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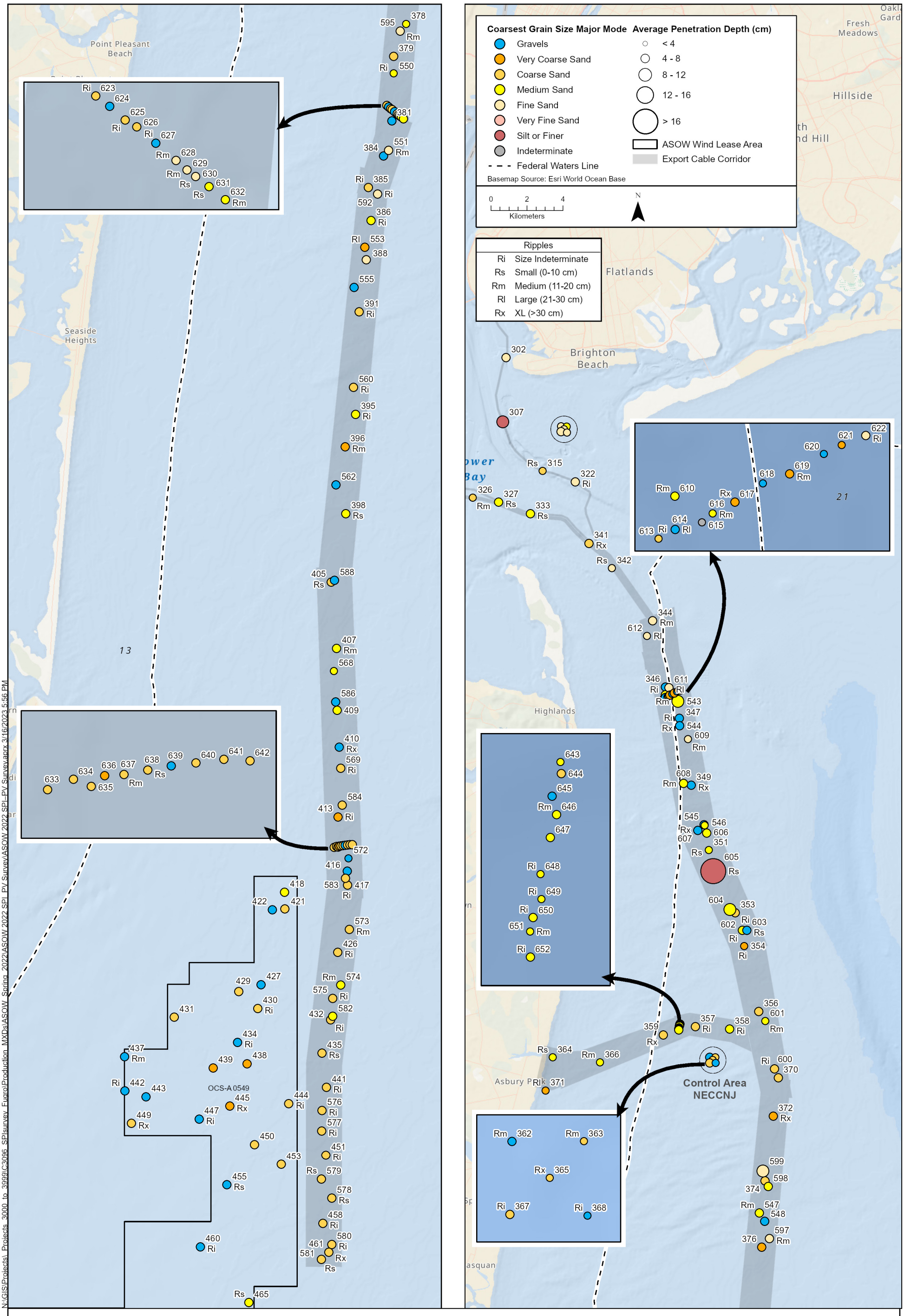
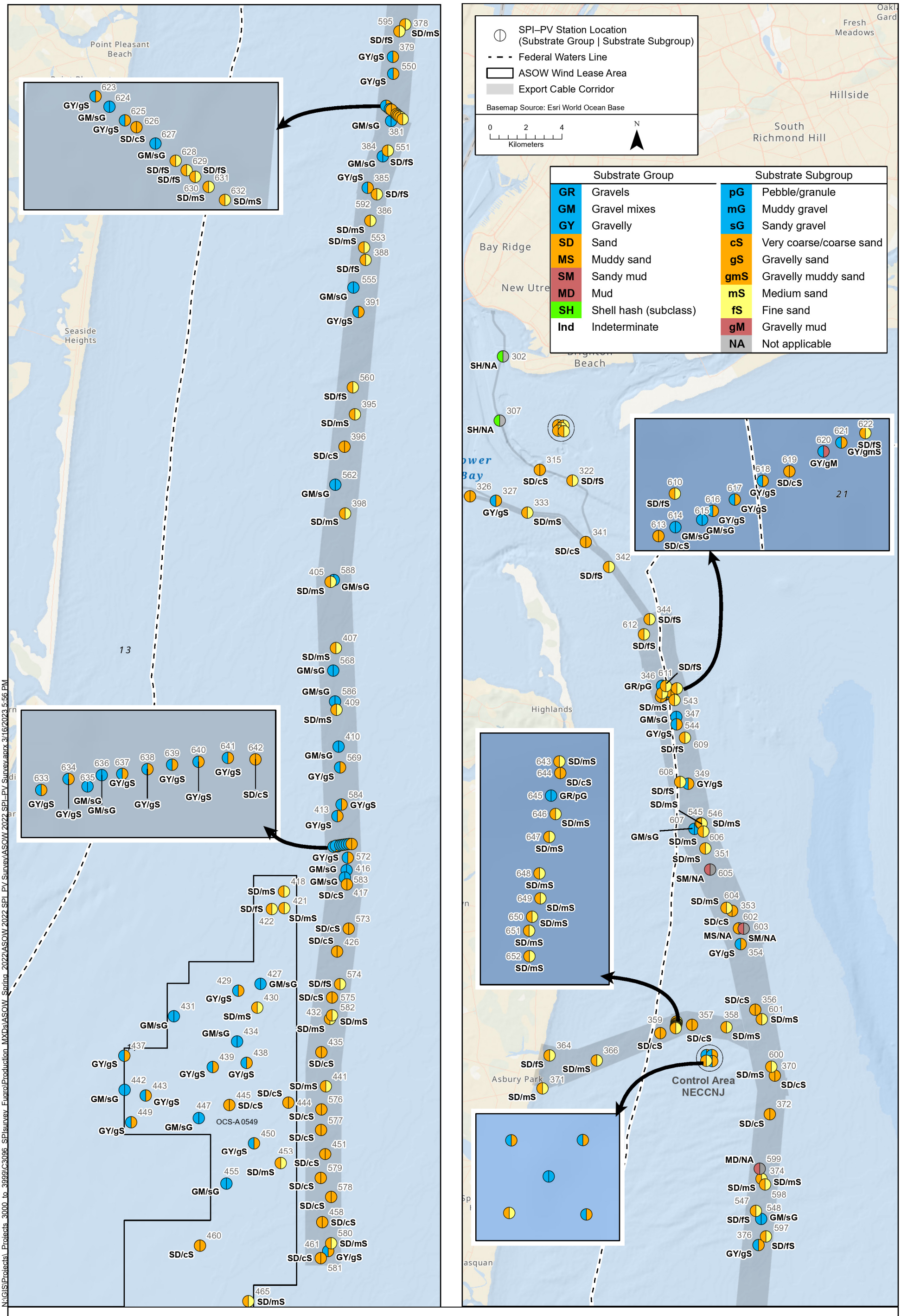


Notes:
1. SPI–PV survey conducted May 27 - June 15, 2022
2. Basemap elevations shown as meters below sea level

Figure 3.3-2.
Key SPI–PV Physical Parameters (NECCT and NECCNJ)
Atlantic Shores Offshore Wind Project Areas



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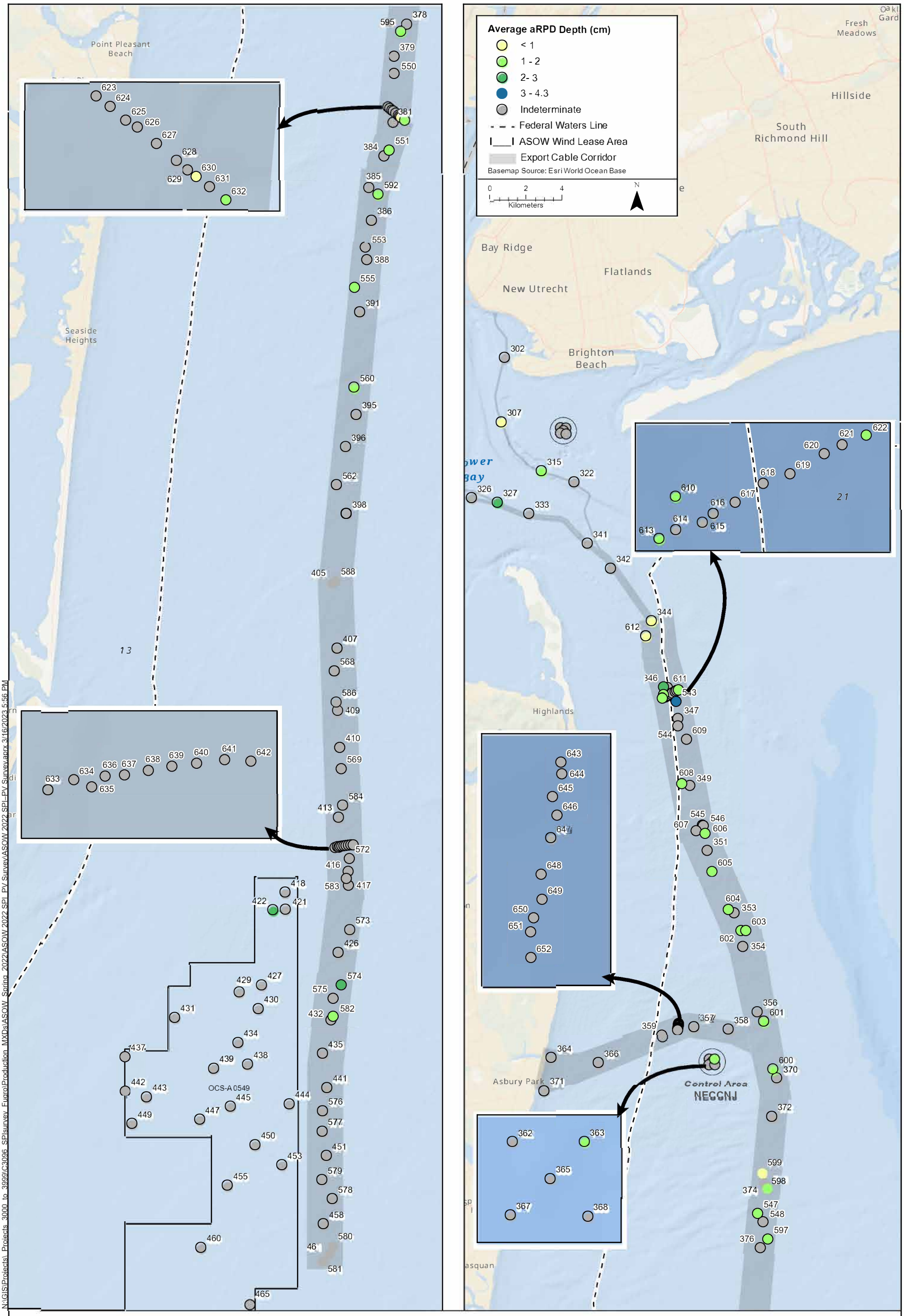
Notes:
1. SPI–PV survey conducted May 27 - June 15, 2022
2. Basemap elevations shown as meters below sea level

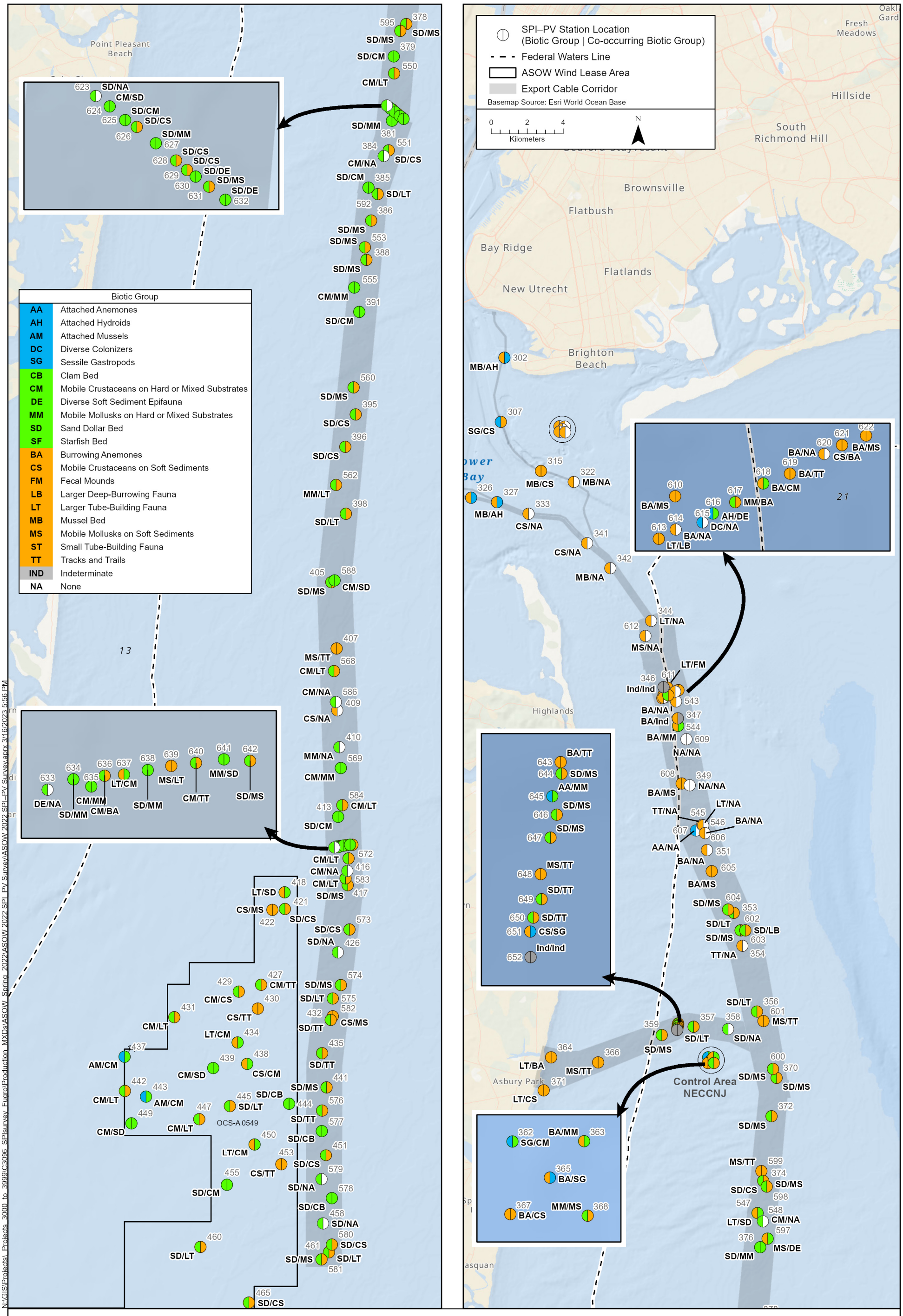
Substrate Subgroup
Station ID 400 GY / gS
Substrate Group

Figure 3.2-3.
CMECS Substrate Classifications Based on SPI–PV Imagery (NECCT and NECCNJ)
Atlantic Shores Offshore Wind Project Areas



Notes:
1. SPI–PV survey conducted May 27 - June 15, 2022
2. Basemap elevations shown as meters below sea level

Figure 3.2-4.
Distribution of SPI aRPD Depths (NECCT and NECCNJ)
Atlantic Shores Offshore Wind Project Areas



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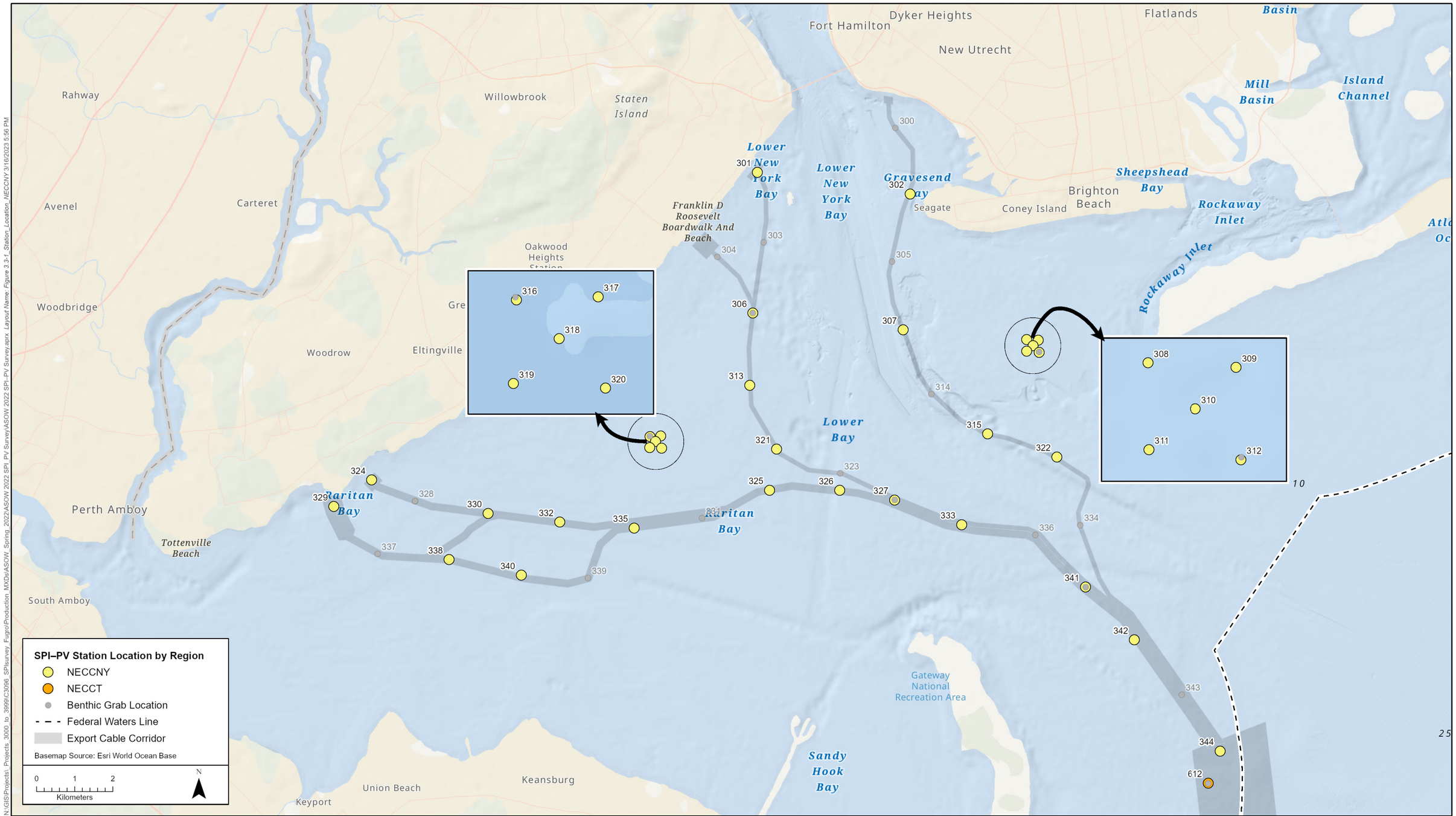
Notes:
1. SPI–PV survey conducted May 27 - June 15, 2022
2. Basemap elevations shown as meters below sea level

Co-occurring Biotic Group
Station ID 400 SD / MS Biotic Group

Figure 3.2-5.
CMECS Biotic Classifications Based on SPI–PV Imagery (NECCT and NECCNJ)
Atlantic Shores Offshore Wind Project Areas



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Notes:
1. NECCNY benthic survey conducted July 14 - July 16, 2022
2. Basemap elevations shown as meters below sea level

Figure 3.3-1.
Benthic Survey Sampling Locations (NECCNY)
Atlantic Shores Offshore Wind Project Areas

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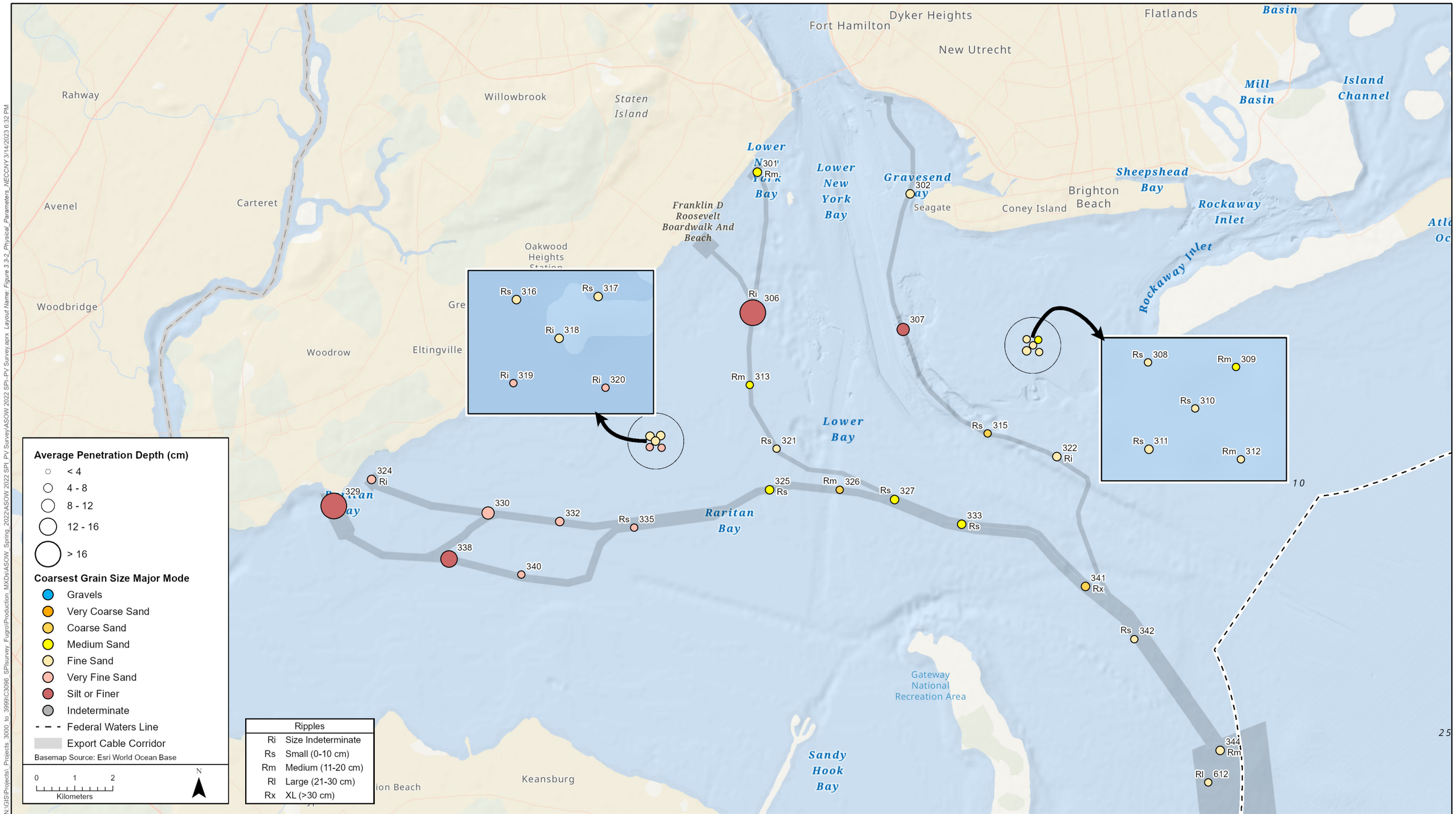

Notes:
1. NECCNY SPI–PV survey conducted July 14 - July 16, 2022
2. Basemap elevations shown as meters below sea level

Figure 3.3-2.
Key SPI–PV Physical Parameters (NECCNY)
Atlantic Shores Offshore Wind Project Areas

Substrate Group		Substrate Subgroup	
GR	Gravels	pG	Pebble/granule
GM	Gravel mixes	mG	Muddy gravel
GY	Gravelly	sG	Sandy gravel
SD	Sand	cS	Very coarse/coarse sand
MS	Muddy sand	gS	Gravelly sand
SM	Sandy mud	gmS	Gravelly muddy sand
MD	Mud	mS	Medium sand
SH	Shell hash (subclass)	fS	Fine sand
Ind	Indeterminate	gM	Gravelly mud
		NA	Not applicable

SPI–PV Station Location
(Substrate Group | Substrate Subgroup)
Federal Waters Line
Export Cable Corridor
Basemap Source: Esri World Ocean Base

0 1 2 Kilometers

N

Notes:
1. NECCNY SPI–PV survey conducted July 14 - July 16, 2022
2. Basemap elevations shown as meters below sea level

Substrate Subgroup
Station ID 400 GY / gS
Substrate Group

Figure 3.3-3.
CMECS Substrate Classifications Based on SPI–PV Imagery (NECCNY)
Atlantic Shores Offshore Wind Project Areas

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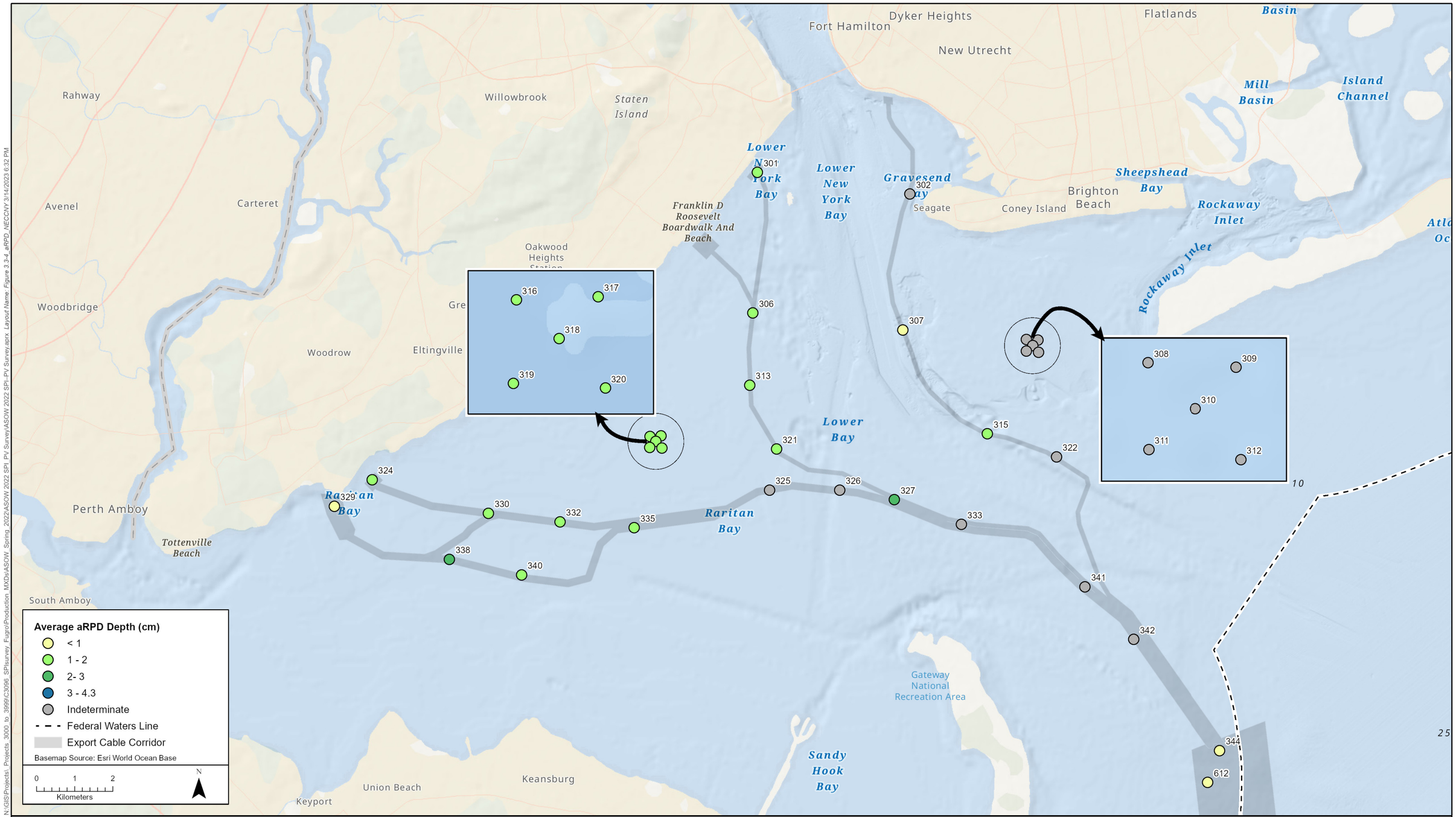

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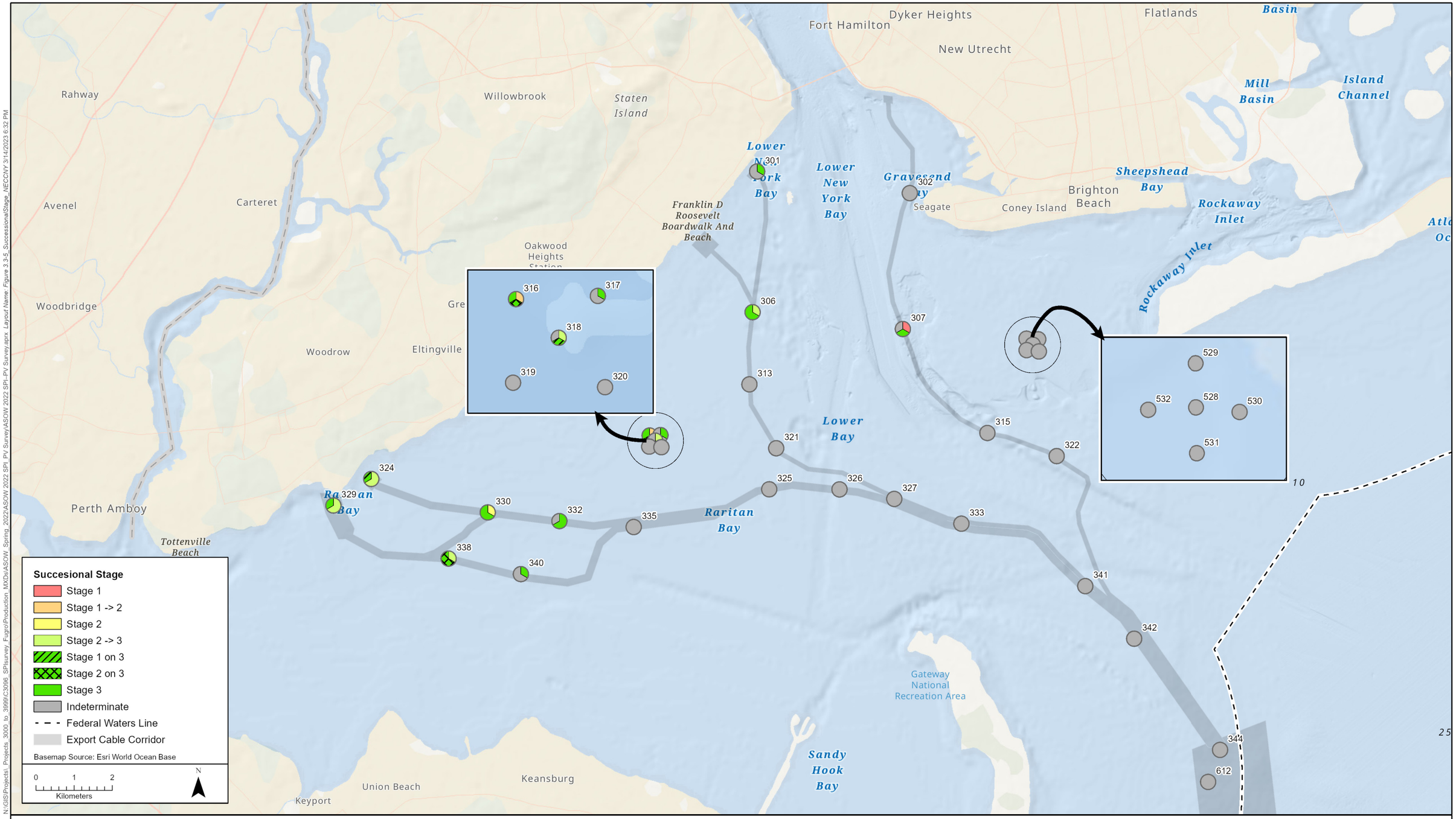
Notes:
1. NECCNY SPI–PV survey conducted July 14 - July 16, 2022
2. Basemap elevations shown as meters below sea level

Figure 3.3-4.
Distribution of SPI aRPD Depths (NECCNY)
Atlantic Shores Offshore Wind Project Areas



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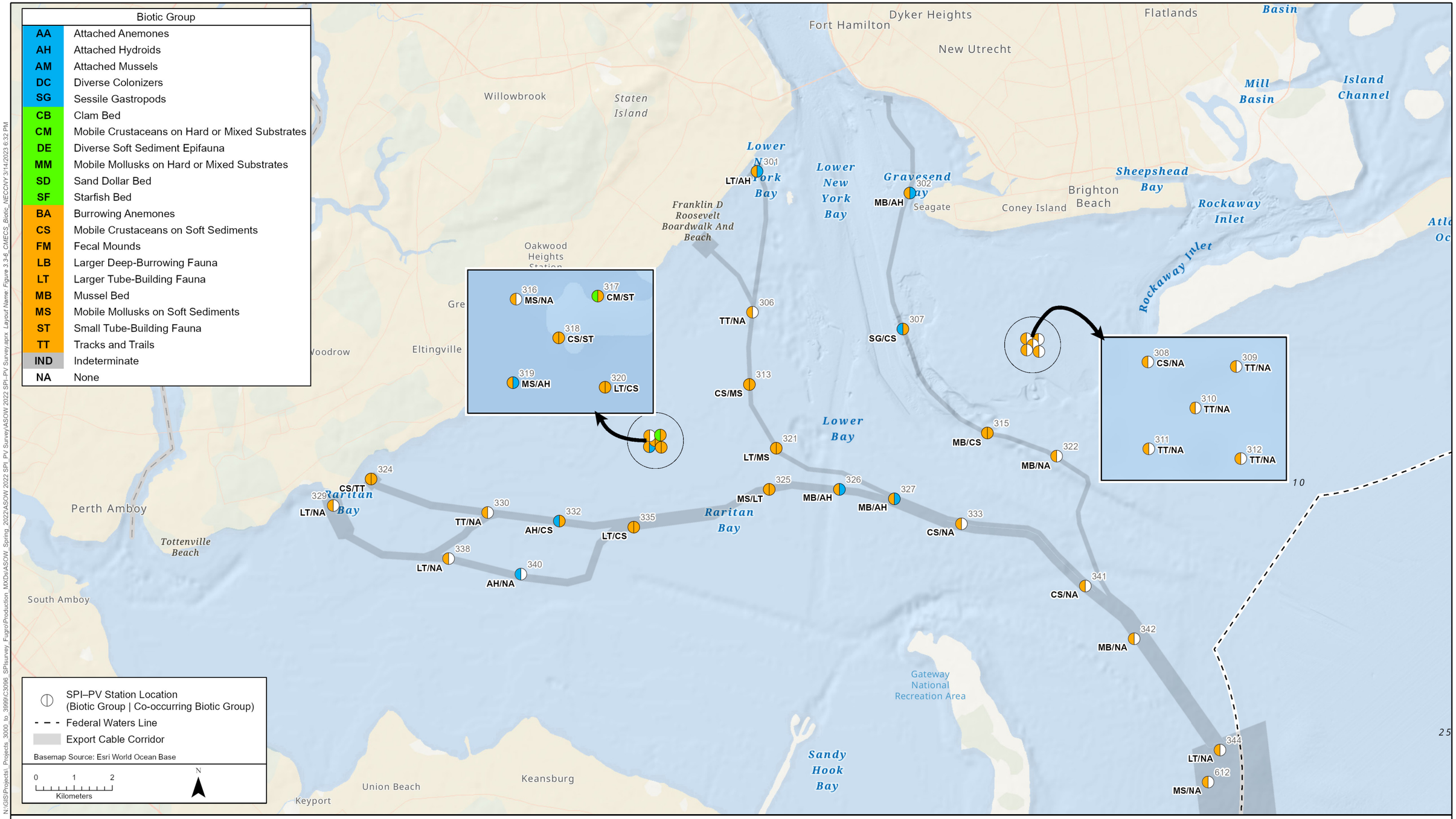
Notes:
1. NECCNY SPI–PV survey conducted July 14 - July 16, 2022
2. Basemap elevations shown as meters below sea level

Figure 3.3-5.
Distribution of Infaunal Successional Stage for Each SPI Replicate (NECCNY)
Atlantic Shores Offshore Wind Project Areas

Biotic Group	
AA	Attached Anemones
AH	Attached Hydroids
AM	Attached Mussels
DC	Diverse Colonizers
SG	Sessile Gastropods
CB	Clam Bed
CM	Mobile Crustaceans on Hard or Mixed Substrates
DE	Diverse Soft Sediment Epifauna
MM	Mobile Mollusks on Hard or Mixed Substrates
SD	Sand Dollar Bed
SF	Starfish Bed
BA	Burrowing Anemones
CS	Mobile Crustaceans on Soft Sediments
FM	Fecal Mounds
LB	Larger Deep-Burrowing Fauna
LT	Larger Tube-Building Fauna
MB	Mussel Bed
MS	Mobile Mollusks on Soft Sediments
ST	Small Tube-Building Fauna
TT	Tracks and Trails
IND	Indeterminate
NA	None



N:\GIS\Projects_Projects_3000_to_3999\C3096_SPIsurvey_Fugro\Production_MXDs\ASOW_Spring_2022\ASOW 2022 SPI_PV Survey\ASOW 2022 SPI–PV Survey.aprx Layout Name: Figure 3.3-6_CMECS_Biotic_NECCNY 3/14/2023 6:32 PM

Notes:
1. NECCNY SPI–PV survey conducted July 14 - July 16, 2022
2. Basemap elevations shown as meters below sea level

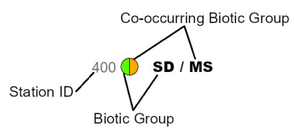


Figure 3.3-6.
CMECS Biotic Classifications Based on SPI–PV Imagery (NECCNY)
Atlantic Shores Offshore Wind Project Areas

Tables

Table 3.1-1. Key Physical/Geochemical Parameters Summarized by Station (Lease Area OCS-A 0549)

Station ID	Station Average Penetration (cm)	Station Average Roughness (cm)	Station Average aRPD (cm)	Coarsest Grain Size Major Mode	Station Grain Size Descriptor Code	Ripple Presence and Size
ASOW0549-22-OCS-SP-418	5.07	1.43	Ind	2 to 1	mS	
ASOW0549-22-OCS-SP-421	5.40	0.93	Ind	1 to 0	cS	
ASOW0549-22-OCS-SP-422	5.07	1.53	2.20	-2 to -3	Gr	
ASOW0549-22-OCS-SPG-427	6.90	3.07	Ind	-1 to -2	Gr	
ASOW0549-22-OCS-SP-429	4.67	1.23	Ind	1 to 0	cS	
ASOW0549-22-OCS-SP-430	6.20	1.47	Ind	2 to 1	mS	Ri
ASOW0549-22-OCS-SP-431	5.10	1.20	Ind	1 to 0	cS	
ASOW0549-22-OCS-SP-434	5.73	1.93	Ind	-1 to -2	Gr	Ri
ASOW0549-22-OCS-SP-437	4.40	1.67	Ind	-1 to -2	Gr	RI
ASOW0549-22-OCS-SP-438	7.60	1.20	Ind	0 to -1	vcS	
ASOW0549-22-OCS-SP-439	7.40	2.33	Ind	0 to -1	vcS	
ASOW0549-22-OCS-SP-442	6.40	2.30	Ind	-1 to -2	Gr	Ri
ASOW0549-22-OCS-SP-443	5.50	1.93	Ind	-1 to -2	Gr	
ASOW0549-22-OCS-SP-444	5.67	2.07	Ind	1 to 0	cS	Ri
ASOW0549-22-OCS-SP-445	5.97	2.60	Ind	0 to -1	vcS	Ri
ASOW0549-22-OCS-SP-447	6.53	2.27	Ind	-1 to -2	Gr	Ri
ASOW0549-22-OCS-SP-449	4.13	2.13	Ind	1 to 0	cS	Ri
ASOW0549-22-OCS-SP-450	5.40	1.37	Ind	1 to 0	cS	
ASOW0549-22-OCS-SPG-453	5.70	1.30	Ind	1 to 0	cS	
ASOW0549-22-OCS-SP-455	6.77	1.90	Ind	-1 to -2	Gr	Rs
ASOW0549-22-OCS-SP-460	4.57	1.20	Ind	1 to 0	cS	Ri
ASOW0549-22-OCS-SP-465	5.73	1.30	Ind	2 to 1	mS	Ri
ASOW0549-22-OCS-SP-468	3.57	2.50	Ind	-1 to -2	Gr	
ASOW0549-22-OCS-SP-471	5.40	1.73	Ind	-1 to -2	Gr	Rm
ASOW0549-22-OCS-SPC-474	6.40	1.23	Ind	2 to 1	mS	Ri
ASOW0549-22-OCS-SPC-475	5.03	1.07	Ind	2 to 1	mS	Ri
ASOW0549-22-OCS-SPGC-476	5.43	1.43	Ind	1 to 0	cS	Ri
ASOW0549-22-OCS-SPC-477	5.90	1.73	Ind	2 to 1	mS	Ri
ASOW0549-22-OCS-SPC-478	6.10	1.60	Ind	1 to 0	cS	Ri

Table 3.1-1. Key Physical/Geochemical Parameters Summarized by Station (Lease Area OCS-A 0549)

	Station Average Penetration (cm)	Station Average Roughness (cm)	Station Average aRPD (cm)
N (measured)	29	29	1
Min	3.57	0.93	2.20
Mean	5.65	1.71	2.20
Median	5.67	1.60	2.20
Max	7.60	3.07	2.20

Ripples Presence and Wavelength	
Rs	**1**
Rm	**1**
Rl	**1**
Rx	**0**
Ri	**14**
N =	**17**

aRPD Ind **28**

Notes:

aRPD = apparent redox potential discontinuity
cS = coarse sand
Gr = gravel
Ind = indeterminate
mS = medium sand
Ri = size indeterminate
Rl = large (21–30 cm)
Rm = medium (11–20 cm)
Rs = small (0–10 cm)
Rx = extra large (>30 cm)
vcS = very coarse sand

Table 3.1-2. CMECS Substrate and Biotic Classifications for each SPI–PV Image Pair (Lease Area OCS-A 0549)

				CMECS Substrate Classifications				CMECS Biotic Classifications					
Station ID	Replicate	Water Depth (m)	Habitat Type	Substrate Class	Substrate Subclass	Substrate Group	Substrate Subgroup	Biotic Subclass	Co-occurring Biotic Subclass	Biotic Group	Co-occurring Biotic Group	Epifauna, Infauna & Fish Types and Counts	Comments
ASOW0549-22-OCS-SP-418	A	24	Sand with shell fragments	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Mobile Mollusks on Soft Sediments	Diopatra (3), Snail (2)	Medium to fine sand with large spisula shell. Few granules, many tracks.
ASOW0549-22-OCS-SP-418	B	24	Sand with granules and shell fragments	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Sand Dollar Bed	Diopatra (4), Sand dollar (2), Snail (1)	Medium sand with some granules and few shell fragments. Many tracks and trails.
ASOW0549-22-OCS-SP-418	C	24	Sand with gravel and very few shell fragments	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Sand dollar (9), Diopatra (2)	Medium sand with pebble/granules and shell fragments.
ASOW0549-22-OCS-SP-421	A	24	Sand with trace of shell and gravel	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (11), Snail (3)	Medium to fine sand with few shell fragments.
ASOW0549-22-OCS-SP-421	C	24	Sand with gravel and shell fragments	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand dollar (5), Hermit crab (3)	Coarse sand with pebble/granules and some shell fragments. Numerous tracks and trails.
ASOW0549-22-OCS-SP-421	E	24	Sand with gravel and shell fragments	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand dollar (7), Hermit crab (4)	Medium sand with some pebble/granules towards bottom of image. Numerous tracks and trails.
ASOW0549-22-OCS-SP-422	C	24	Hard bottom substrate	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Burrowing Anemones	Hermit crab (20), Burrowing anemone (2)	Pebble/granules with some medium sand and few shell fragments.
ASOW0549-22-OCS-SP-422	D	24	Sand with few shell fragments	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	Mobile Mollusks on Soft Sediments	Hermit crab (15), Snail (5), Hydroids (1)	Fine sand with a very high concentration of sand tubes or possible tunicate, few bivalve shells.
ASOW0549-22-OCS-SP-422	E	24	Sand with shell fragments	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	Mobile Mollusks on Soft Sediments	Hermit crab (7), Snail (6)	Fine sand with numerous hermit crabs and snails, and associated tracks and trails.
ASOW0549-22-OCS-SPG-427	A	25	Hard bottom substrate	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	Inferred Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Tracks and Trails	Hermit crab (1)	Pebble/granules with fine to medium sand and shell fragments.
ASOW0549-22-OCS-SPG-427	B	25	Hard bottom substrate	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Diopatra (2), Hermit crab (2)	Pebble/granules with coarse and medium sand, moderate amount of shells.
ASOW0549-22-OCS-SPG-427	C	25	Hard bottom substrate	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	Inferred Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Tracks and Trails	Hermit crab (2)	Pebble/granules with very coarse sand and fine sand.
ASOW0549-22-OCS-SP-429	A	24	Sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	Mobile Mollusks on Hard or Mixed Substrates	Hermit crab (12), Nassariid snail (3), Sand dollar (1)	Sand with gravel and shell. Many possible sand tubes/possible tunicate.
ASOW0549-22-OCS-SP-429	C	24	Hard bottom substrate	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Hermit crab (7), Diopatra (1)	Pebble/granules with fine and coarse sand. Shell fragments.
ASOW0549-22-OCS-SP-429	D	24	Sand with shell fragments	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	Mobile Mollusks on Soft Sediments	Hermit crab (18), Snail (3)	Medium sand with few shell fragments. Possible sand tubes/possible tunicate.
ASOW0549-22-OCS-SP-430	A	24	Sand with shell fragments and few granules/pebbles	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Mobile Crustaceans on Soft Sediments	Diopatra (8), Hermit crab (3), Sand dollar (2)	Medium sand with shell fragments and few granules/pebbles.
ASOW0549-22-OCS-SP-430	B	24	Sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	Inferred Fauna	Mobile Crustaceans on Soft Sediments	Tracks and Trails	Hermit crab (6)	Rippled medium sand with pebbles/granules and shell fragments.
ASOW0549-22-OCS-SP-430	C	24	Sand with very few shell fragments	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	Inferred Fauna	Mobile Crustaceans on Soft Sediments	Tracks and Trails	Hermit crab (3), Diopatra (1)	Medium sand with moderate amount of possible sand tubes/possible tunicate.
ASOW0549-22-OCS-SP-431	A	22	Hard bottom substrate	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	None	Hermit crab (12)	Pebble/granules over sand. Sandy areas have sand tubes/possible tunicate.
ASOW0549-22-OCS-SP-431	B	22	Hard bottom substrate	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Hermit crab (~25), Diopatra (6)	Coarse to medium sand with pebble/granules. Numerous possible sand tubes/possible tunicate.
ASOW0549-22-OCS-SP-431	D	22	Sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Hermit crab (7), Diopatra (3), Barnacles (10)	Medium sand with coarse sand and pebble/granules. Barnacles on one bivalve shell fragment.
ASOW0549-22-OCS-SP-434	A	25	Hard bottom substrate	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Soft Sediment Fauna	Attached Fauna	Larger Tube-Building Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Hermit crab (3), Diopatra (3), Limpets (2)	Rippled medium to coarse sand with pebble/granules and shell.
ASOW0549-22-OCS-SP-434	C	25	Sand with gravel	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	Attached Fauna	Larger Tube-Building Fauna	Mobile Mollusks on Hard or Mixed Substrates	Diopatra (6), Snail (3)	Rippled very coarse sand with pebble/granules and shell fragments.
ASOW0549-22-OCS-SP-434	D	25	Rippled sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	None	Hermit crab (3)	Rippled very coarse sand with granules and shell fragments. Very few epifauna.
ASOW0549-22-OCS-SP-437	A	17	Rippled sand with gravel	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	None	Hermit crab (1)	Rippled fine sands with pebble/granules in troughs. Few tracks and trails.
ASOW0549-22-OCS-SP-437	B	17	Rippled sand with gravel	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Attached Fauna	NA	Attached Mussels	Mobile Crustaceans on Hard or Mixed Substrates	Mussels (12), Hermit crab (3), Crepidula (1)	Fine sand with granules and coarse sand in troughs. Mussels attached to pebble/granules in troughs. One crepidula, large spisula clam shell.
ASOW0549-22-OCS-SP-437	C	17	Rippled sand with gravels	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Attached Fauna	Inferred Fauna	Attached Mussels	Tracks and Trails	Mussel (1)	Fine sand with pebble/granules in troughs. Mussel on right side of image. Few tracks.
ASOW0549-22-OCS-SP-438	A	25	Sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	Attached Fauna	Larger Tube-Building Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Diopatra (7), Sand dollar (3), Hermit crab (3)	Sand from fine to coarse with granules. Numerous tracks and trails.
ASOW0549-22-OCS-SP-438	D	25	Sand with gravel and shell fragments	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	Larger Tube-Building Fauna	Hermit crab (6), Diopatra (3), Astarte clam (2)	Sand with few granules and shell fragments. Some possible sand tubes/possible tunicate.
ASOW0549-22-OCS-SP-438	E	25	Sand with few granules and shell fragments	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	Mobile Mollusks on Soft Sediments	Hermit crab (8), Snail (3), Skate egg case (1)	Sand with few granules and shell fragments. Dense clusters of sand tubes, possible tunicate or sand clasts, few tubes.
ASOW0549-22-OCS-SP-439	B	24	Hard bottom substrate	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Sand Dollar Bed	Hermit crab (6), Mussels (2), Sand dollar (2), Diopatra (1), Skate egg case (1)	Very coarse sand and some granules and shell fragments. Possible sand tubes or tunicate.
ASOW0549-22-OCS-SP-439	C	24	Hard bottom substrate	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Hermit crab (6), Diopatra (1)	Medium to coarse sand with granules/pebbles. Dense cluster of possible sand tubes/tunicate.
ASOW0549-22-OCS-SP-439	E	24	Hard bottom substrate	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Sand Dollar Bed	Hermit crab (10), Snail (2), Sand dollar (1)	Medium sand with very coarse sand, some granules and shell fragments. Dense cluster of possible sand tubes/tunicate.

Table 3.1-2. CMECS Substrate and Biotic Classifications for each SPI–PV Image Pair (Lease Area OCS-A 0549)

				CMECS Substrate Classifications				CMECS Biotic Classifications					
Station ID	Replicate	Water Depth (m)	Habitat Type	Substrate Class	Substrate Subclass	Substrate Group	Substrate Subgroup	Biotic Subclass	Co-occurring Biotic Subclass	Biotic Group	Co-occurring Biotic Group	Epifauna, Infauna & Fish Types and Counts	Comments
ASOW0549-22-OCS-SP-442	A	20	Hard bottom substrate	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	Attached Hydroids	Hermit crab (9), Gastropod egg case (1), Sea Star (1), Hydroids	Sand with pebble/granules and shell fragments. Hydroids attached to bivalve shell. Sand tubes/tunicate cluster in sand portion of frame.
ASOW0549-22-OCS-SP-442	B	20	Hard bottom substrate	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Hermit crab (4), Diopatra (4), Astarte clams (3)	Sand and pebble/granules with shell fragments. Few possible sand tubes/tunicate.
ASOW0549-22-OCS-SP-442	C	20	Hard bottom substrate	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Hermit crab (9), Diopatra (1), Astarte clam (1)	Sand with pebble/granules and shell fragments.
ASOW0549-22-OCS-SP-443	A	24	Sand with few pebble/granules and shell fragments	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	Mobile Mollusks on Soft Sediments	Hermit crab (10), Snail (10), Diopatra (2), Astarte clam (1)	Sand with few pebble granules and shell fragments. Possible sand tubes/tunicate.
ASOW0549-22-OCS-SP-443	C	24	Sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Attached Fauna	Soft Sediment Fauna	Attached Mussels	Larger Tube-Building Fauna	Mussels (~8), Barnacles, Diopatra (5), Hermit crab (4), Sand dollar (1)	Sand with granules and shell fragments. Cluster of live mussels lower right in image with barnacles attached.
ASOW0549-22-OCS-SP-443	E	24	Sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	Attached Fauna	Larger Tube-Building Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Diopatra (7), Hermit crabs (3), Astarte clam (1)	Sand with pebble/granules and shell fragments.
ASOW0549-22-OCS-SP-444	A	25	Rippled sand with shell and trace of gravel	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Clam Bed	Sand dollar (50), Astarte clam (3), Snail (2)	Rippled coarse sand with some shell fragments. Tracks and trails.
ASOW0549-22-OCS-SP-444	B	25	Sand with shell and trace of gravel	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Clam Bed	Sand dollar (38), Astarte clam (5)	Sand with shell fragments. Surface heavily reworked by sand dollars.
ASOW0549-22-OCS-SP-444	C	25	Sand with shell fragments and very few pebble/granules	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Clam Bed	Sand dollar (83), Astarte clam (3), Snail (2)	Sand with few granules and shell fragments. Surface heavily reworked by sand dollars.
ASOW0549-22-OCS-SP-445	A	25	Rippled sand with silt, gravel, and shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand dollar (48), Hermit crab (1), Astarte clam (1)	Rippled coarse sand. Image captured portion of large period ripple. Coarse particles and veneer of silt in trough.
ASOW0549-22-OCS-SP-445	B	25	Rippled sand with shell fragments and few granules	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Sand dollar (4), Diopatra (3), Hermit crab (3), Barnacles	Coarse sand with shell fragments and larger bivalve shells. Barnacles are very small attached to Spisula shell.
ASOW0549-22-OCS-SP-445	E	25	Rippled sand with shell fragments and gravel	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (4), Snail (4), Hermit crab (2), Astarte clam (1), Diopatra (1)	Coarse sand with coarser particles and veneer of silt in trough between ripple crests.
ASOW0549-22-OCS-SP-447	A	24	Rippled sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Hermit crab (5), Astarte clam (1), Sand dollar (1)	Very coarse sand and granules with shell fragments and veneer of silt.
ASOW0549-22-OCS-SP-447	C	24	Hard bottom substrate with sand	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Hermit crab (4), Diopatra (1), crab (1), Nudibranch (1),	Some worm tubes and sand clasts. Gravels and very coarse sand, shell fragments in trough between ripples.
ASOW0549-22-OCS-SP-447	D	24	Hard bottom substrate over rippled sand	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Hard or Mixed Substrates	Sand dollar (4), Hermit crab (3), Astarte clam (1)	Gravels atop rippled coarse sand with few shell fragments. Captured portion of ripple.
ASOW0549-22-OCS-SP-449	B	23	Rippled sand with shell and gravel	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Hermit crab (~20), Sea Star (3), Sand dollar (3), Diopatra (3), Crepidula (3), Anemone (1),	Rippled coarse sand with many shell fragments and coarser particles in troughs between ripple crests. Two sea stars top right image. Possible crepidula shells. Anthropogenically disturbed?
ASOW0549-22-OCS-SP-449	C	23	Sand with gravel and shell hash	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Sand Dollar Bed	Hermit crab (5), Sand dollar (3), Diopatra (2)	Mixture of medium and coarse sand with granule/pebbles and shell fragments. Coarse particles in troughs between ripple crests. Possible sand tubes/tunicate throughout frame.
ASOW0549-22-OCS-SP-449	D	23	Rippled sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Sand Dollar Bed	Hermit crab (11), Sand dollar (7), Diopatra (3)	Medium and coarse sand with shell fragments and pebble/granule in troughs. Few possible sand tubes/tunicate.
ASOW0549-22-OCS-SP-450	A	23	Sand with few shell fragments	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Sand Dollar Bed	Diopatra (5), Sand dollar (1), Astarte clam (1)	Sand with possible sand tubes/tunicate top 1/3 of image, some shell hash, veneer of silt or deposited flocculant material.
ASOW0549-22-OCS-SP-450	D	22	Hard bottom substrate	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	Attached Fauna	Larger Tube-Building Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Diopatra (8), Hermit crab (4)	Sand with numerous bivalve shells and few granules.
ASOW0549-22-OCS-SP-450	E	22	Hard bottom substrate with sand	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	Inferred Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Tracks and Trails	Hermit crab (6)	Coarse sand with pebble/granules and bivalve shells. Few possible sand tubes/tunicate.
ASOW0549-22-OCS-SPG-453	B	25	Sand with shell fragments	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	Inferred Fauna	Sand Dollar Bed	Tracks and Trails	Sand dollar (1)	Medium sand on the surface with shell fragments and large spisula shell. Many tracks.
ASOW0549-22-OCS-SPG-453	C	25	Sand with shell fragments	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	Sand Dollar Bed	Hermit crab (2), Sand dollar (2), Snail (1), Astarte clam (1)	Medium to fine sand with shell fragments. Possible sand tubes/tunicate.
ASOW0549-22-OCS-SPG-453	D	25	Sand with few shell fragments	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Mobile Mollusks on Soft Sediments	Snail (2), Hermit crab (1)	Fine sand with few shell fragments. Biogenic depression on left side of image. Possible sand tubes/tunicate evident along margins of biogenically disturbed areas.
ASOW0549-22-OCS-SP-455	A	23	Sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Hard or Mixed Substrates	Sand dollar (19), Hermit crab (2), Astarte clam (2)	Medium to coarse sand with pebble/granules. Dense patch of pebble/granules upper right image.
ASOW0549-22-OCS-SP-455	D	23	Hard bottom substrate over rippled sand	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Hard or Mixed Substrates	Sand dollar (5), Astarte clam (2), Hermit crab (1), Diopatra (1)	Sand with numerous pebble/granules, trace of shell hash.
ASOW0549-22-OCS-SP-455	E	23	Hard bottom substrate on rippled sand	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Hard or Mixed Substrates	Sand dollar (7), Astarte clam (2), Hermit crab (1), Nassariid snail (1)	Rippled sand (eroded) with pebble/granules and shell fragments. Surface reworked by sand dollars.

Table 3.1-2. CMECS Substrate and Biotic Classifications for each SPI–PV Image Pair (Lease Area OCS-A 0549)

				CMECS Substrate Classifications				CMECS Biotic Classifications					
Station ID	Replicate	Water Depth (m)	Habitat Type	Substrate Class	Substrate Subclass	Substrate Group	Substrate Subgroup	Biotic Subclass	Co-occurring Biotic Subclass	Biotic Group	Co-occurring Biotic Group	Epifauna, Infauna & Fish Types and Counts	Comments
ASOW0549-22-OCS-SP-460	A	25	Ripples sand with shell and gravel	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Sand Dollar Bed	Diopatra (7), Sand dollar (4), Sea Star 1, Moon snail egg case (1), Hermit crab (1), Snail (1), Astarte clam (1)	Coarse sand with shell and coarser particles in depressions. Diverse species of epifauna throughout image.
ASOW0549-22-OCS-SP-460	D	25	Rippled sand with gravel and shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Sand dollar (15), Diopatra (2), Skate egg case (1), Snail (1)	Rippled coarse to medium sand, heavily re-worked by sand dollars. Ripples evident, wavelength indeterminate.
ASOW0549-22-OCS-SP-460	E	25	Rippled sands with shell fragments	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand dollar (7), Hermit crabs (3), Diopatra (1), Tunicate siphon (1)	Coarse sand with shell fragments and larger spisula shells. Coarse particles in trough between ripples. Many tracks and trails.
ASOW0549-22-OCS-SP-465	B	25	Rippled sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand dollar (~75), Hermit crab (2)	Rippled sand with few shell fragments. A moderate amount of sand clasts and tracks.
ASOW0549-22-OCS-SP-465	D	25	Rippled sand with silt and shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (61), Snail (3), Tunicate siphon (2), Diopatra (1)	Rippled medium sand with few shell fragments and numerous sand clasts, trace of deposited silt or detritus. Two circular single siphons, from a tunicate.
ASOW0549-22-OCS-SP-465	E	25	Rippled sand trace of silt and shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand dollar (70), Hermit crab (2), Snail (2), Sponge (1)	Medium to fine sand. Upper portion of image many sand clasts and trace of silt. Orange sponge lower center image.
ASOW0549-22-OCS-SP-468	A	24	Hard bottom substrate	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Muddy Sandy Gravel	Soft Sediment Fauna	Attached Fauna	Clam Bed	Mobile Crustaceans on Hard or Mixed Substrates	Astarte clam (6), Hermit crab (3), Crab (1), Skate egg case (1)	Clay outcrop in middle of image with pebble/granules and sand. Many bivalve shells.
ASOW0549-22-OCS-SP-468	C	24	Sand with gravel and shell fragments	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Burrowing Anemones	Hermit crab (2), Cerianthid anemone (1)	Coarse sand and gravels with ceranthid, trace of shell.
ASOW0549-22-OCS-SP-468	D	24	Hard bottom substrate with sand	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	Inferred Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Tracks and Trails	Hermit crab (3)	Fine gravels over sand with shell fragments, numerous bivalve shells.
ASOW0549-22-OCS-SP-471	A	28	Hard bottom substrate and rippled sand with shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	None	Hermit crab (2)	Rippled sand with pebble/granules and shell fragments in trough.
ASOW0549-22-OCS-SP-471	B	28	Sand with shell and gravel	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	None	Hermit crab (5)	Rippled sand with pebbles/granule and bivalve shell fragments.
ASOW0549-22-OCS-SP-471	D	28	Hard bottom substrate	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	Soft Sediment Fauna	Sessile Gastropods	Sand Dollar Bed	Crepidula (10), Sand dollar (1), Hermit crab (1)	Rippled coarse sand with pebble/granules and bivalve shell fragments. Three crepidula attached to larger shell.
ASOW0549-22-OCS-SPC-474	A	28	Sand with some shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (55), Nassariid snail (1)	Fine to medium sand, sand dollar bed.
ASOW0549-22-OCS-SPC-474	B	28	Rippled sand with shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (~85), Nassariid snail (7), Hermit crab (2)	Partially rippled medium sand, shell hash. Many sand dollars. Possible sand clasts.
ASOW0549-22-OCS-SPC-474	C	28	Rippled sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (~100), Nassariid snail (5), Hermit crab (1), Astarte clam (1)	Rippled sand with sand dollars and shell hash. Ripples are subtle, unable to discern wavelength. Possible tube and sand clasts.
ASOW0549-22-OCS-SPC-475	A	28	Rippled sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	Inferred Fauna	Sand Dollar Bed	Tracks and Trails	Sand dollar (~60), Hermit crab (1), Nassariid snail (1)	Rippled medium to coarse sand with aggregated shell hash. Ripple wavelength is indeterminate, few tracks.
ASOW0549-22-OCS-SPC-475	B	28	Sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (~30), Nassariid snail (3), Hermit crab (1), Astarte clam (1), Skate egg case (1)	Partially rippled sand with shell hash, sand dollars and tracks. Ripples are indeterminate. Possible sand clasts.
ASOW0549-22-OCS-SPC-475	C	28	Sand with shell hash and deposited silt	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Sand dollar (~50), Diopatra (3), Skate egg case (1), Hermit crab (1)	Medium sand, trace of overlying silt and shell hash with sand dollars.
ASOW0549-22-OCS-SPGC-476	B	28	Rippled sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (11), Snail (3)	Rippled coarse sand with scattered shell debris. Ripples are variable, unable to discern wave length. Few possible sand clasts.
ASOW0549-22-OCS-SPGC-476	C	28	Rippled sand with shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	Inferred Fauna	Sand Dollar Bed	Tracks and Trails	Sand dollar (~20), Nassariid snail (2)	Rippled coarse sand with shell debris and hash. Sand dollars and tracks. Numerous possible sand clasts.
ASOW0549-22-OCS-SPGC-476	D	28	Rippled sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (18), Nassariid snail (2), Anemone (1), Astarte clam (1)	Coarse sand with shell hash and mostly living sand dollars. Few distinct tracks.
ASOW0549-22-OCS-SPC-477	A	28	Sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (~70), Nassariid snail (2), Diopatra (1)	Medium sand, trace of shell hash and deposited silt. Few sand clasts and many sand dollars.
ASOW0549-22-OCS-SPC-477	B	28	Rippled medium sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (~70), Nassariid snail (3), Diopatra (1)	Medium sand with shell hash and sand clasts, many sand dollars. Some detrital aggregates, few tracks.
ASOW0549-22-OCS-SPC-477	C	28	Partially rippled sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (~50), Nassariid snail (1), Diopatra (1)	Rippled medium sand with trace of deposited silt and shell hash. Many sand clasts, moderate amount of sand dollars, few tracks.

Table 3.1-2. CMECS Substrate and Biotic Classifications for each SPI–PV Image Pair (Lease Area OCS-A 0549)

				CMECS Substrate Classifications				CMECS Biotic Classifications					
Station ID	Replicate	Water Depth (m)	Habitat Type	Substrate Class	Substrate Subclass	Substrate Group	Substrate Subgroup	Biotic Subclass	Co-occurring Biotic Subclass	Biotic Group	Co-occurring Biotic Group	Epifauna, Infauna & Fish Types and Counts	Comments
ASOW0549-22-OCS-SPC-478	A	29	Rippled sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand dollar (6), Hermit crab (1), Astarte clam (1)	Partially rippled coarse to medium sand with diverse shell hash and sand clasts, sand dollars.
ASOW0549-22-OCS-SPC-478	C	29	Rippled sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	Inferred Fauna	Sand Dollar Bed	Tracks and Trails	Sand dollar (10), Hermit crab (1), Snail (1)	Rippled coarse sand with shell hash and trace of deposited silt, many tracks.
ASOW0549-22-OCS-SPC-478	D	29	Sand with shell fragments	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (~70), Nassariid snail (3)	Medium to coarse sand, aggregated silt and shell hash. Few sand clasts, many sand dollars.

Notes:
CMECS = Coastal and Marine Ecological Classification Standard
Ind = indeterminate
N = no
NA = not applicable
PV = plan view
SPI = sediment profile imaging
Y = yes

Table 3.1-3. CMECS Biotic Groups and Co-Occurring Groups Assigned to the Lease Area OCS-A 0549 Images

Biotic Groups		Co-Occurring Biotic Groups		Total Replicates (Group and Co-Occurring Group Combined)	Percent of Total Designations
Group	No. of Replicates	Group	No. of Replicates		
Sand Dollar Bed	35	Sand Dollar Bed	9	44	25%
Mobile Crustaceans on Hard or Mixed Substrates	27	Mobile Crustaceans on Hard or Mixed Substrates	10	37	21%
Larger Tube-Building Fauna	11	Larger Tube-Building Fauna	16	27	16%
Mobile Crustaceans on Soft Sediments	9	Mobile Crustaceans on Soft Sediments	8	17	10%
Attached Mussels[a]	3			3	2%
Clam Bed	1	Clam Bed	3	4	2%
Sessile Gastropods[a]	1			1	1%
		Attached Hydroids[b]	1	1	1%
		Burrowing Anemones[b]	2	2	1%
		Mobile Mollusks on Hard or Mixed Substrates[b]	2	2	1%
		Mobile Mollusks on Soft Sediments[b]	20	20	11%
		None[b]	5	5	3%
		Tracks and Trails[b]	11	11	6%

Notes:
[a] Not assigned as a Co-Occurring Biotic Group
[b] Not assigned as a Biotic Group

Table 3.2-1. Key Physical/Geochemical Parameters Summarized by Station (NECCT and NECCNJ)

Station ID	Station Average Penetration (cm)	Station Average Roughness (cm)	Station Average aRPD (cm)	Coarsest Grain Size Major Mode	Station Grain Size Descriptor Code	Ripple Presence and Size
ASOW-22-NECCT-SP-346	7.63	1.07	2.30	-2 to -3	Gr	Ri
ASOW-22-NECCT-SPG-347	7.60	1.27	Ind	-1 to -2	Gr	Ri
ASOW-22-NECCT-SP-349	5.97	3.57	Ind	-1 to -2	Gr	Ri
ASOW-22-NECCT-SP-351	3.80	1.93	Ind	2 to 1	mS	Rm
ASOW-22-NECCT-SPG-353	5.43	1.37	Ind	1 to 0	cS	Ri
ASOW-22-NECCT-SP-354	2.47	1.80	Ind	0 to -1	vcS	Ri
ASOW-22-NECCT-SP-356	5.33	1.40	Ind	1 to 0	cS	
ASOW-22-NECCNJ-SPG-357	6.90	1.63	Ind	1 to 0	cS	Ri
ASOW-22-NECCNJ-SP-358	4.73	0.53	Ind	2 to 1	mS	Ri
ASOW-22-NECCNJ-SP-359	4.60	1.13	Ind	1 to 0	cS	Ri
ASOW-22-NECCNJ-SPC-362	4.37	1.33	Ind	-1 to -2	Gr	Ri
ASOW-22-NECCNJ-SPC-363	3.80	0.97	1.70	1 to 0	cS	Rm
ASOW-22-NECCNJ-SPC-365	3.10	1.00	Ind	1 to 0	cS	Ri
ASOW-22-NECCNJ-SPGC-367	4.20	1.33	Ind	1 to 0	cS	Ri
ASOW-22-NECCNJ-SPC-368	3.30	0.67	Ind	-2 to -3	Gr	Ri
ASOW-22-NECCNJ-SP-364	2.87	1.20	Ind	2 to 1	mS	Rs
ASOW-22-NECCNJ-SP-366	0.30	0.20	Ind	2 to 1	mS	Ri
ASOW-22-NECCT-SP-370	5.40	0.80	Ind	1 to 0	cS	
ASOW-22-NECCNJ-SPG-371	3.67	2.83	Ind	0 to -1	vcS	Rx
ASOW-22-NECCT-SPG-372	5.77	2.20	Ind	0 to -1	vcS	Rx
ASOW-22-NECCT-SP-374	5.00	2.63	Ind	1 to 0	cS	
ASOW-22-NECCT-SP-376	5.90	1.80	Ind	0 to -1	vcS	
ASOW-22-NECCT-SPG-378	3.33	1.03	Ind	2 to 1	mS	
ASOW-22-NECCT-SP-379	4.47	1.30	Ind	1 to 0	cS	
ASOW-22-NECCT-SP-381	5.97	0.70	Ind	-1 to -2	Gr	
ASOW-22-NECCT-SP-384	4.27	1.77	Ind	-1 to -2	Gr	
ASOW-22-NECCT-SPG-385	6.43	1.53	Ind	1 to 0	cS	Ri
ASOW-22-NECCT-SP-386	4.47	0.77	Ind	2 to 1	mS	Ri
ASOW-22-NECCT-SP-388	4.70	1.30	Ind	3 to 2	fS	
ASOW-22-NECCT-SPG-391	7.60	1.53	Ind	1 to 0	cS	Ri
ASOW-22-NECCT-SP-395	6.27	1.67	Ind	2 to 1	mS	Ri
ASOW-22-NECCT-SP-396	4.73	1.00	Ind	0 to -1	vcS	Ri
ASOW-22-NECCT-SPG-398	5.63	1.37	Ind	2 to 1	mS	Ri
ASOW-22-NECCT-SP-405	5.40	1.43	Ind	1 to 0	cS	Rm
ASOW-22-NECCT-SP-407	6.33	1.23	Ind	2 to 1	mS	Rm
ASOW-22-NECCT-SPG-409	5.60	1.00	Ind	2 to 1	mS	
ASOW-22-NECCT-SP-410	7.17	3.17	Ind	0 to -1	vcS	Rx
ASOW-22-NECCT-SP-413	7.17	1.10	Ind	0 to -1	vcS	Ri
ASOW-22-NECCT-SP-416	6.40	0.73	Ind	1 to 0	cS	

Table 3.2-1. Key Physical/Geochemical Parameters Summarized by Station (NECCT and NECCNJ)

Station ID	Station Average Penetration (cm)	Station Average Roughness (cm)	Station Average aRPD (cm)	Coarsest Grain Size Major Mode	Station Grain Size Descriptor Code	Ripple Presence and Size
ASOW-22-NECCT-SPG-417	5.07	1.23	Ind	1 to 0	cS	Ri
ASOW-22-NECCT-SP-426	6.20	1.53	Ind	1 to 0	cS	Ri
ASOW-22-NECCT-SP-432	5.20	1.27	Ind	1 to 0	cS	Ri
ASOW-22-NECCT-SPG-435	4.77	0.87	Ind	1 to 0	cS	Ri
ASOW-22-NECCT-SP-441	5.67	1.37	Ind	1 to 0	cS	Ri
ASOW-22-NECCT-SP-451	6.43	0.73	Ind	1 to 0	cS	Ri
ASOW-22-NECCT-SP-458	5.97	2.13	Ind	1 to 0	cS	Ri
ASOW-22-NECCT-SPG-461	5.37	2.40	Ind	1 to 0	cS	Ri
ASOW-22-NECCT-SP-543	8.00	1.80	4.30	2 to 1	mS	Rm
ASOW-22-NECCT-SP-544	7.23	1.83	Ind	-1 to -2	Gr	Ri
ASOW-22-NECCT-SP-545	4.27	1.50	Ind	-2 to -3	Gr	Rm
ASOW-22-NECCT-SP-546	3.10	1.30	Ind	2 to 1	mS	Rm
ASOW-22-NECCT-SP-547	7.83	1.50	1.47	2 to 1	mS	Rm
ASOW-22-NECCT-SP-548	5.20	0.53	Ind	-1 to -2	Gr	
ASOW-22-NECCT-SP-550	3.80	1.70	Ind	2 to 1	mS	Ri
ASOW-22-NECCT-SP-551	4.63	0.90	1.43	3 to 2	fS	RI
ASOW-22-NECCT-SP-553	4.93	1.70	Ind	0 to -1	vcS	Ri
ASOW-22-NECCT-SP-555	4.90	2.17	1.70	2 to 1	mS	
ASOW-22-NECCT-SP-560	6.13	1.00	1.20	1 to 0	cS	Ri
ASOW-22-NECCT-SP-562	4.57	0.97	Ind	2 to 1	mS	
ASOW-22-NECCT-SP-568	3.43	0.90	Ind	2 to 1	mS	
ASOW-22-NECCT-SPG-569	4.03	0.83	Ind	1 to 0	cS	Ri
ASOW-22-NECCT-SP-572	3.97	1.37	Ind	1 to 0	cS	
ASOW-22-NECCT-SP-573	6.60	1.97	Ind	1 to 0	cS	Ri
ASOW-22-NECCT-SP-574	6.93	0.60	2.33	2 to 1	mS	Ri
ASOW-22-NECCT-SP-575	4.43	1.17	Ind	1 to 0	cS	Ri
ASOW-22-NECCT-SP-576	6.17	1.50	Ind	1 to 0	cS	Ri
ASOW-22-NECCT-SP-577	6.47	1.20	Ind	1 to 0	cS	Ri
ASOW-22-NECCT-SP-578	5.07	0.80	Ind	1 to 0	cS	Ri
ASOW-22-NECCT-SP-579	7.10	0.97	Ind	1 to 0	cS	Ri
ASOW-22-NECCT-SP-580	6.30	1.17	Ind	1 to 0	cS	Ri
ASOW-22-NECCT-SP-581	5.40	0.57	Ind	1 to 0	cS	Ri
ASOW-22-NECCT-SP-582	5.07	1.00	1.30	2 to 1	mS	
ASOW-22-NECCT-SP-583	4.43	0.90	Ind	1 to 0	cS	
ASOW-22-NECCT-SP-584	4.87	1.03	Ind	1 to 0	cS	
ASOW-22-NECCT-SP-586	5.03	1.30	Ind	-2 to -3	Gr	
ASOW-22-NECCT-SP-588	5.30	1.93	Ind	-2 to -3	Gr	
ASOW-22-NECCT-SP-592	4.97	0.67	1.17	3 to 2	fS	Ri
ASOW-22-NECCT-SP-595	4.47	0.90	1.47	3 to 2	fS	Rm

Table 3.2-1. Key Physical/Geochemical Parameters Summarized by Station (NECCT and NECCNJ)

Station ID	Station Average Penetration (cm)	Station Average Roughness (cm)	Station Average aRPD (cm)	Coarsest Grain Size Major Mode	Station Grain Size Descriptor Code	Ripple Presence and Size
ASOW-22-NECCT-SP-597	4.67	1.43	1.40	3 to 2	fS	Ri
ASOW-22-NECCT-SP-598	4.13	1.27	1.13	2 to 1	mS	
ASOW-22-NECCT-SP-599	8.93	1.93	0.67	>4	St	
ASOW-22-NECCT-SP-600	4.70	1.30	1.10	1 to 0	cS	Ri
ASOW-22-NECCT-SP-601	3.40	1.40	1.17	2 to 1	mS	Rm
ASOW-22-NECCT-SP-602	6.37	1.73	1.65	2 to 1	mS	Ri
ASOW-22-NECCT-SP-603	6.43	1.17	1.10	-2 to -3	Gr	Rs
ASOW-22-NECCT-SP-604	8.80	0.87	1.80	2 to 1	mS	
ASOW-22-NECCT-SP-605	16.70	1.07	1.10	2 to 1	mS	Rs
ASOW-22-NECCT-SP-606	5.50	2.13	1.70	2 to 1	mS	Rm
ASOW-22-NECCT-SP-607	5.90	2.90	Ind	-2 to -3	Gr	Rx
ASOW-22-NECCT-SP-608	6.83	1.77	1.23	2 to 1	mS	Rm
ASOW-22-NECCT-SP-609	3.87	0.60	1.00	3 to 2	fS	Rm
ASOW-22-NECCT-SP-610	4.73	2.73	1.10	2 to 1	mS	Rm
ASOW-22-NECCT-SP-611	4.23	2.47	1.15	3 to 2	fS	Rl
ASOW-22-NECCT-SPG-612	2.97	2.80	1.00	3 to 2	fS	Rl
ASOW-22-NECCT-SP-613	3.70	3.00	1.30	1 to 0	cS	Ri
ASOW-22-NECCT-SP-614	5.10	6.00	Ind	-1 to -2	Gr	Rl
ASOW-22-NECCT-SP-615	0.00	0.00	Ind	Ind	Ind	
ASOW-22-NECCT-SPG-616	0.30	0.70	Ind	2 to 1	mS	Rm
ASOW-22-NECCT-SP-617	6.50	4.80	Ind	0 to -1	vcS	Rx
ASOW-22-NECCT-SP-618	3.00	0.70	Ind	-1 to -2	Gr	
ASOW-22-NECCT-SP-619	4.60	5.60	Ind	0 to -1	vcS	Rm
ASOW-22-NECCT-SP-620	3.60	0.50	Ind	-1 to -2	Gr	
ASOW-22-NECCT-SP-621	2.10	4.60	Ind	0 to -1	vcS	
ASOW-22-NECCT-SP-622	4.90	2.20	1.40	3 to 2	fS	Ri
ASOW-22-NECCT-SP-623	4.80	1.80	Ind	1 to 0	cS	Ri
ASOW-22-NECCT-SP-624	5.40	1.30	Ind	1 to 0	cS	
ASOW-22-NECCT-SP-625	4.80	2.10	Ind	1 to 0	cS	Ri
ASOW-22-NECCT-SP-626	6.50	1.50	Ind	1 to 0	cS	
ASOW-22-NECCT-SP-627	4.00	0.90	Ind	-1 to -2	Gr	Ri
ASOW-22-NECCT-SP-628	4.20	0.70	Ind	3 to 2	fS	Rm
ASOW-22-NECCT-SP-629	4.10	1.00	Ind	3 to 2	fS	Rm
ASOW-22-NECCT-SP-630	5.40	1.30	1.00	3 to 2	fS	Rs
ASOW-22-NECCT-SP-631	4.70	0.50	Ind	2 to 1	mS	Rs
ASOW-22-NECCT-SP-632	4.00	1.00	1.20	2 to 1	mS	Rm
ASOW-22-NECCT-SP-633	5.20	1.30	Ind	1 to 0	cS	
ASOW-22-NECCT-SP-634	4.80	1.50	Ind	1 to 0	cS	
ASOW-22-NECCT-SP-635	4.70	1.40	Ind	1 to 0	cS	

Table 3.2-1. Key Physical/Geochemical Parameters Summarized by Station (NECCT and NECCNJ)

Station ID	Station Average Penetration (cm)	Station Average Roughness (cm)	Station Average aRPD (cm)	Coarsest Grain Size Major Mode	Station Grain Size Descriptor Code	Ripple Presence and Size
ASOW-22-NECCT-SP-636	4.40	1.10	Ind	0 to -1	vcS	
ASOW-22-NECCT-SP-637	5.60	1.40	Ind	1 to 0	cS	Rm
ASOW-22-NECCT-SP-638	5.30	1.20	Ind	1 to 0	cS	Rs
ASOW-22-NECCT-SP-639	4.60	1.70	Ind	-3 to -4	Gr	
ASOW-22-NECCT-SP-640	6.70	1.20	Ind	1 to 0	cS	
ASOW-22-NECCT-SP-641	4.90	2.30	Ind	1 to 0	cS	
ASOW-22-NECCT-SP-642	5.50	2.30	Ind	1 to 0	cS	
ASOW-22-NECCNJ-SP-643	3.80	0.80	Ind	2 to 1	mS	
ASOW-22-NECCNJ-SP-644	4.70	1.00	Ind	1 to 0	cS	
ASOW-22-NECCNJ-SP-645	5.90	1.30	Ind	-2 to -3	Gr	
ASOW-22-NECCNJ-SP-646	7.20	1.40	Ind	2 to 1	mS	Rm
ASOW-22-NECCNJ-SP-647	6.30	0.30	Ind	2 to 1	mS	
ASOW-22-NECCNJ-SP-648	2.60	1.20	Ind	2 to 1	mS	Ri
ASOW-22-NECCNJ-SP-649	3.30	1.60	Ind	2 to 1	mS	Ri
ASOW-22-NECCNJ-SP-650	4.90	1.00	Ind	2 to 1	mS	Ri
ASOW-22-NECCNJ-SP-651	3.80	0.90	Ind	2 to 1	mS	Rm
ASOW-22-NECCNJ-SP-652	4.60	1.30	Ind	2 to 1	mS	Ri

Table 3.2-1. Key Physical/Geochemical Parameters Summarized by Station (NECCT and NECCNJ)

Station ID	Station Average Penetration (cm)	Station Average Roughness (cm)	Station Average aRPD (cm)	Coarsest Grain Size Major Mode	Station Grain Size Descriptor Code	Ripple Presence and Size

	Station Average Penetration (cm)	Station Average Roughness (cm)	Station Average aRPD (cm)
N (measured)	134	134	30
Min	0.00	0.00	0.67
Mean	5.12	1.48	1.45
Median	4.92	1.30	1.27
Max	16.70	6.00	4.30

Ripples Presence and Wavelength	
Rs	**6**
Rm	**22**
Rl	**4**
Rx	**5**
Ri	**55**
N =	**92**

aRPD Ind	**104**

Notes:

Bolded Stations = single replicate transect stations

aRPD = apparent redox potential discontinuity

cS = coarse sand

fS = fine sand

Gr = gravel

Ind = indeterminate

mS = medium sand

Ri = size indeterminate

Rl = large (21–30 cm)

Rm = medium (11–20 cm)

Rs = small (0–10 cm)

Rx = extra large (>30 cm)

St = silt or finer

vcS = very coarse sand

Table 3.2-2 CMECS Substrate and Biotic Classifications for each SPI–PV Image Pair (NECCT and NECCNJ)

				CMECS Substrate Classifications				CMECS Biotic Classifications					
Station ID	Replicate	Water Depth (m)	Habitat Type	Substrate Class	Substrate Subclass	Substrate Group	Substrate Subgroup	Biotic Subclass	Co-occurring Biotic Subclass	Biotic Group	Co-occurring Biotic Group	Epifauna, Infauna & Fish Types and Counts	Comments
ASOW-22-NECCT-SP-346	B	19	Rippled sand with silt and gravel	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Muddy Sand	Ind	Ind	Ind	Ind	Ind	Rippled sand with overlying silt, gravels and shell debris. Highly turbid, ripples are evident in SPI yet wavelength is indeterminate.
ASOW-22-NECCT-SP-346	C	19	Hard bottom substrate over sand	Unconsolidated Mineral	Coarse Unconsolidated	Gravels	Pebble/Granule	Ind	Ind	Ind	Ind	Ind	Gravels ranging in size over sand, trace of shell. Highly turbid.
ASOW-22-NECCT-SP-346	D	19	Hard bottom substrate and shell over sand	Unconsolidated Mineral	Coarse Unconsolidated	Gravels	Pebble/Granule	Ind	Ind	Ind	Ind	Ind	Pebble/granules and shell, highly turbid.
ASOW-22-NECCT-SPG-347	A	21	Sand with gravel	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Ind	Ind	Ind	Ind	Ind	Pebble/granules over sand, gravels aggregated right side of frame. Fairly turbid.
ASOW-22-NECCT-SPG-347	E	21	Hard bottom substrate with shell over sand	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Soft Sediment Fauna	NA	Burrowing Anemones	None	Cerianthid anemone (2)	Pebble/granules and shell atop partially rippled sand. Few cerianthid anemones appear buried. Image obscured by water column turbidity.
ASOW-22-NECCT-SPG-347	J	21	Ind	Unconsolidated Mineral	Coarse Unconsolidated	Gravels	Pebble/Granule	Ind	Ind	Ind	Ind	Ind	Highly turbid image, substrate classifications informed by paired SPI image.
ASOW-22-NECCT-SP-349	B	21	Rippled sand and gravel	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	None	NA	None	None	None	Rippled sand with granules, trace of shell. Highly turbid.
ASOW-22-NECCT-SP-349	C	21	Rippled sand with gravel and shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Ind	Ind	Ind	Ind	Ind	Rippled coarse sand with gravel and clam shell.
ASOW-22-NECCT-SP-349	E	21	Rippled sand with gravel	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Ind	Ind	Ind	Ind	Ind	Coarse sand with pebble/granules, shell hash. Possibly rippled, highly turbid.
ASOW-22-NECCT-SP-351	B	22	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Burrowing Anemones	None	Cerianthid anemone (1)	Rippled fine to medium sand, few granules and shell fragments.
ASOW-22-NECCT-SP-351	C	22	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Burrowing Anemones	None	Cerianthid anemone (2)	Variably rippled sand, trace of shell hash.
ASOW-22-NECCT-SP-351	D	22	Rippled Sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Burrowing Anemones	None	Anemone (1)	Rippled sand, trace of shell and aggregated material (sand clasts).
ASOW-22-NECCT-SPG-353	A	23	Sand with shell and gravel	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Sand Dollar Bed	Diopatra (10), Sand dollar (7)	Subtly rippled coarse sand with some granules and shell hash.
ASOW-22-NECCT-SPG-353	B	23	Rippled sand with shell and gravel	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand dollar (27), Hermit crab (2)	Subtly rippled sand with shell hash and few granules. Many sand dollars on right, left side anthropogenically disturbed?
ASOW-22-NECCT-SPG-353	C	23	Rippled Sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	Inferred Fauna	Sand Dollar Bed	Tracks and Trails	Sand dollar (7), Moon snail (1)	Partially rippled coarse sand with overlying gravels and shell. Large moon snail (co-occurring element), tracks.
ASOW-22-NECCT-SP-354	A	24	Sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Inferred Fauna	NA	Tracks and Trails	None	None	Rippled coarse sand, gravel and diverse shell overlying.
ASOW-22-NECCT-SP-354	C	24	Sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Attached Fauna	Soft Sediment Fauna	Attached Bryozoans	Clam Bed	Bryozoans, Astarte (1), Nassariid snail (1)	Coarse sand with range of gravels and diverse shell debris. Cobble with attached fauna.
ASOW-22-NECCT-SP-354	D	24	Sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Inferred Fauna	NA	Tracks and Trails	None	Astarte clam (1)	Coarse sand, possibly rippled, pebble/granules and shell hash.
ASOW-22-NECCT-SP-356	A	24	Sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand dollar (100+), Hermit crab (1), Diopatra (1)	Coarse sand with shell hash and many sand dollars.
ASOW-22-NECCT-SP-356	B	24	Sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	None	Sand dollar (75+), Skate egg case (2), Diopatra (1)	Coarse sand, shell hash and sand dollars. Few tracks.
ASOW-22-NECCT-SP-356	C	24	Sand with trace of shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Sand dollar (~75), Diopatra (3)	Coarse sand, trace of shell and many sand dollars.
ASOW-22-NECCNJ-SPG-357	C	22	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Sand dollar (100+), Diopatra (4)	Rippled sand with silt and shell hash. Many sand dollars.
ASOW-22-NECCNJ-SPG-357	D	22	Rippled sand with silt	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand dollar (100+), Hermit crab (1)	Rippled dark sands with silt and trace of shell hash. Many sand dollars.
ASOW-22-NECCNJ-SPG-357	E	22	Rippled sand with silt and shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Sand dollar (100+), Diopatra (1)	Dark particle sands with large patch of silt and some shell debris. Many sand dollars.
ASOW-22-NECCNJ-SP-358	A	23	Sand with shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand dollar (~100), Hermit crab (5), Nassariid snail (1)	Sand with some shell hash. Dense sand dollar coverage and mobile epifauna, few tracks.
ASOW-22-NECCNJ-SP-358	B	23	Sand sheet	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (100+), Nassariid snail (1)	Sand with trace of shell and an abundance of sand dollars. Divot is a possible relic burrow.
ASOW-22-NECCNJ-SP-358	C	23	Sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Deep-Burrowing Fauna	Sand dollar (~50), Nassariid snail (1), Skate egg case (1)	Rippled sand, trace of shell hash. Many sand dollars, large burrow. Skate egg case lower right corner.
ASOW-22-NECCNJ-SP-359	B	20	Sand with silt and shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (100+), Nassariid snail (1)	Rippled coarse sand, veneer of silt. Ripples are shallow in height, shell hash in ripple trough. Many sand dollars.
ASOW-22-NECCNJ-SP-359	C	20	Rippled sand with silt and shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (100+), Nassariid snail (2), Moon snail egg case (2), Hermit crab (1), Astarte clam (1)	Rippled sand. Silt and shell hash in ripple troughs. Ripples are wide and uneven, wave length is not measurable. Many sand dollars, two moon snail egg cases.
ASOW-22-NECCNJ-SP-359	E	20	Rippled sand with silt and shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand dollar (75+), Hermit crab (4), Nassariid snail (1)	Rippled dark sands, wide and uneven ripple crests. Silt and shell hash aggregated in troughs at edges of frame. Trace of granules, many sand dollars.
ASOW-22-NECCNJ-SPC-362	B	22	Rippled sand with gravel	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Attached Fauna	NA	Sessile Gastropods	Mobile Crustaceans on Hard or Mixed Substrates	Crepidula (11), Hermit crab (1), Skate (1)	Partially rippled sand with gravels and trace of shell. Skate captured in frame.
ASOW-22-NECCNJ-SPC-362	C	22	Rippled sand with gravels	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	Inferred Fauna	Mobile Mollusks on Soft Sediments	Tracks and Trails	Nassariid snail (1), Sand dollar (1)	Rippled sand with gravel and trace of shell hash.
ASOW-22-NECCNJ-SPC-362	D	22	Rippled sand with gravel	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Burrowing Anemones	Hermit crab (6), Anemone (1)	Rippled sand with low crest heights and moderate amount of gravel. Trace of shell hash.

Table 3.2-2 CMECS Substrate and Biotic Classifications for each SPI–PV Image Pair (NECCT and NECCNJ)

				CMECS Substrate Classifications				CMECS Biotic Classifications						
Station ID	Replicate	Water Depth (m)	Habitat Type	Substrate Class	Substrate Subclass	Substrate Group	Substrate Subgroup	Biotic Subclass	Co-occurring Biotic Subclass	Biotic Group	Co-occurring Biotic Group	Epifauna, Infauna & Fish Types and Counts	Comments
ASOW-22-NECCNJ-SPC-363	B	23	Sand with trace silt and trace of gravel and shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	Inferred Fauna	Burrowing Anemones	Fecal Mounds	Anemone (3), Crepidula (8), Snail (5)	Sand with trace of gravels and crepidula shell debris. Many fecal mounds and some possible sand tubes/tunicate.
ASOW-22-NECCNJ-SPC-363	C	23	Sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	Attached Fauna	Burrowing Anemones	Mobile Crustaceans on Hard or Mixed Substrates	Anemone (3), Hermit crab (3)	Sand with scattered gravels and shell hash. Many tracks.
ASOW-22-NECCNJ-SPC-363	D	23	Rippled sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Attached Fauna	Soft Sediment Fauna	Mobile Mollusks on Hard or Mixed Substrates	Burrowing Anemones	Nassariid snail (~10), Anemone (3)	Rippled sand with gravels and trace of shell hash. Ripples are variable with low crest heights. Moon snail egg case with foraging gastropods. Some fecal casts. Crepidula shells.
ASOW-22-NECCNJ-SP-364	A	12	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	None	Diopatra (~10), Flounder (1)	Well-defined rippled sand, trace of shell hash. Piece of wood debris and some thin tubes.
ASOW-22-NECCNJ-SP-364	B	12	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	None	Diopatra (~30)	Rippled sand, trace of shell hash and gravel. Many diopatra, large burrow.
ASOW-22-NECCNJ-SP-364	C	12	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Burrowing Anemones	Diopatra (4), Anemone (1)	Rippled sand, trace of shell and some deposited detritus. Ripple wavelength decreasing right to left.
ASOW-22-NECCNJ-SPC-365	A	23	Rippled sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Soft Sediment Fauna	Attached Fauna	Burrowing Anemones	Mobile Mollusks on Soft Sediments	Anemone (4), Nassariid snail (3), Hermit crab (1)	Rippled sand with gravels and trace of shell in ripple trough. Tracks on ripple crest.
ASOW-22-NECCNJ-SPC-365	B	23	Rippled sand with gravel	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	Attached Fauna	Burrowing Anemones	Sessile Gastropods	Anemone (5), Crepidula (2)	Subtly rippled sand with moderate gravel coverage and trace of shell hash. Some buried anemones, calcareous growth on pebbles, possible burrow.
ASOW-22-NECCNJ-SPC-365	D	23	Sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	Soft Sediment Fauna	Sessile Gastropods	Burrowing Anemones	Crepidula (1), Anemone (2),	Gravels and trace of shell over coarse sand, few tubes and few fecal casts.
ASOW-22-NECCNJ-SP-366	A	18	Rippled sand with silt and shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Burrowing Anemones	Mobile Mollusks on Soft Sediments	Nassariid snail (2), Anemone (1), Hermit crab (1)	Rippled sand with silt and shell debris and hash. Many small tracks, few burrows.
ASOW-22-NECCNJ-SP-366	B	18	Rippled sand with silt and shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Ind	Soft Sediment Fauna	Inferred Fauna	Larger Tube-Building Fauna	Tracks and Trails	Diopatra (1)	Rippled sand with overlying silt and trace of shell hash.
ASOW-22-NECCNJ-SP-366	D	18	Rippled sand with silt and shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Mobile Mollusks on Soft Sediments	Burrowing Anemones	Snail (3) Anemone (1), Diopatra (1), Bivalve Siphon (1)	Subtly rippled sand with overlying silt. Shell hash and spisula clam shell debris. Few burrows.
ASOW-22-NECCNJ-SPGC-367	A	22	Rippled sand with trace of gravel and shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Burrowing Anemones	Mobile Crustaceans on Soft Sediments	Anemone (6), Hermit crab (2), Skate egg case (1), Barnacles	Partially rippled sand with overlying gravels and shell. Some burrowing anemones, barnacles attached to largest pebble.
ASOW-22-NECCNJ-SPGC-367	B	22	Rippled sand with shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	Inferred Fauna	Burrowing Anemones	Tracks and Trails	Anemone (4), Sand dollar (1)	Rippled sand with trace of shell hash and buried spisula clam shell. Few pebble/granules, many tracks.
ASOW-22-NECCNJ-SPGC-367	C	22	Sand with gravel	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Burrowing Anemones	Mobile Crustaceans on Soft Sediments	Anemone (7), Hermit crab (2), Snail (1)	Subtly rippled sand with trace of mixed gravels and some shell hash. Buried anemones, one large gastropod.
ASOW-22-NECCNJ-SPC-368	B	23	Sand with mobile gravels	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Mobile Mollusks on Soft Sediments	Nassariid snail (~4), Anemone (1)	Coarse sands with mobile fine pebbles and granules, trace of shell hash. Few possible sand tubes/tunicate. Some tubes, possibly shell-less diopatra.
ASOW-22-NECCNJ-SPC-368	C	23	Rippled sand with mobile gravels	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	Mobile Mollusks on Soft Sediments	Hermit crab (1), Nassariid snail (1), Anemone (1)	Rippled sand with gravels and shell hash, mostly clam shell debris. Ripples apparent in sand portion of frame.
ASOW-22-NECCNJ-SPC-368	E	23	Hard bottom substrate with sand and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	Soft Sediment Fauna	Mobile Mollusks on Hard or Mixed Substrates	Burrowing Anemones	Nassariid snail (2), Anemone (2)	Gravel and shell hash over sand.
ASOW-22-NECCT-SP-370	A	24	Sand with trace of gravel and shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (100+), Nassariid snail (1), Moon snail (1)	Coarse to medium sand with trace of granules and shell hash. Many sand dollars and evidence of tracks.
ASOW-22-NECCT-SP-370	B	24	Sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (~50), Nassariid snail (2), Astarte (1)	Coarse sand, trace of shell. Many sand dollars, moon snail is a co-occurring element.
ASOW-22-NECCT-SP-370	C	24	Sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (100+), Nassariid snail (2), Sea star (1), Hermit crab (1)	Coarse sand with an abundance of sand dollars and trace of shell hash.
ASOW-22-NECCNJ-SPG-371	F	10	Rippled sand with shell hash and gravel	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	Mobile Mollusks on Soft Sediments	Hermit crab (2), Nassariid snail (1)	Rippled sand, moderate shell hash in troughs and some gravel. Large spisula clam shell.
ASOW-22-NECCNJ-SPG-371	H	10	Rippled sand with trace of shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	Inferred Fauna	Larger Tube-Building Fauna	Tracks and Trails	Diopatra (1)	Rippled sand with trace of shell and deposited silt and detritus. Diopatra and other co-existing polychaete tubes.
ASOW-22-NECCNJ-SPG-371	J	10	Rippled sand with silt and trace of shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Mobile Crustaceans on Soft Sediments	Diopatra (~8), Hermit crab (1)	Rippled sand with trace of shell hash. Suspended detritus and some deposited silt.
ASOW-22-NECCT-SPG-372	A	24	Sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (100+), Nassariid snail (1), Moon snail (1), Hermit crab (1), Astarte clam (1)	Sand with shell hash, high density of sand dollars. Possible relic ripples.
ASOW-22-NECCT-SPG-372	B	24	Sand with trace of gravel and shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Clam Bed	Sand dollar (100+), Astarte clam (3), Moon snail (2), Anemone (1)	Coarse sand with trace of shell hash and granules, many sand dollars.
ASOW-22-NECCT-SPG-372	C	24	Sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	None	Sand dollar (100+), Astarte clam (2), Anemone (1), Diopatra (1), Cerianthid anemone (1)	Rippled coarse sand with shell hash. Only one ripple crest in image, wave length is an approximate.
ASOW-22-NECCT-SP-374	A	23	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand dollar (~75), Hermit crab (2)	Medium sand with trace of shell hash. Many sand dollars and some tracks. Few sediment mounds.
ASOW-22-NECCT-SP-374	D	23	Sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand dollar (~20), Hermit crab (~15), Atlantic puffer (1)	Coarse sand with diverse shell hash and debris. Moderate amount of sand dollars, few deceased and foraging crustaceans.
ASOW-22-NECCT-SP-374	E	23	Sand with trace of shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (~50), Nassariid snail (4), Diopatra (1)	Sand with shell hash. Moderate amount of sand dollars, tracks.
ASOW-22-NECCT-SP-376	A	26	Sand with gravel and shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (100+), Nassariid snail (4), Astarte clam (2)	Coarse sand, trace of pebble/granules and shell hash. Many sand dollars.
ASOW-22-NECCT-SP-376	B	26	Sand with gravel and shell hash	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Clam Bed	Sand dollar (~70), Astarte clam (2)	Coarse sand with pebbles and granules and diverse shell hash overlying. Many sand dollars.
ASOW-22-NECCT-SP-376	C	26	Sand with gravel and shell hash	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Mollusks on Hard or Mixed Substrates	Sand dollar (~40), Nassariid snail (5), Astarte clam (1)	Sand with pebbles and fine granules aggregated top of frame. Sand dollars and tracks evident.

Table 3.2-2 CMECS Substrate and Biotic Classifications for each SPI–PV Image Pair (NECCT and NECCNJ)

				CMECS Substrate Classifications				CMECS Biotic Classifications					
Station ID	Replicate	Water Depth (m)	Habitat Type	Substrate Class	Substrate Subclass	Substrate Group	Substrate Subgroup	Biotic Subclass	Co-occurring Biotic Subclass	Biotic Group	Co-occurring Biotic Group	Epifauna, Infauna & Fish Types and Counts	Comments
ASOW-22-NECCT-SPG-378	A	25	Sand with gravel and shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (18), Nassariid snail (5), Hermit crab (4), Nudibranch (1), Anemone (1)	Sand with pebbles and few granules, shell hash. Tracks are evident.
ASOW-22-NECCT-SPG-378	D	25	Sand with gravel and shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (11), Nassariid snail (2), Astarte clam (1),	Medium to coarse sand with pebble/granules and shell hash.
ASOW-22-NECCT-SPG-378	E	25	Sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Hard or Mixed Substrates	Sand dollar (4), Hermit crab (3), Nassariid snail (1)	Medium to coarse sand with overlying pebbles and shell hash.
ASOW-22-NECCT-SP-379	A	23	Sand and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Hard or Mixed Substrates	Sand dollar (1), Hermit crab (1)	Mixed substrate composed of pebble/granules and coarse sand, shell hash.
ASOW-22-NECCT-SP-379	B	23	Sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Hard or Mixed Substrates	Sand dollar (5), Hermit crab (4)	Coarse sand with pebble/granules and shell debris.
ASOW-22-NECCT-SP-379	E	23	Sand with trace of gravel and shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Tunicate Bed	Mobile Mollusks on Soft Sediments	Sand tubes (50+), Nassariid snail (4), Hermit crab (2), Sand dollar (1), Anemone (1)	Sand with trace of granules and shell debris. Many sand tubes, some snails.
ASOW-22-NECCT-SP-381	A	23	Sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Mollusks on Hard or Mixed Substrates	Sand dollar (16), Nassariid snail (3), Hermit crab (3), Anemone (1), Astarte clam (1)	Pebble/granules and shell hash over very coarse sands. Possible moon snail bottom of frame.
ASOW-22-NECCT-SP-381	C	23	Gravel with sand and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Mollusks on Hard or Mixed Substrates	Sand dollar (4), Nassariid snail (2)	Pebbles and granules with very coarse to medium sands and shell hash.
ASOW-22-NECCT-SP-381	D	23	Gravel with sand and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	NA	Mobile Mollusks on Hard or Mixed Substrates	None	Nassariid snail (6), Hermit crab (1), Moon Snail egg case (1)	Pebbles and granules over very coarse to coarse sands. Moon snail egg case.
ASOW-22-NECCT-SP-384	A	24	Sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Burrowing Anemones	Hermit crab (2), Anemone (2), Nassariid snail (1), Astarte clam (1)	Pebble/granules with very coarse sand and shell debris. Pebbles aggregated right side of frame.
ASOW-22-NECCT-SP-384	B	24	Gravel with sand and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	None	Hermit crab (3)	Pebble/granules and shell hash over very coarse sand.
ASOW-22-NECCT-SP-384	C	24	Gravel with sand and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Hard or Mixed Substrates	Sand dollar (6), Hermit crab (1), Anemone (1),	Pebbles, granules and shell hash over very coarse sands.
ASOW-22-NECCT-SPG-385	B	22	Sand with gravel and shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Clam Bed	Sand dollar (100+), Astarte clam (4), Hermit crab (3), Nassariid snail (2)	Possibly rippled coarse sand, some gravel and shell hash. Large spisula clam shell, many sand dollars, anthropogenically disturbed?
ASOW-22-NECCT-SPG-385	C	22	Rippled sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Hard or Mixed Substrates	Sand dollar (~70), Hermit crab (2), Astarte clam (2), Nassariid snail (2), Anemone (1)	Rippled coarse sand with gravel, shell hash and sand clasts aggregated in partial ripple trough. Many sand dollars and associated tracks, anthropogenically disturbed?
ASOW-22-NECCT-SPG-385	D	22	Sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand dollar (~100), Hermit crab (3), Nassariid snail (2), Astarte clam (1)	Coarse sand with overlying granules and shell hash/rubble. Many sand dollars, tracks, anthropogenically disturbed?
ASOW-22-NECCT-SP-386	A	23	Rippled sand with shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	Inferred Fauna	Sand Dollar Bed	Tracks and Trails	Sand dollar (32), Hermit crab (1), Nassariid snail (1)	Subtly rippled medium sand. Many tracks and a biogenic depression.
ASOW-22-NECCT-SP-386	B	23	Rippled sand with trace of shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (~30), Nassariid snail (4), Hermit crab (1)	Partially rippled sand with most living sand dollars (one deceased). Many tracks and trace of shell hash.
ASOW-22-NECCT-SP-386	D	23	Sand with shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (~40), Nassariid snail (3), Diopatra (1), Anemone (1)	Medium sand trace of shell hash. Many sand dollars and tracks.
ASOW-22-NECCT-SP-388	B	25	Sand with trace of shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (100+), Nassariid snail (11), Hermit crab (2), Diopatra (1)	Fine to medium sand, trace of shell hash. Many sand dollars.
ASOW-22-NECCT-SP-388	C	25	Sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (50+), Nassariid snail (8), Hermit crab (2)	Fine sand, trace of shell hash. Many sand dollars, some tracks.
ASOW-22-NECCT-SP-388	E	25	Sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (~70), Nassariid snail (4)	Fine sand with shell hash. Many sand dollars, distinct tracks.
ASOW-22-NECCT-SPG-391	A	25	Sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Hard or Mixed Substrates	Sand dollar (~90), Hermit crab (2), Nassariid snail (2)	Fine pebbles and granules over medium to coarse sand, trace of shell hash.
ASOW-22-NECCT-SPG-391	B	25	Rippled sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Mollusks on Hard or Mixed Substrates	Sand dollar (23), Nassariid snail (3), Hermit crab (2)	Coarse sand with pebble/granules and shell hash.
ASOW-22-NECCT-SPG-391	C	25	Sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Hard or Mixed Substrates	Sand dollar (10), Nassariid snail (2), Hermit crab (1)	Gravels and shell atop coarse sands, tracks bottom of frame.
ASOW-22-NECCT-SP-395	A	26	Sand with shell and gravel	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	Inferred Fauna	Sand Dollar Bed	Tracks and Trails	Sand dollar (~60), Hermit crab (1)	Medium to coarse sand with overlying shell hash and few granules. Possible trace of macroalgae and some tracks, anthropogenically disturbed?
ASOW-22-NECCT-SP-395	B	26	Rippled sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand dollar (~50), Hermit crab (3)	Subtly rippled medium to coarse sand with shell hash. Detrital aggregates and many sand dollars, few clam shells, anthropogenically disturbed?
ASOW-22-NECCT-SP-395	C	26	Sand with shell hash and few granules	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Sand dollar (~45), Hermit crab (3), Diopatra (2), Nassariid snail (2)	Medium to coarse sand with shell hash and few granules. Possible detrital aggregates and some tracks.

Table 3.2-2 CMECS Substrate and Biotic Classifications for each SPI–PV Image Pair (NECCT and NECCNJ)

				CMECS Substrate Classifications				CMECS Biotic Classifications					
Station ID	Replicate	Water Depth (m)	Habitat Type	Substrate Class	Substrate Subclass	Substrate Group	Substrate Subgroup	Biotic Subclass	Co-occurring Biotic Subclass	Biotic Group	Co-occurring Biotic Group	Epifauna, Infauna & Fish Types and Counts	Comments
ASOW-22-NECCT-SP-396	A	26	Sand with gravels and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Hard or Mixed Substrates	Sand dollar (~50), Hermit crab (3), Nassariid snail (1), Diopatra (1), Astarte clam (1)	Partially rippled very coarse sand with overlying pebble/granules and shell hash, anthropogenically disturbed?
ASOW-22-NECCT-SP-396	B	26	Sand with shell hash and gravels	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand dollar (~80), Hermit crab (3), Diopatra (1)	Subtle rippled coarse sands with overlying pebble/granules and shell hash. Many sand dollars, anthropogenically disturbed?
ASOW-22-NECCT-SP-396	C	26	Sand with gravel, shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand dollar (~75), Hermit crab (3), Nassariid snail (2), Astarte clam (1)	Slightly rippled coarse sand with few pebble/granules and shell hash. Some deposited silt and detritus, anthropogenically disturbed?
ASOW-22-NECCT-SPG-398	A	24	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Sand dollar (~60), Diopatra (9), Nassariid snail (6), Hermit crab (4)	Rippled fine to medium sand with trace of shell hash. Abundance of epifauna and tracks.
ASOW-22-NECCT-SPG-398	C	24	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (~70), Nassariid snail (4), Hermit crab (2)	Rippled medium sand, trace of shell hash and gravel. Many sand dollars and tracks, possible tube.
ASOW-22-NECCT-SPG-398	E	24	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand dollar (+75), Hermit crab (5), Nassariid snail (3), Diopatra (3), Astarte clam (1)	Rippled medium sand with trace of shell hash, gravels. Few sand clasts or possible tunicate, large clam shell bottom right of frame.
ASOW-22-NECCT-SP-405	A	23	Rippled sand with trace of gravel	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (~30), Nassariid snail (5), Hydroids	Rippled sand with trace of gravels and shell hash, distinct tracks. Anthropogenically disturbed?
ASOW-22-NECCT-SP-405	C	23	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (15), Nassariid snail (6), Hermit crab (2), Astarte clam (1), Anemone (1)	Partially rippled sand with trace of shell and few pebble/granules. Worm tubes or possible tunicate, top of frame, anthropogenically disturbed?
ASOW-22-NECCT-SP-405	D	23	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (~30), Nassariid snail (6), Hermit crab (2), Anemone (1)	Partially rippled sand with trace of shell hash and few granules. Many sand tubes/possible tunicate with snails foraging. Distinct tracks and trails. Anthropogenically disturbed?
ASOW-22-NECCT-SP-407	A	25	Sand with trace of gravel	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	Inferred Fauna	Mobile Mollusks on Soft Sediments	Tracks and Trails	Nassariid snail (7)	Medium sand, few pebble/granules and trace of shell hash. Many tracks, detrital or fecal aggregates.
ASOW-22-NECCT-SP-407	B	25	Rippled sand with gravel and shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	Inferred Fauna	Mobile Crustaceans on Soft Sediments	Tracks and Trails	Hermit crab (4)	Rippled medium sand, some pebble/granules and shell hash. Many tracks and depressions.
ASOW-22-NECCT-SP-407	E	25	Sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	Attached Fauna	Larger Tube-Building Fauna	Mobile Mollusks on Hard or Mixed Substrates	Hermit crab (4), Diopatra (3)	Sand with pebble and granules and shell hash. Some tracks. Anthropogenically disturbed?
ASOW-22-NECCT-SPG-409	A	25	Sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	None	Hermit crab (~40), Astarte clam (1)	Medium sand with shell hash. Many sand tubes or possible tunicate. Anthropogenically disturbed?
ASOW-22-NECCT-SPG-409	B	25	Sand with trace of shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	None	Hermit crab (~30), Astarte clam (1)	Medium sand, trace of shell hash and granules. Sand tubes or possible tunicate. Anthropogenically disturbed?
ASOW-22-NECCT-SPG-409	C	25	Sand with shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand dollar (2), Hermit crab (2)	Sand with shell hash, possible tube top of frame. Sand tubes or possible tunicate. Anthropogenically disturbed?
ASOW-22-NECCT-SP-410	B	25	Sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Attached Fauna	Inferred Fauna	Mobile Mollusks on Hard or Mixed Substrates	Tracks and Trails	Nassariid snail (5), Diopatra (1)	Coarse sand with gravels aggregated left side of frame, trace of shell hash. Cluster of sand tubes (possible tunicate). Anthropogenically disturbed?
ASOW-22-NECCT-SP-410	C	25	Sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	None	Hermit crab (2)	Gravels and shell hash over coarse sands. Anthropogenically disturbed?
ASOW-22-NECCT-SP-410	D	25	Gravel with sand and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	NA	Attached Anemones	None	Anemone (1)	Pebble/granules with shell atop coarse sand. One anemone, possible sand tubes/tunicate. Anthropogenically disturbed?
ASOW-22-NECCT-SP-413	B	26	Sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	None	Diopatra (1), Astarte clam (1), Hermit crab (1)	Coarse sand, subtly rippled. Shell and gravel aggregated in center of frame. Anthropogenically disturbed?
ASOW-22-NECCT-SP-413	F	26	Sand with gravel and trace of shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Hard or Mixed Substrates	Sand dollar (~25), Hermit crab (3)	Coarse sand, gravel aggregated top of frame. Possible sand tubes or tunicate. Anthropogenically disturbed?
ASOW-22-NECCT-SP-413	J	26	Sand with gravels and shell hash	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	None	Sand dollar (13), Hermit crab (1)	Sand with gravels top of frame, some shell hash. Anthropogenically disturbed?
ASOW-22-NECCT-SP-416	A	26	Gravel with sand and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	None	Hermit crab (2)	Gravels with sand and diverse shell debris. High density of tubes through middle of frame. Anthropogenically disturbed?
ASOW-22-NECCT-SP-416	B	26	Sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	None	Diopatra (2), Hermit crab (1)	Gravels and shell hash over coarse sand. Small cluster of tubes. Some tracks and diopatra. Anthropogenically disturbed?
ASOW-22-NECCT-SP-416	E	26	Sand and gravel with shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	None	Hermit crab (3)	Gravel with sand and shell. Many tubes. Anthropogenically disturbed?
ASOW-22-NECCT-SPG-417	A	27	Sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (~40), Nassariid snail (3)	Coarse sand with deposited silt. Some shell hash and gravel, many tracks. Anthropogenically disturbed?
ASOW-22-NECCT-SPG-417	C	27	Sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Sand dollar (~30), Diopatra (1), Hydroid	Partially rippled coarse sand with gravel and shell. Anthropogenically disturbed?
ASOW-22-NECCT-SPG-417	D	27	Rippled sand with silt and shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (~20), Nassariid snail (3)	Gently rippled sand with shell hash and deposited silt in trough. Few sand tubes or possible tunicate. Anthropogenically disturbed?
ASOW-22-NECCT-SP-426	C	27	Sand with silt and shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Sand dollar (~55), Diopatra (2)	Sand with deposited silt, trace of shell and few granules. Moderate amount of sand tubes or possible tunicate. Anthropogenically disturbed?
ASOW-22-NECCT-SP-426	D	27	Rippled sand with silt and shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	None	Sand dollar (~75)	Partially rippled sands. Silt in rippled trough, shell hash scattered on surface. Some sand tubes or possible tunicate. Anthropogenically disturbed?
ASOW-22-NECCT-SP-426	E	27	Sand with silt, gravel, and shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (~75), Nassariid snail (6), Hermit crab (1), Diopatra (1)	Rippled coarse sands. Silt, shell and gravel in rippled trough. Few sand tubes/possible tunicate. Anthropogenically disturbed?

Table 3.2-2 CMECS Substrate and Biotic Classifications for each SPI–PV Image Pair (NECCT and NECCNJ)

				CMECS Substrate Classifications				CMECS Biotic Classifications					
Station ID	Replicate	Water Depth (m)	Habitat Type	Substrate Class	Substrate Subclass	Substrate Group	Substrate Subgroup	Biotic Subclass	Co-occurring Biotic Subclass	Biotic Group	Co-occurring Biotic Group	Epifauna, Infauna & Fish Types and Counts	Comments
ASOW-22-NECCT-SP-432	A	27	Rippled sands with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	Inferred Fauna	Sand Dollar Bed	Tracks and Trails	Sand dollar (~30), Nassariid snail (1)	Subtly rippled medium sand, wavelength is indeterminate. Few distinct tracks.
ASOW-22-NECCT-SP-432	C	27	Rippled sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	Inferred Fauna	Sand Dollar Bed	Tracks and Trails	Sand dollar (~50)	Rippled sand with shell hash and few granules, tracks are present.
ASOW-22-NECCT-SP-432	E	27	Sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (~30), Nassariid snail (5), Diopatra (2), Hermit crab (1)	Possibly rippled medium sand with shell hash, some tracks. Anthropogenically disturbed?
ASOW-22-NECCT-SPG-435	A	26	Rippled sand with silt and shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Burrowing Anemones	Sand dollar (~60), Anemone (1), Hermit crab (1)	Rippled sand with shell hash and trace of granules. Silt and sand clasts or possible tunicate in ripple trough. Anthropogenically disturbed?
ASOW-22-NECCT-SPG-435	B	26	Rippled sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (~45), Nassariid snail (1), Hermit crab (1), Astarte clam (1)	Rippled sand with shell hash, trace of granules and sand tubes/possible tunicate. Ripples are variable. Anthropogenically disturbed?
ASOW-22-NECCT-SPG-435	C	26	Sand with silt and shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	Inferred Fauna	Sand Dollar Bed	Tracks and Trails	Sand dollar (~40), Astarte clam (2), Nassariid snail (2), Hermit crab (1)	Coarse sand with shell hash, trace of granules. Silt, sand tubes/possible tunicate aggregated in trough. Anthropogenically disturbed?
ASOW-22-NECCT-SP-441	A	26	Rippled sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (~65), Nassariid snail (4), Hermit crab (1), Astarte clam (1)	Rippled sand with shell hash. Sand clast scattered throughout frame.
ASOW-22-NECCT-SP-441	B	26	Rippled sand with shell and silt	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand dollar (~35), Hermit crab (3), Nassariid snail (2), Astarte clam (1)	Rippled coarse sands with shell hash and deposited silt. Many tracks and some sand clasts.
ASOW-22-NECCT-SP-441	D	26	Rippled sand with shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (~40), Nassariid snail (~10), Hermit crab (3), Astarte clam (3), Moon snail (1)	Subtly rippled sand with shell hash. High concentration of sand clasts. Anthropogenically disturbed?
ASOW-22-NECCT-SP-451	A	25	Sand with trace of shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand dollar (~25), Hermit crab (3), Astarte clam (1), Nassariid snail (1)	Coarse sands with trace of shell. Some sand clasts or possible tunicate.
ASOW-22-NECCT-SP-451	B	25	Rippled sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	None	Sand dollar (100+)	Rippled medium to coarse sand with shell hash. Ripples are variable, trace of silt in troughs. Sand clasts.
ASOW-22-NECCT-SP-451	D	25	Rippled sand with silt and shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (100+), Nassariid snail (3), Astarte clam (2)	Rippled sand with some deposited silt and shell hash in trough. Many sand clasts on surface.
ASOW-22-NECCT-SP-458	A	25	Rippled sand with shell hash and silt	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	None	Sand dollar (100+)	Partially rippled coarse sand, shell hash and deposited silt in ripple trough. Anthropogenically disturbed?
ASOW-22-NECCT-SP-458	B	25	Rippled sand with silt and shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	None	Sand dollar (100+), Nassariid snail (3), Astarte clam (2)	Rippled sand, shell and silt in ripple trough, sand clasts. Anthropogenically disturbed?
ASOW-22-NECCT-SP-458	C	25	Rippled sand with shell hash and silt	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (~60), Nassariid snail (1), Hermit crab (1), Astarte clam (1)	Variably rippled coarse sand. Shell hash and deposited silt in ripple trough, sand clasts. Anthropogenically disturbed?
ASOW-22-NECCT-SPG-461	A	25	Rippled sand with gravel and shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Sand dollar (14), Diopatra (1), Nassariid snail (1), Astarte clam (1)	Rippled coarse sand, ripples are disturbed due to mobile sand dollars. Shell and gravel in trough. Anthropogenically disturbed?
ASOW-22-NECCT-SPG-461	D	25	Rippled sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Hard or Mixed Substrates	Sand dollar (30), Hermit crab (2)	Rippled sands, granules and shell hash in troughs. Anthropogenically disturbed?
ASOW-22-NECCT-SPG-461	E	25	Rippled sand with shell and gravel	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Sand dollar (15), Diopatra (1)	Rippled coarse sand, gravels and shell debris in troughs. Anthropogenically disturbed?
ASOW-22-NECCT-SP-543	C	21	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Burrowing Anemones	None	Anemone (2)	Well-defined rippled sand, trace of shell hash. Highly turbid environment.
ASOW-22-NECCT-SP-543	D	21	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Burrowing Anemones	Diopatra (3), Anemone (1)	Well-defined rippled sand, highly turbid.
ASOW-22-NECCT-SP-543	E	21	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Burrowing Anemones	Mobile Mollusks on Soft Sediments	Anemone (1), Nassariid snail (1)	Well-defined rippled sand.
ASOW-22-NECCT-SP-544	A	20	Silt with gravel	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Mud	Soft Sediment Fauna	Attached Fauna	Burrowing Anemones	Mobile Mollusks on Hard or Mixed Substrates	Anemone (5), Hermit crab (2)	Gravels over silt, some shell hash.
ASOW-22-NECCT-SP-544	C	20	Hard bottom substrate with silt and sand	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Muddy Sandy Gravel	Soft Sediment Fauna	Attached Fauna	Burrowing Anemones	Mobile Crustaceans on Soft Sediments	Anemone (3), Hermit crab (2)	Mixed substrate of gravel, sand and silt. Large ripple crest in frame, gravels aggregated in trough.
ASOW-22-NECCT-SP-544	E	20	Rippled sand with gravel and silt	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	Attached Fauna	Burrowing Anemones	Mobile Mollusks on Hard or Mixed Substrates	Anemone (2), Nassariid snail (1)	Rippled sand with overlying silt and gravel, trace of shell.
ASOW-22-NECCT-SP-545	A	21	Hard bottom substrate with silt	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Muddy Gravel	Soft Sediment Fauna	NA	Burrowing Anemones	None	Anemone (1)	High concentration of pebble/granules with some shell over silt. Cobble/boulders with attached barnacles in PV replicate C.
ASOW-22-NECCT-SP-545	B	21	Rippled sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	None	NA	None	None	None	Well-defined rippled sand.
ASOW-22-NECCT-SP-545	D	21	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Inferred Fauna	NA	Tracks and Trails	None	None	Rippled sand with scattered shell hash.
ASOW-22-NECCT-SP-546	A	20	Rippled sand with silt	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Mobile Mollusks on Soft Sediments	Diopatra (5), Moon snail (1)	Rippled medium sand with silt in ripple troughs.
ASOW-22-NECCT-SP-546	D	20	Rippled sands with silt	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	Inferred Fauna	Larger Tube-Building Fauna	Tracks and Trails	Diopatra (3)	Rippled sand with trace of shell hash. Silt in ripple trough, ripples are disturbed. Some tracks and depressions.
ASOW-22-NECCT-SP-546	E	20	Rippled sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	None	Diopatra (2)	Rippled sand with shell hash. Trace of silt in troughs.

Table 3.2-2 CMECS Substrate and Biotic Classifications for each SPI–PV Image Pair (NECCT and NECCNJ)

				CMECS Substrate Classifications				CMECS Biotic Classifications					
Station ID	Replicate	Water Depth (m)	Habitat Type	Substrate Class	Substrate Subclass	Substrate Group	Substrate Subgroup	Biotic Subclass	Co-occurring Biotic Subclass	Biotic Group	Co-occurring Biotic Group	Epifauna, Infauna & Fish Types and Counts	Comments
ASOW-22-NECCT-SP-547	B	27	Rippled sand with trace of shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Sand Dollar Bed	Diopatra (3), Sand dollar (3), Nassariid snail (3)	Rippled sands, trace of shell. One recently excavated burrow, many tracks.
ASOW-22-NECCT-SP-547	C	27	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Sand Dollar Bed	Diopatra (6), Sand dollar (3), Nassariid snail (3), Hermit crab (1)	Rippled sand with shell hash, many burrows.
ASOW-22-NECCT-SP-547	D	27	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand dollar (4), Hermit crab (2), Snail (1)	Rippled sand, many tracks, a few burrows.
ASOW-22-NECCT-SP-548	A	27	Gravel with sand and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	None	Hermit crab (2)	Gravels ranging in size, shell and coarse sands.
ASOW-22-NECCT-SP-548	B	27	Hard bottom substrate with sand	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	None	Hermit crab (1)	Gravel over coarse sands, trace of shell.
ASOW-22-NECCT-SP-548	C	27	Hard bottom substrate with sand	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	Soft Sediment Fauna	Attached Starfish	Burrowing Anemones	Sea star (1), Anemone (1)	Gravel and shell over coarse sand. Sea star top right of frame.
ASOW-22-NECCT-SP-550	B	25	Sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Burrowing Anemones	Hermit crab (5), Nassariid snail (2), Anemone (1)	Mixed gravels over sand, some shell hash. Many sand tubes or possible tunicate.
ASOW-22-NECCT-SP-550	C	25	Rippled sand with shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Mobile Mollusks on Soft Sediments	Diopatra (2), Nassariid snail (1), Astarte clam (1)	Rippled medium sand with shell hash. Ripples are subtle and variable, wavelength is indeterminate.
ASOW-22-NECCT-SP-550	D	25	Sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	Attached Sea Urchins	Hermit crab (2), Sea urchin (1), Moon snail (1)	Sand with gravel and shell. Many sand tubes/possible tunicate and some fecal casts. Moon snail is a co-occurring element.
ASOW-22-NECCT-SP-551	A	25	Rippled sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand dollar (10), Hermit crab (6), Nassariid snail (6), Diopatra (3), Skate egg case (1)	Rippled sand with shell hash.
ASOW-22-NECCT-SP-551	B	25	Rippled sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Mobile Mollusks on Soft Sediments	Sand Dollar Bed	Nassariid snail (8), Sand dollar (7), Hermit crab (2)	Rippled sand, trace of shell hash. Hermit crab preying upon decayed skate egg case. Many tracks.
ASOW-22-NECCT-SP-551	C	25	Rippled sand, trace of shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand dollar (9), Hermit crab (7), Nassariid snail (4), Diopatra (1)	Rippled sand with shell hash, many tracks.
ASOW-22-NECCT-SP-553	A	23	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand dollar (~55), Hermit crab (4), Diopatra (2), Nassariid snail (2)	Rippled sand, trace of shell hash and gravel. Some tracks and depressions.
ASOW-22-NECCT-SP-553	C	23	Rippled sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Hard or Mixed Substrates	Sand dollar (100+), Hermit crab (3), Nassariid snail (3)	Rippled sand with granules and shell in ripple trough, ripple crests not visible in frame. Many sand dollars and a moon snail egg casing. Anthropogenically disturbed?
ASOW-22-NECCT-SP-553	E	23	Rippled sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (100+), Nassariid snail (9), Hermit crab (2), Diopatra (1)	Rippled sand with shell hash. Many sand dollars.
ASOW-22-NECCT-SP-555	A	25	Hard bottom substrate with sand and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	None	Hermit crabs (2), Polychaete (1)	Gravels and sand with shell.
ASOW-22-NECCT-SP-555	B	25	Hard bottom substrate with sand and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	None	Hermit crab (1), Sea robin (1)	Gravel mixes with diverse shell debris over sand.
ASOW-22-NECCT-SP-555	C	25	Hard bottom substrate with sand and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	NA	Mobile Mollusks on Hard or Mixed Substrates	None	Nassariid snail (5), Sand dollar (1)	Range of gravels and shell debris over sand. Recently excavated burrow, few sand tubes/possible tunicate.
ASOW-22-NECCT-SP-560	B	25	Rippled sand with shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (~75), Nassariid snail (8), Hermit crab (2)	Rippled sand with shell hash and trace of granules. Many sand dollars.
ASOW-22-NECCT-SP-560	C	25	Rippled sand with shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (~65), Nassariid snail (8), Diopatra (1)	Rippled sand with shell hash, few tracks and depressions.
ASOW-22-NECCT-SP-560	D	25	Rippled sand with shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (~60), Nassariid snail (4), Hermit crab (1)	Rippled sand, shell hash in ripple trough. Anthropogenically disturbed?
ASOW-22-NECCT-SP-562	A	23	Hard bottom substrate with sand and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	Soft Sediment Fauna	Mobile Mollusks on Hard or Mixed Substrates	Larger Tube-Building Fauna	Nassariid snail (12), Hermit crab (5), Diopatra (1)	Pebble/granules and shell hash over sand. Many sand tubes.
ASOW-22-NECCT-SP-562	B	23	Hard bottom substrate with sand and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	Soft Sediment Fauna	Mobile Mollusks on Hard or Mixed Substrates	Larger Tube-Building Fauna	Nassariid snail (6), Diopatra (5), Hermit crab (4),	Pebble/granules and shell over sand. Scallop shell.
ASOW-22-NECCT-SP-562	C	23	Sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Attached Fauna	NA	Mobile Mollusks on Hard or Mixed Substrates	Mobile Crustaceans on Hard or Mixed Substrates	Nassariid snail (~15), Hermit crab (1)	Sand tubes present throughout.
ASOW-22-NECCT-SP-568	A	25	Sand with gravel and shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Mobile Mollusks on Soft Sediments	Diopatra (10), Nassariid snail (9) Sand dollar (4), Nudibranch (2)	Sand with trace of gravels and shell hash. Sand tubes present.
ASOW-22-NECCT-SP-568	B	25	Hard bottom substrate with sand and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Hermit crab (3), Diopatra (2), Nassariid snail (1)	Medium sand with gravels and shell debris. Sand tubes present.
ASOW-22-NECCT-SP-568	D	25	Hard bottom substrate with sand and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Hermit crab (~10), Hydroids, Diopatra (3), Nassariid snail (~3)	Gravels and shell over sand, few sand tubes/possible tunicate. Possible hydroids attached to shell.
ASOW-22-NECCT-SPG-569	A	26	Sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	Attached Fauna	Burrowing Anemones	Attached Starfish	Sea star (1), Nassariid snail (4), Anemone (1), Astarte clam (1)	Pebble/granules and shell over sand. Many clusters of sand tubes/possible tunicate.
ASOW-22-NECCT-SPG-569	C	26	Sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	Mobile Mollusks on Hard or Mixed Substrates	Hermit crab (~10), Nassariid snail (2), Nudibranch (1)	Some gravel and trace of shell hash over sand. High concentration of sand tubes/possible tunicate with foraging mollusks and hermit crabs.
ASOW-22-NECCT-SPG-569	E	26	Rippled sand with shell and gravel	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Hermit crab (4), Nassariid snail (2), Diopatra (1)	Partially rippled coarse sand with shell hash and few pebbles. Sand tubes, few large with foraging juvenile snails or hermit crabs.
ASOW-22-NECCT-SP-572	B	26	Sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Hermit crab (6), Nassariid snail (3), Diopatra (3)	Gravel and shell over sand, possible sand tubes/tunicate.
ASOW-22-NECCT-SP-572	C	26	Sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Hermit crab (~3), Nassariid snail (~3), Diopatra (1)	Sand with gravels and shell overlying. Sand tubes/possible tunicate present in clusters throughout image.
ASOW-22-NECCT-SP-572	D	26	Hard bottom substrate with sand and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Hermit crab (8), Nassariid snail (2), Diopatra (1)	Many foraging hermit crabs and snails.

Table 3.2-2 CMECS Substrate and Biotic Classifications for each SPI–PV Image Pair (NECCT and NECCNJ)

				CMECS Substrate Classifications				CMECS Biotic Classifications					
Station ID	Replicate	Water Depth (m)	Habitat Type	Substrate Class	Substrate Subclass	Substrate Group	Substrate Subgroup	Biotic Subclass	Co-occurring Biotic Subclass	Biotic Group	Co-occurring Biotic Group	Epifauna, Infauna & Fish Types and Counts	Comments
ASOW-22-NECCT-SP-573	A	28	Sand with shell hash and silt	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand dollar (~40), Hermit crab (2), Nassariid snail (1)	Variably rippled coarse sand with shell hash. Some sand clasts. Anthropogenically disturbed?
ASOW-22-NECCT-SP-573	B	28	Rippled sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (~50), Nassariid snail (2)	Rippled sand with shell hash. Moderate amount of sand dollars.
ASOW-22-NECCT-SP-573	D	28	Rippled sand with silt and shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand dollar (~50), Hermit crab (3), Nassariid snail (1)	Subtly rippled coarse sand with some deposited silt and detritus, trace shell hash. Moderate amount of sand dollars.
ASOW-22-NECCT-SP-574	B	28	Rippled sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (~100), Nassariid snail (~5), Diopatra (1), Hermit crab (1)	Rippled sand with shell hash. Many sand dollars and tracks.
ASOW-22-NECCT-SP-574	C	28	Rippled sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (~70), Nassariid snail (4), Diopatra (1), Hermit crab (1)	Rippled sands with some shell hash and an abundance of sand dollars and tracks. Unidentifiable debris, possible stick left of frame near diopatra.
ASOW-22-NECCT-SP-574	D	28	Rippled sand with shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (75+), Nassariid snail (~5)	Partially rippled fine sand with shell hash. Many sand dollars, one decayed. Possible relic burrow top left of frame, large depression.
ASOW-22-NECCT-SP-575	A	27	Rippled sand with shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Sand dollar (55), Diopatra (3), Hermit crab (3), Anemone (1)	Gently rippled sand with shell hash and few granules. Many sand dollars, few large diopatra. Tracks are evident.
ASOW-22-NECCT-SP-575	B	27	Rippled sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand dollar (~90), Hermit crab (3), Nassariid snail (2), Diopatra (2)	Rippled sand with shell hash, very coarse sands to granules in troughs. Many sand dollars.
ASOW-22-NECCT-SP-575	C	27	Rippled sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (~70), Nassariid snail (2), Astarte clam (1)	Rippled sand, ripples are irregular. Shell hash, few fine granules in ripple trough.
ASOW-22-NECCT-SP-576	A	26	Rippled sand with silt and shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	Inferred Fauna	Sand Dollar Bed	Tracks and Trails	Sand dollar (100+), Astarte clam (1)	Rippled coarse sand, few granules. Wave length is variable, few wide ripple crests. Sand tubes and tracks. Anthropogenically disturbed?
ASOW-22-NECCT-SP-576	B	26	Rippled sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Clam Bed	Sand dollar (~65), Astarte clam (2)	Rippled coarse sand, shell hash and silt in trough. Sand tubes. Anthropogenically disturbed?
ASOW-22-NECCT-SP-576	D	26	Rippled sand with shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	Na	Sand Dollar Bed	None	Sand dollar (~100)	Rippled sand with shell hash and few granules. Aggregated silt or detritus, many sand dollars. Some sand tubes. Anthropogenically disturbed?
ASOW-22-NECCT-SP-577	A	25	Rippled sand with shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	None	Sand dollar (100+), Astarte clam (2), Nassariid snail (1)	Subtly rippled sand with deposited silt and shell hash, few granules. Many sand dollars and some sand tubes.
ASOW-22-NECCT-SP-577	C	25	Rippled sand with shell hash and silt	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Clam Bed	Sand dollar (~75), Astarte clam (4), Diopatra (2)	Faintly rippled coarse sand. Some shell hash and silt, few pebble/granules. Many sand clasts. Anthropogenically disturbed?
ASOW-22-NECCT-SP-577	D	25	Rippled sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	None	Sand dollar (~50), Astarte clam (1), Hermit crab (1)	Rippled sand, trace of silt and shell hash, few granules. Moderate amount of sand dollars, few tracks. Anthropogenically disturbed?
ASOW-22-NECCT-SP-578	B	25	Rippled sand with shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Clam Bed	Sand dollar (~35), Astarte clam (2)	Rippled sand with shell hash, large clam shell. Sand dollars and tracks. Few sand tubes and sand clasts.
ASOW-22-NECCT-SP-578	C	25	Rippled sand with silt and shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Burrowing Anemones	Sand dollar (~40), Anemone (1), Nassariid snail (1)	Subtly rippled coarse sands. Trace of shell hash and moderate amount of sand clasts, few sand tubes. Partially buried anemone.
ASOW-22-NECCT-SP-578	D	25	Rippled sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Clam Bed	Sand dollar (~60), Astarte clam (2)	Rippled sands with overlying silt and shell hash. Ripples are inconsistent and possible weathered. One pebble, few granules. Some sand clasts and sand tubes.
ASOW-22-NECCT-SP-579	B	24	Rippled sand with shell and gravel	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand dollar (27), Hermit crab (4), Astarte clam (1)	Rippled sand with shell hash and rubble. Granules in ripple troughs. Some sand tubes and clasts.
ASOW-22-NECCT-SP-579	D	24	Rippled sand with shell and gravel	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Clam Bed	Sand dollar (~65), Astarte clam (5), Nassariid snail (2)	Partially rippled sand, shell hash and granules in troughs. Many sand dollars, some sand clasts.
ASOW-22-NECCT-SP-579	E	24	Rippled sand with trace of gravel and shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Sand dollar (~40), Diopatra (1), Astarte clam (1), Anemone (1)	Rippled sand with trace of gravel, most granules and shell. Many tracks.
ASOW-22-NECCT-SP-580	A	26	Rippled sand with silt and shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Sand dollar (~35), Diopatra (2), Hermit crab (2), Nassariid snail (1), Astarte clam (1)	Rippled sand, silt and shell hash in trough. Many clasts, few tracks.
ASOW-22-NECCT-SP-580	C	26	Rippled sand with silt and shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand dollar (~50), Hermit crab (4), Astarte clam (2), Diopatra (1), Juvenile crab (1)	Rippled sand, silt and shell hash in trough, ripples are variable. Sand tubes and sand clasts present, many sand dollars.
ASOW-22-NECCT-SP-580	D	26	Rippled sand with silt and shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (~40), Nassariid snail (1)	Rippled sand with silt and shell hash overlying. Wood debris bottom right of frame, few tracks. Some sands clasts.
ASOW-22-NECCT-SP-581	B	25	Rippled sand with shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (~70), Nassariid snail (2)	Rippled sand with shell hash, few fine pebbles/granules. Sand tubes, few tracks.
ASOW-22-NECCT-SP-581	C	25	Rippled sand with shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Sand dollar (45), Diopatra (1), Astarte clam (1), Nassariid snail (1)	Gently rippled sand with shell hash, detritus and some pebble/granules. Large clam shell, few tracks. Sand clasts.
ASOW-22-NECCT-SP-581	E	25	Rippled sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Sand dollar (~60), Diopatra (4) Astarte clam (1)	Rippled sand, shell hash and mobile gravels aggregated in troughs. Ripples are variable. Veneer of detritus, few sand tubes.
ASOW-22-NECCT-SP-582	C	27	Sand with shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	Mobile Mollusks on Soft Sediments	Hermit crab (5), Nassariid snail (4)	Fine sand with diverse shell hash and trace of gravel. High density of sand tubes.
ASOW-22-NECCT-SP-582	D	27	Sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (30), Nassariid snail (~5), Diopatra (1), Hermit crab (1), Skate egg case (1)	Sand with overlying shell hash, many tracks. Cluster of sand tubes.
ASOW-22-NECCT-SP-582	E	27	Sand with shell and gravel	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	None	Hermit crab (7)	Sand with diverse shell debris and gravels. Moderate amount of sand tubes, few dead sand dollars.

Table 3.2-2 CMECS Substrate and Biotic Classifications for each SPI–PV Image Pair (NECCT and NECCNJ)

				CMECS Substrate Classifications				CMECS Biotic Classifications					
Station ID	Replicate	Water Depth (m)	Habitat Type	Substrate Class	Substrate Subclass	Substrate Group	Substrate Subgroup	Biotic Subclass	Co-occurring Biotic Subclass	Biotic Group	Co-occurring Biotic Group	Epifauna, Infauna & Fish Types and Counts	Comments
ASOW-22-NECCT-SP-583	A	26	Sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Hermit crab (4), Diopatra (4)	Pebbles and granules with shell hash over sand. Sand tubes.
ASOW-22-NECCT-SP-583	B	26	Hard bottom substrate with sand and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	None	Hermit crab (4)	Mix of gravels ranging in size and shell hash over sand. Many sand tubes.
ASOW-22-NECCT-SP-583	C	26	Hard bottom substrate with sand and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Hermit crab (2), Diopatra (1), Anemone (1)	Gravel, mostly pebbles and shell debris over sand. Sand tubes.
ASOW-22-NECCT-SP-584	A	26	Hard bottom sand with shell and gravel	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Hermit crab (4), Nassariid snail (2), Diopatra (1)	Gravels ranging in size, mostly pebbles with shell hash and rubble over sand. Trace of fecal casts.
ASOW-22-NECCT-SP-584	B	26	Sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	None	Hermit crab (~5),	Sand with pebbles, granules and shell debris overlying. Few groups of sand tubes/possible tunicate evident in sands. Piece of plastic debris.
ASOW-22-NECCT-SP-584	C	26	Sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Hermit crab (~10), Diopatra (2), Sea urchin (1), Nassariid snail (1), Hydroids	Fine pebbles and granules with shell hash over sand. Possible sand tubes or tunicate. Sea urchin attached to clam shell left side of frame.
ASOW-22-NECCT-SP-586	A	24	Hard bottom substrate with sand and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Soft Sediment Fauna	Attached Fauna	Larger Tube-Building Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Diopatra (3), Hermit crabs (4), Anemone	Sand with high coverage of gravel and some shell hash. Possible sand tubes or tunicate in sand portions of image.
ASOW-22-NECCT-SP-586	B	24	Sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Sand Dollar Bed	Hermit crab (~5), Sand dollar (3), Anemone (1)	Sand with gravels aggregated through center of frame and diverse shell debris and hash. Possible sand tubes/tunicate in sand. Possible anthropogenically created trough.
ASOW-22-NECCT-SP-586	E	24	Hard bottom substrate with sand and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	NA	Attached Anemones	None	Anemone (1)	Gravels and shell hash over coarse sand. Granules through center of frame with pebbles on edges. Few possible sand tubes or tunicate in sands.
ASOW-22-NECCT-SP-588	C	23	Hard bottom substrate with sand and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Sand Dollar Bed	Hermit crab (5), Sand dollar (1)	Sand with high coverage of pebbles and granules, some shell hash.
ASOW-22-NECCT-SP-588	D	23	Hard bottom substrate with sand and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravels	Pebble/Granule	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Hard or Mixed Substrates	Sand dollar (~30), Hermit crab (3), Nassariid snail (2), Anemone (1). Hydroid	Pebble/granules and shell hash on sand. Moderate sand dollar coverage.
ASOW-22-NECCT-SP-588	E	23	Hard bottom substrate with sand and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Sand Dollar Bed	Hermit crab (2), Sand dollar (1), Moon snail (1), Sea star (1)	Gravels and diverse shell over sand. Deceased sand dollar, arm of sea star captured left side of frame.
ASOW-22-NECCT-SP-592	A	22	Sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Sand dollar (100+), Hermit crab (~10), Diopatra (7), Nassariid snail (2), Skate egg case (1), Anemone (1)	Sand with shell hash, few granules and sand clasts. Many sand dollars, some diopatra.
ASOW-22-NECCT-SP-592	B	22	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Sand dollar (~100+), Diopatra (3), Hermit crab (3), Nassariid snail (1), Anemone (1)	Subtly rippled sand, trace of shell and some sand clasts. An abundance of sand dollars, few diopatra and tracks. Possible bivalve siphon.
ASOW-22-NECCT-SP-592	E	22	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand dollar (100+), Hermit crab (5), Nassariid snail (2), Diopatra (1), Bivalve siphon (1)	Partially rippled sand with trace of shell hash. Some sand clasts. Many sand dollars and some tracks evident.
ASOW-22-NECCT-SP-595	A	24	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Diverse Soft Sediments Epifauna	Sand dollar (15), Nassariid snail (3), Sea Star (1), Diopatra (1)	Rippled sand, high diversity, many tracks and trails.
ASOW-22-NECCT-SP-595	B	24	Sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (48), Nassariid snail (5), Diopatra (3), Hermit crab (1)	Sand with many sand dollars, diopatra.
ASOW-22-NECCT-SP-595	E	24	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Burrowing Anemones	Sand dollar (~40), Anemone (2), Nassariid snail (1)	Rippled fine to medium sand, many sand dollars, tracks.
ASOW-22-NECCT-SP-597	A	25	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Mobile Mollusks on Soft Sediments	Burrowing Anemones	Nassariid snail (4), Cerianthid anemone (2), Hermit crab (1)	Rippled (weathered) sand, lots of tracks.
ASOW-22-NECCT-SP-597	B	25	Rippled Sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Mobile Mollusks on Soft Sediments	Diverse Soft Sediments Epifauna	Nassariid snail (7), Crepidula (5), Anemone (2), Sand dollar (1)	Rippled sand with diverse soft sediment fauna, isolated Crepidula stack.
ASOW-22-NECCT-SP-597	D	25	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Diverse Soft Sediments Epifauna	Mobile Mollusks on Soft Sediments	Nassariid snail (4), Sand dollar (3), Anemone (2), Hermit crab (2), Diopatra (2)	Rippled sand, tracks and trails, diverse epifauna.
ASOW-22-NECCT-SP-598	B	24	Sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (150+), Nassariid snail (3)	Sand, some shell, many sand dollars, some snails.
ASOW-22-NECCT-SP-598	D	24	Sand bottom	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (55), Nassariid snail (6), Hermit crab (1), Anemone (1), Skate egg case (1)	Sand with many sand dollars and tracks, skate egg case.
ASOW-22-NECCT-SP-598	E	24	Sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (~45), Nassariid snail (7), Hermit crab (3)	Sand and sand dollars, possible weathered ripples.
ASOW-22-NECCT-SP-599	A	25	Silt bottom	Unconsolidated Mineral	Fine Unconsolidated	Mud	NA	Soft Sediment Fauna	Inferred Fauna	Larger Deep-Burrowing Fauna	Tracks and Trails	Sand dollar (1), Moon Snail (1)?, Nassariid snail (1)	Silt bottom with many burrows, tracks, and trails.
ASOW-22-NECCT-SP-599	B	25	Silt bottom	Unconsolidated Mineral	Fine Unconsolidated	Mud	NA	Soft Sediment Fauna	Inferred Fauna	Mobile Mollusks on Soft Sediments	Tracks and Trails	Nassariid snail (6), Diopatra (1)	Silt bottom with many tracks and trails, burrow excavations on SWI.
ASOW-22-NECCT-SP-599	C	25	Silt bottom	Unconsolidated Mineral	Fine Unconsolidated	Mud	NA	Soft Sediment Fauna	Inferred Fauna	Mobile Mollusks on Soft Sediments	Tracks and Trails	Nassariid snail (8)	Silt bottom, many small snails, tracks.
ASOW-22-NECCT-SP-600	A	24	Hard bottom substrate over sand	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Hard or Mixed Substrates	Sand dollar (25), Hermit crab (2), Nassariid snail (2)	Rippled coarse sand with gravel, shells in troughs. Large, emergent worm tube on left.
ASOW-22-NECCT-SP-600	B	24	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (75), Nassariid snail (6)	Rippled sand with many sand dollars and snails.
ASOW-22-NECCT-SP-600	D	24	Sand with some shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (100+), Nassariid snail (5), Egg mass?	Sand with many sand dollars, possible egg mass at right center.

Table 3.2-2 CMECS Substrate and Biotic Classifications for each SPI–PV Image Pair (NECCT and NECCNJ)

				CMECS Substrate Classifications				CMECS Biotic Classifications						
Station ID	Replicate	Water Depth (m)	Habitat Type	Substrate Class	Substrate Subclass	Substrate Group	Substrate Subgroup	Biotic Subclass	Co-occurring Biotic Subclass	Biotic Group	Co-occurring Biotic Group	Epifauna, Infauna & Fish Types and Counts	Comments
ASOW-22-NECCT-SP-601	A	25	Rippled sand with trace of silt	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Inferred Fauna	NA	Tracks and Trails	None	Diopatra (1)	Rippled sand with some silt, shell.
ASOW-22-NECCT-SP-601	C	25	Rippled sand with silt	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	Inferred Fauna	Mobile Mollusks on Soft Sediments	Tracks and Trails	Nassariid snail (2), Sand dollar (1), Diopatra (1)	Rippled sand with overlying silt and trace of shell hash.
ASOW-22-NECCT-SP-601	D	25	Rippled sand with silt	Unconsolidated Mineral	Fine Unconsolidated	Muddy Sand	NA	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	Mobile Mollusks on Soft Sediments	Hermit crab (2), Nassariid snail (1), Sand dollar (1)	Rippled sand with overlying silt, burrows, tracks.
ASOW-22-NECCT-SP-602	B	24	Sand and silt mixture	Unconsolidated Mineral	Fine Unconsolidated	Muddy Sand	NA	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (8), Nassariid snail (4)	Medium sand and silt mix, ripples.
ASOW-22-NECCT-SP-602	C	24	Rippled fine sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (5), Nassariid snail (5), Diopatra (2)	Rippled fine and very fine sand, large burrows/depressions.
ASOW-22-NECCT-SP-602	D	24	Sand and silt	Unconsolidated Mineral	Fine Unconsolidated	Muddy Sand	NA	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Deep-Burrowing Fauna	Sand dollar (150+), Nassariid snail (6), Hermit crab (1)	Find sand and silt mixture, large burrows with tubes, many sand dollars.
ASOW-22-NECCT-SP-603	E	24	Hard bottom substrate	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Soft Sediment Fauna	NA	Burrowing Anemones	None	Cerianthid anemone (2)	Gravel, sand, and shell mix.
ASOW-22-NECCT-SP-603	F	24	Rippled sand and silt	Unconsolidated Mineral	Fine Unconsolidated	Sandy Mud	NA	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Deep-Burrowing Fauna	Sand dollar (15), Cerianthid anemone (2), Diopatra (2)	Silt and very fine sand mix, many burrows and small sand dollars partially covered in silt.
ASOW-22-NECCT-SP-603	G	24	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sandy Mud	NA	Soft Sediment Fauna	NA	Sand Dollar Bed	Burrowing Anemones	Sand dollar (120+), Cerianthid anemone (4), Diopatra (3)	Rippled silt and fine sand, many small sand dollars, large burrows, diopatra without shells for ornamentation?
ASOW-22-NECCT-SP-604	A	24	Sand and mud	Unconsolidated Mineral	Fine Unconsolidated	Muddy Sand	NA	Soft Sediment Fauna	NA	Mobile Mollusks on Soft Sediments	Burrowing Anemones	Nassariid snail (4), Cerianthid anemone (1)	Sand and silt mix/surface transition, many burrows in silt area.
ASOW-22-NECCT-SP-604	D	24	Sand with some silt	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (2), Nassariid snail (2), Hermit crab (1)	Sand with some silt, burrows, and tracks.
ASOW-22-NECCT-SP-604	E	24	Sand with some silt	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand dollar (10), Hermit crab (3), Nassariid snail	Sand with some silt, burrows, tracks.
ASOW-22-NECCT-SP-605	A	22	Silt	Unconsolidated Mineral	Fine Unconsolidated	Mud	NA	Soft Sediment Fauna	NA	Burrowing Anemones	Mobile Mollusks on Soft Sediments	Cerianthid anemone (3), Nassariid snail (2)	Silt bottom with large burrows, anemones, snails, many tracks and trails.
ASOW-22-NECCT-SP-605	B	22	Silt and sand	Unconsolidated Mineral	Fine Unconsolidated	Sandy Mud	NA	Soft Sediment Fauna	NA	Burrowing Anemones	Mobile Mollusks on Soft Sediments	Cerianthid anemone (3), Nassariid snail (1)	Rippled silt and sand substrate, large burrows.
ASOW-22-NECCT-SP-605	E	22	Rippled fine sand and silt	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	Inferred Fauna	Burrowing Anemones	Tracks and Trails	Cerianthid anemone (1), Nassariid snail (1)	Rippled fine sand and silt, many tracks and some burrows.
ASOW-22-NECCT-SP-606	A	21	Rippled sand with silt and shell fragments	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Burrowing Anemones	Small Tube-Building Fauna	Cerianthid anemone (9)	Rippled sand with silt in troughs, some shell, many anemones.
ASOW-22-NECCT-SP-606	B	21	Rippled sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Inferred Fauna	Soft Sediment Fauna	Tracks and Trails	Burrowing Anemones	Cerianthid anemones (1)	Rippled fine to medium sand, shell hash, lots of tracks and trails.
ASOW-22-NECCT-SP-606	D	21	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Burrowing Anemones	None	Cerianthid anemone (5), Whip amphipods (10)	Rippled fine sand with some silt and shell, many whip amphipods, burrow excavations.
ASOW-22-NECCT-SP-607	C	19	Hard bottom substrate with sand and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	NA	Attached Anemones	None	Cerianthid anemone (1)	Gravels and coarse sand, a few cobbles.
ASOW-22-NECCT-SP-607	D	19	Hard bottom substrate with sand	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	None	NA	None	None	None	Sandy gravel substrate without visible fauna.
ASOW-22-NECCT-SP-607	E	19	Hard bottom substrate with sand, silt, and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Muddy Sandy Gravel	None	NA	None	None	None	Sandy gravel with some reduced silt on SWI, no organisms evident.
ASOW-22-NECCT-SP-608	C	22	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Burrowing Anemones	Larger Tube-Building Fauna	Cerianthid anemones (4), Diopatra (2), Hermit crab (1)	Rippled sand, burrows and fecal casts.
ASOW-22-NECCT-SP-608	D	22	Rippled sand with silt	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Burrowing Anemones	Mobile Mollusks on Soft Sediments	Cerianthid anemones (11), Nassariid snail (3), Moon snail (1), Whip amphipods	Rippled sand with trace of silt. Many burrowing anemones, tracks, whip amphipods, gastropods, and tracks.
ASOW-22-NECCT-SP-608	E	22	Rippled sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Burrowing Anemones	None	Cerianthid anemones (9)	Rippled sand with burrowing anemones, few moon snail egg casings.
ASOW-22-NECCT-SP-609	A	20	Rippled sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	Inferred Fauna	Larger Tube-Building Fauna	Tracks and Trails	Diopatra (1)	Rippled fine sand (eroded ripples), many tracks and trails.
ASOW-22-NECCT-SP-609	B	20	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Inferred Fauna	Soft Sediment Fauna	Tracks and Trails	Larger Tube-Building Fauna	Diopatra (1)	Rippled (eroded) sand, many tracks/trails, fecal mounds, burrows.
ASOW-22-NECCT-SP-609	E	20	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Burrowing Anemones	Small Tube-Building Fauna	Cerianthid anemone (1), Diopatra (1)	Rippled sand. Many burrows and fecal casts, possible decaying skate egg case.
ASOW-22-NECCT-SP-610	A	19	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Burrowing Anemones	Mobile Mollusks on Soft Sediments	Cerianthid anemone (2), Nassariid snail (2), Flat fish (1)	Rippled sand, finer sediment with tracks in troughs.
ASOW-22-NECCT-SP-610	B	19	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Burrowing Anemones	Mobile Mollusks on Soft Sediments	Cerianthid anemone (2), Nassariid snail (1)	Rippled fine to medium sand, trace of shell. Few sand tubes/possible tunicate and burrows.
ASOW-22-NECCT-SP-610	C	19	Rippled Sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Mobile Mollusks on Soft Sediments	None	Nassariid snail (1), Diopatra (1)	Rippled sand, possible diopatra.
ASOW-22-NECCT-SP-611	A	20	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	Inferred Fauna	Burrowing Anemones	Tracks and Trails	Cerianthid anemone (1)	Rippled sand, tracks, fecal mound.
ASOW-22-NECCT-SP-611	B	20	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	Inferred Fauna	Larger Tube-Building Fauna	Fecal Mounds	Diopatra (1)	Rippled sand, diopatra and fecal mound. A sand tube/possible tunicate.
ASOW-22-NECCT-SP-611	C	20	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	Inferred Fauna	Larger Tube-Building Fauna	Fecal Mounds	Diopatra (1)	Rippled sand, diopatra, tracks, fecal mounds. Sand tubes/possible tunicate present.

Table 3.2-2 CMECS Substrate and Biotic Classifications for each SPI–PV Image Pair (NECCT and NECCNJ)

				CMECS Substrate Classifications					CMECS Biotic Classifications				
Station ID	Replicate	Water Depth (m)	Habitat Type	Substrate Class	Substrate Subclass	Substrate Group	Substrate Subgroup	Biotic Subclass	Co-occurring Biotic Subclass	Biotic Group	Co-occurring Biotic Group	Epifauna, Infauna & Fish Types and Counts	Comments
ASOW-22-NECCT-SPG-612	B	17	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	Inferred Fauna	Mobile Mollusks on Soft Sediments	Tracks and Trails	Nassariid snail (2), Moon Snail (1), Diopatra (1)	Rippled fine to medium sand.
ASOW-22-NECCT-SPG-612	C	17	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Mobile Mollusks on Soft Sediments	Burrowing Anemones	Nassariid snail (1), Cerianthid anemone (1)	Rippled sands, sand tubes/possible tunicate at left.
ASOW-22-NECCT-SPG-612	D	17	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Inferred Fauna	NA	Fecal Mounds	None	Moon Snail (1)	Rippled sand, many fecal casts, tracks. Moon snail is co-occurring element.
ASOW-22-NECCT-SP-613	A	19	Rippled sand with gravel and shell fragments	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Larger Deep-Burrowing Fauna	Diopatra (2)	Rippled very coarse/coarse sand, lots of burrows, diopatra.
ASOW-22-NECCT-SP-614	A	19	Hard bottom substrate with sand and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Soft Sediment Fauna	NA	Burrowing Anemones	None	Cerianthid anemones (2)	Rippled granules/coarse sand, finer material in trough, shell fragments. Few sand tubes/possible tunicate.
ASOW-22-NECCT-SP-615	B	19	Hard bottom substrate with sand	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	NA	Diverse Colonizers	None	Hydroids, Sponge, Anemones, Astarte (1)	Encrusted gravels on sand. One boulder, few cobbles and some pebble/granules.
ASOW-22-NECCT-SPG-616	A	19	Hard bottom substrate over sand	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Attached Fauna	Soft Sediment Fauna	Attached Hydroids	Diverse Soft Sediments Epifauna	Hydroids, Barnacles, Cerianthid anemone (1), Nassariid snail (1)	Encrusted boulder on rippled sand, some pebbles and granules. Sand tubes or possible tunicate just left of center of image.
ASOW-22-NECCT-SP-617	A	19	Hard bottom substrate	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Attached Fauna	Soft Sediment Fauna	Mobile Mollusks on Hard or Mixed Substrates	Burrowing anemones	Nassariid snail (2), Cerianthid anemone (2)	Gravel in trough of rippled coarse sand, tube encrusted detritus in upper left.
ASOW-22-NECCT-SP-618	A	20	Hard bottom substrate with sand	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	Attached Fauna	Burrowing Anemones	Mobile Crustaceans on Hard or Mixed Substrates	Cerianthid anemone (3), Hermit crab (1)	Gravel band in coarse sand, some shell hash. Turbid image.
ASOW-22-NECCT-SP-619	A	20	Rippled sand with trace of gravel and shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	Inferred Fauna	Burrowing Anemones	Tracks and Trails	Cerianthid anemone (1)	Turbid image, rippled sand with some granules, scattered sand tubes or possible tunicate.
ASOW-22-NECCT-SP-620	A	21	Silt over sand and gravel	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Mud	Soft Sediment Fauna	NA	Burrowing Anemones	None	Cerianthid anemone (7)	Turbid image, silt veneer over granules and coarse sand.
ASOW-22-NECCT-SP-621	A	21	Silt and sand with gravel	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Muddy Sand	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	Burrowing Anemones	Cerianthid anemone (1), Hermit crab (1)	Image partially obscured by turbidity, scattered gravel on sand and mud.
ASOW-22-NECCT-SP-622	A	21	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Burrowing Anemones	Mobile Mollusks on Soft Sediments	Cerianthid anemone (2), Nassariid snail (1)	Turbidity obscures image, sand clasts or emergent infauna present.
ASOW-22-NECCT-SP-623	A	24	Hard bottom substrate with sand and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	None	Sand dollar (30), Sea Star (1), Nassariid snail (1)	Sand with gravel in trough, sea star at top right, mostly outside frame.
ASOW-22-NECCT-SP-624	B	24	Hard bottom substrate with sand and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Sand Dollar Bed	Hermit crab (2), Nassariid snail (1), Sand dollar (1), Skate egg case	Coarse sand and gravel (in trough?), snail feeding on decaying skate egg case.
ASOW-22-NECCT-SP-625	B	23	Hard bottom substrate with sand and shell fragments	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Hard or Mixed Substrates	Sand dollar (24), Hermit crab (3)	Coarse sand with gravel concentrated in a band/trough.
ASOW-22-NECCT-SP-626	B	23	Sand with limited shell fragments	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand dollar (105), Hermit crab (2), Astarte (1), Nassariid snail (1)	Coarse sand with many sand dollars, trough on left appears to be filled with sand tubes/possible tunicate.
ASOW-22-NECCT-SP-627	B	23	Hard bottom substrate with sand and shell fragments	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Mollusks on Hard or Mixed Substrates	Sand dollar (60), Nassariid snail (3)	Rippled? gravel, shell, coarser gravel (pebbles), shell in trough, many sand dollars but only to right of trough.
ASOW-22-NECCT-SP-628	A	23	Rippled (weathered) sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand dollar (26), Hermit crab (2)	Rippled sand, some sand clasts.
ASOW-22-NECCT-SP-629	A	23	Rippled sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand dollar (31), Hermit crab (2), Nassariid snail (1), Diopatra (1)	Rippled sand, shell, limited gravel, scattered sand tubes/possible tunicate.
ASOW-22-NECCT-SP-630	A	23	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Diverse Soft Sediments Epifauna	Sand dollar (11), Nassariid snail (4), Hermit crab (2), Diopatra (1)	Rippled sand with shell hash. Tracks present throughout.
ASOW-22-NECCT-SP-631	A	24	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (52), Nassariid snail (4), Hermit crab (1)	Rippled fine to medium sand, tracks and trails. Sand tubes/possible tunicate.
ASOW-22-NECCT-SP-632	A	25	Sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Diverse Soft Sediments Epifauna	Sand dollar (60), Nassariid snail (5), Diopatra (2), Hermit crab (2)	Rippled (weathered) sand with shell hash, tracks.
ASOW-22-NECCT-SP-633	A	25	Hard bottom substrate with sand and shell fragments	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	NA	Diverse Soft Sediments Epifauna	None	Sand dollar (1), Astarte (1), Nassariid snail (1), crab (1)	Coarse sand with gravel and shell fragments.
ASOW-22-NECCT-SP-634	A	26	Hard bottom substrate with shell fragments	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Mollusks on Hard or Mixed Substrates	Sand dollar (5), Nassariid snail (3), Diopatra (2), Hermit crab (1)	Coarse sand and gravel, shell, some tracks and trails, diopatra.
ASOW-22-NECCT-SP-635	A	26	Hard bottom substrate with shell fragments	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	Mobile Mollusks on Hard or Mixed Substrates	Hermit crab (2), Nassariid snail (1)	Gravel and coarse sand, shells and shell fragments. Few sand tubes/possible tunicate.
ASOW-22-NECCT-SP-636	A	26	Hard bottom substrate with shell fragments	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Burrowing Anemones	Hermit crab (4), Nassariid snail (2), Anemone (1), Diopatra (1)	Gravel and coarse sand, shell fragments, sand tubes/possible tunicate cluster in left portion of image.
ASOW-22-NECCT-SP-637	A	26	Hard bottom substrate with rippled sand and shell fragments	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	Attached Fauna	Larger Tube-Building Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Diopatra (2), Hermit crab (1), Shrimp (1), Anemone (1)	Rippled coarse sand with gravel and shell fragments, diverse epifauna.
ASOW-22-NECCT-SP-638	A	26	Hard bottom substrate with sand and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Mollusks on Hard or Mixed Substrates	Sand dollar (4), Diopatra (2), Nassariid snail (1)	Rippled (weathered) coarse sand with gravel and shell fragments, some tracks and trails, sand tube/possible tunicate at left of image.
ASOW-22-NECCT-SP-639	A	26	Hard bottom substrate with shell fragments	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	NA	Mobile Mollusks on Soft Sediments	Larger Tube-Building Fauna	Nassariid snail (1), Diopatra (1)	Coarse sand and gravel with shell fragments, some tracks and trails.
ASOW-22-NECCT-SP-640	A	26	Sand with gravel and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Attached Fauna	Inferred Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Tracks and Trails	Hermit crab (2), Finfish (1)	Coarse sand and gravel, small patch of sand tubes/possible tunicate, many tracks and trails.
ASOW-22-NECCT-SP-641	A	26	Sand with mobile gravels and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Attached Fauna	Soft Sediment Fauna	Mobile Mollusks on Hard or Mixed Substrates	Sand Dollar Bed	Nassariid snail (5), Sand dollar (1)	Sand with gravel and shell debris with sand tubes or tunicate in stalks throughout frame.
ASOW-22-NECCT-SP-642	A	26	Sand with some gravel, shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (22), Nassariid snail (3), Hermit crab (1)	Sand with some gravel, anthropogenically disturbed? Sand clasts, track and trails.
ASOW-22-NECCNJ-SP-643	A	20	Sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	Inferred Fauna	Burrowing Anemones	Tracks and Trails	Cerianthid anemones (2)	Sand with scattered shell and gravel, many tracks and trails.
ASOW-22-NECCNJ-SP-644	A	20	Sand with shell fragments	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (12), Nassariid snail (1)	Sand with shell fragments, trace of gravel.

Table 3.2-2 CMECS Substrate and Biotic Classifications for each SPI–PV Image Pair (NECCT and NECCNJ)

				CMECS Substrate Classifications				CMECS Biotic Classifications					
Station ID	Replicate	Water Depth (m)	Habitat Type	Substrate Class	Substrate Subclass	Substrate Group	Substrate Subgroup	Biotic Subclass	Co-occurring Biotic Subclass	Biotic Group	Co-occurring Biotic Group	Epifauna, Infauna & Fish Types and Counts	Comments
ASOW-22-NECCNJ-SP-645	A	21	Hard bottom substrate with sand and shell	Unconsolidated Mineral	Coarse Unconsolidated	Gravels	Pebble/Granule	Attached Fauna	NA	Attached Anemones	Mobile Mollusks on Hard or Mixed Substrates	Cerianthid anemone (2), Nassariid snail (1)	Granule bottom (90%), some coarse sand patches, shell fragments.
ASOW-22-NECCNJ-SP-646	A	21	Rippled sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (17), Nassariid snail (1)	Rippled (weathered) sand with shell hash, diopatra.
ASOW-22-NECCNJ-SP-647	A	21	Sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand dollar (40), Nassariid snail (2), Diopatra (1)	Medium sand with many sand dollars, diopatra.
ASOW-22-NECCNJ-SP-648	A	21	Medium sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	Inferred Fauna	Mobile Mollusks on Soft Sediments	Tracks and Trails	Nassariid snail (1)	Medium sand with shell hash, weathered ripples.
ASOW-22-NECCNJ-SP-649	A	21	Rippled sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	Inferred Fauna	Sand Dollar Bed	Tracks and Trails	Sand dollar (1)	Sand with weathered, small ripples. Some gravel, shell hash.
ASOW-22-NECCNJ-SP-650	A	21	Sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	Inferred Fauna	Sand Dollar Bed	Tracks and Trails	Sand dollar (4), Nassariid snail (1), Hermit crab (1), Crepidula (1)	Medium sand with weathered ripples, burrows and tracks and trails.
ASOW-22-NECCNJ-SP-651	A	21	Rippled sand with scattered shell hash and Crepidula	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	Attached Fauna	Mobile Crustaceans on Soft Sediments	Sessile Gastropods	Hermit crab (1), Crepidula, Sand dollar (1)	Rippled (weathered) medium to coarse sand, isolated Crepidula clusters.
ASOW-22-NECCNJ-SP-652	A	21	Ind	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Ind	Ind	Ind	Ind	Ind	No plan view image captured. Physical parameters derived from SPI image.

Notes:

Bolded Stations = single replicate transect stations

CMECS = Coastal and Marine Ecological Classification Standard

Ind = indeterminate

N = no

NA = not applicable

PV = plan view

SPI = sediment profile imaging

SWI = sediment-water interface

Y = yes

Table 3.2-3. CMECS Biotic Groups and Co-Occurring Groups Assigned to the NECCT and NECCNJ Images

Biotic Groups		Co-Occurring Biotic Groups		Total Replicates (Group and Co-Occurring Group Combined)	Percent of Total Designations
Group	No. of Replicates	Group	No. of Replicates		
Sand Dollar Bed	159	Sand Dollar Bed	9	168	26%
Burrowing Anemones	38	Burrowing Anemones	21	59	9%
Mobile Crustaceans on Hard or Mixed Substrates	32	Mobile Crustaceans on Hard or Mixed Substrates	20	52	8%
Larger Tube-Building Fauna	25	Larger Tube-Building Fauna	31	56	9%
Mobile Mollusks on Soft Sediments	15	Mobile Mollusks on Soft Sediments	74	89	14%
Mobile Crustaceans on Soft Sediments	10	Mobile Crustaceans on Soft Sediments	33	43	7%
Mobile Mollusks on Hard or Mixed Substrates	10	Mobile Mollusks on Hard or Mixed Substrates	13	23	4%
Ind	8	Ind	8	16	2%
Tracks and Trails	6	Tracks and Trails	29	35	5%
None	4	None	57	61	9%
Attached Anemones[a]	4			4	1%
Diverse Soft Sediments Epifauna	2	Diverse Soft Sediments Epifauna	5	7	1%
Sessile Gastropods	2	Sessile Gastropods	2	4	1%
Attached Bryozoans[a]	1			1	0%
Attached Hydroids[a]	1			1	0%
Attached Starfish	1	Attached Starfish	1	2	0%
Diverse Colonizers[a]	1			1	0%
Fecal Mounds	1	Fecal Mounds	3	4	1%
Larger Deep-Burrowing Fauna	1	Larger Deep-Burrowing Fauna	4	5	1%
Tunicate Bed[a]	1			1	0%
		Attached Sea Urchins[b]	1	1	0%
		Clam Bed[b]	9	9	1%
		Small Tube-Building Fauna[b]	2	2	0%

Notes:
ECC = Export Cable Corridor
Ind = indeterminate

[a] Not assigned as a Co-Occurring Biotic Group
[b] Not assigned as a Biotic Group

Table 3.3-1. Key Physical/Geochemical Parameters Summarized by Station (NECCNY)

Station ID	Station Average Penetration (cm)	Station Average Roughness (cm)	Station Average aRPD (cm)	Coarsest Grain Size Major Mode	Station Grain Size Descriptor Code	Ripple Presence and Size
ASOW-22-NECCNJ-SP-301	5.27	1.73	2.00	2 to 1	mS	Rm
ASOW-22-NECCNJ-SP-302	6.37	1.17	Ind	3 to 2	fS	
ASOW-22-NECCNJ-SPG-306	17.87	0.90	2.03	>4	St	Ri
ASOW-22-NECCNJ-SP-307	11.43	1.23	0.50	>4	St	
ASOW-22-NECCNJ-SPC-308	3.97	0.93	Ind	3 to 2	fS	Rs
ASOW-22-NECCNJ-SPC-309	3.60	1.57	Ind	2 to 1	mS	Rm
ASOW-22-NECCNJ-SPC-310	3.87	1.53	Ind	3 to 2	fS	Rm
ASOW-22-NECCNJ-SPC-311	4.70	1.50	Ind	3 to 2	fS	Rm
ASOW-22-NECCNJ-SPGC-312	2.60	1.30	Ind	3 to 2	fS	Rm
ASOW-22-NECCNJ-SP-313	3.17	2.87	1.20	2 to 1	mS	Rm
ASOW-22-NECCNJ-SP-315	3.60	1.53	1.55	1 to 0	cS	Ri
ASOW-22-NECCNJ-SPGC-316	7.00	1.17	1.60	3 to 2	fS	Ri
ASOW-22-NECCNJ-SPC-317	5.10	1.07	1.37	3 to 2	fS	Ri
ASOW-22-NECCNJ-SPC-318	4.57	1.83	1.75	3 to 2	fS	Ri
ASOW-22-NECCNJ-SPC-319	3.70	1.07	1.35	4 to 3	vfS	Ri
ASOW-22-NECCNJ-SPC-320	3.77	1.57	1.25	4 to 3	vfS	Ri
ASOW-22-NECCNJ-SP-321	3.30	1.77	1.70	3 to 2	fS	Rm
ASOW-22-NECCNJ-SP-322	4.43	1.23	Ind	3 to 2	fS	Ri
ASOW-22-NECCNJ-SP-324	7.33	1.40	1.70	4 to 3	vfS	Ri
ASOW-22-NECCNJ-SP-325	4.20	1.70	Ind	2 to 1	mS	Rs
ASOW-22-NECCNJ-SP-326	3.17	1.23	Ind	1 to 0	cS	Rm
ASOW-22-NECCNJ-SPG-327	4.03	1.13	3.00	2 to 1	mS	Rs
ASOW-22-NECCNJ-SP-329	16.17	1.33	0.97	>4	St	
ASOW-22-NECCNJ-SP-330	8.37	2.90	2.00	4 to 3	vfS	
ASOW-22-NECCNJ-SP-332	7.03	2.50	1.85	4 to 3	vfS	
ASOW-22-NECCNJ-SP-333	5.03	1.90	Ind	2 to 1	mS	Ri
ASOW-22-NECCNJ-SP-335	3.63	0.87	1.27	4 to 3	vfS	Ri
ASOW-22-NECCNJ-SP-338	14.03	0.63	2.63	>4	St	
ASOW-22-NECCNJ-SP-340	3.63	2.07	2.00	4 to 3	vfS	
ASOW-22-NECCNJ-SPG-341	5.43	1.33	Ind	1 to 0	cS	Rx
ASOW-22-NECCNJ-SP-342	3.33	2.17	Ind	3 to 2	fS	Ri
ASOW-22-NECCNJ-SP-344	4.77	2.90	0.75	3 to 2	fS	Rm

Table 3.3-1. Key Physical/Geochemical Parameters Summarized by Station (NECCNY)

	Station Average Penetration (cm)	Station Average Roughness (cm)	Station Average aRPD (cm)
N (measured)	32	32	20
Min	2.60	0.63	0.50
Mean	5.89	1.56	1.62
Median	4.50	1.45	1.65
Max	17.87	2.90	3.00

Ripples Presence and Wavelength	
Rs	**3**
Rm	**9**
Rl	**0**
Rx	**1**
Ri	**12**
N =	**25**

aRPD Ind **12**

Notes:

aRPD = apparent redox potential discontinuity
cS = coarse sand
fS = fine sand
Ind = indeterminate
mS = medium sand
Ri = size indeterminate
Rl = large (21–30 cm)
Rm = medium (11–20 cm)
Rs = small (0–10 cm)
Rx = extra large (>30 cm)
St = silt or finer
vfS = very fine sand

Table 3.3-2 CMECS Substrate and Biotic Classifications for each SPI–PV Image Pair (NECCNY)

				CMECS Substrate Classifications					CMECS Biotic Classifications					
Station ID	Replicate	Water Depth (m)	Habitat Type	Substrate Class	Substrate Subclass	Substrate Group	Substrate Subgroup	Biotic Subclass	Co-occurring Biotic Subclass	Biotic Group	Co-occurring Biotic Group	Epifauna, Infauna & Fish Types and Counts	Comments
ASOW-22-NECCNY-SP-301	A	20.3	Rippled sand with some gravel	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	Attached Fauna	Mobile Crustaceans on Soft Sediments	Attached Hydroids	Hydroids, Hermit crab (2)	Rippled sand with shell, some pebble/granules. Large razor clam shell bottom of image.
ASOW-22-NECCNY-SP-301	B	20.3	Rippled sand with shell fragments	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	Attached Fauna	Larger Tube-Building Fauna	Attached Hydroids	Hydroids, Diopatra (3)	Rippled sand with shells and few larger diameter pebbles.
ASOW-22-NECCNY-SP-301	C	20.3	Sand and silt with shell fragments	Unconsolidated Mineral	Fine Unconsolidated	Muddy Sand	NA	Soft Sediment Fauna	Attached Fauna	Larger Tube-Building Fauna	Attached Hydroids	Hydroids, Diopatra (2)	Sand and silt with shell fragments, hydroids and diopatra.
ASOW-22-NECCNY-SP-302	A	26.3	Hard bottom substrate	Shell Substrate	Shell Hash	NA	NA	Soft Sediment Fauna	Attached Fauna	Mussel Bed	Attached Hydroids	Mussel, Crepidula, Hydroids	Mussel bed on muddy sand.
ASOW-22-NECCNY-SP-302	C	26.3	Hard bottom substrate	Shell Substrate	Shell Hash	NA	NA	Soft Sediment Fauna	Attached Fauna	Mussel Bed	Attached Hydroids	Mussels, Hydroids, Hermit crab (2)	Mussel bed and shells on silt and sand.
ASOW-22-NECCNY-SP-302	D	26.3	Hard bottom substrate	Shell Substrate	Shell Hash	NA	NA	Soft Sediment Fauna	Attached Fauna	Mussel Bed	Attached Hydroids	Mussels, Crepidula, Hydroids, Hermit crab (2)	Mussel with hydroids on silt, many dead shells.
ASOW-22-NECCNY-SPG-306	B	22.3	Rippled fine sand/silt bottom	Unconsolidated Mineral	Fine Unconsolidated	Sandy Mud	NA	Inferred Fauna	NA	Tracks and Trails	None	None	Very turbid image, no lasers, rippled silt/very fine sand, tracks, tubes.
ASOW-22-NECCNY-SPG-306	D	22.3	Ind	Unconsolidated Mineral	Fine Unconsolidated	Sandy Mud	NA	Ind	Ind	Ind	Ind	Ind	No analyzable image. Substrate classifications inferred from sediment profile image.
ASOW-22-NECCNY-SPG-306	G	22.3	Ind	Unconsolidated Mineral	Fine Unconsolidated	Sandy Mud	NA	Ind	Ind	Ind	Ind	Ind	No analyzable PV image. Substrate classifications inferred from sediment profile image.
ASOW-22-NECCNY-SP-307	A	44.3	Hard bottom substrate	Shell Substrate	Shell Hash	NA	NA	Attached Fauna	Soft Sediment Fauna	Sessile Gastropods	Mobile Crustaceans on Soft Sediments	Crepidula, Hydroids, Hermit crab (3)	Crepidula bed (mostly dead) on silt.
ASOW-22-NECCNY-SP-307	C	44.3	Hard bottom substrate	Shell Substrate	Shell Hash	NA	NA	Attached Fauna	NA	Sessile Gastropods	None	Crepidula, Mussels, Hydroids	Crepidula/mussels on silt.
ASOW-22-NECCNY-SP-307	E	44.3	Hard bottom substrate	Shell Substrate	Shell Hash	NA	NA	Attached Fauna	NA	Sessile Gastropods	None	Crepidula, Hermit crab (1)	Crepidula on silt.
ASOW-22-NECCNY-SPC-308	B	11.9	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	None	Hermit crab (1)	Rippled sand with shell and granules in the troughs.
ASOW-22-NECCNY-SPC-308	C	11.9	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	None	NA	None	None	None	Rippled sand, no visible of evidence biota, possible live mussel.
ASOW-22-NECCNY-SPC-308	D	11.9	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Inferred Fauna	NA	Tracks and Trails	None	None	Rippled sand with shell, pebble/granules in troughs, no visible fauna, few tracks/trails.
ASOW-22-NECCNY-SPC-309	A	16.8	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Inferred Fauna	NA	Tracks and Trails	None	Nudibranch (1)	Rippled sand, unidentified organisms at edge of image.
ASOW-22-NECCNY-SPC-309	C	16.8	Rippled sand with shell fragments	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Inferred Fauna	NA	Tracks and Trails	None	None	Rippled sand with shell hash, some granules in troughs.
ASOW-22-NECCNY-SPC-309	D	16.8	Rippled sand with shell fragments	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Inferred Fauna	NA	Tracks and Trails	None	None	Rippled sand with shell, no visible fauna.
ASOW-22-NECCNY-SPC-310	A	16.8	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Inferred Fauna	NA	Tracks and Trails	None	None	Rippled sand, no visible epifauna.
ASOW-22-NECCNY-SPC-310	B	16.8	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Inferred Fauna	NA	Tracks and Trails	None	None	Rippled sand, limited sand and gravel in troughs, no obvious fauna.
ASOW-22-NECCNY-SPC-310	D	16.8	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Inferred Fauna	NA	Tracks and Trails	None	None	Rippled sand, no obvious fauna.
ASOW-22-NECCNY-SPC-311	A	18.5	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Inferred Fauna	NA	Tracks and Trails	None	None	Rippled sand, no obvious fauna.
ASOW-22-NECCNY-SPC-311	B	18.5	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Inferred Fauna	NA	Tracks and Trails	None	None	Rippled sand, no obvious fauna.
ASOW-22-NECCNY-SPC-311	C	18.5	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Inferred Fauna	NA	Tracks and Trails	None	None	Rippled sand, no obvious fauna.
ASOW-22-NECCNY-SPGC-312	A	17.8	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Inferred Fauna	NA	Tracks and Trails	None	None	Rippled sand, no obvious fauna.
ASOW-22-NECCNY-SPGC-312	B	17.8	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Inferred Fauna	NA	Tracks and Trails	None	None	Rippled sand, no obvious fauna
ASOW-22-NECCNY-SPGC-312	E	17.8	Rippled sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	None	Hermit crab (2)	Rippled sand, shells, possible diopatra.
ASOW-22-NECCNY-SP-313	C	18.8	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Inferred Fauna	Soft Sediment Fauna	Tracks and Trails	Mobile Crustaceans on Soft Sediments	Hermit crab (1)	Rippled sand with large worm tubes, tracks.
ASOW-22-NECCNY-SP-313	D	18.8	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	Larger Tube-Building Fauna	Hermit crab (2), Diopatra (1), Nassariid snail (1)	Rippled sand.
ASOW-22-NECCNY-SP-313	E	18.8	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	Mobile Mollusks on Soft Sediments	Hermit crab (3), Nassariid snail (2)	Rippled (eroded) sand with some shell.
ASOW-22-NECCNY-SP-315	A	57.8	Rippled sand with shell fragments	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Hydroid Bed	None	Hydroids	Large shell hash on complex, rippled sand, hydroids encrusted on shell fragments.
ASOW-22-NECCNY-SP-315	C	57.8	Rippled sand with mussels	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Mussel Bed	Mobile Crustaceans on Soft Sediments	Mussels, Hermit crab (1)	Live mussels on medium and coarse sand.
ASOW-22-NECCNY-SP-315	D	57.8	Rippled sand with shell fragments	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Inferred Fauna	Soft Sediment Fauna	Tracks and Trails	Mobile Crustaceans on Soft Sediments	Hydroids, Hermit crab (1)	Sand with shell fragments.

Table 3.3-2 CMECS Substrate and Biotic Classifications for each SPI–PV Image Pair (NECCNY)

				CMECS Substrate Classifications					CMECS Biotic Classifications					
Station ID	Replicate	Water Depth (m)	Habitat Type	Substrate Class	Substrate Subclass	Substrate Group	Substrate Subgroup	Biotic Subclass	Co-occurring Biotic Subclass	Biotic Group	Co-occurring Biotic Group	Epifauna, Infauna & Fish Types and Counts	Comments
ASOW-22-NECCNY-SPGC-316	C	16.3	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Ind	None	Ind	Poor image clarity due to near bottom turbidity, no lasers.
ASOW-22-NECCNY-SPGC-316	D	16.3	Sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Mobile Mollusks on Soft Sediments	None	Snail (2), Shrimp (1)	Poor image clarity due to near bottom turbidity, no lasers. PV observations inferred from SPI.
ASOW-22-NECCNY-SPGC-316	F	16.3	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Inferred Fauna	NA	Tracks and Trails	None	Ind	Poor image clarity due to near bottom turbidity, no lasers.
ASOW-22-NECCNY-SPC-317	C	20.3	Hard bottom substrate	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	Attached Sponges	Sponge, Hydroids, Hermit crab (7)	Cobbles, pebbles on sand, encrusting fauna.
ASOW-22-NECCNY-SPC-317	E	20.3	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Small Tube-Building Fauna	None	Hydroids	Rippled sand, many small tubes, only one laser.
ASOW-22-NECCNY-SPC-317	F	20.3	Rippled sand with shell fragments	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Mobile Mollusks on Soft Sediments	Small Tube-Building Fauna	Nassariid snail (3), Hermit crab (1)	Rippled sand with many small tubes, some shell fragments.
ASOW-22-NECCNY-SPC-318	A	15.8	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	Ind	Small Tube-Building Fauna	Ind	Ind	Poor image clarity due to near bottom turbidity, no lasers.
ASOW-22-NECCNY-SPC-318	B	15.8	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	Ind	Larger Deep-Burrowing Fauna	Ind	Diopatra (1)	Poor image clarity due to near bottom turbidity, rippled sand, diopatra, no lasers.
ASOW-22-NECCNY-SPC-318	C	15.8	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	Small Tube-Building Fauna	Hermit crab (1), Ind	Poor image clarity due to near bottom turbidity, no lasers, rippled sand.
ASOW-22-NECCNY-SPC-319	A	16.7		Ind	Ind	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	Ind	Small Tube-Building Fauna	Ind	Ind	Poor image clarity due to near bottom turbidity, no lasers, CMECS designations based on SPI image.
ASOW-22-NECCNY-SPC-319	B	16.7	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	Inferred Fauna	Mobile Mollusks on Soft Sediments	Fecal Mounds	Nassariid snail (1)	Rippled sand, many tubes and fecal casts on SWI, no lasers.
ASOW-22-NECCNY-SPC-319	F	16.7	Cobbles/pebbles on sand	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Attached Fauna	NA	Attached Sponges	Attached Hydroids	Hydroids, Sponge, Snail (1)	Cobbles/pebbles on sand, encrusting hydroids, sponges, no lasers.
ASOW-22-NECCNY-SPC-320	G	16.4	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	Small Tube-Building Fauna	Hermit crab (3)	Rippled sand, many tubes, no lasers.
ASOW-22-NECCNY-SPC-320	H	16.4	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	Ind	Larger Tube-Building Fauna	Ind	Ind	Poor image clarity due to near bottom turbidity, no lasers, some entries informed by SPI image.
ASOW-22-NECCNY-SPC-320	I	16.4	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	None	Diopatra (1)	Rippled sand, diopatra, poor image clarity due to near bottom turbidity, no lasers.
ASOW-22-NECCNY-SP-321	A	26.3	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Mobile Mollusks on Soft Sediments	Diopatra (4), Comb Jelly (1), Snail (1)	Rippled fine sand, diopatra, comb jelly near bottom.
ASOW-22-NECCNY-SP-321	B	26.3	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Inferred Fauna	NA	Tracks and Trails	None	None	Rippled sand, large moon snail egg case, sand clasts.
ASOW-22-NECCNY-SP-321	C	26.3	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Mobile Mollusks on Soft Sediments	Diopatra (3), Nassariid snail (3)	Rippled sand, diopatra, possible sand clasts.
ASOW-22-NECCNY-SP-322	B	27.6	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	Inferred Fauna	Mussel Bed	Tracks and Trails	Mussels, Hydroids	Rippled sand, isolated clump of mussels, small amount of granules, only one laser.
ASOW-22-NECCNY-SP-322	D	27.6	Hard bottom substrate	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Inferred Fauna	NA	Tracks and Trails	None	None	Rippled sand with shell lag and pebble/granules in troughs, only one laser.
ASOW-22-NECCNY-SP-322	E	27.6	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	None	Diopatra (1)	Rippled sand, diopatra, scattered shells. One laser visible.
ASOW-22-NECCNY-SP-324	A	15.6	Rippled fine sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	Mobile Mollusks on Soft Sediments	Hermit crab (6), Snail (6)	Rippled fine sand with many hermit crabs and snails, only one laser.
ASOW-22-NECCNY-SP-324	B	15.6	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	Inferred Fauna	Mobile Crustaceans on Soft Sediments	Tracks and Trails	Hermit crab (1), Hydroids	Rippled sand with silt, tracks.
ASOW-22-NECCNY-SP-324	D	15.6	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	Inferred Fauna	Small Tube-Building Fauna	Tracks and Trails	None	Rippled fine sand, many surface tubes.
ASOW-22-NECCNY-SP-325	A	24.3	Rippled Sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Inferred Fauna	NA	Tracks and Trails	None	None	Rippled sand, bidirectional flow.
ASOW-22-NECCNY-SP-325	D	24.3	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Mobile Mollusks on Soft Sediments	Larger Tube-Building Fauna	Nassariid snail (2), Diopatra (2)	Rippled sand with some shell hash.
ASOW-22-NECCNY-SP-325	F	24.3	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Small Tube-Building Fauna	None	None	Rippled sand, small tubes, possible plant detritus.
ASOW-22-NECCNY-SP-326	A	22.8	Coarse sand with many shells	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	Attached Fauna	Mussel Bed	Attached Hydroids	Mussels, Hydroids, Crepidula, Diopatra (1)	Coarse sand with many large and small shell fragments that provide substrate for mussels and hydroids.
ASOW-22-NECCNY-SP-326	C	22.8	Sand with shell fragments	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	Attached Fauna	Mussel Bed	Attached Hydroids	Mussels, Crepidula, Hydroids	Scattered shells on medium sand, mussels, hydroids, crepidula.
ASOW-22-NECCNY-SP-326	E	22.8	Rippled sand with shell fragments	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Attached Fauna	NA	Attached Hydroids	None	Hydroids	Coarse and medium sand with shell hash, hydroids.
ASOW-22-NECCNY-SPG-327	A	24.4	Rippled sand with shell fragments	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Attached Fauna	Soft Sediment Fauna	Attached Hydroids	Mussel Bed	Hydroids, Mussels, Crepidula	Rippled sand with shells encrusted with hydroids, some mussels.
ASOW-22-NECCNY-SPG-327	B	24.4	Hard bottom substrate	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	Attached Fauna	Mussel Bed	Attached Hydroids	Mussels, Hydroids	Sand with shell hash, some granules, mussels attached to large shell fragments.
ASOW-22-NECCNY-SPG-327	C	24.4	Hard bottom substrate	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Soft Sediment Fauna	Attached Fauna	Mussel Bed	Attached Hydroids	Mussels, Hydroids	Rippled sand with mussels and hydroids on large shell fragments, some gravel.
ASOW-22-NECCNY-SP-329	A	38.2	Silt bottom	Unconsolidated Mineral	Fine Unconsolidated	Mud	NA	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	None	Ampelisca tube mat	Ampelisca tube mat on silt, poor water clarity due to turbidity.
ASOW-22-NECCNY-SP-329	B	38.2	Silt bottom	Unconsolidated Mineral	Fine Unconsolidated	Mud	NA	Soft Sediment Fauna	NA	Hydroid Bed	None	Hydroids	Silt bottom with hydroids, no lasers.
ASOW-22-NECCNY-SP-329	C	38.2	Silt bottom	Unconsolidated Mineral	Fine Unconsolidated	Mud	NA	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	None	Snail (1)	Ampelisca tubes, with some tracks. Poor water clarity. No lasers visible.

Table 3.3-2 CMECS Substrate and Biotic Classifications for each SPI–PV Image Pair (NECCNY)

				CMECS Substrate Classifications				CMECS Biotic Classifications					
Station ID	Replicate	Water Depth (m)	Habitat Type	Substrate Class	Substrate Subclass	Substrate Group	Substrate Subgroup	Biotic Subclass	Co-occurring Biotic Subclass	Biotic Group	Co-occurring Biotic Group	Epifauna, Infauna & Fish Types and Counts	Comments
ASOW-22-NECCNY-SP-330	A	21.4	Very fine sand/silt bottom	Unconsolidated Mineral	Fine Unconsolidated	Muddy Sand	NA	Soft Sediment Fauna	NA	Larger Deep-Burrowing Fauna	None	Snail (1), Hermit crab (1)	Image obscured by turbidity, SPI images informs PV data. No lasers
ASOW-22-NECCNY-SP-330	B	21.4	Soft bottom	Unconsolidated Mineral	Fine Unconsolidated	Sandy Mud	NA	Inferred Fauna	NA	Tracks and Trails	None	None	Silt bottom with burrows, tracks, and trails.
ASOW-22-NECCNY-SP-330	D	21.4	Silt bottom	Unconsolidated Mineral	Fine Unconsolidated	Sandy Mud	NA	Soft Sediment Fauna	Inferred Fauna	Mobile Crustaceans on Soft Sediments	Tracks and Trails	Hermit crab (2)	Soft sediment with tubes, tracks, and trails.
ASOW-22-NECCNY-SP-332	A	21.8	Soft Bottom	Unconsolidated Mineral	Fine Unconsolidated	Muddy Sand	NA	Soft Sediment Fauna	Inferred Fauna	Mobile Crustaceans on Soft Sediments	Tracks and Trails	Hermit crab (2)	Silt bottom with burrows, tubes, tracks, and trails.
ASOW-22-NECCNY-SP-332	D	21.8	Hard bottom substrate	Shell Substrate	Shell Hash	NA	NA	Attached Fauna	NA	Attached Hydroids	None	Hydroids	Clam shells on very fine sand/silt.
ASOW-22-NECCNY-SP-332	H	21.8	Soft bottom	Unconsolidated Mineral	Fine Unconsolidated	Muddy Sand	NA	Attached Fauna	Soft Sediment Fauna	Attached Hydroids	Mobile Crustaceans on Soft Sediments	Hydroids, Hermit crab (1)	Image obscured by turbidity, SPI image informs PV data.
ASOW-22-NECCNY-SP-333	A	40.3	Rippled sand with shell fragments	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	Mussel Bed	Hermit crab (3), Mussels, Hydroids	Cross rippled sand, gravel, shell in troughs, some live mussels.
ASOW-22-NECCNY-SP-333	B	40.3	Rippled sand with shell fragments	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	None	Hermit crab (2)	Cross-rippled sand, shell hash, one laser.
ASOW-22-NECCNY-SP-333	D	40.3	Rippled sand with shell fragments	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Inferred Fauna	Soft Sediment Fauna	Tracks and Trails	Hydroid Bed	Hydroids	Rippled sand with non-living mussel shells, many trails, hydroids attached to shells.
ASOW-22-NECCNY-SP-335	A	20.8	Rippled sand and silt	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Inferred Fauna	NA	Tracks and Trails	None	None	Rippled fine sand/silt, possible hermit crabs and diopatra.
ASOW-22-NECCNY-SP-335	B	20.8	Rippled sand and silt	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	Inferred Fauna	Larger Tube-Building Fauna	Tracks and Trails	Hermit crab (1), Diopatra	Rippled fine and silt, many tubes, tracks, trails, only one laser.
ASOW-22-NECCNY-SP-335	G	20.8	Rippled sand with silt	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Mobile Crustaceans on Soft Sediments	Diopatra (3), Hermit crab (1)	Rippled sand and silt diopatra, shell fragments.
ASOW-22-NECCNY-SP-338	A	25.7	Silt bottom	Unconsolidated Mineral	Fine Unconsolidated	Mud	NA	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	None	None	Silt with ampelisca tube mat, no lasers.
ASOW-22-NECCNY-SP-338	C	25.7	Silt bottom	Unconsolidated Mineral	Fine Unconsolidated	Mud	NA	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	None	Finfish (1)	Silt bottom with extensive tubes.
ASOW-22-NECCNY-SP-338	D	25.7	Silt bottom	Unconsolidated Mineral	Fine Unconsolidated	Mud	NA	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	None	Hermit crab (1)	Silt bottom with tube mat, no lasers.
ASOW-22-NECCNY-SP-340	A	26.2	Sand with shells	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Inferred Fauna	Soft Sediment Fauna	Tracks and Trails	Hydroid Bed	Hydroids	Very fine sand, silt with many large shells, no lasers.
ASOW-22-NECCNY-SP-340	B	26.2	Sand/silt with shell fragments	Unconsolidated Mineral	Fine Unconsolidated	Muddy Sand	NA	Soft Sediment Fauna	NA	Mobile Mollusks on Soft Sediments	Hydroid Bed	Snail (1), Hydroids	Very fine/fine sand and silt with large shell fragments, no lasers.
ASOW-22-NECCNY-SP-340	D	26.2	Shell on sand/silt	Shell Substrate	Shell Hash	NA	NA	Attached Fauna	Soft Sediment Fauna	Attached Hydroids	Mobile Crustaceans on Soft Sediments	Hydroids	Shell on sand and silt, no lasers.
ASOW-22-NECCNY-SPG-341	A	8	Rippled sand with shell hash	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	None	Hermit crab (1)	Rippled sand with shell hash mostly mussel shell debris and few granules in ripple troughs. One ripple crest caught in frame.
ASOW-22-NECCNY-SPG-341	B	8	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Inferred Fauna	NA	Tracks and Trails	None	Astarte clam (1)	Rippled sand with trace of shell hash and gravel in ripple troughs. Well-defined ripple crests.
ASOW-22-NECCNY-SPG-341	C	8	Rippled sand with shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	None	Hermit crab (4)	Rippled sand with shell hash and trace of granules in ripple trough. Ripple wavelength is indeterminate, only one captured in frame.
ASOW-22-NECCNY-SP-342	A	28.3	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	None	None	Rippled sand, several large tubes.
ASOW-22-NECCNY-SP-342	D	28.3	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Mussel Bed	None	Mussels (3)	Rippled sand with small mussels attached.
ASOW-22-NECCNY-SP-342	F	28.3	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	Inferred Fauna	Mussel Bed	Tracks and Trails	Mussels, Nassariid snail (1), Hermit crab (1)	Chaotic ripples, two mussel clumps, tracks and trails.
ASOW-22-NECCNY-SP-344	A	17	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	None	None	Rippled sand with shell hash. Ripples have variable wavelengths, few tubes in troughs.
ASOW-22-NECCNY-SP-344	B	17	Rippled sand	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	None	None	Rippled sand with trace of shell hash. Ripples are variable in size. Large tubes.
ASOW-22-NECCNY-SP-344	C	17	Rippled sand with shell	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Burrowing Anemones	Diopatra (2), Anemone (1)	Uneven rippled sand with shell hash in ripple troughs. Some tubes.

Notes:
CMECS = Coastal and Marine Ecological Classification Standard
Ind = indeterminate
N = no
NA = not applicable
PV = plan view
SPI = sediment profile imaging
SWI = sediment-water interface
Y = yes

Table 3.3-3. CMEC Biotic Groups and Co-Occurring Groups Assigned to the NECCNY Images

Biotic Groups		Co-Occurring Biotic Groups		Total Replicates (Group and Co-Occurring Group Combined)	Percent of Total Designations
Group	No. of Replicates	Group	No. of Replicates		
Tracks and Trails	24	Tracks and Trails	7	31	16%
Larger Tube-Building Fauna	18	Larger Tube-Building Fauna	2	20	10%
Mobile Crustaceans on Soft Sediments	15	Mobile Crustaceans on Soft Sediments	7	22	11%
Mussel Bed	11	Mussel Bed	2	13	7%
Attached Hydroids	5	Attached Hydroids	11	16	8%
Mobile Mollusks on Soft Sediments	5	Mobile Mollusks on Soft Sediments	4	9	5%
Small Tube-Building Fauna	5	Small Tube-Building Fauna	3	8	4%
Ind	3	Ind	6	9	5%
Sessile Gastropods[a]	3			3	2%
Hydroid Bed	2	Hydroid Bed	3	5	3%
Larger Deep-Burrowing Fauna[a]	2			2	1%
Attached Sponges	1	Attached Sponges	1	2	1%
Mobile Crustaceans on Hard or Mixed Substrates[a]	1			1	1%
None	1	None	48	49	26%
		Burrowing Anemones[b]	1	1	1%
		Fecal Mounds[b]	1	1	1%

Notes:

Ind = indeterminate

[a] Not assigned as a Co-Occurring Biotic Group

[b] Not assigned as a Biotic Group

Appendix A

SPI–PV Stations Sampled and Field Forms

- Appendix A1. Stations Sampled
- Appendix A2. SPI–PV Collection Forms

Appendix A1

Stations Sampled

Stations Sampled

Station ID	Replicate	Subarea	Image Collection Date	Image Collection Time (UTC)	Water Depth (m)	Easting (m)	Northing (m)
ASOW0549-22-OCS-SP-418	A	OCS-A 0549	6/6/2022	02:07	24	590487.295	4391109.610
ASOW0549-22-OCS-SP-418	B	OCS-A 0549	6/6/2022	02:09	24	590491.487	4391115.081
ASOW0549-22-OCS-SP-418	C	OCS-A 0549	6/6/2022	02:10	24	590499.380	4391119.704
ASOW0549-22-OCS-SP-418	D	OCS-A 0549	6/6/2022	02:12	24	590502.455	4391124.916
ASOW0549-22-OCS-SP-418	E	OCS-A 0549	6/6/2022	02:13	24	590510.216	4391126.099
ASOW0549-22-OCS-SP-421	A	OCS-A 0549	6/6/2022	02:58	24	590496.026	4390172.301
ASOW0549-22-OCS-SP-421	B	OCS-A 0549	6/6/2022	03:00	24	590502.780	4390178.102
ASOW0549-22-OCS-SP-421	C	OCS-A 0549	6/6/2022	03:01	24	590509.900	4390182.103
ASOW0549-22-OCS-SP-421	D	OCS-A 0549	6/6/2022	03:03	24	590512.446	4390188.598
ASOW0549-22-OCS-SP-421	E	OCS-A 0549	6/6/2022	03:05	24	590520.243	4390193.804
ASOW0549-22-OCS-SP-422	A	OCS-A 0549	6/6/2022	04:13	24	589809.882	4390161.444
ASOW0549-22-OCS-SP-422	B	OCS-A 0549	6/6/2022	04:16	24	589795.176	4390155.155
ASOW0549-22-OCS-SP-422	C	OCS-A 0549	6/6/2022	04:17	24	589789.813	4390135.347
ASOW0549-22-OCS-SP-422	D	OCS-A 0549	6/6/2022	04:20	24	589814.163	4390131.241
ASOW0549-22-OCS-SP-422	E	OCS-A 0549	6/6/2022	04:22	24	589818.858	4390147.090
ASOW0549-22-OCS-SP-429	A	OCS-A 0549	6/6/2022	10:57	24	587945.319	4385587.354
ASOW0549-22-OCS-SP-429	B	OCS-A 0549	6/6/2022	11:00	24	587948.214	4385597.604
ASOW0549-22-OCS-SP-429	C	OCS-A 0549	6/6/2022	11:02	24	587954.933	4385607.276
ASOW0549-22-OCS-SP-429	D	OCS-A 0549	6/6/2022	11:06	24	587964.066	4385608.823
ASOW0549-22-OCS-SP-429	E	OCS-A 0549	6/6/2022	11:08	24	587969.936	4385597.848
ASOW0549-22-OCS-SP-430	A	OCS-A 0549	6/6/2022	11:51	24	589003.122	4384664.757
ASOW0549-22-OCS-SP-430	B	OCS-A 0549	6/6/2022	11:53	24	588995.196	4384657.044
ASOW0549-22-OCS-SP-430	C	OCS-A 0549	6/6/2022	11:55	24	589000.999	4384649.519
ASOW0549-22-OCS-SP-430	D	OCS-A 0549	6/6/2022	11:57	24	589009.226	4384646.027
ASOW0549-22-OCS-SP-430	E	OCS-A 0549	6/6/2022	12:00	24	589017.922	4384662.546
ASOW0549-22-OCS-SP-431	A	OCS-A 0549	6/6/2022	13:08	22	584375.925	4384170.523
ASOW0549-22-OCS-SP-431	B	OCS-A 0549	6/6/2022	13:11	22	584368.284	4384176.267
ASOW0549-22-OCS-SP-431	C	OCS-A 0549	6/6/2022	13:14	22	584363.517	4384168.010
ASOW0549-22-OCS-SP-431	D	OCS-A 0549	6/6/2022	13:15	22	584353.245	4384173.620
ASOW0549-22-OCS-SP-431	E	OCS-A 0549	6/6/2022	13:17	22	584352.382	4384162.580
ASOW0549-22-OCS-SP-434	A	OCS-A 0549	6/12/2022	00:24	25	587888.712	4382780.440
ASOW0549-22-OCS-SP-434	B	OCS-A 0549	6/12/2022	00:26	25	587879.604	4382776.946
ASOW0549-22-OCS-SP-434	C	OCS-A 0549	6/12/2022	00:27	25	587872.290	4382773.789
ASOW0549-22-OCS-SP-434	D	OCS-A 0549	6/12/2022	00:29	25	587864.973	4382774.515
ASOW0549-22-OCS-SP-434	E	OCS-A 0549	6/12/2022	00:30	25	587857.043	4382774.767
ASOW0549-22-OCS-SP-437	A	OCS-A 0549	6/11/2022	22:42	17	581611.907	4381993.247
ASOW0549-22-OCS-SP-437	B	OCS-A 0549	6/11/2022	22:44	17	581610.518	4381983.964
ASOW0549-22-OCS-SP-437	C	OCS-A 0549	6/11/2022	22:45	17	581607.756	4381975.219
ASOW0549-22-OCS-SP-437	D	OCS-A 0549	6/11/2022	22:47	17	581601.581	4381966.338
ASOW0549-22-OCS-SP-437	E	OCS-A 0549	6/11/2022	22:48	17	581600.535	4381958.768
ASOW0549-22-OCS-SP-438	A	OCS-A 0549	6/12/2022	01:14	25	588435.271	4381586.416
ASOW0549-22-OCS-SP-438	B	OCS-A 0549	6/12/2022	01:15	25	588424.712	4381582.212
ASOW0549-22-OCS-SP-438	C	OCS-A 0549	6/12/2022	01:17	25	588415.431	4381585.762
ASOW0549-22-OCS-SP-438	D	OCS-A 0549	6/12/2022	01:18	25	588406.849	4381582.954
ASOW0549-22-OCS-SP-438	E	OCS-A 0549	6/12/2022	01:20	25	588399.268	4381581.654

Stations Sampled

Station ID	Replicate	Subarea	Image Collection Date	Image Collection Time (UTC)	Water Depth (m)	Easting (m)	Northing (m)
ASOW0549-22-OCS-SP-439	A	OCS-A 0549	6/6/2022	14:26	24	586507.819	4381344.668
ASOW0549-22-OCS-SP-439	B	OCS-A 0549	6/6/2022	14:29	24	586510.553	4381358.741
ASOW0549-22-OCS-SP-439	C	OCS-A 0549	6/6/2022	14:32	24	586522.327	4381367.632
ASOW0549-22-OCS-SP-439	D	OCS-A 0549	6/6/2022	14:36	24	586537.696	4381362.590
ASOW0549-22-OCS-SP-439	E	OCS-A 0549	6/6/2022	14:39	24	586531.135	4381342.248
ASOW0549-22-OCS-SP-442	A	OCS-A 0549	6/11/2022	21:38	20	581626.564	4380081.237
ASOW0549-22-OCS-SP-442	B	OCS-A 0549	6/11/2022	21:40	20	581617.639	4380076.597
ASOW0549-22-OCS-SP-442	C	OCS-A 0549	6/11/2022	21:42	20	581612.068	4380067.617
ASOW0549-22-OCS-SP-442	D	OCS-A 0549	6/11/2022	21:43	20	581608.893	4380058.370
ASOW0549-22-OCS-SP-442	E	OCS-A 0549	6/11/2022	21:45	20	581604.974	4380052.810
ASOW0549-22-OCS-SP-443	A	OCS-A 0549	6/11/2022	20:41	24	582790.832	4379768.502
ASOW0549-22-OCS-SP-443	B	OCS-A 0549	6/11/2022	20:42	24	582805.654	4379771.488
ASOW0549-22-OCS-SP-443	C	OCS-A 0549	6/11/2022	20:44	24	582814.162	4379759.752
ASOW0549-22-OCS-SP-443	D	OCS-A 0549	6/11/2022	20:46	24	582811.413	4379747.395
ASOW0549-22-OCS-SP-443	E	OCS-A 0549	6/11/2022	20:47	24	582795.964	4379746.062
ASOW0549-22-OCS-SP-444	A	OCS-A 0549	6/12/2022	02:31	25	590737.610	4379368.495
ASOW0549-22-OCS-SP-444	B	OCS-A 0549	6/12/2022	02:33	25	590731.732	4379376.658
ASOW0549-22-OCS-SP-444	C	OCS-A 0549	6/12/2022	02:35	25	590722.407	4379374.235
ASOW0549-22-OCS-SP-444	D	OCS-A 0549	6/12/2022	02:37	25	590719.027	4379379.667
ASOW0549-22-OCS-SP-444	E	OCS-A 0549	6/12/2022	02:41	25	590714.317	4379374.496
ASOW0549-22-OCS-SP-445	A	OCS-A 0549	6/11/2022	17:14	25	587453.573	4379243.674
ASOW0549-22-OCS-SP-445	B	OCS-A 0549	6/11/2022	17:16	25	587454.709	4379236.701
ASOW0549-22-OCS-SP-445	C	OCS-A 0549	6/11/2022	17:17	25	587454.819	4379228.926
ASOW0549-22-OCS-SP-445	D	OCS-A 0549	6/11/2022	17:19	25	587448.663	4379220.969
ASOW0549-22-OCS-SP-445	E	OCS-A 0549	6/11/2022	17:21	25	587445.639	4379213.860
ASOW0549-22-OCS-SP-447	A	OCS-A 0549	6/11/2022	18:19	24	585757.850	4378512.242
ASOW0549-22-OCS-SP-447	B	OCS-A 0549	6/11/2022	18:21	24	585746.709	4378500.840
ASOW0549-22-OCS-SP-447	C	OCS-A 0549	6/11/2022	18:23	24	585739.110	4378517.255
ASOW0549-22-OCS-SP-447	D	OCS-A 0549	6/11/2022	18:25	24	585745.343	4378509.140
ASOW0549-22-OCS-SP-447	E	OCS-A 0549	6/11/2022	18:28	24	585729.091	4378507.683
ASOW0549-22-OCS-SP-449	A	OCS-A 0549	6/11/2022	19:33	23	581993.039	4378294.436
ASOW0549-22-OCS-SP-449	B	OCS-A 0549	6/11/2022	19:35	23	581989.397	4378284.161
ASOW0549-22-OCS-SP-449	C	OCS-A 0549	6/11/2022	19:37	23	581980.873	4378280.690
ASOW0549-22-OCS-SP-449	D	OCS-A 0549	6/11/2022	19:39	23	581975.251	4378273.127
ASOW0549-22-OCS-SP-449	E	OCS-A 0549	6/11/2022	19:40	23	581996.681	4378278.873
ASOW0549-22-OCS-SP-450	A	OCS-A 0549	6/11/2022	16:07	23	588828.932	4377114.986
ASOW0549-22-OCS-SP-450	B	OCS-A 0549	6/11/2022	16:08	22	588831.991	4377106.972
ASOW0549-22-OCS-SP-450	C	OCS-A 0549	6/11/2022	16:10	22	588833.069	4377099.040
ASOW0549-22-OCS-SP-450	D	OCS-A 0549	6/11/2022	16:12	22	588825.602	4377094.861
ASOW0549-22-OCS-SP-450	E	OCS-A 0549	6/11/2022	16:14	22	588826.955	4377087.783
ASOW0549-22-OCS-SP-455	A	OCS-A 0549	6/11/2022	12:51	23	587279.371	4374847.755
ASOW0549-22-OCS-SP-455	B	OCS-A 0549	6/11/2022	12:54	23	587298.661	4374857.681
ASOW0549-22-OCS-SP-455	C	OCS-A 0549	6/11/2022	12:56	23	587308.376	4374845.667
ASOW0549-22-OCS-SP-455	D	OCS-A 0549	6/11/2022	12:59	23	587307.967	4374833.899
ASOW0549-22-OCS-SP-455	E	OCS-A 0549	6/11/2022	13:01	23	587284.811	4374834.772

Stations Sampled

Station ID	Replicate	Subarea	Image Collection Date	Image Collection Time (UTC)	Water Depth (m)	Easting (m)	Northing (m)
ASOW0549-22-OCS-SP-460	A	OCS-A 0549	6/11/2022	11:45	25	585805.063	4371388.446
ASOW0549-22-OCS-SP-460	B	OCS-A 0549	6/11/2022	11:48	25	585791.295	4371402.993
ASOW0549-22-OCS-SP-460	C	OCS-A 0549	6/11/2022	11:50	25	585798.116	4371421.146
ASOW0549-22-OCS-SP-460	D	OCS-A 0549	6/11/2022	11:53	25	585818.533	4371413.477
ASOW0549-22-OCS-SP-460	E	OCS-A 0549	6/11/2022	11:56	25	585818.067	4371398.933
ASOW0549-22-OCS-SP-465	A	OCS-A 0549	6/11/2022	10:34	25	588499.785	4368298.380
ASOW0549-22-OCS-SP-465	B	OCS-A 0549	6/11/2022	10:36	25	588501.840	4368309.731
ASOW0549-22-OCS-SP-465	C	OCS-A 0549	6/11/2022	10:39	25	588516.703	4368314.605
ASOW0549-22-OCS-SP-465	D	OCS-A 0549	6/11/2022	10:41	25	588530.568	4368301.380
ASOW0549-22-OCS-SP-465	E	OCS-A 0549	6/11/2022	10:45	25	588516.040	4368291.871
ASOW0549-22-OCS-SP-468	A	OCS-A 0549	6/11/2022	09:05	24	581879.458	4365261.191
ASOW0549-22-OCS-SP-468	B	OCS-A 0549	6/11/2022	09:08	24	581876.649	4365271.430
ASOW0549-22-OCS-SP-468	C	OCS-A 0549	6/11/2022	09:10	24	581887.438	4365280.807
ASOW0549-22-OCS-SP-468	D	OCS-A 0549	6/11/2022	09:14	24	581901.100	4365270.852
ASOW0549-22-OCS-SP-468	E	OCS-A 0549	6/11/2022	09:16	24	581902.737	4365261.096
ASOW0549-22-OCS-SP-471	A	OCS-A 0549	6/7/2022	08:37	28	582350.238	4363487.569
ASOW0549-22-OCS-SP-471	B	OCS-A 0549	6/7/2022	08:40	28	582357.837	4363499.793
ASOW0549-22-OCS-SP-471	C	OCS-A 0549	6/7/2022	08:43	28	582343.751	4363508.519
ASOW0549-22-OCS-SP-471	D	OCS-A 0549	6/7/2022	08:45	28	582336.922	4363500.444
ASOW0549-22-OCS-SP-471	E	OCS-A 0549	6/7/2022	08:51	28	582334.837	4363489.426
ASOW0549-22-OCS-SPC-474	A	OCS-A 0549	5/30/2022	10:47	28	593252.583	4358349.808
ASOW0549-22-OCS-SPC-474	B	OCS-A 0549	5/30/2022	10:50	28	593267.288	4358364.663
ASOW0549-22-OCS-SPC-474	C	OCS-A 0549	5/30/2022	10:53	28	593281.819	4358358.625
ASOW0549-22-OCS-SPC-474	D	OCS-A 0549	5/30/2022	10:58	28	593283.117	4358346.566
ASOW0549-22-OCS-SPC-474	E	OCS-A 0549	5/30/2022	11:02	28	593270.621	4358328.987
ASOW0549-22-OCS-SPC-475	A	OCS-A 0549	5/30/2022	11:30	28	593588.475	4358355.018
ASOW0549-22-OCS-SPC-475	B	OCS-A 0549	5/30/2022	11:34	28	593571.614	4358346.371
ASOW0549-22-OCS-SPC-475	C	OCS-A 0549	5/30/2022	11:37	28	593568.644	4358325.920
ASOW0549-22-OCS-SPC-475	D	OCS-A 0549	5/30/2022	11:40	28	593595.181	4358324.823
ASOW0549-22-OCS-SPC-475	E	OCS-A 0549	5/30/2022	11:44	28	593599.213	4358345.049
ASOW0549-22-OCS-SPC-477	A	OCS-A 0549	5/30/2022	13:07	28	593288.692	4358050.047
ASOW0549-22-OCS-SPC-477	B	OCS-A 0549	5/30/2022	13:11	28	593264.638	4358038.382
ASOW0549-22-OCS-SPC-477	C	OCS-A 0549	5/30/2022	13:14	28	593253.167	4358061.810
ASOW0549-22-OCS-SPC-477	D	OCS-A 0549	5/30/2022	13:21	28	593286.426	4358070.104
ASOW0549-22-OCS-SPC-477	E	OCS-A 0549	5/30/2022	13:25	28	593269.624	4358076.287
ASOW0549-22-OCS-SPC-478	A	OCS-A 0549	5/30/2022	12:19	29	593593.892	4358044.914
ASOW0549-22-OCS-SPC-478	B	OCS-A 0549	5/30/2022	12:22	29	593583.345	4358031.839
ASOW0549-22-OCS-SPC-478	C	OCS-A 0549	5/30/2022	12:26	29	593569.252	4358036.617
ASOW0549-22-OCS-SPC-478	D	OCS-A 0549	5/30/2022	12:31	29	593557.391	4358058.547
ASOW0549-22-OCS-SPC-478	E	OCS-A 0549	5/30/2022	12:34	29	593576.832	4358065.967
ASOW0549-22-OCS-SPG-427	A	OCS-A 0549	6/6/2022	10:04	25	589199.253	4385973.200
ASOW0549-22-OCS-SPG-427	B	OCS-A 0549	6/6/2022	10:06	25	589189.369	4385985.113
ASOW0549-22-OCS-SPG-427	C	OCS-A 0549	6/6/2022	10:09	25	589182.638	4385977.498
ASOW0549-22-OCS-SPG-427	D	OCS-A 0549	6/6/2022	10:13	25	589190.084	4385959.057
ASOW0549-22-OCS-SPG-427	E	OCS-A 0549	6/6/2022	10:16	25	589197.413	4385954.305

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Station ID	Replicate	Subarea	Image Collection Date	Image Collection Time (UTC)	Water Depth (m)	Easting (m)	Northing (m)
ASOW0549-22-OCS-SPG-453	A	OCS-A 0549	6/11/2022	14:59	25	590284.791	4375973.635
ASOW0549-22-OCS-SPG-453	B	OCS-A 0549	6/11/2022	15:01	25	590298.919	4375970.402
ASOW0549-22-OCS-SPG-453	C	OCS-A 0549	6/11/2022	15:04	25	590311.843	4375980.884
ASOW0549-22-OCS-SPG-453	D	OCS-A 0549	6/11/2022	15:07	25	590305.757	4376001.198
ASOW0549-22-OCS-SPG-453	E	OCS-A 0549	6/11/2022	15:09	25	590283.861	4375998.202
ASOW0549-22-OCS-SPGC-476	A	OCS-A 0549	5/30/2022	10:07	28	593416.699	4358202.239
ASOW0549-22-OCS-SPGC-476	B	OCS-A 0549	5/30/2022	10:12	28	593422.956	4358191.373
ASOW0549-22-OCS-SPGC-476	C	OCS-A 0549	5/30/2022	10:16	28	593439.845	4358191.852
ASOW0549-22-OCS-SPGC-476	D	OCS-A 0549	5/30/2022	10:18	28	593449.841	4358199.022
ASOW0549-22-OCS-SPGC-476	E	OCS-A 0549	5/30/2022	10:21	28	593427.294	4358220.163
ASOW-22-NECCNJ-SP-358	A	NECCNJ	6/3/2022	20:27	23	595626.740	4455281.121
ASOW-22-NECCNJ-SP-358	B	NECCNJ	6/3/2022	20:29	23	595626.291	4455272.920
ASOW-22-NECCNJ-SP-358	C	NECCNJ	6/3/2022	20:31	23	595620.745	4455262.880
ASOW-22-NECCNJ-SP-358	D	NECCNJ	6/3/2022	20:33	23	595633.728	4455260.463
ASOW-22-NECCNJ-SP-358	E	NECCNJ	6/3/2022	20:34	23	595636.586	4455251.704
ASOW-22-NECCNJ-SP-359	A	NECCNJ	6/3/2022	06:50	20	591953.696	4454944.916
ASOW-22-NECCNJ-SP-359	B	NECCNJ	6/3/2022	06:53	20	591943.459	4454956.415
ASOW-22-NECCNJ-SP-359	C	NECCNJ	6/3/2022	06:56	20	591928.726	4454944.372
ASOW-22-NECCNJ-SP-359	D	NECCNJ	6/3/2022	06:58	20	591930.795	4454929.190
ASOW-22-NECCNJ-SP-359	E	NECCNJ	6/3/2022	07:01	20	591948.209	4454925.785
ASOW-22-NECCNJ-SPC-362	A	NECCNJ	6/3/2022	16:51	22	594506.583	4453718.445
ASOW-22-NECCNJ-SPC-362	B	NECCNJ	6/3/2022	16:53	22	594513.544	4453709.579
ASOW-22-NECCNJ-SPC-362	C	NECCNJ	6/3/2022	16:55	22	594519.764	4453709.522
ASOW-22-NECCNJ-SPC-362	D	NECCNJ	6/3/2022	16:57	22	594527.807	4453705.488
ASOW-22-NECCNJ-SPC-362	E	NECCNJ	6/3/2022	16:59	22	594535.078	4453704.075
ASOW-22-NECCNJ-SPC-363	A	NECCNJ	6/3/2022	17:32	23	594814.663	4453696.711
ASOW-22-NECCNJ-SPC-363	B	NECCNJ	6/3/2022	17:37	23	594819.508	4453701.995
ASOW-22-NECCNJ-SPC-363	C	NECCNJ	6/3/2022	17:39	23	594828.726	4453709.199
ASOW-22-NECCNJ-SPC-363	D	NECCNJ	6/3/2022	17:41	23	594832.742	4453716.709
ASOW-22-NECCNJ-SPC-363	E	NECCNJ	6/3/2022	17:42	23	594839.170	4453722.286
ASOW-22-NECCNJ-SP-364	A	NECCNJ	6/3/2022	14:57	12	585808.827	4453692.607
ASOW-22-NECCNJ-SP-364	B	NECCNJ	6/3/2022	15:00	12	585804.146	4453708.558
ASOW-22-NECCNJ-SP-364	C	NECCNJ	6/3/2022	15:03	12	585779.785	4453705.079
ASOW-22-NECCNJ-SP-364	D	NECCNJ	6/3/2022	15:06	12	585777.979	4453689.964
ASOW-22-NECCNJ-SP-364	E	NECCNJ	6/3/2022	15:09	12	585802.267	4453681.244
ASOW-22-NECCNJ-SPC-365	A	NECCNJ	6/3/2022	17:55	23	594669.991	4453544.535
ASOW-22-NECCNJ-SPC-365	B	NECCNJ	6/3/2022	17:57	23	594678.076	4453549.094
ASOW-22-NECCNJ-SPC-365	C	NECCNJ	6/3/2022	17:59	23	594685.136	4453556.621
ASOW-22-NECCNJ-SPC-365	D	NECCNJ	6/3/2022	18:01	23	594696.112	4453560.205
ASOW-22-NECCNJ-SPC-365	E	NECCNJ	6/3/2022	18:02	23	594688.703	4453567.347
ASOW-22-NECCNJ-SP-366	A	NECCNJ	6/3/2022	10:16	18	588406.635	4453411.913
ASOW-22-NECCNJ-SP-366	B	NECCNJ	6/3/2022	10:19	18	588431.462	4453411.542
ASOW-22-NECCNJ-SP-366	C	NECCNJ	6/3/2022	10:22	18	588434.238	4453444.385
ASOW-22-NECCNJ-SP-366	D	NECCNJ	6/3/2022	10:24	18	588420.376	4453444.215
ASOW-22-NECCNJ-SP-366	E	NECCNJ	6/3/2022	10:27	18	588403.192	4453424.391

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Station ID	Replicate	Subarea	Image Collection Date	Image Collection Time (UTC)	Water Depth (m)	Easting (m)	Northing (m)
ASOW-22-NECCNJ-SPC-368	A	NECCNJ	6/3/2022	18:40	23	594827.574	4453379.804
ASOW-22-NECCNJ-SPC-368	B	NECCNJ	6/3/2022	18:42	23	594841.138	4453382.136
ASOW-22-NECCNJ-SPC-368	C	NECCNJ	6/3/2022	18:44	23	594838.082	4453389.915
ASOW-22-NECCNJ-SPC-368	D	NECCNJ	6/3/2022	18:45	23	594850.629	4453391.291
ASOW-22-NECCNJ-SPC-368	E	NECCNJ	6/3/2022	18:47	23	594845.958	4453397.576
ASOW-22-NECCNJ-SPG-357	A	NECCNJ	6/3/2022	08:52	22	593717.297	4455418.630
ASOW-22-NECCNJ-SPG-357	B	NECCNJ	6/3/2022	08:54	22	593708.544	4455414.255
ASOW-22-NECCNJ-SPG-357	C	NECCNJ	6/3/2022	08:57	22	593709.030	4455397.901
ASOW-22-NECCNJ-SPG-357	D	NECCNJ	6/3/2022	09:00	22	593721.505	4455390.729
ASOW-22-NECCNJ-SPG-357	E	NECCNJ	6/3/2022	09:03	22	593731.698	4455403.884
ASOW-22-NECCNJ-SPG-371	A	NECCNJ	6/3/2022	13:11	10	585401.800	4451863.834
ASOW-22-NECCNJ-SPG-371	B	NECCNJ	6/3/2022	13:13	10	585393.769	4451868.308
ASOW-22-NECCNJ-SPG-371	C	NECCNJ	6/3/2022	13:15	10	585397.378	4451854.053
ASOW-22-NECCNJ-SPG-371	D	NECCNJ	6/3/2022	13:17	10	585390.676	4451858.007
ASOW-22-NECCNJ-SPG-371	E	NECCNJ	6/3/2022	13:19	10	585383.640	4451851.439
ASOW-22-NECCNJ-SPG-371	F	NECCNJ	6/3/2022	14:07	10	585399.037	4451840.578
ASOW-22-NECCNJ-SPG-371	G	NECCNJ	6/3/2022	14:10	10	585413.857	4451858.566
ASOW-22-NECCNJ-SPG-371	H	NECCNJ	6/3/2022	14:12	10	585406.645	4451874.975
ASOW-22-NECCNJ-SPG-371	I	NECCNJ	6/3/2022	14:15	10	585391.555	4451878.752
ASOW-22-NECCNJ-SPG-371	J	NECCNJ	6/3/2022	14:17	10	585379.499	4451871.690
ASOW-22-NECCNJ-SPGC-367	A	NECCNJ	6/3/2022	19:04	22	594509.666	4453387.694
ASOW-22-NECCNJ-SPGC-367	B	NECCNJ	6/3/2022	19:05	22	594507.398	4453396.737
ASOW-22-NECCNJ-SPGC-367	C	NECCNJ	6/3/2022	19:06	22	594517.227	4453400.875
ASOW-22-NECCNJ-SPGC-367	D	NECCNJ	6/3/2022	19:08	22	594513.258	4453406.274
ASOW-22-NECCNJ-SPGC-367	E	NECCNJ	6/3/2022	19:10	22	594524.885	4453404.189
ASOW-22-NECCNY-SP-301	A	NECCNY	7/16/2022	15:26	20	579204.440	4493126.630
ASOW-22-NECCNY-SP-301	B	NECCNY	7/16/2022	15:27	20	579199.890	4493124.860
ASOW-22-NECCNY-SP-301	C	NECCNY	7/16/2022	15:28	20	579199.510	4493114.810
ASOW-22-NECCNY-SP-301	D	NECCNY	7/16/2022	15:31	20	579206.490	4493117.680
ASOW-22-NECCNY-SP-301	E	NECCNY	7/16/2022	15:33	20	579193.050	4493118.800
ASOW-22-NECCNY-SP-302	A	NECCNY	7/16/2022	14:54	26	583202.500	4492543.810
ASOW-22-NECCNY-SP-302	B	NECCNY	7/16/2022	14:55	26	583201.740	4492551.700
ASOW-22-NECCNY-SP-302	C	NECCNY	7/16/2022	14:56	26	583203.910	4492556.900
ASOW-22-NECCNY-SP-302	D	NECCNY	7/16/2022	14:58	26	583210.170	4492562.080
ASOW-22-NECCNY-SP-302	E	NECCNY	7/16/2022	14:59	26	583202.220	4492556.020
ASOW-22-NECCNY-SP-302	F	NECCNY	7/16/2022	15:01	26	583187.490	4492545.800
ASOW-22-NECCNY-SP-307	A	NECCNY	7/16/2022	14:16	44	583030.900	4488977.980
ASOW-22-NECCNY-SP-307	B	NECCNY	7/16/2022	14:20	44	583013.050	4489006.990
ASOW-22-NECCNY-SP-307	C	NECCNY	7/16/2022	14:23	44	583015.630	4488989.540
ASOW-22-NECCNY-SP-307	D	NECCNY	7/16/2022	14:25	44	583030.790	4488993.810
ASOW-22-NECCNY-SP-307	E	NECCNY	7/16/2022	14:27	44	583021.170	4488996.780
ASOW-22-NECCNY-SPC-308	A	NECCNY	7/15/2022	19:46	12	586277.230	4488738.830
ASOW-22-NECCNY-SPC-308	B	NECCNY	7/15/2022	19:48	12	586268.990	4488735.440
ASOW-22-NECCNY-SPC-308	C	NECCNY	7/15/2022	19:49	12	586264.850	4488734.520
ASOW-22-NECCNY-SPC-308	D	NECCNY	7/15/2022	19:51	12	586261.720	4488734.260
ASOW-22-NECCNY-SPC-308	E	NECCNY	7/15/2022	19:52	12	586258.620	4488728.150

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Station ID	Replicate	Subarea	Image Collection Date	Image Collection Time (UTC)	Water Depth (m)	Easting (m)	Northing (m)
ASOW-22-NECCNY-SPC-309	A	NECCNY	7/15/2022	19:09	17	586556.120	4488721.700
ASOW-22-NECCNY-SPC-309	B	NECCNY	7/15/2022	19:11	17	586565.590	4488752.290
ASOW-22-NECCNY-SPC-309	C	NECCNY	7/15/2022	19:15	17	586586.130	4488722.100
ASOW-22-NECCNY-SPC-309	D	NECCNY	7/15/2022	19:17	17	586575.090	4488712.810
ASOW-22-NECCNY-SPC-309	E	NECCNY	7/15/2022	19:19	17	586560.750	4488725.760
ASOW-22-NECCNY-SPC-310	A	NECCNY	7/15/2022	18:42	17	586437.500	4488577.800
ASOW-22-NECCNY-SPC-310	B	NECCNY	7/15/2022	18:43	17	586434.280	4488570.340
ASOW-22-NECCNY-SPC-310	C	NECCNY	7/15/2022	18:45	17	586427.110	4488559.410
ASOW-22-NECCNY-SPC-310	D	NECCNY	7/15/2022	18:48	17	586420.140	4488577.130
ASOW-22-NECCNY-SPC-310	E	NECCNY	7/15/2022	18:51	17	586433.300	4488581.340
ASOW-22-NECCNY-SPC-311	A	NECCNY	7/15/2022	17:11	19	586273.790	4488430.360
ASOW-22-NECCNY-SPC-311	B	NECCNY	7/15/2022	17:13	19	586269.670	4488439.070
ASOW-22-NECCNY-SPC-311	C	NECCNY	7/15/2022	17:15	19	586261.160	4488432.160
ASOW-22-NECCNY-SPC-311	D	NECCNY	7/15/2022	17:18	19	586260.860	4488407.220
ASOW-22-NECCNY-SPC-311	E	NECCNY	7/15/2022	17:22	19	586272.260	4488412.500
ASOW-22-NECCNY-SP-313	A	NECCNY	7/16/2022	12:41	19	579002.390	4487555.350
ASOW-22-NECCNY-SP-313	B	NECCNY	7/16/2022	12:44	19	578990.140	4487538.690
ASOW-22-NECCNY-SP-313	C	NECCNY	7/16/2022	12:47	19	579001.940	4487538.480
ASOW-22-NECCNY-SP-313	D	NECCNY	7/16/2022	12:52	19	578994.610	4487545.600
ASOW-22-NECCNY-SP-313	E	NECCNY	7/16/2022	12:54	19	578999.840	4487525.010
ASOW-22-NECCNY-SP-315	A	NECCNY	7/15/2022	16:38	58	585234.100	4486268.750
ASOW-22-NECCNY-SP-315	B	NECCNY	7/15/2022	16:42	58	585258.260	4486273.050
ASOW-22-NECCNY-SP-315	C	NECCNY	7/15/2022	16:44	58	585257.350	4486252.180
ASOW-22-NECCNY-SP-315	D	NECCNY	7/15/2022	16:48	58	585228.610	4486258.700
ASOW-22-NECCNY-SP-315	E	NECCNY	7/15/2022	16:49	58	585234.950	4486258.700
ASOW-22-NECCNY-SPC-317	A	NECCNY	7/15/2022	11:52	20	576679.830	4486195.610
ASOW-22-NECCNY-SPC-317	B	NECCNY	7/15/2022	11:54	20	576682.010	4486184.300
ASOW-22-NECCNY-SPC-317	C	NECCNY	7/15/2022	11:57	20	576653.350	4486196.380
ASOW-22-NECCNY-SPC-317	D	NECCNY	7/15/2022	12:00	20	576662.120	4486208.050
ASOW-22-NECCNY-SPC-317	E	NECCNY	7/15/2022	12:03	20	576680.660	4486216.280
ASOW-22-NECCNY-SPC-317	F	NECCNY	7/15/2022	12:05	20	576663.380	4486198.560
ASOW-22-NECCNY-SPC-318	A	NECCNY	7/14/2022	19:43	16	576538.830	4486066.690
ASOW-22-NECCNY-SPC-318	B	NECCNY	7/14/2022	19:46	16	576530.950	4486053.920
ASOW-22-NECCNY-SPC-318	C	NECCNY	7/14/2022	19:48	16	576520.390	4486054.610
ASOW-22-NECCNY-SPC-318	D	NECCNY	7/14/2022	19:51	16	576528.310	4486057.290
ASOW-22-NECCNY-SPC-318	E	NECCNY	7/14/2022	19:52	16	576522.100	4486047.890
ASOW-22-NECCNY-SPC-318	F	NECCNY	7/14/2022	19:54	16	576518.690	4486049.410
ASOW-22-NECCNY-SPC-319	A	NECCNY	7/14/2022	18:08	17	576360.980	4485902.320
ASOW-22-NECCNY-SPC-319	B	NECCNY	7/14/2022	18:10	17	576366.270	4485898.650
ASOW-22-NECCNY-SPC-319	C	NECCNY	7/14/2022	18:11	17	576368.440	4485886.080
ASOW-22-NECCNY-SPC-319	D	NECCNY	7/14/2022	18:13	17	576369.950	4485880.730
ASOW-22-NECCNY-SPC-319	E	NECCNY	7/14/2022	18:14	17	576379.620	4485887.120
ASOW-22-NECCNY-SPC-319	F	NECCNY	7/14/2022	18:16	17	576387.630	4485906.090
ASOW-22-NECCNY-SPC-319	G	NECCNY	7/14/2022	18:32	17	576366.160	4485914.090
ASOW-22-NECCNY-SPC-319	H	NECCNY	7/14/2022	18:35	17	576368.110	4485900.590
ASOW-22-NECCNY-SPC-319	I	NECCNY	7/14/2022	18:37	17	576361.670	4485902.020

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ASOW-22-NECCNY-SPC-320	A	NECCNY	7/14/2022	18:47	16	576703.600	4485886.870
ASOW-22-NECCNY-SPC-320	B	NECCNY	7/14/2022	18:49	16	576689.790	4485909.950
ASOW-22-NECCNY-SPC-320	C	NECCNY	7/14/2022	18:52	16	576678.450	4485891.590
ASOW-22-NECCNY-SPC-320	D	NECCNY	7/14/2022	18:53	16	576672.680	4485897.090
ASOW-22-NECCNY-SPC-320	E	NECCNY	7/14/2022	18:55	16	576693.240	4485874.320
ASOW-22-NECCNY-SPC-320	F	NECCNY	7/14/2022	18:57	16	576711.270	4485882.790
ASOW-22-NECCNY-SPC-320	G	NECCNY	7/14/2022	19:17	16	576690.120	4485880.520
ASOW-22-NECCNY-SPC-320	H	NECCNY	7/14/2022	19:20	16	576692.130	4485895.860
ASOW-22-NECCNY-SPC-320	I	NECCNY	7/14/2022	19:22	16	576690.030	4485884.560
ASOW-22-NECCNY-SPC-320	J	NECCNY	7/14/2022	19:23	16	576692.950	4485894.230
ASOW-22-NECCNY-SPC-320	K	NECCNY	7/14/2022	19:27	16	576682.000	4485894.230
ASOW-22-NECCNY-SP-321	A	NECCNY	7/16/2022	12:05	26	579694.420	4485853.100
ASOW-22-NECCNY-SP-321	B	NECCNY	7/16/2022	12:09	26	579711.390	4485850.920
ASOW-22-NECCNY-SP-321	C	NECCNY	7/16/2022	12:11	26	579697.830	4485872.910
ASOW-22-NECCNY-SP-321	D	NECCNY	7/16/2022	12:13	26	579693.830	4485847.290
ASOW-22-NECCNY-SP-321	E	NECCNY	7/16/2022	12:17	26	579692.770	4485865.040
ASOW-22-NECCNY-SP-322	A	NECCNY	7/15/2022	15:50	28	587072.360	4485644.350
ASOW-22-NECCNY-SP-322	B	NECCNY	7/15/2022	15:52	28	587064.830	4485652.720
ASOW-22-NECCNY-SP-322	C	NECCNY	7/15/2022	15:54	28	587055.360	4485641.640
ASOW-22-NECCNY-SP-322	D	NECCNY	7/15/2022	15:56	28	587051.880	4485647.410
ASOW-22-NECCNY-SP-322	E	NECCNY	7/15/2022	16:00	28	587053.570	4485660.250
ASOW-22-NECCNY-SP-324	A	NECCNY	7/14/2022	15:13	16	569080.100	4485051.000
ASOW-22-NECCNY-SP-324	B	NECCNY	7/14/2022	15:15	16	569079.580	4485064.040
ASOW-22-NECCNY-SP-324	C	NECCNY	7/14/2022	15:17	16	569073.310	4485059.830
ASOW-22-NECCNY-SP-324	D	NECCNY	7/14/2022	15:19	16	569085.180	4485042.680
ASOW-22-NECCNY-SP-324	E	NECCNY	7/14/2022	15:21	16	569090.630	4485059.280
ASOW-22-NECCNY-SP-325	A	NECCNY	7/15/2022	12:26	24	579526.190	4484793.100
ASOW-22-NECCNY-SP-325	B	NECCNY	7/15/2022	12:28	24	579506.770	4484797.650
ASOW-22-NECCNY-SP-325	C	NECCNY	7/15/2022	12:29	24	579503.800	4484796.080
ASOW-22-NECCNY-SP-325	D	NECCNY	7/15/2022	12:31	24	579521.130	4484770.070
ASOW-22-NECCNY-SP-325	E	NECCNY	7/15/2022	12:32	24	579512.510	4484772.050
ASOW-22-NECCNY-SP-325	F	NECCNY	7/15/2022	12:36	24	579506.710	4484781.670
ASOW-22-NECCNY-SP-325	G	NECCNY	7/15/2022	12:39	24	579520.410	4484806.640
ASOW-22-NECCNY-SP-326	A	NECCNY	7/15/2022	12:59	23	581346.280	4484776.520
ASOW-22-NECCNY-SP-326	B	NECCNY	7/15/2022	13:01	23	581362.680	4484793.890
ASOW-22-NECCNY-SP-326	C	NECCNY	7/15/2022	13:05	23	581369.780	4484793.890
ASOW-22-NECCNY-SP-326	D	NECCNY	7/15/2022	13:10	23	581357.270	4484783.910
ASOW-22-NECCNY-SP-326	E	NECCNY	7/15/2022	13:14	23	581368.170	4484766.940
ASOW-22-NECCNY-SP-326	F	NECCNY	7/15/2022	13:18	23	581350.330	4484791.840
ASOW-22-NECCNY-SP-329	A	NECCNY	7/14/2022	14:09	38	568087.480	4484362.060
ASOW-22-NECCNY-SP-329	B	NECCNY	7/14/2022	14:11	38	568090.750	4484356.770
ASOW-22-NECCNY-SP-329	C	NECCNY	7/14/2022	14:12	38	568088.460	4484350.840
ASOW-22-NECCNY-SP-329	D	NECCNY	7/14/2022	14:16	38	568074.010	4484372.840
ASOW-22-NECCNY-SP-329	E	NECCNY	7/14/2022	14:17	38	568073.650	4484360.000
ASOW-22-NECCNY-SP-329	F	NECCNY	7/14/2022	14:36	36	568080.450	4484371.370
ASOW-22-NECCNY-SP-329	G	NECCNY	7/14/2022	14:39	36	568065.180	4484358.900

Stations Sampled

Station ID	Replicate	Subarea	Image Collection Date	Image Collection Time (UTC)	Water Depth (m)	Easting (m)	Northing (m)
ASOW-22-NECCNY-SP-330	A	NECCNY	7/14/2022	15:45	21	572144.280	4484177.430
ASOW-22-NECCNY-SP-330	B	NECCNY	7/14/2022	15:47	21	572139.950	4484164.330
ASOW-22-NECCNY-SP-330	C	NECCNY	7/14/2022	15:50	21	572122.270	4484176.940
ASOW-22-NECCNY-SP-330	D	NECCNY	7/14/2022	15:53	21	572125.290	4484181.100
ASOW-22-NECCNY-SP-330	E	NECCNY	7/14/2022	15:57	21	572128.500	4484171.080
ASOW-22-NECCNY-SP-330	F	NECCNY	7/14/2022	16:00	21	572122.110	4484190.250
ASOW-22-NECCNY-SP-332	A	NECCNY	7/14/2022	16:21	22	574024.800	4483941.800
ASOW-22-NECCNY-SP-332	B	NECCNY	7/14/2022	16:23	22	574017.840	4483941.810
ASOW-22-NECCNY-SP-332	C	NECCNY	7/14/2022	16:26	22	573991.040	4483954.310
ASOW-22-NECCNY-SP-332	D	NECCNY	7/14/2022	16:29	22	574012.290	4483953.880
ASOW-22-NECCNY-SP-332	E	NECCNY	7/14/2022	16:31	22	574007.010	4483954.910
ASOW-22-NECCNY-SP-332	F	NECCNY	7/14/2022	16:45	22	574014.410	4483936.780
ASOW-22-NECCNY-SP-332	G	NECCNY	7/14/2022	16:47	22	574004.350	4483930.920
ASOW-22-NECCNY-SP-332	H	NECCNY	7/14/2022	16:49	22	574011.560	4483946.040
ASOW-22-NECCNY-SP-333	A	NECCNY	7/15/2022	14:22	40	584545.840	4483874.840
ASOW-22-NECCNY-SP-333	B	NECCNY	7/15/2022	14:24	40	584554.320	4483894.260
ASOW-22-NECCNY-SP-333	C	NECCNY	7/15/2022	14:28	40	584563.720	4483876.050
ASOW-22-NECCNY-SP-333	D	NECCNY	7/15/2022	14:32	40	584573.410	4483870.050
ASOW-22-NECCNY-SP-333	E	NECCNY	7/15/2022	14:34	40	584580.320	4483874.900
ASOW-22-NECCNY-SP-335	A	NECCNY	7/14/2022	17:09	21	575974.820	4483796.050
ASOW-22-NECCNY-SP-335	B	NECCNY	7/14/2022	17:12	21	575953.330	4483786.880
ASOW-22-NECCNY-SP-335	C	NECCNY	7/14/2022	17:14	21	575964.360	4483779.500
ASOW-22-NECCNY-SP-335	D	NECCNY	7/14/2022	17:17	21	575966.740	4483800.760
ASOW-22-NECCNY-SP-335	E	NECCNY	7/14/2022	17:21	21	575951.370	4483771.100
ASOW-22-NECCNY-SP-335	F	NECCNY	7/14/2022	17:23	21	575958.600	4483781.530
ASOW-22-NECCNY-SP-335	G	NECCNY	7/14/2022	17:41	21	575964.450	4483793.180
ASOW-22-NECCNY-SP-335	H	NECCNY	7/14/2022	17:42	21	575965.890	4483782.590
ASOW-22-NECCNY-SP-335	I	NECCNY	7/14/2022	17:45	21	575963.110	4483776.790
ASOW-22-NECCNY-SP-338	A	NECCNY	7/14/2022	13:40	26	571103.140	4482951.900
ASOW-22-NECCNY-SP-338	B	NECCNY	7/14/2022	13:41	26	571106.150	4482951.980
ASOW-22-NECCNY-SP-338	C	NECCNY	7/14/2022	13:43	26	571113.220	4482973.580
ASOW-22-NECCNY-SP-338	D	NECCNY	7/14/2022	13:46	26	571113.270	4482963.750
ASOW-22-NECCNY-SP-338	E	NECCNY	7/14/2022	13:47	26	571104.350	4482962.570
ASOW-22-NECCNY-SP-340	A	NECCNY	7/14/2022	11:56	26	573000.020	4482557.500
ASOW-22-NECCNY-SP-340	B	NECCNY	7/14/2022	13:12	26	573005.300	4482545.670
ASOW-22-NECCNY-SP-340	C	NECCNY	7/14/2022	13:14	26	573012.360	4482565.160
ASOW-22-NECCNY-SP-340	D	NECCNY	7/14/2022	13:16	26	573011.070	4482564.520
ASOW-22-NECCNY-SP-340	E	NECCNY	7/14/2022	13:17	26	573003.200	4482561.360
ASOW-22-NECCNY-SP-342	A	NECCNY	7/15/2022	15:05	28	589080.190	4480865.400
ASOW-22-NECCNY-SP-342	B	NECCNY	7/15/2022	15:11	28	589076.820	4480847.090
ASOW-22-NECCNY-SP-342	C	NECCNY	7/15/2022	15:13	28	589094.960	4480845.560
ASOW-22-NECCNY-SP-342	D	NECCNY	7/15/2022	15:18	28	589091.170	4480858.240
ASOW-22-NECCNY-SP-342	E	NECCNY	7/15/2022	15:21	28	589076.810	4480869.160
ASOW-22-NECCNY-SP-342	F	NECCNY	7/15/2022	15:23	28	589094.960	4480858.240

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Station ID	Replicate	Subarea	Image Collection Date	Image Collection Time (UTC)	Water Depth (m)	Easting (m)	Northing (m)
ASOW-22-NECCNY-SP-344	A	NECCNY	5/27/2022	06:03	17	591353.669	4477934.091
ASOW-22-NECCNY-SP-344	B	NECCNY	5/27/2022	06:10	17	591355.286	4477943.953
ASOW-22-NECCNY-SP-344	C	NECCNY	5/27/2022	06:17	17	591351.715	4477948.723
ASOW-22-NECCNY-SP-344	D	NECCNY	5/27/2022	06:24	17	591349.280	4477927.719
ASOW-22-NECCNY-SP-344	E	NECCNY	5/27/2022	06:33	17	591369.448	4477929.724
ASOW-22-NECCNY-SPG-306	A	NECCNY	7/16/2022	13:19	22	579084.790	4489440.770
ASOW-22-NECCNY-SPG-306	B	NECCNY	7/16/2022	13:23	22	579073.480	4489431.910
ASOW-22-NECCNY-SPG-306	C	NECCNY	7/16/2022	13:26	22	579090.810	4489425.210
ASOW-22-NECCNY-SPG-306	D	NECCNY	7/16/2022	13:28	22	579103.040	4489421.950
ASOW-22-NECCNY-SPG-306	E	NECCNY	7/16/2022	13:30	22	579083.410	4489436.600
ASOW-22-NECCNY-SPG-306	F	NECCNY	7/16/2022	13:52	22	579077.550	4489421.320
ASOW-22-NECCNY-SPG-306	G	NECCNY	7/16/2022	13:53	22	579069.850	4489433.470
ASOW-22-NECCNY-SPG-327	A	NECCNY	7/15/2022	13:37	24	582788.460	4484535.450
ASOW-22-NECCNY-SPG-327	B	NECCNY	7/15/2022	13:39	24	582799.290	4484520.290
ASOW-22-NECCNY-SPG-327	C	NECCNY	7/15/2022	13:44	24	582804.280	4484531.450
ASOW-22-NECCNY-SPG-327	D	NECCNY	7/15/2022	13:47	24	582815.350	4484523.210
ASOW-22-NECCNY-SPG-327	E	NECCNY	7/15/2022	13:54	24	582803.450	4484546.300
ASOW-22-NECCNY-SPG-327	F	NECCNY	7/15/2022	13:58	24	582817.340	4484539.220
ASOW-22-NECCNY-SPG-341	A	NECCNY	5/27/2022	00:38	8	587813.577	4482240.031
ASOW-22-NECCNY-SPG-341	B	NECCNY	5/27/2022	01:00	8	587809.243	4482233.212
ASOW-22-NECCNY-SPG-341	C	NECCNY	5/27/2022	01:18	8	587797.084	4482250.135
ASOW-22-NECCNY-SPGC-312	A	NECCNY	7/15/2022	18:04	18	586592.190	4488399.780
ASOW-22-NECCNY-SPGC-312	B	NECCNY	7/15/2022	18:06	18	586590.470	4488392.660
ASOW-22-NECCNY-SPGC-312	C	NECCNY	7/15/2022	18:08	18	586578.150	4488398.950
ASOW-22-NECCNY-SPGC-312	D	NECCNY	7/15/2022	18:11	18	586577.360	4488409.690
ASOW-22-NECCNY-SPGC-312	E	NECCNY	7/15/2022	18:12	18	586583.950	4488405.060
ASOW-22-NECCNY-SPGC-312	F	NECCNY	7/15/2022	18:14	18	586578.490	4488419.220
ASOW-22-NECCNY-SPGC-316	A	NECCNY	7/14/2022	20:05	16	576372.910	4486211.150
ASOW-22-NECCNY-SPGC-316	B	NECCNY	7/14/2022	20:07	16	576366.320	4486203.440
ASOW-22-NECCNY-SPGC-316	C	NECCNY	7/14/2022	20:09	16	576381.850	4486179.980
ASOW-22-NECCNY-SPGC-316	D	NECCNY	7/14/2022	20:11	16	576379.270	4486182.070
ASOW-22-NECCNY-SPGC-316	E	NECCNY	7/14/2022	20:13	16	576378.090	4486207.860
ASOW-22-NECCNY-SPGC-316	F	NECCNY	7/14/2022	20:14	16	576384.780	4486215.710
ASOW-22-NECCT-SP-346	E	NECCT	5/27/2022	10:03	19	592051.273	4474271.405
ASOW-22-NECCT-SP-346	A	NECCT	5/27/2022	09:49	19	592038.684	4474252.202
ASOW-22-NECCT-SP-346	B	NECCT	5/27/2022	09:51	19	592049.330	4474242.234
ASOW-22-NECCT-SP-346	C	NECCT	5/27/2022	09:54	19	592056.896	4474246.907
ASOW-22-NECCT-SP-346	D	NECCT	5/27/2022	09:57	19	592057.164	4474266.474
ASOW-22-NECCT-SP-349	A	NECCT	5/27/2022	15:22	21	593495.697	4468803.096
ASOW-22-NECCT-SP-349	B	NECCT	5/27/2022	15:28	21	593492.384	4468811.597
ASOW-22-NECCT-SP-349	C	NECCT	5/27/2022	15:30	21	593500.844	4468810.497
ASOW-22-NECCT-SP-349	D	NECCT	5/27/2022	15:31	21	593501.535	4468819.338
ASOW-22-NECCT-SP-349	E	NECCT	5/27/2022	15:34	21	593494.560	4468793.799

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ASOW-22-NECCT-SP-351	A	NECCT	5/27/2022	22:21	22	594453.810	4465197.152
ASOW-22-NECCT-SP-351	B	NECCT	5/27/2022	22:22	22	594457.523	4465206.263
ASOW-22-NECCT-SP-351	C	NECCT	5/27/2022	22:25	22	594459.287	4465215.224
ASOW-22-NECCT-SP-351	D	NECCT	5/27/2022	22:30	22	594471.727	4465207.837
ASOW-22-NECCT-SP-351	E	NECCT	5/27/2022	22:32	22	594459.958	4465219.493
ASOW-22-NECCT-SP-354	A	NECCT	6/3/2022	23:08	24	596415.250	4459872.961
ASOW-22-NECCT-SP-354	B	NECCT	6/3/2022	23:09	24	596421.993	4459878.037
ASOW-22-NECCT-SP-354	C	NECCT	6/3/2022	23:11	24	596430.234	4459891.897
ASOW-22-NECCT-SP-354	D	NECCT	6/3/2022	23:12	24	596427.810	4459894.401
ASOW-22-NECCT-SP-354	E	NECCT	6/3/2022	23:13	24	596414.563	4459891.386
ASOW-22-NECCT-SP-356	A	NECCT	6/4/2022	00:12	24	597224.929	4456239.901
ASOW-22-NECCT-SP-356	B	NECCT	6/4/2022	00:14	24	597235.986	4456246.354
ASOW-22-NECCT-SP-356	C	NECCT	6/4/2022	00:15	24	597240.856	4456252.461
ASOW-22-NECCT-SP-356	D	NECCT	6/4/2022	00:16	24	597238.916	4456258.625
ASOW-22-NECCT-SP-356	E	NECCT	6/4/2022	00:18	24	597234.416	4456264.200
ASOW-22-NECCT-SP-370	A	NECCT	6/4/2022	02:15	24	598318.793	4452561.817
ASOW-22-NECCT-SP-370	B	NECCT	6/4/2022	02:16	24	598327.934	4452568.441
ASOW-22-NECCT-SP-370	C	NECCT	6/4/2022	02:18	24	598333.343	4452574.462
ASOW-22-NECCT-SP-370	D	NECCT	6/4/2022	02:19	24	598327.701	4452578.716
ASOW-22-NECCT-SP-370	E	NECCT	6/4/2022	02:20	24	598321.464	4452584.647
ASOW-22-NECCT-SP-374	A	NECCT	6/4/2022	04:51	23	597585.768	4446831.302
ASOW-22-NECCT-SP-374	B	NECCT	6/4/2022	04:54	23	597600.140	4446822.931
ASOW-22-NECCT-SP-374	C	NECCT	6/4/2022	04:57	23	597605.294	4446805.208
ASOW-22-NECCT-SP-374	D	NECCT	6/4/2022	05:00	23	597579.134	4446800.342
ASOW-22-NECCT-SP-374	E	NECCT	6/4/2022	05:03	23	597577.770	4446820.264
ASOW-22-NECCT-SP-376	A	NECCT	6/4/2022	06:19	26	597401.496	4443144.545
ASOW-22-NECCT-SP-376	B	NECCT	6/4/2022	06:25	26	597412.021	4443130.735
ASOW-22-NECCT-SP-376	C	NECCT	6/4/2022	06:28	26	597409.947	4443115.907
ASOW-22-NECCT-SP-376	D	NECCT	6/4/2022	06:32	26	597381.923	4443124.547
ASOW-22-NECCT-SP-376	E	NECCT	6/4/2022	06:36	26	597389.853	4443139.242
ASOW-22-NECCT-SP-379	A	NECCT	6/4/2022	09:41	23	596545.485	4437518.577
ASOW-22-NECCT-SP-379	B	NECCT	6/4/2022	09:44	23	596560.243	4437521.112
ASOW-22-NECCT-SP-379	C	NECCT	6/4/2022	09:47	23	596567.366	4437499.627
ASOW-22-NECCT-SP-379	D	NECCT	6/4/2022	09:49	23	596546.036	4437497.277
ASOW-22-NECCT-SP-379	E	NECCT	6/4/2022	09:52	23	596531.148	4437510.231
ASOW-22-NECCT-SP-381	A	NECCT	6/4/2022	10:44	23	596435.001	4433956.247
ASOW-22-NECCT-SP-381	B	NECCT	6/4/2022	10:46	23	596426.227	4433943.906
ASOW-22-NECCT-SP-381	C	NECCT	6/4/2022	10:51	23	596449.191	4433947.074
ASOW-22-NECCT-SP-381	D	NECCT	6/4/2022	10:54	23	596453.572	4433926.957
ASOW-22-NECCT-SP-381	E	NECCT	6/4/2022	10:56	23	596427.718	4433923.632
ASOW-22-NECCT-SP-384	A	NECCT	6/4/2022	11:44	24	596003.413	4431989.905
ASOW-22-NECCT-SP-384	B	NECCT	6/4/2022	11:46	24	595992.258	4431993.754
ASOW-22-NECCT-SP-384	C	NECCT	6/4/2022	11:50	24	595975.000	4431980.297
ASOW-22-NECCT-SP-384	D	NECCT	6/4/2022	11:54	24	595984.997	4431965.798
ASOW-22-NECCT-SP-384	E	NECCT	6/4/2022	11:57	24	596006.096	4431978.864

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Station ID	Replicate	Subarea	Image Collection Date	Image Collection Time (UTC)	Water Depth (m)	Easting (m)	Northing (m)
ASOW-22-NECCT-SP-386	A	NECCT	6/4/2022	15:09	23	595304.926	4428409.463
ASOW-22-NECCT-SP-386	B	NECCT	6/4/2022	15:12	23	595297.936	4428411.969
ASOW-22-NECCT-SP-386	C	NECCT	6/4/2022	15:14	23	595289.527	4428407.285
ASOW-22-NECCT-SP-386	D	NECCT	6/4/2022	15:16	23	595282.330	4428400.851
ASOW-22-NECCT-SP-386	E	NECCT	6/4/2022	15:18	23	595274.410	4428399.352
ASOW-22-NECCT-SP-388	A	NECCT	6/4/2022	16:14	25	595012.243	4426239.734
ASOW-22-NECCT-SP-388	B	NECCT	6/4/2022	16:16	25	595016.978	4426231.566
ASOW-22-NECCT-SP-388	C	NECCT	6/4/2022	16:17	25	595027.991	4426228.077
ASOW-22-NECCT-SP-388	D	NECCT	6/4/2022	16:19	25	595036.271	4426224.502
ASOW-22-NECCT-SP-388	E	NECCT	6/4/2022	16:20	25	595042.226	4426220.139
ASOW-22-NECCT-SP-395	A	NECCT	6/4/2022	22:17	26	594443.743	4417653.822
ASOW-22-NECCT-SP-395	B	NECCT	6/4/2022	22:19	26	594439.318	4417648.179
ASOW-22-NECCT-SP-395	C	NECCT	6/4/2022	22:21	26	594439.514	4417638.005
ASOW-22-NECCT-SP-395	D	NECCT	6/4/2022	22:23	26	594446.399	4417631.002
ASOW-22-NECCT-SP-395	E	NECCT	6/4/2022	22:25	26	594450.368	4417625.563
ASOW-22-NECCT-SP-396	A	NECCT	6/4/2022	23:21	26	593859.767	4415849.669
ASOW-22-NECCT-SP-396	B	NECCT	6/4/2022	23:25	26	593850.826	4415841.575
ASOW-22-NECCT-SP-396	C	NECCT	6/4/2022	23:27	26	593847.115	4415835.811
ASOW-22-NECCT-SP-396	D	NECCT	6/4/2022	23:28	26	593846.347	4415827.634
ASOW-22-NECCT-SP-396	E	NECCT	6/4/2022	23:30	26	593848.124	4415819.468
ASOW-22-NECCT-SP-405	A	NECCT	6/5/2022	08:31	23	593086.554	4408337.813
ASOW-22-NECCT-SP-405	B	NECCT	6/5/2022	08:33	23	593067.016	4408339.780
ASOW-22-NECCT-SP-405	C	NECCT	6/5/2022	08:35	23	593070.851	4408323.354
ASOW-22-NECCT-SP-405	D	NECCT	6/5/2022	08:38	23	593079.923	4408317.148
ASOW-22-NECCT-SP-405	E	NECCT	6/5/2022	08:41	23	593084.953	4408324.490
ASOW-22-NECCT-SP-407	A	NECCT	6/5/2022	15:59	25	593370.814	4404656.537
ASOW-22-NECCT-SP-407	B	NECCT	6/5/2022	16:01	25	593375.652	4404650.736
ASOW-22-NECCT-SP-407	C	NECCT	6/5/2022	16:03	25	593383.603	4404652.518
ASOW-22-NECCT-SP-407	D	NECCT	6/5/2022	16:05	25	593386.517	4404650.152
ASOW-22-NECCT-SP-407	E	NECCT	6/5/2022	16:07	25	593396.536	4404652.094
ASOW-22-NECCT-SP-410	A	NECCT	6/5/2022	18:56	25	593513.310	4399176.053
ASOW-22-NECCT-SP-410	B	NECCT	6/5/2022	18:57	25	593524.561	4399177.173
ASOW-22-NECCT-SP-410	C	NECCT	6/5/2022	18:59	25	593533.656	4399175.469
ASOW-22-NECCT-SP-410	D	NECCT	6/5/2022	19:01	25	593537.871	4399163.869
ASOW-22-NECCT-SP-410	E	NECCT	6/5/2022	19:02	25	593546.843	4399166.207
ASOW-22-NECCT-SP-413	B	NECCT	6/5/2022	21:03	26	593463.406	4395294.776
ASOW-22-NECCT-SP-413	C	NECCT	6/5/2022	21:04	26	593462.619	4395300.268
ASOW-22-NECCT-SP-413	D	NECCT	6/5/2022	21:06	26	593454.214	4395293.993
ASOW-22-NECCT-SP-413	E	NECCT	6/5/2022	21:07	26	593456.714	4395309.805
ASOW-22-NECCT-SP-413	F	NECCT	6/5/2022	22:30	26	593459.971	4395282.135
ASOW-22-NECCT-SP-413	G	NECCT	6/5/2022	22:31	26	593456.438	4395290.524
ASOW-22-NECCT-SP-413	H	NECCT	6/5/2022	22:33	26	593463.456	4395299.058
ASOW-22-NECCT-SP-413	I	NECCT	6/5/2022	22:34	26	593465.496	4395306.998
ASOW-22-NECCT-SP-413	J	NECCT	6/5/2022	22:35	26	593457.945	4395302.906

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Station ID	Replicate	Subarea	Image Collection Date	Image Collection Time (UTC)	Water Depth (m)	Easting (m)	Northing (m)
ASOW-22-NECCT-SP-416	A	NECCT	6/5/2022	23:37	26	593961.472	4392283.504
ASOW-22-NECCT-SP-416	B	NECCT	6/5/2022	23:39	26	593972.353	4392282.029
ASOW-22-NECCT-SP-416	C	NECCT	6/5/2022	23:40	26	593981.596	4392284.184
ASOW-22-NECCT-SP-416	D	NECCT	6/5/2022	23:42	26	593982.222	4392293.503
ASOW-22-NECCT-SP-416	E	NECCT	6/5/2022	23:43	26	593986.822	4392300.316
ASOW-22-NECCT-SP-426	A	NECCT	6/6/2022	06:24	27	593448.778	4387795.830
ASOW-22-NECCT-SP-426	B	NECCT	6/6/2022	06:26	27	593437.084	4387793.662
ASOW-22-NECCT-SP-426	C	NECCT	6/6/2022	06:29	27	593438.644	4387779.624
ASOW-22-NECCT-SP-426	D	NECCT	6/6/2022	06:31	27	593451.825	4387766.228
ASOW-22-NECCT-SP-426	E	NECCT	6/6/2022	06:34	27	593460.830	4387781.969
ASOW-22-NECCT-SP-432	A	NECCT	6/6/2022	16:24	27	593038.681	4384034.312
ASOW-22-NECCT-SP-432	B	NECCT	6/6/2022	16:26	27	593042.342	4384024.771
ASOW-22-NECCT-SP-432	C	NECCT	6/6/2022	16:27	27	593047.937	4384017.472
ASOW-22-NECCT-SP-432	D	NECCT	6/6/2022	16:29	27	593042.400	4384014.759
ASOW-22-NECCT-SP-432	E	NECCT	6/6/2022	16:31	27	593043.420	4384006.086
ASOW-22-NECCT-SP-441	A	NECCT	6/6/2022	19:00	26	592834.181	4380267.256
ASOW-22-NECCT-SP-441	B	NECCT	6/6/2022	19:02	26	592825.774	4380274.197
ASOW-22-NECCT-SP-441	C	NECCT	6/6/2022	19:04	26	592817.595	4380278.173
ASOW-22-NECCT-SP-441	D	NECCT	6/6/2022	19:05	26	592810.333	4380279.938
ASOW-22-NECCT-SP-441	E	NECCT	6/6/2022	19:07	26	592805.375	4380271.972
ASOW-22-NECCT-SP-451	A	NECCT	6/6/2022	20:14	25	592797.863	4376500.427
ASOW-22-NECCT-SP-451	B	NECCT	6/6/2022	20:16	25	592788.419	4376495.323
ASOW-22-NECCT-SP-451	C	NECCT	6/6/2022	20:18	25	592777.515	4376492.794
ASOW-22-NECCT-SP-451	D	NECCT	6/6/2022	20:20	25	592773.720	4376500.477
ASOW-22-NECCT-SP-451	E	NECCT	6/6/2022	20:21	25	592763.711	4376495.081
ASOW-22-NECCT-SP-458	A	NECCT	6/6/2022	22:09	25	592621.101	4372713.618
ASOW-22-NECCT-SP-458	B	NECCT	6/6/2022	22:10	25	592618.831	4372707.435
ASOW-22-NECCT-SP-458	C	NECCT	6/6/2022	22:11	25	592623.078	4372698.540
ASOW-22-NECCT-SP-458	D	NECCT	6/6/2022	22:13	25	592619.752	4372691.804
ASOW-22-NECCT-SP-458	E	NECCT	6/6/2022	22:14	25	592615.235	4372684.160
ASOW-22-NECCT-SP-543	A	NECCT	6/14/2022	18:15	21	592756.931	4473487.726
ASOW-22-NECCT-SP-543	B	NECCT	6/14/2022	18:17	21	592755.889	4473480.011
ASOW-22-NECCT-SP-543	C	NECCT	6/14/2022	18:18	21	592751.662	4473469.073
ASOW-22-NECCT-SP-543	D	NECCT	6/14/2022	18:20	21	592746.251	4473462.371
ASOW-22-NECCT-SP-543	E	NECCT	6/14/2022	18:21	21	592746.656	4473454.118
ASOW-22-NECCT-SP-544	A	NECCT	6/14/2022	17:14	20	592861.576	4472119.947
ASOW-22-NECCT-SP-544	B	NECCT	6/14/2022	17:16	20	592853.733	4472109.634
ASOW-22-NECCT-SP-544	C	NECCT	6/14/2022	17:17	20	592846.520	4472100.243
ASOW-22-NECCT-SP-544	D	NECCT	6/14/2022	17:19	20	592841.507	4472112.336
ASOW-22-NECCT-SP-544	E	NECCT	6/14/2022	17:21	20	592834.185	4472108.422
ASOW-22-NECCT-SP-545	A	NECCT	6/14/2022	11:15	21	594203.720	4466608.358
ASOW-22-NECCT-SP-545	B	NECCT	6/14/2022	11:17	21	594195.189	4466618.856
ASOW-22-NECCT-SP-545	C	NECCT	6/14/2022	11:20	21	594186.830	4466603.634
ASOW-22-NECCT-SP-545	D	NECCT	6/14/2022	11:22	21	594187.063	4466595.817
ASOW-22-NECCT-SP-545	E	NECCT	6/14/2022	11:24	21	594201.229	4466589.998

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Station ID	Replicate	Subarea	Image Collection Date	Image Collection Time (UTC)	Water Depth (m)	Easting (m)	Northing (m)
ASOW-22-NECCT-SP-546	A	NECCT	6/14/2022	11:35	20	594237.716	4466603.594
ASOW-22-NECCT-SP-546	B	NECCT	6/14/2022	11:39	20	594248.938	4466595.398
ASOW-22-NECCT-SP-546	C	NECCT	6/14/2022	11:44	20	594238.691	4466585.746
ASOW-22-NECCT-SP-546	D	NECCT	6/14/2022	11:46	20	594240.203	4466579.494
ASOW-22-NECCT-SP-546	E	NECCT	6/14/2022	11:48	20	594250.809	4466577.257
ASOW-22-NECCT-SP-547	A	NECCT	6/13/2022	17:46	27	597276.901	4445047.430
ASOW-22-NECCT-SP-547	B	NECCT	6/13/2022	17:48	27	597270.003	4445041.928
ASOW-22-NECCT-SP-547	C	NECCT	6/13/2022	17:49	27	597269.142	4445034.724
ASOW-22-NECCT-SP-547	D	NECCT	6/13/2022	17:51	27	597271.494	4445028.634
ASOW-22-NECCT-SP-547	E	NECCT	6/13/2022	17:53	27	597266.263	4445021.645
ASOW-22-NECCT-SP-548	A	NECCT	6/13/2022	17:15	27	597564.588	4444588.589
ASOW-22-NECCT-SP-548	B	NECCT	6/13/2022	17:17	27	597567.309	4444580.491
ASOW-22-NECCT-SP-548	C	NECCT	6/13/2022	17:18	27	597564.966	4444572.900
ASOW-22-NECCT-SP-548	D	NECCT	6/13/2022	17:20	27	597560.302	4444566.148
ASOW-22-NECCT-SP-548	E	NECCT	6/13/2022	17:22	27	597561.323	4444557.454
ASOW-22-NECCT-SP-550	A	NECCT	6/13/2022	14:01	25	596544.842	4436564.528
ASOW-22-NECCT-SP-550	B	NECCT	6/13/2022	14:03	25	596544.095	4436574.924
ASOW-22-NECCT-SP-550	C	NECCT	6/13/2022	14:06	25	596562.724	4436582.604
ASOW-22-NECCT-SP-550	D	NECCT	6/13/2022	14:09	25	596568.506	4436572.315
ASOW-22-NECCT-SP-550	E	NECCT	6/13/2022	14:11	25	596564.768	4436556.083
ASOW-22-NECCT-SP-551	A	NECCT	6/13/2022	09:28	25	596267.632	4432293.774
ASOW-22-NECCT-SP-551	B	NECCT	6/13/2022	09:30	25	596270.658	4432304.709
ASOW-22-NECCT-SP-551	C	NECCT	6/13/2022	09:32	25	596279.906	4432315.672
ASOW-22-NECCT-SP-551	D	NECCT	6/13/2022	09:34	25	596290.881	4432310.359
ASOW-22-NECCT-SP-551	E	NECCT	6/13/2022	09:36	25	596296.458	4432303.063
ASOW-22-NECCT-SP-553	A	NECCT	6/13/2022	07:08	23	594950.676	4426899.732
ASOW-22-NECCT-SP-553	B	NECCT	6/13/2022	07:10	23	594939.104	4426906.277
ASOW-22-NECCT-SP-553	C	NECCT	6/13/2022	07:13	23	594943.598	4426920.113
ASOW-22-NECCT-SP-553	D	NECCT	6/13/2022	07:14	23	594955.178	4426925.094
ASOW-22-NECCT-SP-553	E	NECCT	6/13/2022	07:16	23	594963.395	4426915.130
ASOW-22-NECCT-SP-555	A	NECCT	6/13/2022	06:14	25	594354.563	4424677.275
ASOW-22-NECCT-SP-555	B	NECCT	6/13/2022	06:16	25	594345.139	4424683.765
ASOW-22-NECCT-SP-555	C	NECCT	6/13/2022	06:19	25	594359.394	4424703.052
ASOW-22-NECCT-SP-555	D	NECCT	6/13/2022	06:20	25	594359.394	4424703.052
ASOW-22-NECCT-SP-555	E	NECCT	6/13/2022	06:22	25	594365.955	4424697.713
ASOW-22-NECCT-SP-560	A	NECCT	6/13/2022	04:50	25	594331.986	4419112.535
ASOW-22-NECCT-SP-560	B	NECCT	6/13/2022	04:51	25	594336.430	4419124.360
ASOW-22-NECCT-SP-560	C	NECCT	6/13/2022	04:53	25	594333.216	4419138.642
ASOW-22-NECCT-SP-560	D	NECCT	6/13/2022	04:55	25	594317.004	4419144.464
ASOW-22-NECCT-SP-560	E	NECCT	6/13/2022	04:57	25	594309.431	4419137.203
ASOW-22-NECCT-SP-562	A	NECCT	6/13/2022	03:33	23	593350.192	4413717.241
ASOW-22-NECCT-SP-562	B	NECCT	6/13/2022	03:35	23	593350.158	4413724.896
ASOW-22-NECCT-SP-562	C	NECCT	6/13/2022	03:36	23	593348.228	4413732.117
ASOW-22-NECCT-SP-562	D	NECCT	6/13/2022	03:38	23	593343.161	4413738.497
ASOW-22-NECCT-SP-562	E	NECCT	6/13/2022	03:39	23	593340.383	4413745.216

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Station ID	Replicate	Subarea	Image Collection Date	Image Collection Time (UTC)	Water Depth (m)	Easting (m)	Northing (m)
ASOW-22-NECCT-SP-568	A	NECCT	6/13/2022	00:53	25	593232.000	4403406.897
ASOW-22-NECCT-SP-568	B	NECCT	6/13/2022	00:54	25	593226.743	4403401.728
ASOW-22-NECCT-SP-568	C	NECCT	6/13/2022	00:55	25	593233.551	4403392.816
ASOW-22-NECCT-SP-568	D	NECCT	6/13/2022	00:57	25	593225.749	4403383.143
ASOW-22-NECCT-SP-568	E	NECCT	6/13/2022	00:59	25	593225.247	4403376.783
ASOW-22-NECCT-SP-572	A	NECCT	6/12/2022	17:38	26	594048.154	4393009.875
ASOW-22-NECCT-SP-572	B	NECCT	6/12/2022	17:41	26	594041.482	4393004.526
ASOW-22-NECCT-SP-572	C	NECCT	6/12/2022	17:43	26	594054.871	4392995.967
ASOW-22-NECCT-SP-572	D	NECCT	6/12/2022	17:45	26	594044.695	4392989.861
ASOW-22-NECCT-SP-572	E	NECCT	6/12/2022	17:47	26	594032.986	4392986.065
ASOW-22-NECCT-SP-573	A	NECCT	6/12/2022	15:27	28	594086.432	4389051.970
ASOW-22-NECCT-SP-573	B	NECCT	6/12/2022	15:28	28	594096.647	4389043.228
ASOW-22-NECCT-SP-573	C	NECCT	6/12/2022	15:30	28	594093.303	4389035.506
ASOW-22-NECCT-SP-573	D	NECCT	6/12/2022	15:32	28	594093.372	4389027.307
ASOW-22-NECCT-SP-573	E	NECCT	6/12/2022	15:34	28	594080.174	4389030.283
ASOW-22-NECCT-SP-574	A	NECCT	6/12/2022	13:56	28	593631.753	4385953.954
ASOW-22-NECCT-SP-574	B	NECCT	6/12/2022	14:00	28	593615.754	4385955.186
ASOW-22-NECCT-SP-574	C	NECCT	6/12/2022	14:02	28	593614.064	4385945.627
ASOW-22-NECCT-SP-574	D	NECCT	6/12/2022	14:04	28	593610.625	4385966.027
ASOW-22-NECCT-SP-574	E	NECCT	6/12/2022	14:06	28	593622.230	4385974.266
ASOW-22-NECCT-SP-575	A	NECCT	6/12/2022	13:23	27	593185.158	4385220.992
ASOW-22-NECCT-SP-575	B	NECCT	6/12/2022	13:25	27	593163.037	4385223.765
ASOW-22-NECCT-SP-575	C	NECCT	6/12/2022	13:28	27	593159.599	4385212.850
ASOW-22-NECCT-SP-575	D	NECCT	6/12/2022	13:31	27	593159.975	4385200.541
ASOW-22-NECCT-SP-575	E	NECCT	6/12/2022	13:34	27	593185.972	4385208.548
ASOW-22-NECCT-SP-576	A	NECCT	6/12/2022	11:09	26	592559.108	4378992.951
ASOW-22-NECCT-SP-576	B	NECCT	6/12/2022	11:13	26	592583.494	4378987.819
ASOW-22-NECCT-SP-576	C	NECCT	6/12/2022	11:15	26	592578.820	4379001.641
ASOW-22-NECCT-SP-576	D	NECCT	6/12/2022	11:17	26	592569.769	4379011.466
ASOW-22-NECCT-SP-576	E	NECCT	6/12/2022	11:19	26	592557.771	4379007.212
ASOW-22-NECCT-SP-577	A	NECCT	6/12/2022	04:14	25	592538.071	4377841.743
ASOW-22-NECCT-SP-577	B	NECCT	6/12/2022	04:18	25	592556.597	4377843.286
ASOW-22-NECCT-SP-577	C	NECCT	6/12/2022	04:21	25	592569.371	4377857.503
ASOW-22-NECCT-SP-577	D	NECCT	6/12/2022	04:23	25	592560.458	4377865.473
ASOW-22-NECCT-SP-577	E	NECCT	6/12/2022	04:26	25	592542.122	4377865.531
ASOW-22-NECCT-SP-578	A	NECCT	6/12/2022	05:35	25	593124.705	4374085.670
ASOW-22-NECCT-SP-578	B	NECCT	6/12/2022	05:38	25	593106.942	4374086.727
ASOW-22-NECCT-SP-578	C	NECCT	6/12/2022	05:41	25	593104.087	4374104.033
ASOW-22-NECCT-SP-578	D	NECCT	6/12/2022	05:44	25	593120.908	4374110.182
ASOW-22-NECCT-SP-578	E	NECCT	6/12/2022	05:46	25	593131.517	4374100.691
ASOW-22-NECCT-SP-579	A	NECCT	6/12/2022	08:29	24	592560.460	4375154.732
ASOW-22-NECCT-SP-579	B	NECCT	6/12/2022	08:32	24	592545.738	4375173.126
ASOW-22-NECCT-SP-579	C	NECCT	6/12/2022	08:35	24	592532.442	4375168.698
ASOW-22-NECCT-SP-579	D	NECCT	6/12/2022	08:38	24	592528.106	4375157.052
ASOW-22-NECCT-SP-579	E	NECCT	6/12/2022	08:41	24	592540.168	4375147.978

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Station ID	Replicate	Subarea	Image Collection Date	Image Collection Time (UTC)	Water Depth (m)	Easting (m)	Northing (m)
ASOW-22-NECCT-SP-580	A	NECCT	6/12/2022	07:20	26	593109.905	4371513.699
ASOW-22-NECCT-SP-580	B	NECCT	6/12/2022	07:26	26	593098.716	4371519.976
ASOW-22-NECCT-SP-580	C	NECCT	6/12/2022	07:29	26	593103.420	4371537.587
ASOW-22-NECCT-SP-580	D	NECCT	6/12/2022	07:31	26	593122.230	4371534.817
ASOW-22-NECCT-SP-580	E	NECCT	6/12/2022	07:34	26	593123.032	4371524.508
ASOW-22-NECCT-SP-581	A	NECCT	6/12/2022	06:40	25	592557.405	4370697.970
ASOW-22-NECCT-SP-581	B	NECCT	6/12/2022	06:43	25	592552.961	4370712.790
ASOW-22-NECCT-SP-581	C	NECCT	6/12/2022	06:45	25	592537.389	4370719.088
ASOW-22-NECCT-SP-581	D	NECCT	6/12/2022	06:47	25	592526.672	4370708.436
ASOW-22-NECCT-SP-581	E	NECCT	6/12/2022	06:49	25	592529.561	4370696.885
ASOW-22-NECCT-SP-582	A	NECCT	6/12/2022	12:39	27	593171.837	4384204.700
ASOW-22-NECCT-SP-582	B	NECCT	6/12/2022	12:41	27	593182.729	4384212.872
ASOW-22-NECCT-SP-582	C	NECCT	6/12/2022	12:44	27	593173.579	4384229.078
ASOW-22-NECCT-SP-582	D	NECCT	6/12/2022	12:46	27	593157.509	4384226.666
ASOW-22-NECCT-SP-582	E	NECCT	6/12/2022	12:48	27	593153.634	4384215.061
ASOW-22-NECCT-SP-583	A	NECCT	6/12/2022	16:39	26	593880.520	4391889.839
ASOW-22-NECCT-SP-583	B	NECCT	6/12/2022	16:42	26	593868.190	4391884.803
ASOW-22-NECCT-SP-583	C	NECCT	6/12/2022	16:44	26	593865.897	4391872.521
ASOW-22-NECCT-SP-583	D	NECCT	6/12/2022	16:46	26	593857.837	4391890.280
ASOW-22-NECCT-SP-583	E	NECCT	6/12/2022	16:48	26	593854.166	4391878.671
ASOW-22-NECCT-SP-584	A	NECCT	6/12/2022	20:52	26	593700.833	4395935.387
ASOW-22-NECCT-SP-584	B	NECCT	6/12/2022	20:53	26	593697.210	4395940.692
ASOW-22-NECCT-SP-584	C	NECCT	6/12/2022	20:55	26	593692.485	4395947.705
ASOW-22-NECCT-SP-584	D	NECCT	6/12/2022	20:56	26	593695.311	4395957.678
ASOW-22-NECCT-SP-584	E	NECCT	6/12/2022	20:58	26	593690.649	4395960.193
ASOW-22-NECCT-SP-586	A	NECCT	6/13/2022	00:03	24	593326.051	4401692.594
ASOW-22-NECCT-SP-586	B	NECCT	6/13/2022	00:05	24	593330.724	4401683.113
ASOW-22-NECCT-SP-586	C	NECCT	6/13/2022	00:06	24	593334.723	4401677.389
ASOW-22-NECCT-SP-586	D	NECCT	6/13/2022	00:08	24	593336.877	4401670.521
ASOW-22-NECCT-SP-586	E	NECCT	6/13/2022	00:09	24	593338.948	4401662.691
ASOW-22-NECCT-SP-588	A	NECCT	6/13/2022	02:17	23	593273.856	4408445.291
ASOW-22-NECCT-SP-588	B	NECCT	6/13/2022	02:19	23	593270.731	4408436.997
ASOW-22-NECCT-SP-588	C	NECCT	6/13/2022	02:21	23	593266.933	4408430.486
ASOW-22-NECCT-SP-588	D	NECCT	6/13/2022	02:22	23	593266.697	4408423.075
ASOW-22-NECCT-SP-588	E	NECCT	6/13/2022	02:24	23	593266.804	4408415.735
ASOW-22-NECCT-SP-592	A	NECCT	6/13/2022	08:07	22	595655.707	4429873.291
ASOW-22-NECCT-SP-592	B	NECCT	6/13/2022	08:09	22	595668.731	4429871.763
ASOW-22-NECCT-SP-592	C	NECCT	6/13/2022	08:11	22	595682.760	4429875.177
ASOW-22-NECCT-SP-592	D	NECCT	6/13/2022	08:13	22	595678.934	4429887.648
ASOW-22-NECCT-SP-592	E	NECCT	6/13/2022	08:16	22	595664.841	4429888.104
ASOW-22-NECCT-SP-595	A	NECCT	6/13/2022	14:54	24	596911.294	4438922.562
ASOW-22-NECCT-SP-595	B	NECCT	6/13/2022	14:56	24	596922.417	4438929.746
ASOW-22-NECCT-SP-595	C	NECCT	6/13/2022	14:58	24	596928.108	4438937.565
ASOW-22-NECCT-SP-595	D	NECCT	6/13/2022	15:00	24	596910.692	4438946.508
ASOW-22-NECCT-SP-595	E	NECCT	6/13/2022	15:02	24	596898.762	4438936.942

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Station ID	Replicate	Subarea	Image Collection Date	Image Collection Time (UTC)	Water Depth (m)	Easting (m)	Northing (m)
ASOW-22-NECCT-SP-597	A	NECCT	6/13/2022	16:15	25	597830.949	4443622.014
ASOW-22-NECCT-SP-597	B	NECCT	6/13/2022	16:16	25	597837.108	4443613.042
ASOW-22-NECCT-SP-597	C	NECCT	6/13/2022	16:18	25	597829.412	4443608.256
ASOW-22-NECCT-SP-597	D	NECCT	6/13/2022	16:20	25	597830.686	4443600.637
ASOW-22-NECCT-SP-597	E	NECCT	6/13/2022	16:22	25	597821.668	4443595.468
ASOW-22-NECCT-SP-598	A	NECCT	6/13/2022	18:42	24	597774.005	4446519.858
ASOW-22-NECCT-SP-598	B	NECCT	6/13/2022	18:44	24	597769.139	4446513.433
ASOW-22-NECCT-SP-598	C	NECCT	6/13/2022	18:45	24	597769.097	4446504.917
ASOW-22-NECCT-SP-598	D	NECCT	6/13/2022	18:47	24	597770.416	4446496.360
ASOW-22-NECCT-SP-598	E	NECCT	6/13/2022	18:49	24	597765.744	4446490.030
ASOW-22-NECCT-SP-599	A	NECCT	6/13/2022	19:18	25	597481.831	4447375.772
ASOW-22-NECCT-SP-599	B	NECCT	6/13/2022	19:20	25	597476.700	4447369.628
ASOW-22-NECCT-SP-599	C	NECCT	6/13/2022	19:21	25	597475.983	4447362.123
ASOW-22-NECCT-SP-599	D	NECCT	6/13/2022	19:23	25	597475.931	4447353.658
ASOW-22-NECCT-SP-599	E	NECCT	6/13/2022	19:24	25	597474.252	4447346.376
ASOW-22-NECCT-SP-600	A	NECCT	6/13/2022	21:00	24	598112.247	4453054.470
ASOW-22-NECCT-SP-600	B	NECCT	6/13/2022	21:02	24	598116.163	4453058.373
ASOW-22-NECCT-SP-600	C	NECCT	6/13/2022	21:03	24	598123.778	4453061.834
ASOW-22-NECCT-SP-600	D	NECCT	6/13/2022	21:05	24	598116.748	4453071.505
ASOW-22-NECCT-SP-600	E	NECCT	6/13/2022	21:06	24	598119.070	4453081.136
ASOW-22-NECCT-SP-601	A	NECCT	6/13/2022	22:52	25	597599.196	4455726.535
ASOW-22-NECCT-SP-601	B	NECCT	6/13/2022	22:54	25	597604.450	4455720.488
ASOW-22-NECCT-SP-601	C	NECCT	6/13/2022	22:55	25	597603.406	4455714.207
ASOW-22-NECCT-SP-601	D	NECCT	6/13/2022	22:57	25	597603.704	4455705.787
ASOW-22-NECCT-SP-601	E	NECCT	6/13/2022	22:58	26	597604.399	4455698.386
ASOW-22-NECCT-SP-602	A	NECCT	6/14/2022	03:06	24	596333.394	4460758.589
ASOW-22-NECCT-SP-602	B	NECCT	6/14/2022	03:08	24	596328.715	4460764.531
ASOW-22-NECCT-SP-602	C	NECCT	6/14/2022	03:10	24	596318.381	4460757.722
ASOW-22-NECCT-SP-602	D	NECCT	6/14/2022	03:11	24	596332.012	4460742.906
ASOW-22-NECCT-SP-602	E	NECCT	6/14/2022	03:13	24	596339.112	4460753.207
ASOW-22-NECCT-SP-603	A	NECCT	6/14/2022	04:43	24	596573.125	4460766.343
ASOW-22-NECCT-SP-603	B	NECCT	6/14/2022	04:46	24	596590.743	4460766.641
ASOW-22-NECCT-SP-603	C	NECCT	6/14/2022	04:48	24	596597.294	4460752.737
ASOW-22-NECCT-SP-603	D	NECCT	6/14/2022	04:52	24	596577.778	4460746.950
ASOW-22-NECCT-SP-603	E	NECCT	6/14/2022	04:54	24	596581.113	4460735.396
ASOW-22-NECCT-SP-603	F	NECCT	6/14/2022	07:14	24	596578.152	4460758.341
ASOW-22-NECCT-SP-603	G	NECCT	6/14/2022	07:15	24	596586.627	4460755.891
ASOW-22-NECCT-SP-603	H	NECCT	6/14/2022	07:18	24	596593.613	4460745.342
ASOW-22-NECCT-SP-604	A	NECCT	6/14/2022	08:13	24	595645.581	4461908.668
ASOW-22-NECCT-SP-604	B	NECCT	6/14/2022	08:16	24	595635.474	4461918.974
ASOW-22-NECCT-SP-604	C	NECCT	6/14/2022	08:18	24	595627.202	4461917.216
ASOW-22-NECCT-SP-604	D	NECCT	6/14/2022	08:20	24	595620.845	4461912.019
ASOW-22-NECCT-SP-604	E	NECCT	6/14/2022	08:22	24	595629.990	4461902.377

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ASOW-22-NECCT-SP-605	A	NECCT	6/14/2022	09:24	22	594718.099	4464039.462
ASOW-22-NECCT-SP-605	B	NECCT	6/14/2022	09:26	22	594706.093	4464040.960
ASOW-22-NECCT-SP-605	C	NECCT	6/14/2022	09:28	22	594699.024	4464029.205
ASOW-22-NECCT-SP-605	D	NECCT	6/14/2022	09:31	22	594706.832	4464024.413
ASOW-22-NECCT-SP-605	E	NECCT	6/14/2022	09:33	22	594719.041	4464025.366
ASOW-22-NECCT-SP-606	A	NECCT	6/14/2022	14:31	21	594355.964	4466141.187
ASOW-22-NECCT-SP-606	B	NECCT	6/14/2022	14:34	21	594349.781	4466154.583
ASOW-22-NECCT-SP-606	C	NECCT	6/14/2022	14:36	21	594335.219	4466154.338
ASOW-22-NECCT-SP-606	D	NECCT	6/14/2022	14:38	21	594330.940	4466143.000
ASOW-22-NECCT-SP-606	E	NECCT	6/14/2022	14:41	21	594339.673	4466136.995
ASOW-22-NECCT-SP-607	A	NECCT	6/14/2022	10:28	19	593872.632	4466302.190
ASOW-22-NECCT-SP-607	B	NECCT	6/14/2022	10:30	19	593859.407	4466314.124
ASOW-22-NECCT-SP-607	C	NECCT	6/14/2022	10:32	19	593847.028	4466308.407
ASOW-22-NECCT-SP-607	D	NECCT	6/14/2022	10:34	19	593844.613	4466293.971
ASOW-22-NECCT-SP-607	E	NECCT	6/14/2022	10:37	19	593857.721	4466287.317
ASOW-22-NECCT-SP-608	A	NECCT	6/14/2022	13:18	22	593072.373	4468922.336
ASOW-22-NECCT-SP-608	B	NECCT	6/14/2022	13:22	22	593059.246	4468918.120
ASOW-22-NECCT-SP-608	C	NECCT	6/14/2022	13:23	22	593050.339	4468910.448
ASOW-22-NECCT-SP-608	D	NECCT	6/14/2022	13:26	22	593058.180	4468901.043
ASOW-22-NECCT-SP-608	E	NECCT	6/14/2022	13:28	22	593070.585	4468899.725
ASOW-22-NECCT-SP-609	A	NECCT	6/14/2022	16:03	20	593319.450	4471377.385
ASOW-22-NECCT-SP-609	B	NECCT	6/14/2022	16:05	20	593319.086	4471367.315
ASOW-22-NECCT-SP-609	C	NECCT	6/14/2022	16:07	20	593311.650	4471361.567
ASOW-22-NECCT-SP-609	D	NECCT	6/14/2022	16:09	20	593305.506	4471355.306
ASOW-22-NECCT-SP-609	E	NECCT	6/14/2022	16:11	20	593299.818	4471362.867
ASOW-22-NECCT-SP-610	A	NECCT	6/14/2022	22:48	19	592044.161	4473838.082
ASOW-22-NECCT-SP-610	B	NECCT	6/14/2022	22:49	19	592049.047	4473831.663
ASOW-22-NECCT-SP-610	C	NECCT	6/14/2022	22:51	19	592054.418	4473824.640
ASOW-22-NECCT-SP-610	D	NECCT	6/14/2022	22:52	19	592059.661	4473818.188
ASOW-22-NECCT-SP-610	E	NECCT	6/14/2022	22:54	19	592065.631	4473814.359
ASOW-22-NECCT-SP-611	A	NECCT	6/14/2022	23:55	20	592256.535	4474235.387
ASOW-22-NECCT-SP-611	B	NECCT	6/14/2022	23:56	20	592259.818	4474229.119
ASOW-22-NECCT-SP-611	C	NECCT	6/14/2022	23:57	20	592261.596	4474220.783
ASOW-22-NECCT-SP-611	D	NECCT	6/14/2022	23:59	20	592260.036	4474211.975
ASOW-22-NECCT-SP-611	E	NECCT	6/15/2022	00:01	20	592259.814	4474203.849
ASOW-22-NECCT-SP-613	A	NECCT	6/14/2022	20:41	19	591978.220	4473646.757
ASOW-22-NECCT-SP-614	A	NECCT	6/14/2022	20:36	19	592051.011	4473686.598
ASOW-22-NECCT-SP-615	A	NECCT	6/14/2022	20:30	19	592164.662	4473718.394
ASOW-22-NECCT-SP-615	B	NECCT	6/14/2022	21:54	19	592167.167	4473718.597
ASOW-22-NECCT-SP-615	C	NECCT	6/14/2022	21:55	19	592165.300	4473720.744
ASOW-22-NECCT-SP-615	D	NECCT	6/14/2022	21:58	19	592159.254	4473723.940
ASOW-22-NECCT-SP-617	A	NECCT	6/14/2022	20:15	19	592309.401	4473806.072
ASOW-22-NECCT-SP-618	A	NECCT	6/14/2022	20:08	20	592431.168	4473887.489
ASOW-22-NECCT-SP-619	A	NECCT	6/14/2022	20:01	20	592547.897	4473929.252
ASOW-22-NECCT-SP-620	A	NECCT	6/14/2022	19:53	21	592696.291	4474014.996
ASOW-22-NECCT-SP-621	A	NECCT	6/14/2022	19:47	21	592773.782	4474054.138

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Station ID	Replicate	Subarea	Image Collection Date	Image Collection Time (UTC)	Water Depth (m)	Easting (m)	Northing (m)
ASOW-22-NECCT-SP-622	A	NECCT	6/14/2022	19:38	21	592878.386	4474095.427
ASOW-22-NECCT-SP-623	A	NECCT	6/13/2022	10:26	24	596170.815	4434791.113
ASOW-22-NECCT-SP-624	A	NECCT	6/13/2022	10:34	24	596288.470	4434705.697
ASOW-22-NECCT-SP-624	B	NECCT	6/13/2022	12:44	24	596271.226	4434716.692
ASOW-22-NECCT-SP-625	A	NECCT	6/13/2022	10:42	23	596389.355	4434621.552
ASOW-22-NECCT-SP-625	B	NECCT	6/13/2022	12:57	23	596381.479	4434619.967
ASOW-22-NECCT-SP-626	A	NECCT	6/13/2022	10:49	23	596465.322	4434562.561
ASOW-22-NECCT-SP-626	B	NECCT	6/13/2022	13:06	23	596463.627	4434570.853
ASOW-22-NECCT-SP-627	A	NECCT	6/13/2022	10:58	23	596605.388	4434447.628
ASOW-22-NECCT-SP-627	B	NECCT	6/13/2022	13:15	23	596599.246	4434454.314
ASOW-22-NECCT-SP-628	A	NECCT	6/13/2022	11:09	23	596743.231	4434331.486
ASOW-22-NECCT-SP-629	A	NECCT	6/13/2022	11:15	23	596821.258	4434263.901
ASOW-22-NECCT-SP-630	A	NECCT	6/13/2022	11:21	23	596882.222	4434218.863
ASOW-22-NECCT-SP-631	A	NECCT	6/13/2022	11:29	24	596977.629	4434146.500
ASOW-22-NECCT-SP-632	A	NECCT	6/13/2022	11:37	25	597094.426	4434052.353
ASOW-22-NECCT-SP-633	A	NECCT	6/12/2022	19:39	25	593250.477	4393603.975
ASOW-22-NECCT-SP-634	A	NECCT	6/12/2022	19:32	26	593378.949	4393654.805
ASOW-22-NECCT-SP-635	A	NECCT	6/12/2022	19:27	26	593468.194	4393619.619
ASOW-22-NECCT-SP-636	A	NECCT	6/12/2022	19:21	26	593534.848	4393673.611
ASOW-22-NECCT-SP-637	A	NECCT	6/12/2022	19:17	26	593631.076	4393678.548
ASOW-22-NECCT-SP-638	A	NECCT	6/12/2022	19:12	26	593749.425	4393701.746
ASOW-22-NECCT-SP-639	A	NECCT	6/12/2022	19:08	26	593866.480	4393721.482
ASOW-22-NECCT-SP-640	A	NECCT	6/12/2022	19:04	26	593990.265	4393736.523
ASOW-22-NECCT-SP-641	A	NECCT	6/12/2022	18:58	26	594129.030	4393754.501
ASOW-22-NECCT-SP-642	A	NECCT	6/12/2022	18:51	26	594259.137	4393747.583
ASOW-22-NECCNJ-SP-643	A	NECCNJ	6/14/2022	00:25	20	592856.795	4455582.581
ASOW-22-NECCNJ-SP-644	A	NECCNJ	6/14/2022	00:29	20	592858.262	4455561.043
ASOW-22-NECCNJ-SP-645	A	NECCNJ	6/14/2022	00:34	21	592841.275	4455519.245
ASOW-22-NECCNJ-SP-646	A	NECCNJ	6/14/2022	00:38	21	592849.553	4455485.274
ASOW-22-NECCNJ-SP-647	A	NECCNJ	6/14/2022	00:43	21	592838.064	4455442.834
ASOW-22-NECCNJ-SP-648	A	NECCNJ	6/14/2022	00:49	21	592819.873	4455375.440
ASOW-22-NECCNJ-SP-649	A	NECCNJ	6/14/2022	00:55	21	592821.578	4455328.878
ASOW-22-NECCNJ-SP-650	A	NECCNJ	6/14/2022	00:59	21	592805.778	4455294.868
ASOW-22-NECCNJ-SP-651	A	NECCNJ	6/14/2022	01:04	21	592800.257	4455268.945
ASOW-22-NECCNJ-SP-652	A	NECCNJ	6/14/2022	01:09	21	592800.861	4455221.623
ASOW-22-NECCT-SPG-347	A	NECCT	5/27/2022	12:10	21	592837.230	4472520.381
ASOW-22-NECCT-SPG-347	B	NECCT	5/27/2022	12:13	21	592825.366	4472531.241
ASOW-22-NECCT-SPG-347	C	NECCT	5/27/2022	12:15	21	592814.964	4472535.784
ASOW-22-NECCT-SPG-347	D	NECCT	5/27/2022	12:17	21	592808.700	4472520.695
ASOW-22-NECCT-SPG-347	E	NECCT	5/27/2022	12:20	21	592827.333	4472513.350
ASOW-22-NECCT-SPG-347	F	NECCT	5/27/2022	17:10	21	592825.925	4472510.821
ASOW-22-NECCT-SPG-347	G	NECCT	5/27/2022	17:12	21	592838.330	4472519.927
ASOW-22-NECCT-SPG-347	H	NECCT	5/27/2022	17:14	21	592831.486	4472507.673
ASOW-22-NECCT-SPG-347	I	NECCT	5/27/2022	17:16	21	592816.900	4472521.695
ASOW-22-NECCT-SPG-347	J	NECCT	5/27/2022	17:19	21	592834.242	4472519.588

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ASOW-22-NECCT-SPG-353	A	NECCT	6/3/2022	21:45	23	595947.107	4461725.516
ASOW-22-NECCT-SPG-353	B	NECCT	6/3/2022	21:47	23	595947.309	4461733.573
ASOW-22-NECCT-SPG-353	C	NECCT	6/3/2022	21:48	23	595936.938	4461730.470
ASOW-22-NECCT-SPG-353	D	NECCT	6/3/2022	21:50	23	595938.816	4461737.916
ASOW-22-NECCT-SPG-353	E	NECCT	6/3/2022	21:51	23	595931.171	4461739.131
ASOW-22-NECCT-SPG-372	A	NECCT	6/4/2022	03:15	24	598051.418	4450429.766
ASOW-22-NECCT-SPG-372	B	NECCT	6/4/2022	03:18	24	598042.688	4450432.704
ASOW-22-NECCT-SPG-372	C	NECCT	6/4/2022	03:20	24	598040.799	4450443.499
ASOW-22-NECCT-SPG-372	D	NECCT	6/4/2022	03:23	24	598040.561	4450456.445
ASOW-22-NECCT-SPG-372	E	NECCT	6/4/2022	03:25	24	598054.948	4450447.431
ASOW-22-NECCT-SPG-378	A	NECCT	6/4/2022	08:44	25	597247.358	4439342.248
ASOW-22-NECCT-SPG-378	B	NECCT	6/4/2022	08:46	25	597234.234	4439338.636
ASOW-22-NECCT-SPG-378	C	NECCT	6/4/2022	08:49	25	597228.188	4439321.123
ASOW-22-NECCT-SPG-378	D	NECCT	6/4/2022	08:51	25	597240.564	4439308.512
ASOW-22-NECCT-SPG-378	E	NECCT	6/4/2022	08:53	25	597256.373	4439319.029
ASOW-22-NECCT-SPG-385	A	NECCT	6/4/2022	13:41	22	595159.303	4430247.321
ASOW-22-NECCT-SPG-385	B	NECCT	6/4/2022	13:44	22	595143.942	4430246.933
ASOW-22-NECCT-SPG-385	C	NECCT	6/4/2022	13:47	22	595136.685	4430233.595
ASOW-22-NECCT-SPG-385	D	NECCT	6/4/2022	13:49	22	595138.935	4430221.075
ASOW-22-NECCT-SPG-385	E	NECCT	6/4/2022	13:53	22	595155.002	4430220.646
ASOW-22-NECCT-SPG-391	A	NECCT	6/4/2022	17:30	25	594632.922	4423335.032
ASOW-22-NECCT-SPG-391	B	NECCT	6/4/2022	17:32	25	594635.175	4423327.861
ASOW-22-NECCT-SPG-391	C	NECCT	6/4/2022	17:34	25	594642.310	4423323.980
ASOW-22-NECCT-SPG-391	D	NECCT	6/4/2022	17:36	25	594641.213	4423313.968
ASOW-22-NECCT-SPG-391	E	NECCT	6/4/2022	17:38	25	594635.435	4423306.861
ASOW-22-NECCT-SPG-398	A	NECCT	6/5/2022	00:49	24	593893.929	4412142.168
ASOW-22-NECCT-SPG-398	B	NECCT	6/5/2022	00:53	24	593890.812	4412135.620
ASOW-22-NECCT-SPG-398	C	NECCT	6/5/2022	00:55	24	593904.451	4412127.907
ASOW-22-NECCT-SPG-398	D	NECCT	6/5/2022	00:57	24	593893.843	4412130.245
ASOW-22-NECCT-SPG-398	E	NECCT	6/5/2022	00:58	24	593895.216	4412122.853
ASOW-22-NECCT-SPG-409	A	NECCT	6/5/2022	17:18	25	593412.614	4401205.494
ASOW-22-NECCT-SPG-409	B	NECCT	6/5/2022	17:21	25	593405.068	4401212.785
ASOW-22-NECCT-SPG-409	C	NECCT	6/5/2022	17:22	25	593404.607	4401225.536
ASOW-22-NECCT-SPG-409	D	NECCT	6/5/2022	17:25	25	593413.992	4401226.751
ASOW-22-NECCT-SPG-409	E	NECCT	6/5/2022	17:27	25	593417.181	4401223.511
ASOW-22-NECCT-SPG-417	A	NECCT	6/6/2022	00:21	27	593990.954	4391496.796
ASOW-22-NECCT-SPG-417	B	NECCT	6/6/2022	00:23	27	593998.841	4391500.095
ASOW-22-NECCT-SPG-417	C	NECCT	6/6/2022	00:25	27	593994.748	4391507.743
ASOW-22-NECCT-SPG-417	D	NECCT	6/6/2022	00:26	27	594005.038	4391508.307
ASOW-22-NECCT-SPG-417	E	NECCT	6/6/2022	00:28	27	594006.919	4391514.862
ASOW-22-NECCT-SPG-435	A	NECCT	6/6/2022	17:33	26	592561.380	4382169.094
ASOW-22-NECCT-SPG-435	B	NECCT	6/6/2022	17:34	26	592568.564	4382174.111
ASOW-22-NECCT-SPG-435	C	NECCT	6/6/2022	17:35	26	592580.826	4382188.251
ASOW-22-NECCT-SPG-435	D	NECCT	6/6/2022	17:37	26	592573.333	4382185.799
ASOW-22-NECCT-SPG-435	E	NECCT	6/6/2022	17:39	26	592584.255	4382175.050

Stations Sampled

Station ID	Replicate	Subarea	Image Collection Date	Image Collection Time (UTC)	Water Depth (m)	Easting (m)	Northing (m)
ASOW-22-NECCT-SPG-461	A	NECCT	5/30/2022	16:47	25	592933.949	4371098.608
ASOW-22-NECCT-SPG-461	B	NECCT	5/30/2022	16:49	25	592944.095	4371099.214
ASOW-22-NECCT-SPG-461	C	NECCT	5/30/2022	16:51	25	592955.522	4371102.899
ASOW-22-NECCT-SPG-461	D	NECCT	5/30/2022	16:52	25	592961.327	4371102.901
ASOW-22-NECCT-SPG-461	E	NECCT	5/30/2022	16:54	25	592965.782	4371104.665
ASOW-22-NECCT-SPG-569	A	NECCT	6/12/2022	21:51	26	593599.434	4398008.284
ASOW-22-NECCT-SPG-569	B	NECCT	6/12/2022	21:53	26	593609.793	4398011.608
ASOW-22-NECCT-SPG-569	C	NECCT	6/12/2022	21:55	26	593611.549	4398002.992
ASOW-22-NECCT-SPG-569	D	NECCT	6/12/2022	21:56	26	593611.549	4398002.992
ASOW-22-NECCT-SPG-569	E	NECCT	6/12/2022	21:58	26	593617.296	4397991.500
ASOW-22-NECCT-SPG-612	A	NECCT	6/15/2022	01:17	17	591047.026	4477116.020
ASOW-22-NECCT-SPG-612	B	NECCT	6/15/2022	01:18	17	591045.036	4477108.619
ASOW-22-NECCT-SPG-612	C	NECCT	6/15/2022	01:20	17	591038.685	4477103.336
ASOW-22-NECCT-SPG-612	D	NECCT	6/15/2022	01:22	17	591038.499	4477094.909
ASOW-22-NECCT-SPG-612	E	NECCT	6/15/2022	01:24	17	591036.990	4477086.107
ASOW-22-NECCT-SPG-616	A	NECCT	6/14/2022	20:22	19	592213.541	4473756.607

Notes:

UTC = Coordinated Universal Time

EPSG code is 26918. Coordinate system is NAD 83 UTM Zone 18N.

Appendix A2

SPI–PV Collection Forms

integral

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW
Date: 7/14/22 Boat: R/V YETI
Project No.: C3096
Crew: Sam Blakeley

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Frame Count (#)	Stop Height (in.)	Lead Weight (each side)	Comments
NEccNY 340	A	11:56	7.~~98~~		13	2	5 SPI, 3 PV
	B	13:12			↓	↓	very turbid
	C	13:14					
	D	13:16					
	E	13:17			↓	↓	
" " 338	A	13:40	7.83		13	2	5 SPI, 4 PV
	B	13:41			↓	↓	
	C	13:43					
	D	13:46					
	E	13:47			↓	↓	
" " 329	A	14:09	11.6		13	2	5 SPI, 3 PV
	B	14:11			↓	↓	
	C	14:12					
	D	14:16					
	E	14:17					
	F	14:36	10.85				
	G	14:39			↓	↓	
" " 324	A	15:13	4.7		13	2	5 SPI, 4 PV
	B	15:15			↓	↓	
	C	15:17					
	D	15:19					
	E	15:21			↓	↓	

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW
Date: 7/14/22 Boat: R/V YETI
Project No.: C3096
Crew: S. Blakeslee

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Frame Count (#)	Stop Height (in.)	Lead Weight (each side)	Comments
NECCNY 330	A	15:45			13	2	5 SPI 3 PV
	B	15:47			↓	↓	
	C	15:50					
	D	15:53					
	E	15:57					
	F	16:00			↓	↓	
" " 332	A	16:21			13	2	5 SPI, 3 PV
	B	16:23			↓	↓	
	C	16:26					PV trigger sticking due to
	D	16:29					sediment - No PV on B, C,
	E	16:31					E, H
	F	16:45					
	G	16:47					
	H	16:49			↓	↓	
" " 335	A	17:09			13	2	3 PV
	B	17:12			↓	↓	
	C	17:14					
	D	17:17					PV trigger sticking
	E	17:21					No PV on C-F
	F	17:23			↓	↓	
	G	17:41			13	3	
	H	17:42			↓	↓	
	I	17:45			↓	↓	

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW **Project No.:** C3096
Date: 7-14-2022 **Boat:** R/V YETI **Crew:** S. Blakeslee

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Frame Count (#)	Stop Height (in.)	Lead Weight (each side)	Comments
control 319	A	18:08			13	2	5 SPI, ? PV
	B	18:10			↓	↓	
	C	18:11					
	D	18:13					
	E	18:14					
	F	18:16					
	G	18:32					
	H	18:35					
	I	18:37			↓	↓	
" " 320	A	18:47			13	2	5 SPI, 5 PV
	B	18:49					very turbid
	C	18:52					
	D	18:53					PV trigger stuck C-F
	E	18:55					
	F	18:57			↓	↓	
~~B~~ 320	G	19:17			13	2	
	H	19:20					
	I	19:22					
	J	19:23					
	K	19:27			↓	↓	
~~320~~							

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW **Project No.:** C3096
Date: 7-14-2022 **Boat:** R/V YETI **Crew:** S. Blakesley

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Frame Count (#)	Stop Height (in.)	Lead Weight (each side)	Comments
" " 318	A	19:43			13	4	5 SPI, 3 PV &
	B	19:46			↓	↓	very turbid
	C	19:48					
	D	19:51					
	E	19:52					
	F	19:54			↓	↓	
" " 316	A	20:05			13	4	5 SPI, 3 PV
	B	20:07			↓	↓	very turbid
	C	20:09					
	D	20:11					
	E	20:13					
7/14	F	20:14			↓	↓	
7/15 317?	A				13	4	5 SPI, 4 PV - turbid
	B						
	C		NEXT PAGE→				
	D						
	E						
	F						

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW
Project No.: C-3076
Date: 7/15/22 Boat: R/V Yeti
Crew: SRP

	Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Frame Count (#)	Stop Height (in.)	Lead Weight (each side)	Comments
Control	317	A	11:52			13	4	5 SPI, 4 PV
		B	11:54			↓	↓	TURBID
		C	11:57					
		D	12:00					
		E	12:03					
		F	12:05			↓	↓	
NE Ccny	325	A	12:26			13	4	5 SPI, 5 PV
		B	12:28			↓	↓	
		C	12:29					
		D	12:31					
		E	12:32					
		F	12:36					
		G	12:39			↓	↓	No SPI
" "	326	A	12:59			13	4	4 SPI, 5 PV
		B	13:01			↓	↓	No SPI for B
		C	13:05					
		D	13:10					
		E	13:14					
		F	13:18			↓	↓	
NE Ccny	327	A	13:31			13	4	5 SPI 5 PV
		B	13:35			↓	↓	
		C	13:44					
		D	13:47					
		E				↓	↓	

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW **Project No.:** C3096
Date: 7-15-2022 **Boat:** R/V YETI **Crew:** SB

	Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Frame Count (#)	Stop Height (in.)	Lead Weight (each side)	Comments
NECCNY	327	B	13:54			12	4	~~5 SPI, 5 PV~~
		B2	13:56			↓	↓	
NECCNY	333	A	14:22			13	5	5 SPI, 5 PV
		B	14:24					
		C	14:26					
		D	14:32					
		E	14:34					
" "	342	A	15:05			13	5	5 SPI, 5 PV
		B	15:11					
		C	15:13					
		D	15:18					
		E	15:21					
		F	15:23					
" "	322	A	15:50			13	5	5 SPI 4 PV
		B	15:52					
		C	15:54					
		D	15:58					
		E	16:00					

Note: Number of lead weights on each side x 53 lb = total weight on both racks

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SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW
Date: 7-15-2022 **Boat:** R/V YETI
Project No.: C3096
Crew: SM

	Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Frame Count (#)	Stop Height (in.)	Lead Weight (each side)	Comments
NECCNY	315	A	16:38			13	5	5 SPI 5 PV
		B	16:42			↓	↓	
		C	16:44			↓	↓	
		D	16:48			↓	↓	
		E	16:49			↓	↓	
~~NECCNY~~ control	311	A	17:11			13	5	5 SPI, 5 PV
		B	17:13			↓	↓	
		C	17:16			↓	↓	
		D	17:18			↓	↓	
		E	17:22			↓	↓	
Control	312	A	18:04			13	5	5 SPI, 5 PV
		B	18:06			↓	↓	
time		C	18:08			↓	↓	3 ft. PV - unclear,
		D	18:11			↓	↓	switched back after
		E	18:12			↓	↓	this station
		F	18:14			↓	↓	
Control	310	A	18:42			13	5	5 SPI, 3 PV
		B	18:43			↓	↓	
		C	18:45			↓	↓	
		D	18:48			↓	↓	
		E	18:51			↓	↓	stuck trigger

Note: Number of lead weights on each side x 53 lb = total weight on both racks

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SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW **Project No.:** C3096
Date: 7-15-22 **Boat:** YETI **Crew:** SRG

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Frame Count (#)	Stop Height (in.)	Lead Weight (each side)	Comments
control 309	A	19:09			17	5	5 SPI, 5 PV
	B	19:11			↓	↓	
	C	19:35					
	D	19:17					
	E	19:19			↓	↓	
" " 308	A	19:46			13	5	5 SPI, 5 PV
	B	19:46			↓	↓	
	C	19:49					
	D	19:51					
	E	19:52			↓	↓	

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW **Project No.:** C3096
Date: 7-16-22 **Boat:** RV YETI **Crew:** SB

	Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Frame Count (#)	Stop Height (in.)	Lead Weight (each side)	Comments
NECCNY	321	A	12:05			13	3	5 SPI 3 PV
		B	12:09			↓	↓	Turbid
		C	12:11			↓	↓	
		D	12:13			↓	↓	
		E	12:17			↓	↓	
NECCNY	313	A	12:41			13	5	5 SPI, 5 PV
		B	12:44			↓	↓	
		C	12:47			↓	↓	
		D	12:52			↓	↓	
		E	12:54			↓	↓	
NECCNY	306	A	13:19			13	3	5 SPI, 3 PV *
		B	13:23			↓	↓	very very turbid
		C	13:26			↓	↓	
		D	13:28			↓	↓	
		E	13:30			↓	↓	
		F	13:52			↓	↓	
		G	13:53			↓	↓	
NECCNY	307	A	14:16			13	5	5 PV
		B	14:20			↓	↓	
		C	14:23			↓	↓	
		D	14:25			↓	↓	
		E	14:27			↓	↓	

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW
Date: 7-16-22 Boat: R/V Yeti
Project No.: C3096
Crew: SRS

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Frame Count (#)	Stop Height (in.)	Lead Weight (each side)	Comments
[illegible]	[illegible]	[illegible]			13	5	5 SPI, 5 PV
NECCNY 302	A	14:54			↓	↓	
	B	14:55					
	C	14:56					
	D	14:58					
	E	14:59					no SPI
	F	15:01					
NECCNY 301	A	15:26			13	5	5 SPI, 4 PV
	B	15:27			↓	↓	
	C	15:28					
	D	15:31					
	E	15:33					

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022 **Project No.:** C3906-1201
Date: 27MAY22 **Boat:** R/V Enterprise **Crew:** S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	4TC Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
341	A	0038	8	17	5	✓	3 SPI/PV - 36" PV
	B	0100	↓			✓	33" PV
	C	0118	8			✓	36" PV
344	A	0603	17				5 SPI/5 PV
	B	0610	|				PV trigger @ 27"
	C	0617	|				
	D	0624	↓				
	E	0633	17				
346	A	0949	19				5 SPI/5 PV
	B	0951					PV trigger @ 27"
	C	0954					Poor visibility
	D	0957					
	E	1003	19				
347	A	1216	21				2 Decent (Analyzable)
	B	1213					5 taken PVS
	C	1215					5 SPI 28"
	D	1217					Poor visibility.
	E	1220					3 Poor PVs see notebook
349	A	1527	21				5 SPI
	B	1528					Poor visibility for PV 3 barely
	C	1530					analyzable.
	D	1531					
	E	1534		↓	↓		
				17	5		

Note: Number of lead weights on each side x 53 lb = total weight on both racks

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SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022 **Project No.:** C3906-1201
Date: 5-27-22 **Boat:** R/V Enterprise **Crew:** S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
347	F	17:10	21	17	5	5	5 SPI 1 good PV
	G	17:14					super murky water
	H	17:19					
	I	17:16					shortened focal length
	J	17:24					to 18" trigger line
351	A	22:20	22	17	~~5~~		24" ↓ (for next loc.)
	B	22:23	2222		2+3=5		winch test w/ less
	C	22:25	2225				weight.
	D	22:30					5PV 5SPI
	E	22:32					
472	A	0238	29	17	5		5 good SPI & PV
	B	0240					24" trigger
	C	0242					Strobe battery change
	D	0244					Changed Prism water
	E	0246	29				
472	F	0442					5 SPI/5PV
	G	0445					43" trigger w/ titanium
	H	0448					PV
	I	0452					
	J	0457					
473	A	0703	26	17	5		39" trigger w/ titanium
	B	0707					
	C	0709					
	D	0715		17	5		
	E	0719					

Note: Number of lead weights on each side x 53 lb = total weight on both racks

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SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022 **Project No.:** C3906-1201
Date: 5/30/22 **Boat:** R/V Enterprise **Crew:** S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
478	A	1007	28	17	5		38" trigger
	B	1012					5 SPI/PV
	C	1016					
	D	1018					
	E	1021					
474	A	1047	28				5 SPI/5 PV
	B	1050					
	C	1053					
	D	1057					
	E	1102					
475	A	1130	28				5 SPI/5 PV
	B	1134					
	C	1137					
	D	1140					
	E	1144					
478	A	1219	29				5 SPI/5 PV
	B	1222					
	C	1226					
	D	1231					
	E	1234					
477	A	1307	28				5 SPI/5 PV
	B	1311					
	C	1314					
	D	1325					
	E	1325		17	5		

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022
Date: 5-30-22 **Boat:** R/V Enterprise

Project No.: C3906-1201
Crew: S. Wodzicki & F. Spada

	Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
1	461	A	16:47	25	17	5		5 SPI, 5 PV
		B	16:49					
		C	16 51					
		D	16 52					
		E	16 54					
2	540	A	00 27	45	17	5		Bad- boat moving
		B	0034					5 SPI + PV
		C	0035					
		D	0038					
		E	0041					
		F	0047					
1	538	A	02:03	45	17	5		5 SPI + PV
		B	02:05					
		C	02:06					
		D	02:07					
		E	02:09					
4	539	A	02:34	45	17	5		5 SPI 5 PV
		B	02:35					
		C	02:37					
		D	02:38					
		E	02:40					
1	542	A	03:01	45	17	5		5 SPI + PV
		B	03:02					
		C	03:04					

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022 **Project No.:** C3906-1201
Date: 5-31-22 **Boat:** R/V Enterprise **Crew:** S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
542	D	03:05					
	E	03:06					
541	A	03:27	45	17	5		5SPI + PV
	B	03:28					
	C	03:31					
	D	03:32					
	E	03:34					
527	A	0441	45	17	5		5SPI/PV
527	B	0444					
	C	0449					
	D	0453					
	E	0456					
526	A	0545	43	17	5		5SPI/PV
	B	0549					
	C	0554					
	D	0556					
	E	0559					Color Card Shot, Lasers @ 26cm
525	A	0750	47	17	5		5SPI/PV
	B	0755					
	C	0801					
	D	0804					
	E	0817					
~~523~~ 523	A	1105	48	17	5		5SPI/PV
	B	1108					

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral ocean systems inc.

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022 **Project No.:** C3906-1201
Date: 5/31/2022 **Boat:** R/V Enterprise **Crew:** S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
523	C	1112	48	17	5		5 SPI/PV
	D	1116					38' trigger continues
	E	1118					titanium PV.
524	A	1204	47	17	5		5 SPI/PV
	B	1209					
	C	1212					
	D	1215					
	E	1218					
521	A	1320	41	17	5		5SPI/5PV
	B	1323					
	C	1326					
	D	1329					
	E	1332					
520	A	15:07		17	5		5 SPI/PV
	B	1510					
	C	1511					
	D	1513					
	E	1515					changed strobe battery *
517	A	1657		17	5		5 SPI/PV
	B	1659					
	C	1701					
	D	1703					
	E	1705					

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022 **Project No.:** C3906-1201
Date: 5-31-22 **Boat:** R/V Enterprise **Crew:** S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
518	A	1924	50	17	5		5 SPI/PV
	B	1926					
	C	1928					
	D	1929					
	E	1931					
514	A	2228	45	17	5		5 SPI/PV
	B	2230					
	C	2231					
	D	2233					
	E	2235					
513	A	2319	47	17	5		5 SPI/PV
	B	2321					
	C	2322					
	D	2323					
	E	2325					
01 JUN 512	A	0023	45	17	5		5 SPI/PV
	B	0025					
	C	0026					
	D	0028					
	E	0030					
510	A	0504	35	17	5		5 SPI/PV
	B	0507					
	C	0510					
	D	0513					
	E	0515					

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022 **Project No.:** C3906-1201
Date: 01 JUN 22 **Boat:** R/V Enterprise **Crew:** S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
533	A	0551	39	17	5		5SPI/PV
	B	0555					
	C	0558					
	D	0606					
	E	0608					
534	A	0728	38	12	5		5SPI/PV
	B	0731					
	C	0734					
	D	0736					
	E	0739					
535	A	0932	39	17	5		5SPI/PV
	B	0934					
	C	0937					
	D	0941					
	E	0950					
537	A	2057	39	17	5		Weather patterns 20knots 1.8-2.0m seas
	B	2059					4PV 5SPI
	C	2101					
	D	2102					
	E	2103					
536	A	2202	40	17	5		5SPI & PV
	B	2204					
	C	2206					
	D	2208					

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022 **Project No.:** C3906-1201
Date: 1 Jun 22 **Boat:** R/V Enterprise **Crew:** S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments (see notebook re: stations 1000 - 1007)
536	E	2210					
1007	A	0002	47	17	5		5 SPI/PV
	B	0004					heavy heave
	C	0006				✓	
	D	0009					
	E	0012					
1001	A	0151	42	17	5		5 SPI/PV
	B	0153				✓	Heavy heave
	C	0154					
	D	0157					
	E	0159					
1002	A	0244	41	17	5		4PV 5SPI
	B	0245				✓	heavier heave
	C	0247					
	D	0249					
	E	0251					called off for WX
1003	A	0610	40	17	5	✓	Replaced snap shackle
	B	0613					on trigger line.
	C	0616					see notebook for further notes
	D	0619				✓	5PV (1 blank) 5SPI
	E	0622				✓	on weather stby, due to heavy rain & lightning in vicinity.
							Significant heave.

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022 **Project No.:** C3906-1201
Date: 02JUN22 **Boat:** R/V Enterprise **Crew:** S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
1006	A	1021	34	17	5		5SPI/PV
	B	1025					took color cardshot
	C	1031					checked lasers @ 26cm
	D	1034					lobed PV trigger
	E	1038					
1004	A	1226	37	17	5		5 SPI/PV
	B	1230					
	C	1233					
	D	1236					
	E	1238					
1005	A	1325	37	17	5		5SPI/PV
	B	1329					
	C	1331					
	D	1333					
	E	1337					
509	A	1503	37	17	5		
	B	1506	37				5SPI/PV
	C	1509					
	D	1511					
	E	1514					
528	A	1610	36	17	5		5SPI/PV
	B	1612					
	C	1613					
	D	1615					

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022 **Project No.:** C3906-1201
Date: 6/2/22 **Boat:** R/V Enterprise **Crew:** S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
528	E	1617					
529	A	1721	36	17	5		5 SPI/PV
	B	1723					
	C	1725					
	D	1727					
	E	1729					
530	A	1826	36	17	5		
	B	1828					
	C	1830					
	D	1832					
	E	1834					forgot to turn on
	F	1843					camera
	G	1844					5 SPI/PV
	H	1846					
	I	1849					
	J	1851					
531	A	20:00	36	17	5		5 SPI/PV
	B	2002					
	C	2004					
	D	2007					
	E	2009					
532	A	2117	37	17	5		5 SPI/PV
	B	2120					
	C	2122					

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022 **Project No.:** C3906-1201
Date: 6/2/22 **Boat:** R/V Enterprise **Crew:** S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
532	D	2124	37	17	5		
	E	2125					
359	A	0650	20	17	5		5 SPI/5PV
	B	0653					Strobe battery
	C	0636					changed
	D	0658					
	E	0701					
357	A	0852	22	17	5		5 SPI/5PV
	B	0854					
	C	0857					
	D	0900					
	E	0903					
~~369~~366	A	1016	22	17	5		5 SPI/5PV
	B	1019					minimal pene- ~~see notes~~ *
	C	1022					see notebook
	D	1024					
	E	1027					
371	A	1311	10	17	5		5SPI/PV. (PV turbid)
	B	1313					switch to 2ft camera
	C	1315					after rep E
	D	1317					
	E	1319					
	F	1407					5PV w/ 2ft camera
	G	1410		17	5		[redacted].

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022 **Project No.:** C3906-1201
Date: 03 JUN22 **Boat:** R/V Enterprise **Crew:** S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
371	H	1412	10	17	5		5PV w/ 2ft camera
	I	1415					5SPI
	J	1417					
364	A	1457	12	17	5		
	B	1500					5 PV / 5SPI
	C	1503					w/ 2Ft camera
	D	1506					
	E	1509					
362	A	1651	22	17	5		switched back to
	B	1653					~3ft camera 38" trigger
	C	1655					
	D	1657					
~~365~~	E	1659					
363	A	1732	23	17	5		5 SPI / PV
	B	1737					
	C	1739					
	D	1741					
	E	1742					
365	A	1755	23	17	5		5 SPI / PV
	B	1757					
	C	1759					
	D	1801					
	E	1802					

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022 **Project No.:** C3906-1201
Date: 6/3/22 **Boat:** R/V Enterprise **Crew:** S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
368	A	1840	23	17	5		5 SPI / PV
	B	1842					
	C	1844					
	D	1845					
	E	1847					
367	A	1904	22	17	5		5 SPI / PV
	B	1905					
	C	1906					
	D	1908					
	E	1910					
358	A	2027	23	17	5		5 SPI / PV
	B	2029					
	C	2031					
	D	2033					
	E	2034					
353	A	2145	23	17	5		5 SPI / PV
	B	2147					
	C	2148					
	D	2150					
	E	2151					
354	A	2308	24	17	5	✓	~~5 SPI / PV~~
	B	2309				✓	3 SPI / 5 PV
	C	2311				✓	
	D	2312				✓	

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022 **Project No.:** C3906-1201
Date: 6/3/22 **Boat:** R/V Enterprise **Crew:** S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
354	E	2313	24	17	5		
6/4 356	A	0012	24	17	5		5 SPI/PV
	B	0014					
	C	0015					
	D	0016					
	E	0018					
370	A	0215	24	17	5		5 SPI/PV
	B	0216					
	C	0218					
	D	0219					
	E	0220					
372	A	0315	24	17	5		5 SPI/PV
	B	0318					
	C	0320					
	D	0323					
	E	0325					
374	A	0451	23	17	5		5 SPI/PV
	B	0454					[illegible]
	C	0457					[illegible]
	D	0500					
	E	0503					
376	A	0619	26	17	5		5 SPI/PV
	B	0625					
	C	0628					

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022 **Project No.:** C3906-1201
Date: 6/04/2022 **Boat:** R/V Enterprise **Crew:** S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
376	D	0632	26	17	5		
	E	0636					
378	A	0844	25	17	5		5 SPI/PV
	B	0846					
	C	0849					
	D	0851					
	E	0853					
379	A	0941	23	17	5		5 SPI/PV
	B	0944					
	C	0947					
	D	0949					
	E	0952					
381	A	1044	23	17	5		5 SPI/PV
	B	1046					Adjusted lightshield
	C	1051					
	D	1054					
	E	1056					
384	A	1144	24	17	5		5 SPI/PV
	B	1146					
	C	1150					
	D	1154					
	E	1157					

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022 **Project No.:** C3906-1201
Date: 6/04/2022 **Boat:** R/V Enterprise **Crew:** S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
385	A	1341	22	17	5		5 SPI/PV
	B	1344					~~Cham~~ Prism water *
	C	1347					exchange
	D	1349					
	E	1353					
386	A	1509	23	17	5		5 SPI/SPV
	B	1512					
	C	1514					
	D	1516					
	E	1518					
388	A	1614	25	17	5		5 SPI/PV
	B	1616					
	C	1617					
	D	1619					
	E	1620					
391	A	1730	25	17	5		5 SPI/PV
	B	1732					
	C	1734					
	D	1736					
	E	1738					
390	A	1935	21	17	5		5 SPI/PV
	B	1937					
	C	1939					
	D	1940					

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022 **Project No.:** C3906-1201
Date: 6/4/22 **Boat:** R/V Enterprise **Crew:** S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
390	E	1942					
393	A	2051	22	17	5		5 SPI/PV
	B	2053					
	C	2054					
	D	2055					
	E	2057					
395	A	2217	26	17	5		5 SPI/PV
	B	2219					
	C	2221					
	D	2223					
	E	2225					
396	A	2321	26	17	5		5 SPI/PV
	B	2325					
	C	2327					
	D	2328					
	E	2330					
398	A	0049	24	17	5		5 SPI/P
	B	0053					
	C	0055					
	D	0057					
	E	0058					
401	A	0250	22	17	5		5 SPI/PV
	B	0251					
	C	0253					

Note: Number of lead weights on each side x 53 lb = total weight on both racks

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SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022 **Project No.:** C3906-1201
Date: 6/05/2022 **Boat:** R/V Enterprise **Crew:** S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
401	D	0254	22	17	5		
	E	0258					
399	A	0508	22	17	5		5 SPI/PV
	B	0513					Replaced strobe battery *
	C	0515					
	D	0518					
	E	0521					
400	A	0551	22	17	5		5 SPI/PV
	B	0554					
	C	0557					
	D	0600					
	E	0603					
402	A	0620	22	17	5		SPI/PV
	B	0624					
	C	0627					
	D	0629					
	E	0632					
403	A	0648	22	17	5		5SPI/PV
	B	0650					
	C	0652					
	D	0655					
	E	0658		17	5		

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022
Date: 6/05/2022 **Boat:** R/V Enterprise

Project No.: C3906-1201
Crew: S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
405	A	0831	23	17	5		5 SPI/PV
	B	0833					wind picked up 20-24kts
	C	0835					
	D	0838					
	E	0841					Weather stdy @ 0800 (EST)
407	A	1559	25	17	5		5 SPI/PV
	B	1601					seas at 1.5m, moderate
	C	1603					heave.
	D	1605					
	E	1607					
409	A	1718	25	17	5		5 SPI/PV
	B	1721					
	C	1722					
	D	1725					
	E	1727					
410	A	1856	25	17	5		5 SPI/PV
	B	1857					
	C	1859					
	D	1901					
	E	1902					
411	A	1959	24	17	5		5 SPI/PV
	B	2001					
	C	2002					
	D	2004					

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022 **Project No.:** C3906-1201
Date: 6/5/22 **Boat:** R/V Enterprise **Crew:** S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
411	E	2007					
413	A	2101	26	17	5		1 SPI 4 PV
	B	2103					Q SPI Battery
	C	2104					change
	D	2106					
	E	2107					
	F	2230	26	17	5		5 SPI/PV
6/5 G		2231					
	H	2233					
	I	2234					
	J	2235					
416	A	2337	26	17	5		5 SPI/PV
	B	2339					
	C	2340					
	D	2342					
	E	2346					
6/6 417	A	0021	27	17	5		5 SPI/PV
	B	0023					
	C	0025					
	D	0026					
	E	0028					
418	A	0207		17	5		5 SPI/PV
	B	0209					
	C	0210					

Note: Number of lead weights on each side x 53 lb = total weight on both racks

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SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022
Date: 6/6/22 **Boat:** R/V Enterprise

Project No.: C3906-1201
Crew: S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
418	D	0212					
	E	0213					
421	A	0258	24	17	5		5 SPI/PV
	B	0300					
	C	0301					
	D	0303					
	E	0305					
422	A	0413	24	17	5		5 SPI/PV
	B	0416					
	C	0417					
	D	0420					
	E	0422					
424	A	0517	26	17	5		5 SPI/PV
	B	0520					Lubed PV/SPI triggers
	C	0522					
	D	0525					
	E	0528					
426	A	0624	27	17	5		5 SPI/PV
	B	0626					
	C	0629					
	D	0631					
	E	0634					
425	A	0728	25	17	5		5 SPI/PV
	B	0730					Sea robin in SP2 pic

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022 **Project No.:** C3906-1201
Date: 05 JUN22 **Boat:** R/V Enterprise **Crew:** S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
425	C	0733	27	17	5		5 SPI/PV
	D	0736					
	E	0739					
427	A	1004	25	17	5		5 SPI/PV
	B	1006					
	C	1009					
	D	1013					
	E	1016					
429	A	1057	24	17	5		5 SPI/PV
	B	1100					
	C	1102					
	D	1106					
	E	1108					
430	A	1151	24	17	5		5 SPI/PV
	B	1153					
	C	1155					
	D	1157					
	E	1200					
431	A	1308	22	17	5		5 SPI/PV
	B	1311					
	C	1314					
	D	1315					
	E	1317					

Note: Number of lead weights on each side x 53 lb = total weight on both racks

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SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022 **Project No.:** C3906-1201
Date: 06 JUN 22 **Boat:** R/V Enterprise **Crew:** S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
439	A	1428	24	17	5		5 SPI/PV
	B	1429					
	C	1432					
	D	1436					
	E	1439					
432	A	1624	27	17	5		5 SPI/PV
	B	1626					
	C	1627					
	D	1629					
	E	1631					
435	A	1733	26	17	5		5 SPI/PV
	B	1734					
	C	1735					
	D	1737					
	E	1739					
441	A	1900	26	17	5		5 SPI/PV
	B	1902					
	C	1904					
	D	1905					
	E	1907					
451	A	2014	25	17	5		5 SPI/PV
	B	2016					
	C	2018					
	D	2020					

Note: Number of lead weights on each side x 53 lb = total weight on both racks

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SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022
Date: 6/6/22 **Boat:** R/V Enterprise

Project No.: C3906-1201
Crew: S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
451	E	2021					
454	A	2057	25	17	5		5 SPI/PV
	B	2059					
	C	2101					
	D	2102					
	E	2104					
458	A	2209	25	17	5		5 SPI / PV
	B	2210					
	C	2211					
	D	2213					
	E	2214					
459	A	2304	25	17	5		5 SPI/PV
	B	2305					
	C	2307					
	D	2309					
	E	2311					
6/7 462	A	0027	25	17	5		5 SPI/PV
	B	0028					
	C	0030					
	D	0031					
	E	0036					
466	A	0249	26				5 SPI/PV
	B	0250					
	C	0251					

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022
Date: 6/7/22 **Boat:** R/V Enterprise

Project No.: C3906-1201
Crew: S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
466	D	0252	26	17	5		
	E	0257					
483	A	0608	28	17	5		5 SPI/PV
	B	0611					Sea state picking
	C	0614				✓	up. Sig. heave.
	D	0617				✓	
	F	0619				✓	
471	A	0837	28	17	5		5 SPI/PV
	B	0840					sig. heave/seas picking up
	C	0843					~1.5 m
	D	0845					
	E	0851					
							Started weather
							patterns @ 1300 UTC
							on June 7th
☆							QA of labeled ☆
							PU/SPI images completed
							up to here.
6/10/22 507	A	1227	34	17	5		5 SPI/PV
	B	1228					swapped strobe batteries *
	C	1230					changed prism water
	D	1232					
	F	1233					

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral consulting inc.

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022
Date: 6/10/2022 **Boat:** R/V Enterprise

Project No.: C3906-1201
Crew: S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
505	A	1412	33	17	5		5 SPI/PV
	B	1414					
	C	1416					
	D	1419					
	E	1422					
504	A	1521	34	17	5		5 SPI/PV
	B	1522					
	C	1524					
	D	1525					
	E	1528					
501	A	1811	34	17	5		5 SPI/PV
	B	1813					
	C	1815					
	D	1817					
	E	1819					
500	A	1948		17	5		5 SPI/PV
	B	1951					
	C	1955					
	D	1957					
	E	1959					
	F	2002					
499	A	2054					5 / SPI/PV
	B	2056					
	C	2057		17	5		

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022 **Project No.:** C3906-1201
Date: 6/10/22 **Boat:** R/V Enterprise **Crew:** S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
499	D	2059		17	5		
	E	2101					
497	A	2317		17	5		5 SPI/PV
	B	2319					
	C	2321					
	D	2323					
	E	2328					
6/11 496	A	0011		17	5		5 SPI/PV
	B	0012					
	C	0015					
	D	0016					
	E	0019					
495	A	0124		17	5		5 SPI/PV
	B	0126					
	C	0128					
	D	0130					
	E	0134					
494	A	0221		17	5		5 SPI/PV
	B	0223					
	C	0225					
	D	0226					
	E	0228					

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral consulting inc.

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022 **Project No.:** C3906-1201
Date: 6/11/22 **Boat:** R/V Enterprise **Crew:** S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
492	A	0459	32	17	5		5 SPI/PV
	B	0501					
	C	0503					
	D	0505					
	E	0507					
468	A	0905	24	17	5		5 SPI/PV
	B	0908					
	C	0910					
	D	0914					
	E	0916					
465	A	1034	25	17	5		5 SPI/PV
	B	1036					
	C	1039					
	D	1041					
	E	1045					
460	A	1145	25	17	5		5 SPI/PV
	B	1148					
	C	1150					
	D	1153					
	E	1158					
455	A	1251	23	17	5		5 SPI/PV
	B	1254					
	C	1256					
	D	1259		17	5		
	E	1301					

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022
Date: 6/11/2022 **Boat:** R/V Enterprise

Project No.: C3906-1201
Crew: S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
453	A	1459	25	17	5		5 SPI/PV
	B	1501					
	C	1504					
	D	1507					
	E	1509					
450	A	1607	22	17	5		5 SPI/PV
	B	1608					
	C	1610					
	D	1612					
	E	1614					
445	A	1714	25	17	5		5 SPI/PV
	B	1716					
	C	1717					
	D	1719					
	E	1721					
447	A	1819	24	17	5		5 SPI/PV
	B	1821					
	C	1823					
	D	1825					
	E	1828					
449	A	1933	23	17	5		5 SPI/PV
	B	1935					
	C	1937					
	D	1939					

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022 **Project No.:** C3906-1201
Date: 6/11/22 **Boat:** R/V Enterprise **Crew:** S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
449	E	1940					
443	A	2041	24	17	5		5 SPI/PV
	B	2042					
	C	2044					
	D	2046					
	E	2047					
442	A	2138	20	17	5		5 SPI/PV
	B	2140					
	C	2142					
	D	2143					
	E	2145					
437	A	2242		17	5		5 SPI/PV
	B	2244					
	C	2245					
	D	2247					
	E	2248					
6/12 434	A	0024	25	17	5		5 SPI/PV
	B	0026					
	C	0027					
	D	0029					
	E	0033					
438	A	0114	25	17	5		5 SPI/PV
	B	0115					
	C	0117					

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral consulting inc.

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022
Date: 6/11/22 **Boat:** R/V Enterprise
Project No.: C3906-1201
Crew: S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
438	D	0118					
	E	0120					
444	A	0231	25	17	5		5 SPI / PV
	B	0233					
	C	0235					⊗ change PV Battery
	D	0237					strobe
	E	0241					
577	A	0414	25	17	5		5 SPI / PV
	B	0418					
	C	0421					
	D	0423					
	E	0426					
578	A	0535	25	17	5		5 SPI / PV
	B	0538					
	C	0541					
	D	0544					
	E	0546					
581	A	0640		17	5		5 SPI / PV
	B	0643					
	C	0645					
	D	0647					
	E	0649					

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral ocean sensing inc.

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022
Date: 6/12/22 **Boat:** R/V Enterprise

Project No.: C3906-1201
Crew: S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
580	A	0720	26	17	5		5 SPI / PV
	B	0726					
	C	0729					
	D	0731					
	E	0734					
579	~~B~~ A	0829	~~26~~ 24				5 SPI/PV
	B	0832					
	C	0835					
	D	0838					
	E	0841					
576	A	1109	26				Changed prism *
	B	1113					weight
	C	1115					5 SPI/PV
	D	1117					
	E	1119					
582	A	1239	27				5 SPI/PV
	B	1241					
	C	1244					
	D	1246					
	~~E~~	1251		↓	↓		
575	A	1323	27	17	5		5 SPI/PV
	B	1325					
	C	1328					
	D	1331					
	B	1334					

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral coastal sharing inc.

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022
Date: 6/12/22 **Boat:** R/V Enterprise

Project No.: C3906-1201
Crew: S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
574	A	1356	28	17	5		5 SPI/PV
	B	1400					
	C	1402					
	D	1404					
	E	1406					
573	A	1527	28	17	5		5 SPI/PV
	B	1528					
	C	1530					
	D	1532					
	E	1534					
583	A	1639	26	17	5		5 SPI/PV
	B	1642					
	C	1644					
	D	1646					
	E	1648					
572	A	1738	26	17	5		5 SPI/PV
	B	1741					
	C	1743					
	D	1745					
	E	1747					

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral consulting inc.

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022
Date: 6/12/22 **Boat:** R/V Enterprise

Project No.: C3906-1201
Crew: S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
642	A	1851	26	17	5		transect
641	A	1858	26	↓	↓		1 drop per
640	A	1904	26	↓	↓		stop.
639	A	1908	26				10 SPI/PV
638	A	1912	26				
637	A	1917	26				
636	A	1921	26				
635	A	1927	26				
634	A	1932	26				
633	A	1939	25				
584	A	2052	26	17	5		5 SPI/PV
	B	2053					
	C	2055					
	D	2056					
	E	2058					
569	A	2151		17	5		5 SPI/PV
	B	2153					
	C	2155					
	D	2156					
	E	2158					
586	A	0003	24	17	5		5 SPI/PV
	B	0005					
	C	0006					
	D	0008					

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Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral consulting inc.

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022
Date: 6/12/22 (13)
Boat: R/V Enterprise
Project No.: C3906-1201
Crew: S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
586	E	0009					
568	A	0053	25	17	5		5 SPI/PV
	B	0054					
	C	0055					
	D	0057					
	E	0059					
588	A	0217	23	17	5		5 SPI/4 PV
	B	0219					
	C	0221					
	D	0222					
	E	0224					
562	A	0333	23	17	5		5 SPI /PV
	B	0335					Color conv shot
	C	0336					
	D	0338					
	E	0339					
560	A	0450	25	17	5		5 SPI/PV
	B	0451					
	C	0453					
	D	0455					
	E	0457					
555	A	0614	25	17	5		5 SPI/PV
	B	0616					
	C	0619					

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022
Date: 6/13/2022 **Boat:** R/V Enterprise

Project No.: C3906-1201
Crew: S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
555	D	0620	25	17	5		5SPI/PV
	E	0622					
553	A	0708	23				5SPI/PV
	B	0710					
	C	0713					
	D	0714					
	E	0716					
592	A	0807	22				5SPI/PV
	B	0809					
	C	0811					
	D	0813					
	E	0816					
551	A	0928	25				5SPI/PV
	B	0930					
	C	0932					
	D	0934					
	E	0936		↓	↓		
623	A	1026	24	17	5	Yes SPI	Transect of 10
624	A	1034	24				Single drops:
625	A	1042	23				10 PV
626	A	1049	23				(1) SPI, (2-10) SPI
627	A	1058	23				No SPI (624-625)
628	A	1109	23			Yes	
629	A	1115	23	17	5	Yes SPI	

623 → 632

Transect

623 → 632

Note: Number of lead weights on each side x 53 lb = total weight on both racks

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SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022 **Project No.:** C3906-1201
Date: 6/13/22 **Boat:** R/V Enterprise **Crew:** S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
630	A	1121	23	17	5	Yes(3)	transect Yes all PV
631	A	1129	24			Yes(3)	
632	A	1137	25			Yes(3)	
624	B	1244	24				Yes SPI/PV
625	B	1257	23				Yes 4 SPI/PV
626	B	1306	23				
627	B	1315	23				
[illegible]							
550	A	1404	25				5 SPI/PV
	B	1403					1 SPI over exposed?
	C	1406					
	D	1409					
	E	1411					
595	A	1454	25				5 SPI/PV
	B	1456					1 SPI over exposed?
	C	1458					
	D	1500					
	E	1502					
597	A	1615	25	17	5		5 SPI/PV
	B	1616					1 SPI OE...
	C	1618					
	D	1620					
	E	1622					

Transect

Transect

Note: Number of lead weights on each side x 53 lb = total weight on both racks

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SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022 **Project No.:** C3906-1201
Date: 6/13/22 **Boat:** R/V Enterprise **Crew:** S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
548	A	1715	27	17	5		5 SPI/PV
	B	1717					
	C	1718					
	D	1720					
	E	1722					
547	A	1746	27	17	5		5 SPI/PV
	B	1748					
	C	1749					
	D	1751					
	E	1753					
598	A	1842	24	17	5		5 SPI/PV
	B	1844					
	C	1845					
	D	1847					
	E	1849					
599	A	1918	25	17	5		5 SPI/PV
	B	1920					
	C	1921					
	D	1923					
	E	1924					
600	A	2100	24	17	5		5 SPI/PV
	B	2102					
	C	2103					
	D	2105					

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022 **Project No.:** C3906-1201
Date: 6/13/22 **Boat:** R/V Enterprise **Crew:** S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
600	E	2106		17	5		
601	A	2252		17	5		5 SPI/PV
	B	2254					
	C	2255					
	D	2257					
	E	2258					
643	A	0025	20	17	5		10 SPI/PV
644	A	0029	21				
645	A	0034	↓				
646	A	0038					
647	A	0043					
648	A	0049					
649	A	0055					
650	A	00:59	✓				
651	A	1:04					
652	A	1:09					
602	A	3:06	24	17	5		5 SPI/PV
	B	308					
	C	310					
	D	311					
	E	313					

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022 **Project No.:** C3906-1201
Date: 6/14/22 **Boat:** R/V Enterprise **Crew:** S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
603	A	0443	24	17	5		5 SPI/PV
	B	0446					3 over exposed SPI
	C	0448					shots. Will switch
	D	0452					to back-up.
	E	0454					
	F	0714					3 SPI/PV ✓
	G	0715					new camera (SPI)
	H	0718					working well ✓
604	A	0813	24	17	5		5 SPI/PV
	B	0816					
	C	0818					
	D	0820					
	E	0822					
605	A	0924	22	17	5		5 SPI & PV
	B	0926					2 SPI w/ sitton
	C	0928					window. 3 Acceptable.
	D	0931					
	E	0933					
607	A	1028	19	17	5		5 SPI/PV
	B	1030					
	C	1032					
	D	1034					
	E	1037					

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral consulting inc.

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022 **Project No.:** C3906-1201
Date: 6/14/22 **Boat:** R/V Enterprise **Crew:** S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
609	E	1611					
544	A	1714	20	17	5		5 SPI/PV
	B	1716					
	C	1717					
	D	1719					
	E	1721					
543	A	1815	21	17	5		5 SPI/PV
	B	1817					PV are abit
	C	1818					cloudy but still
	D	1820					OK.
	E	1821					
622	A	1938	21	17	5		
621	A	1947	21				
620	A	1953	21				
619	A	2001	20				
618	A	2008	20				
617	A	2015	19				
616	A	2022	19				
615	A	2030	19				~~SPI~~ PV - NO SPI
614	A	2036	19				
613	A	2041	19				
615	B	2154	19	17	5		3 SPI/PV
	C	2155					No Penetration
	D	2158					

Note: Number of lead weights on each side x 53 lb = total weight on both racks

integral consulting inc.

SPI and PV IMAGING COLLECTION FORM

Project Name: ASOW Spring 2022
Date: 6/14/22 **Boat:** R/V Enterprise

Project No.: C3906-1201
Crew: S. Wodzicki & F. Spada

Station ID	Replicate (A,B,C)	Time (hh:mm)	Water Depth (m)	Stop Height (in.)	Lead Weight (each side)	SPI/PV IA Image Selection	Comments
610	A	2248	19	17	5		5 SPI/PV
	B	2249					
	C	2251					
	D	2252					
	E	2254					
611	A	2355	20	17	5		5 SPI/PV
	B	2356					
	C	2357					
	D	2359					
	E	0001					
612	A	0117	17	17	5		5 SPI/PV
	B	0118					
	C	0120					
	D	0122					
	E	0124					

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Note: Number of lead weights on each side x 53 lb = total weight on both racks

Appendix B

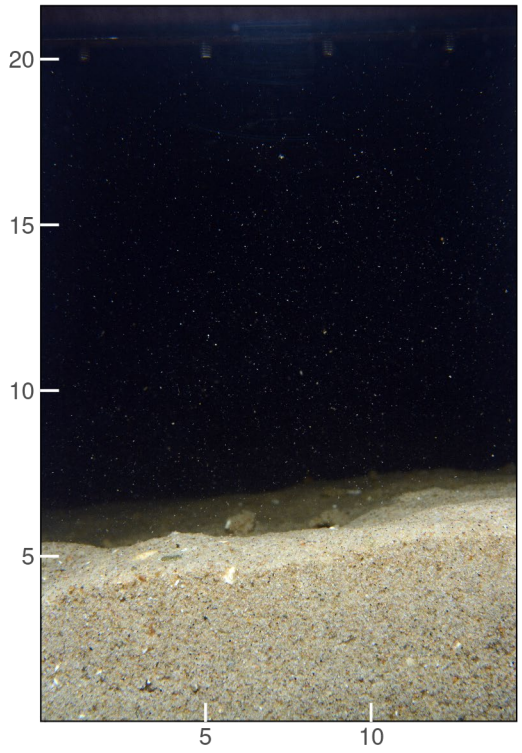
Sediment Profile Imaging and Plan View Image Library

- Appendix B1. Sediment Profile Images—OCS-A 0549
- Appendix B2. Plan View Images—OCS-A 0549
- Appendix B3. NECCT and NECCNJ
- Appendix B4. NECCT and NECCNJ
- Appendix B5. NECCNY
- Appendix B6. Plan View Images—NECCNY

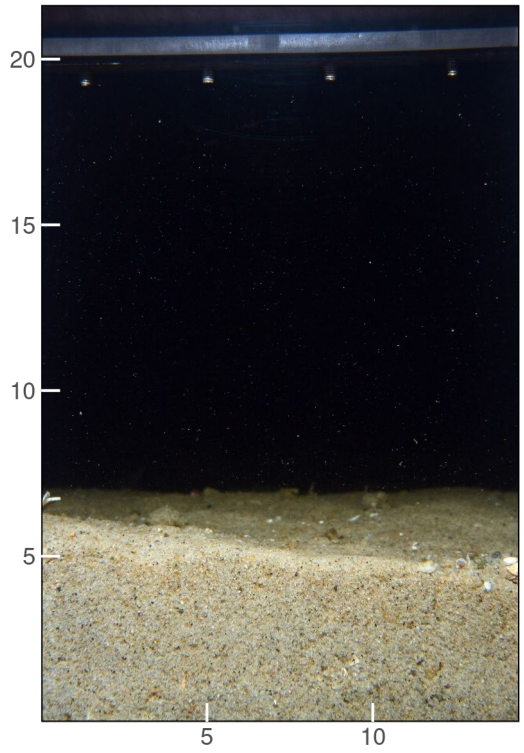
Appendix B1

Sediment Profile Images—OCS-A 0549

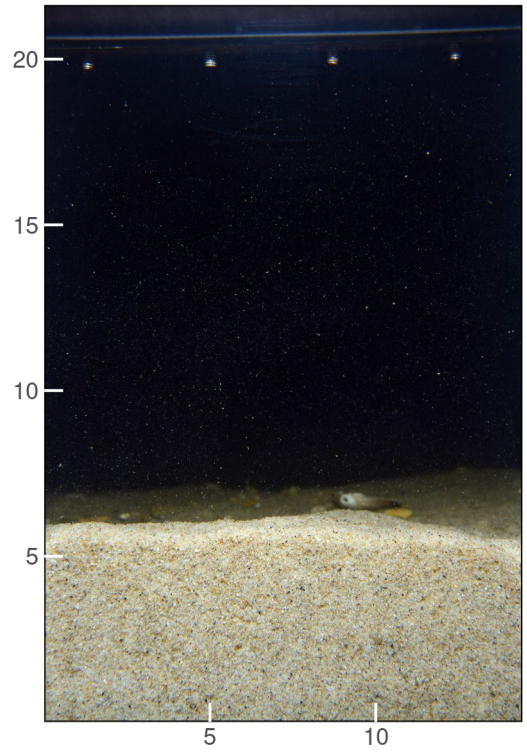
Scale: Width of SPI Images = 14.4 cm



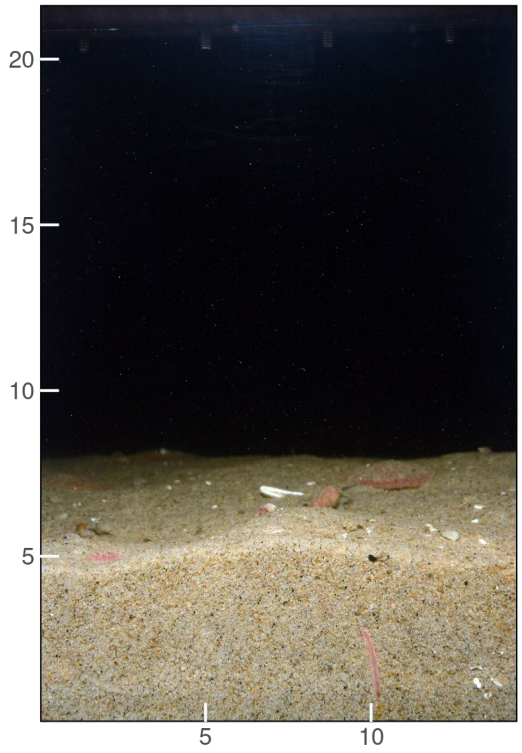
SP-418-A



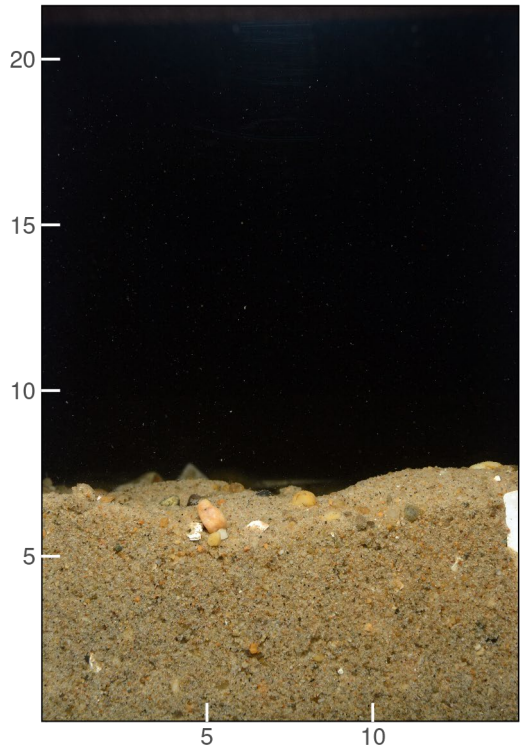
SP-418-B



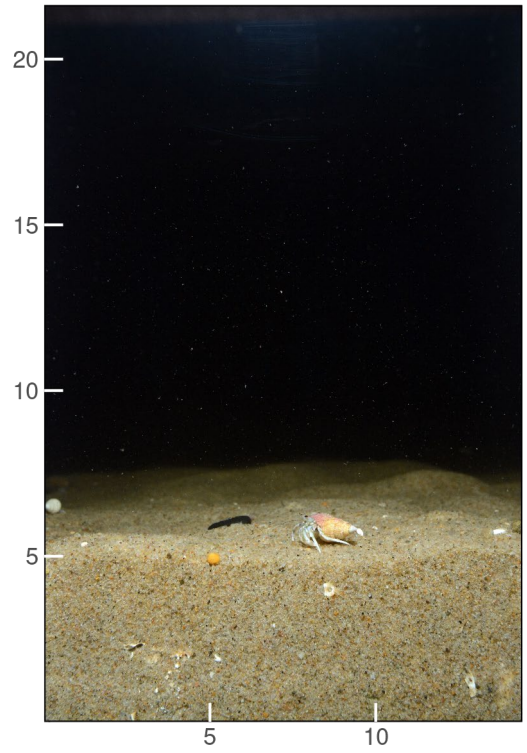
SP-418-C



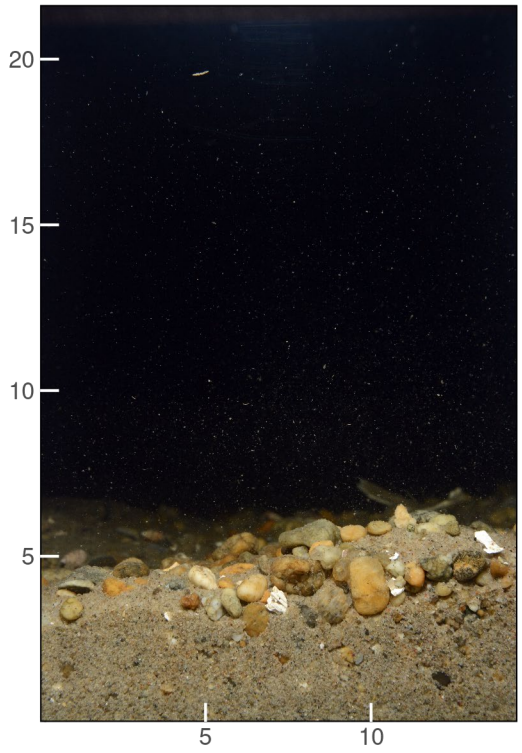
SP-421-A



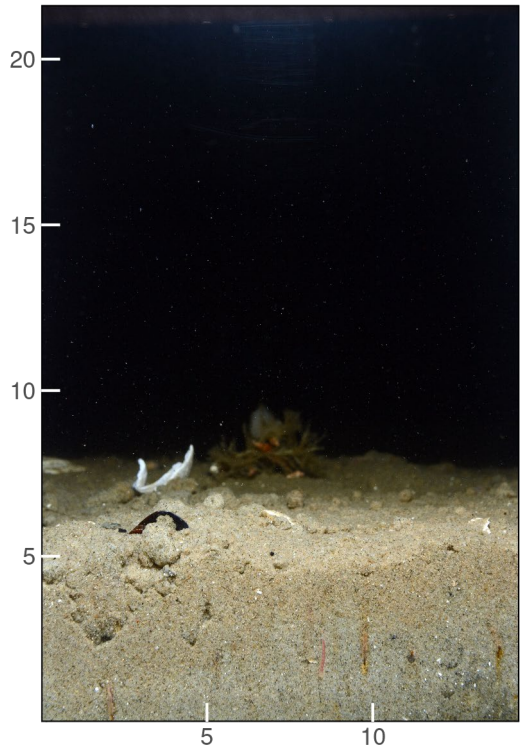
SP-421-C



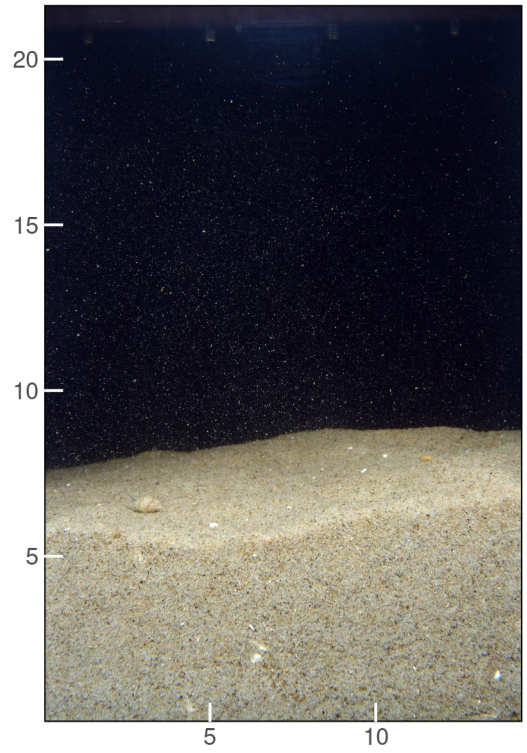
SP-421-E



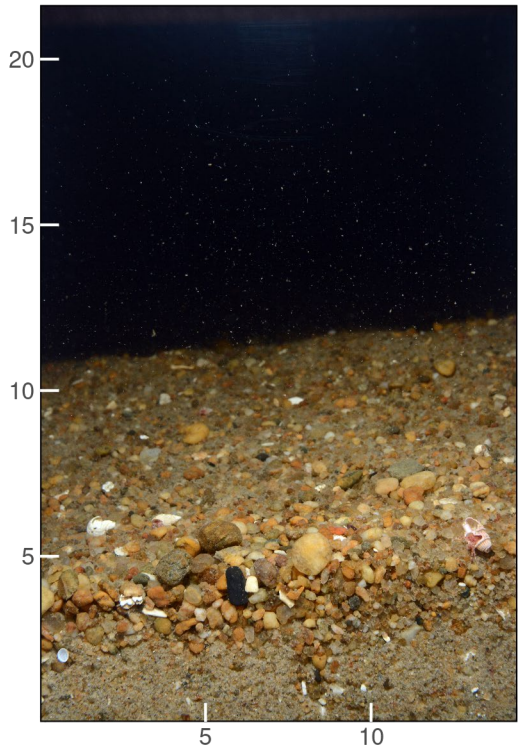
SP-422-C



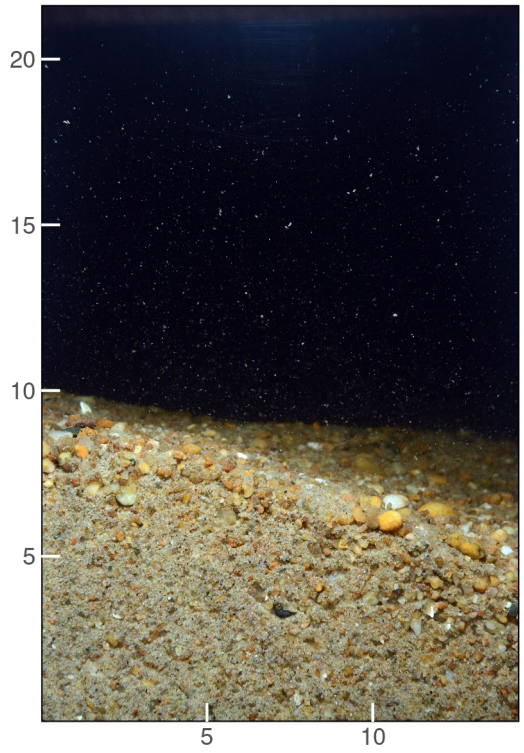
SP-422-D



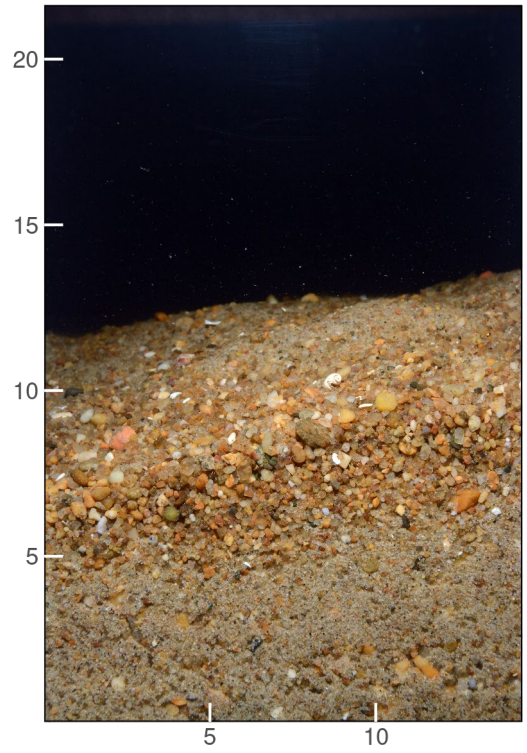
SP-422-E



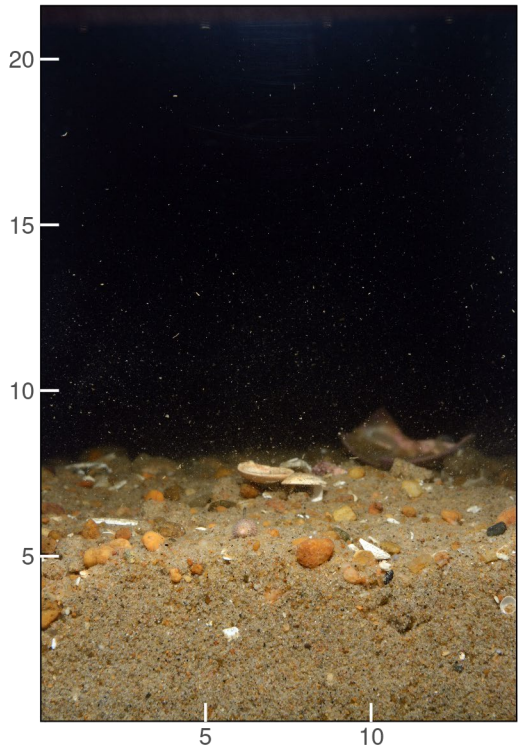
SPG-427-A



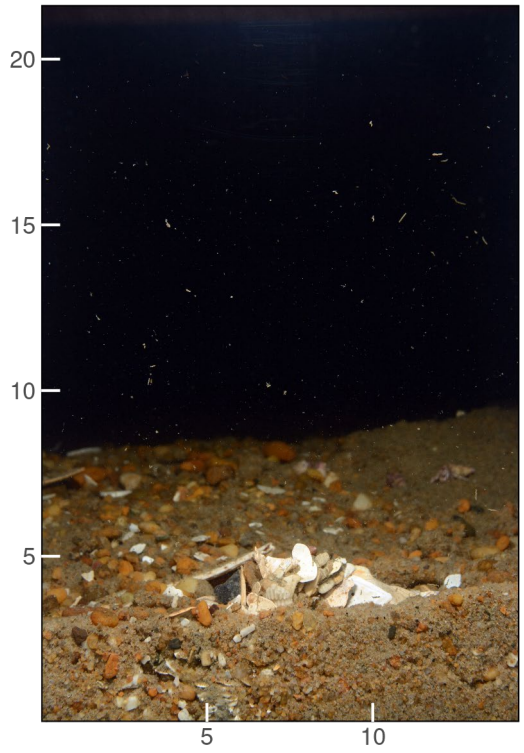
SPG-427-B



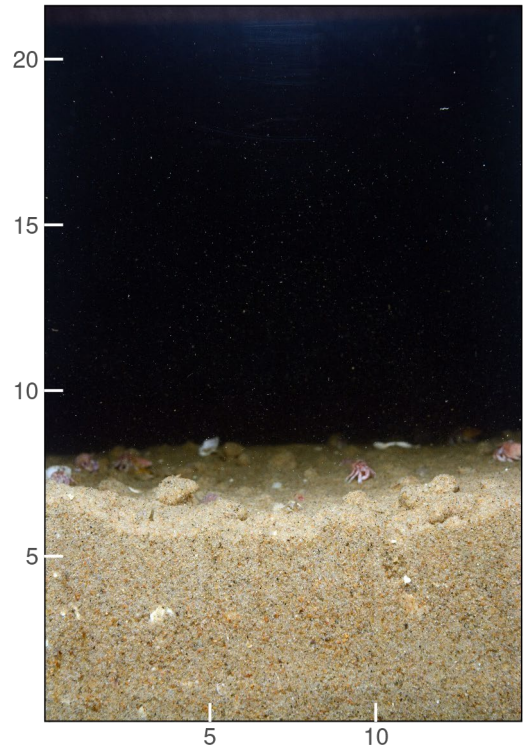
SPG-427-C



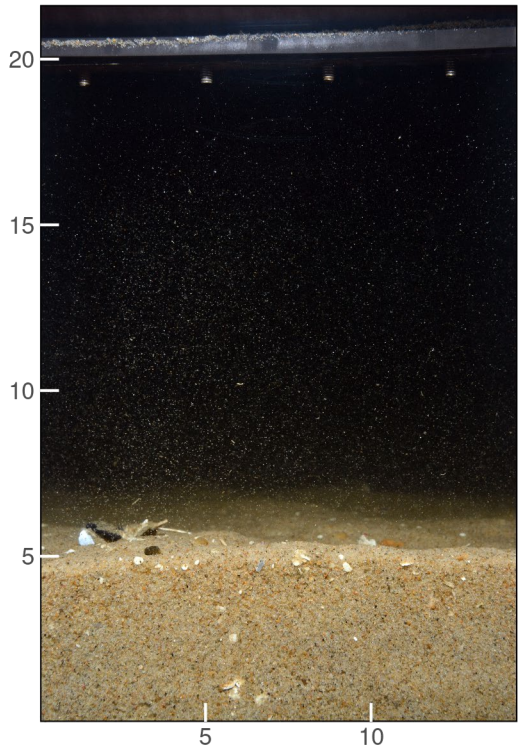
SP-429-A



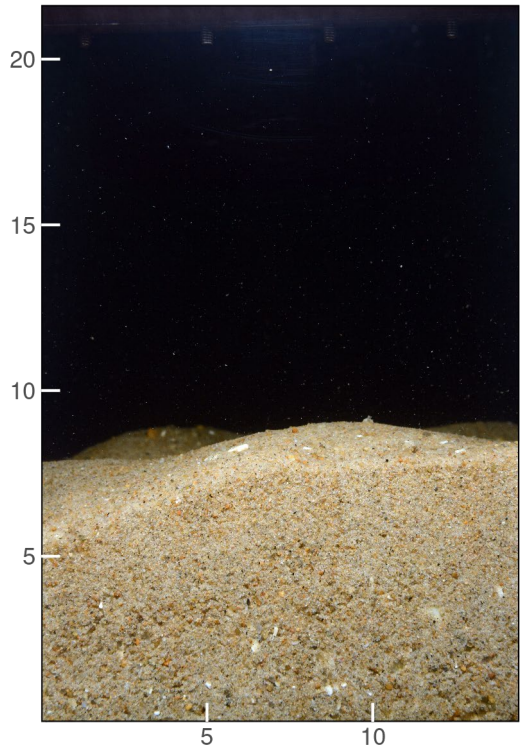
SP-429-C



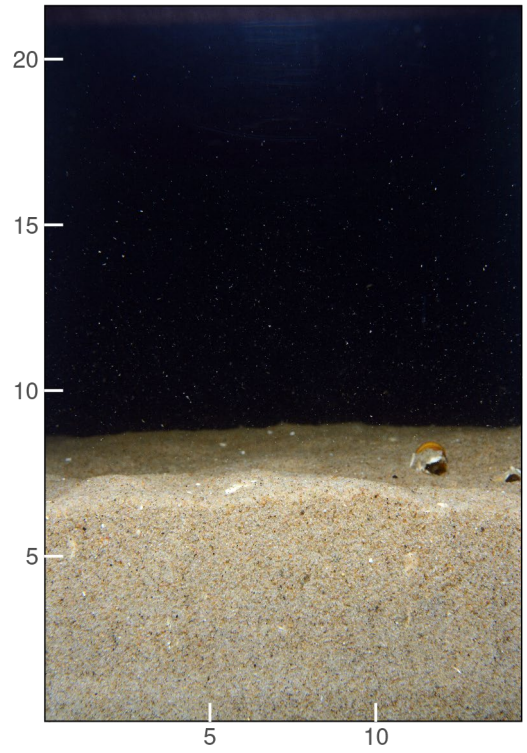
SP-429-D



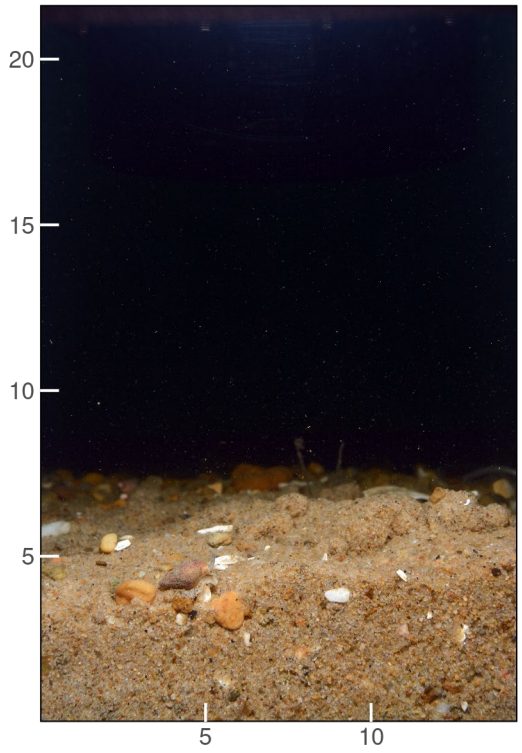
SP-430-A



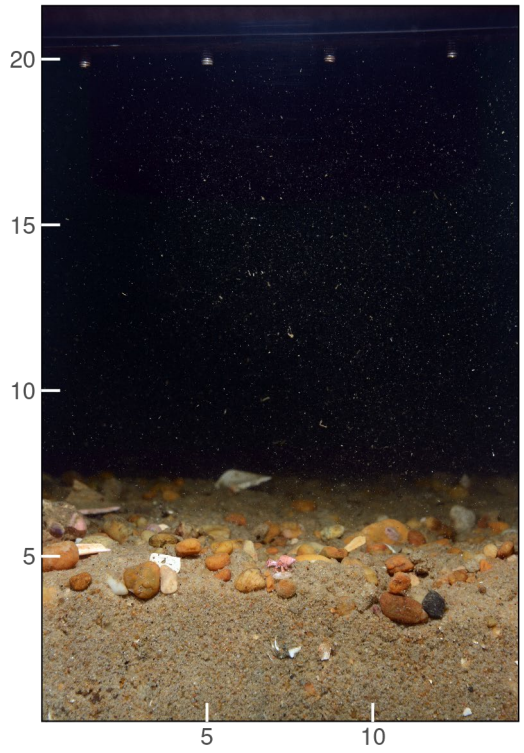
SP-430-B



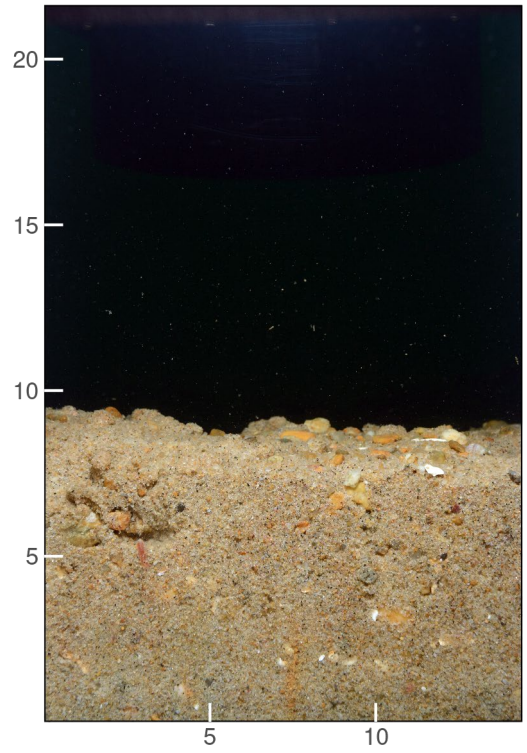
SP-430-C



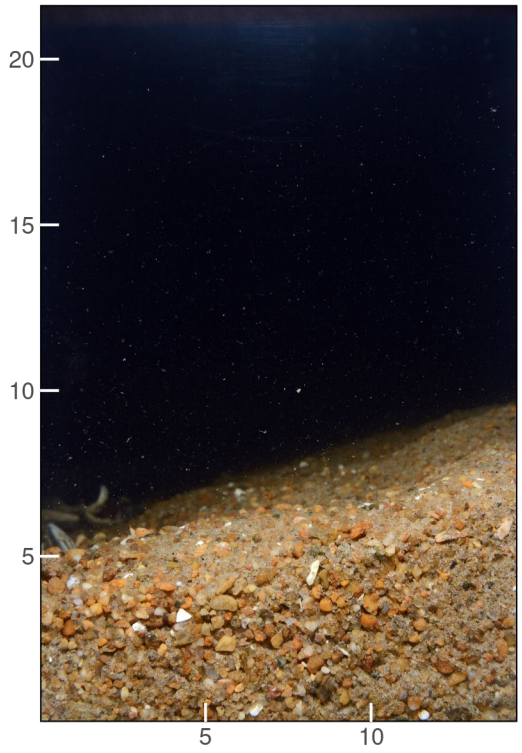
SP-431-A



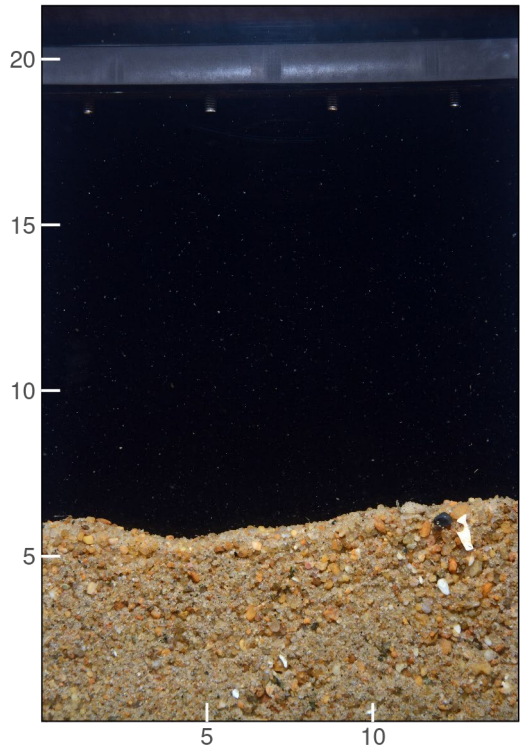
SP-431-B



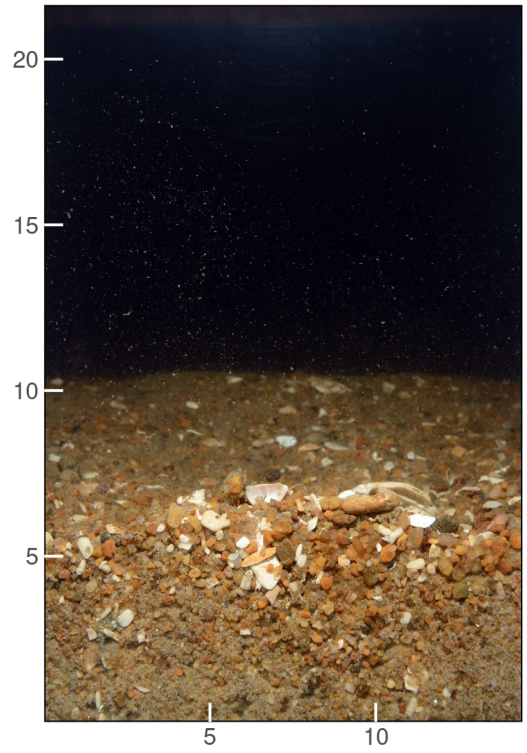
SP-431-D



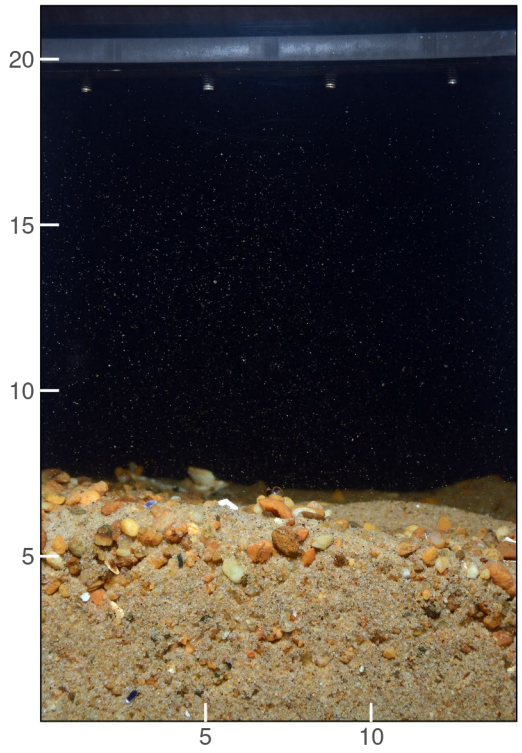
SP-434-A



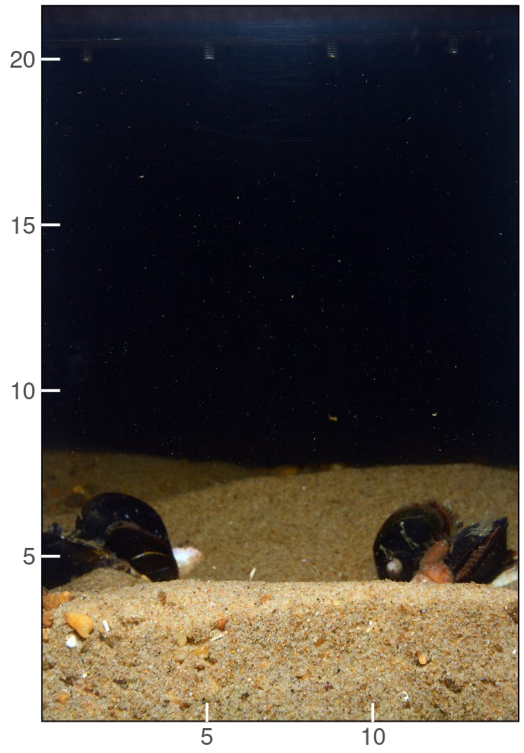
SP-434-C



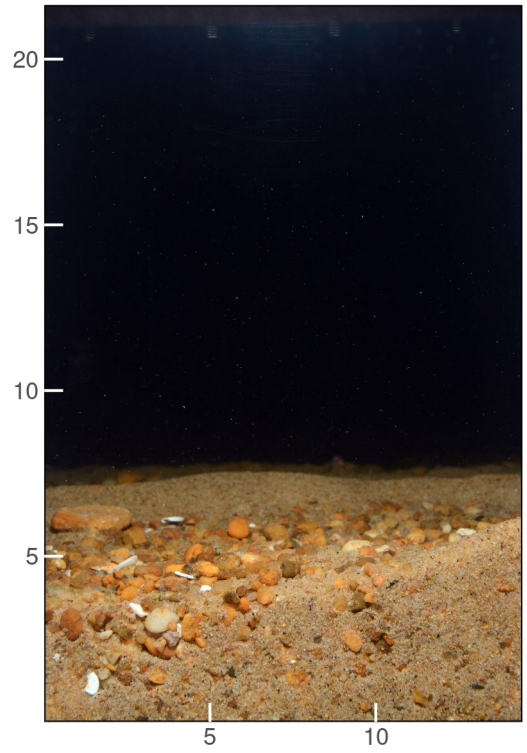
SP-434-D



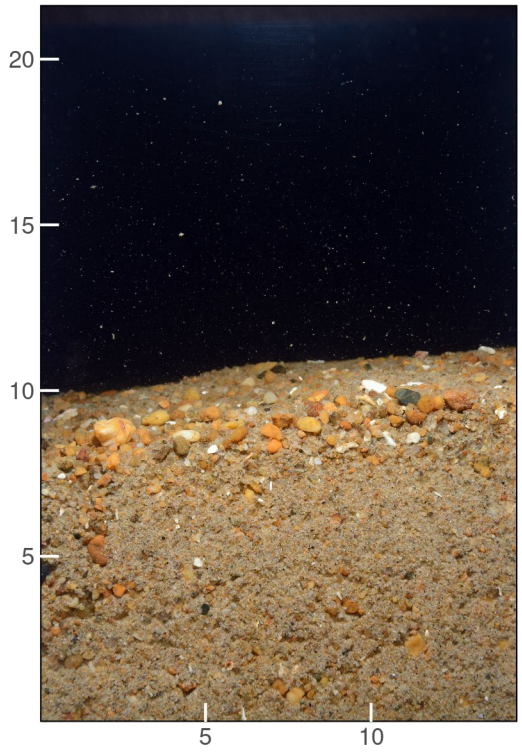
SP-437-A



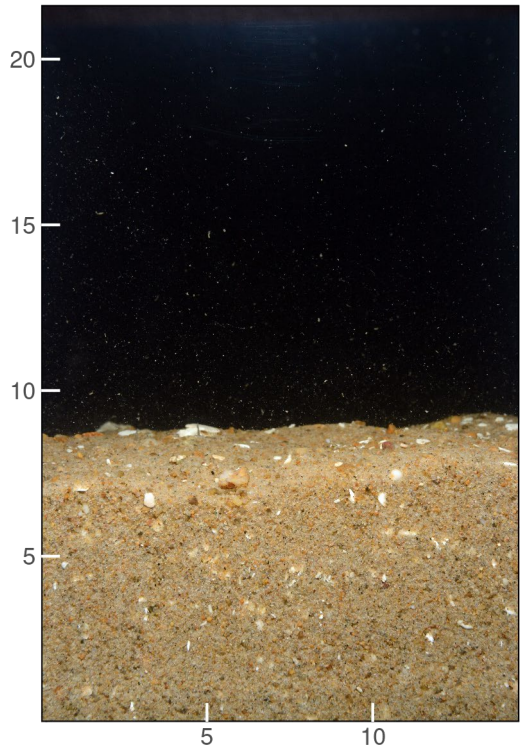
SP-437-B



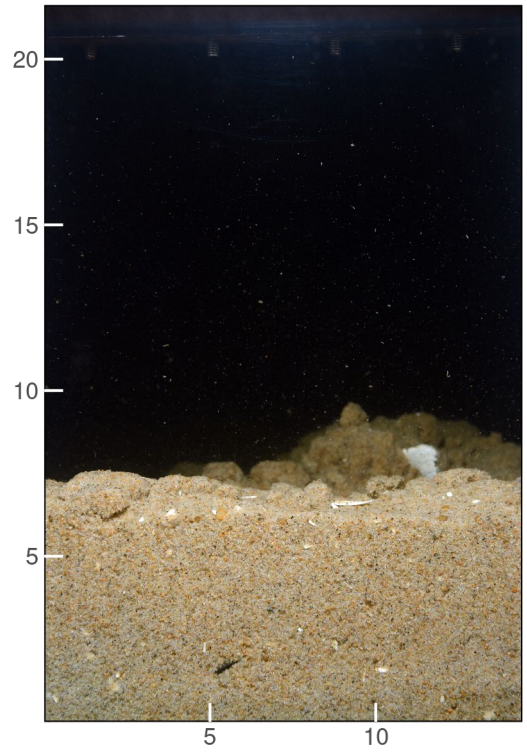
SP-437-C



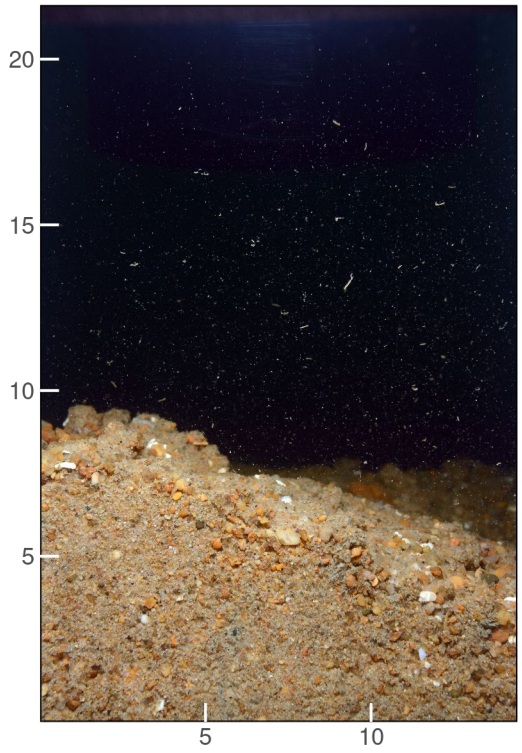
SP-438-A



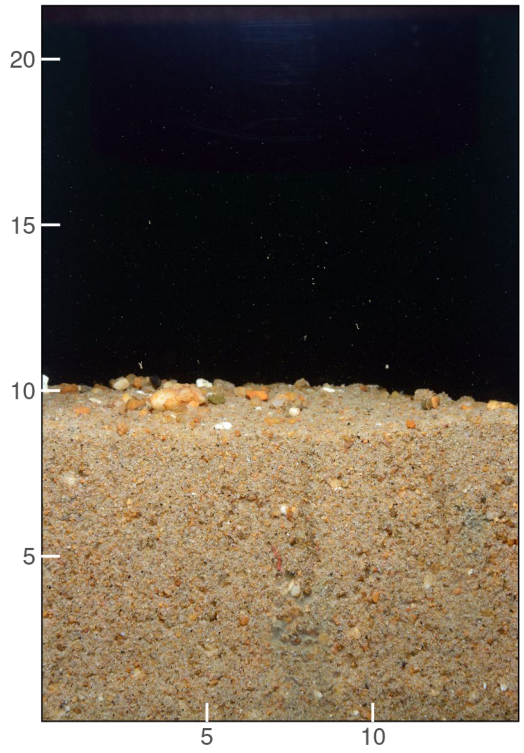
SP-438-D



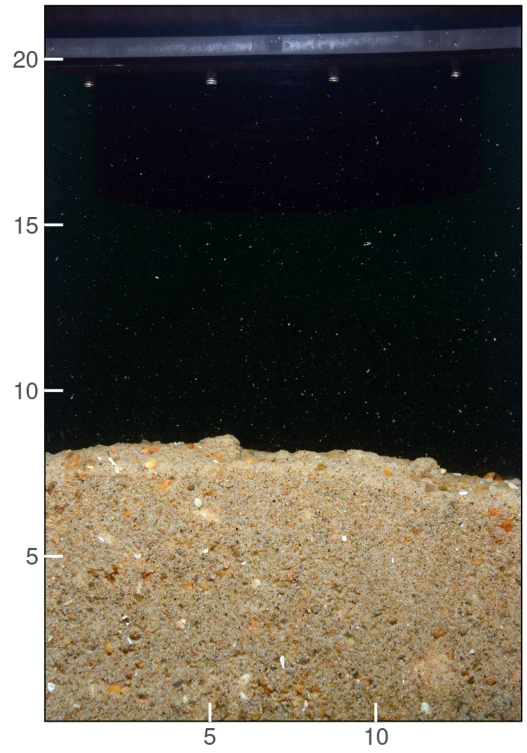
SP-438-E



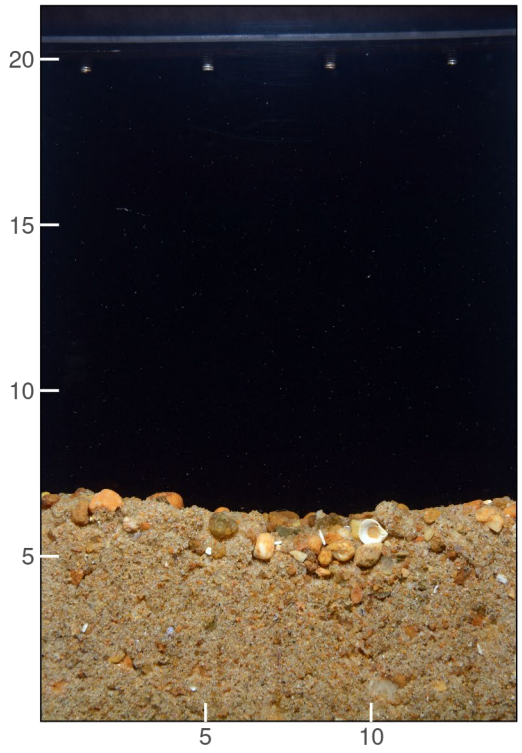
SP-439-B



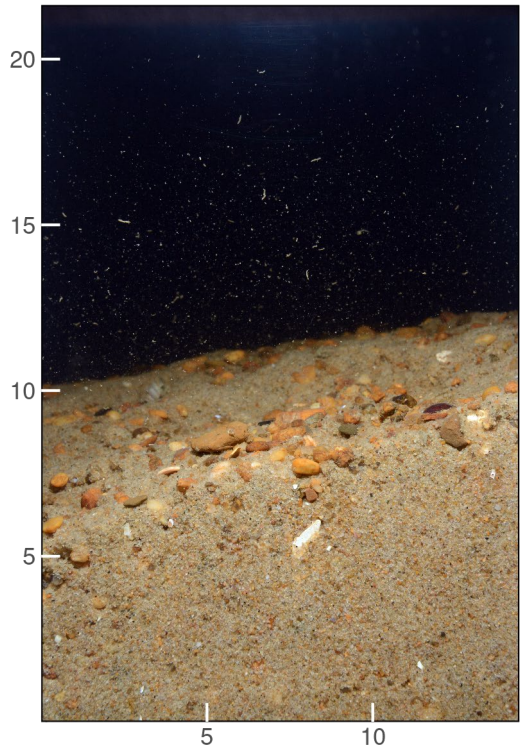
SP-439-C



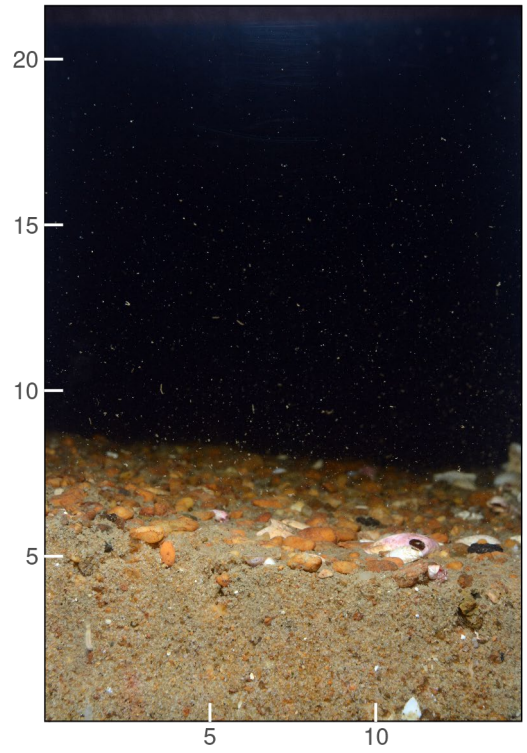
SP-439-E



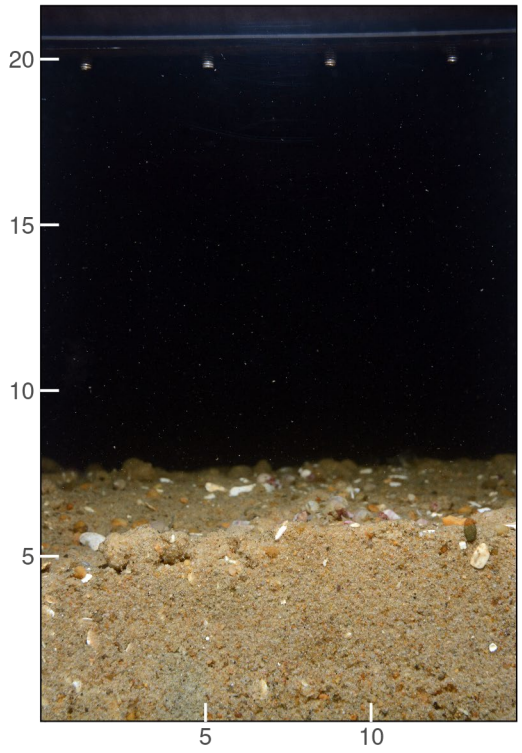
SP-442-A



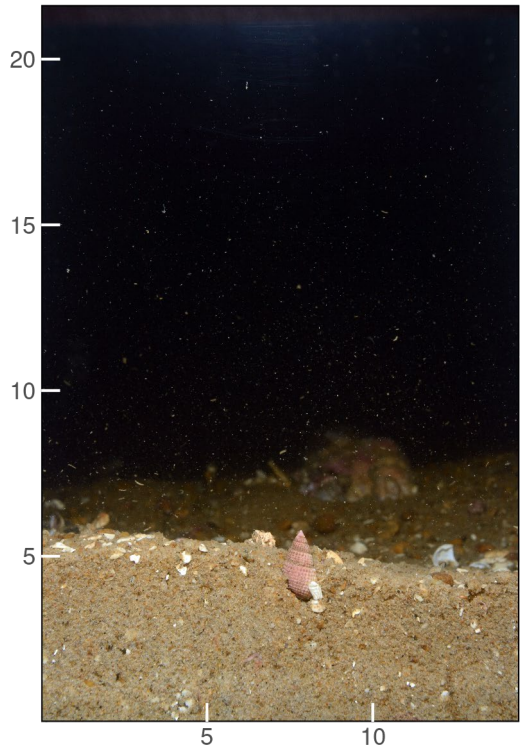
SP-442-B



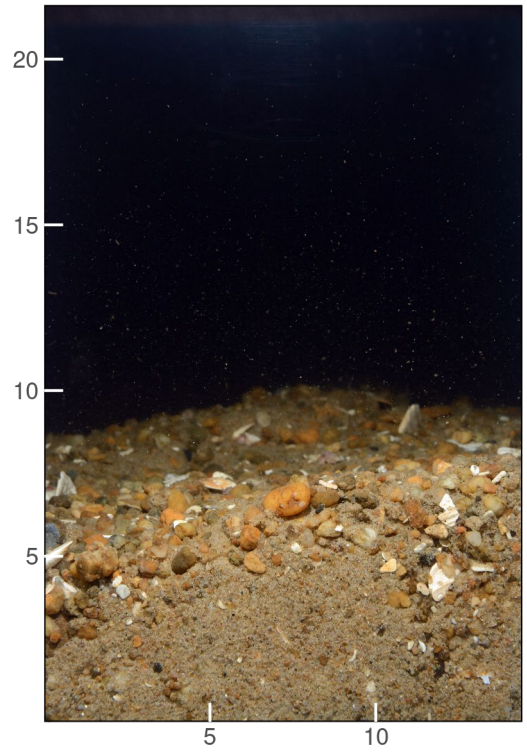
SP-442-C



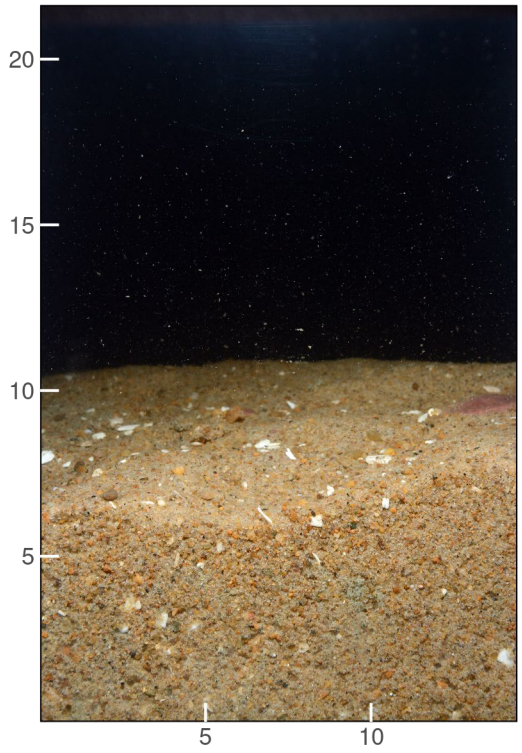
SP-443-A



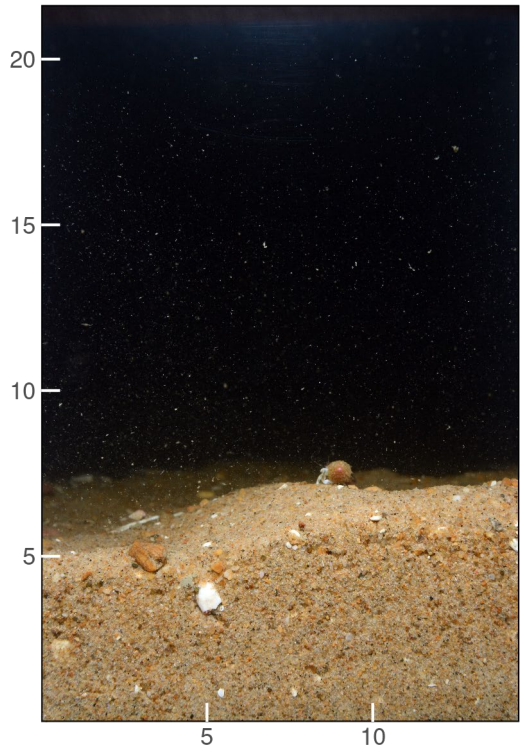
SP-443-C



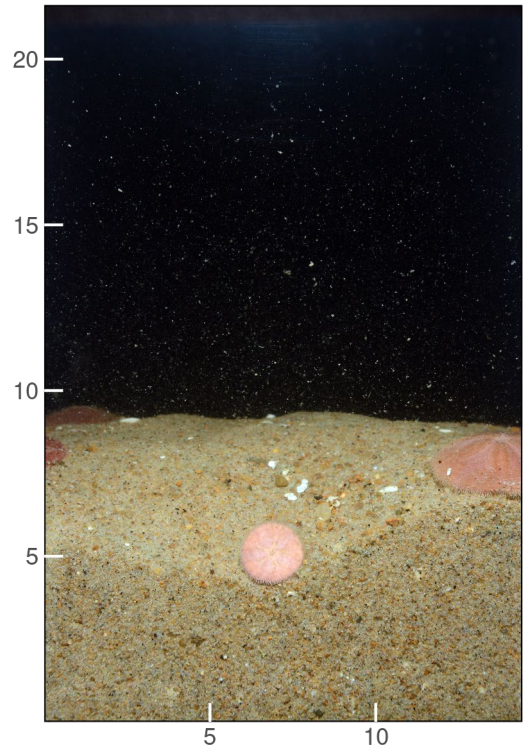
SP-443-E



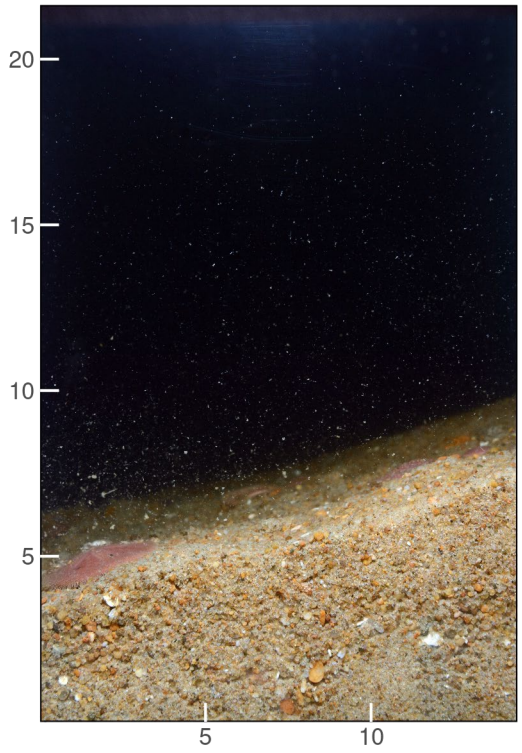
SP-444-A



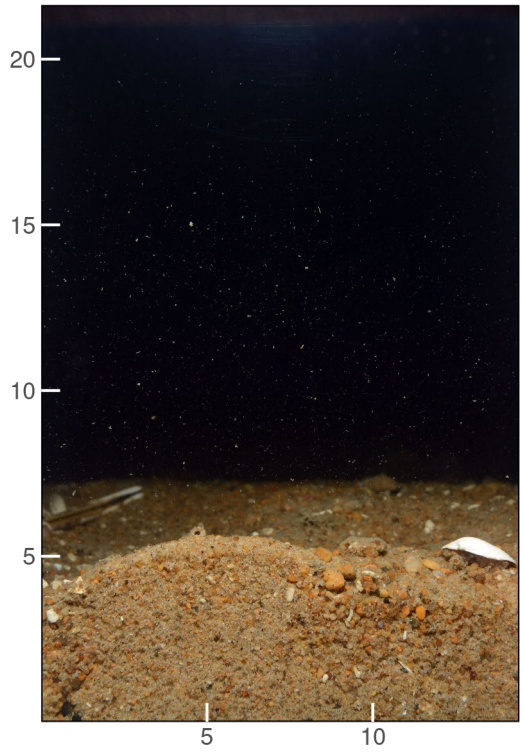
SP-444-B



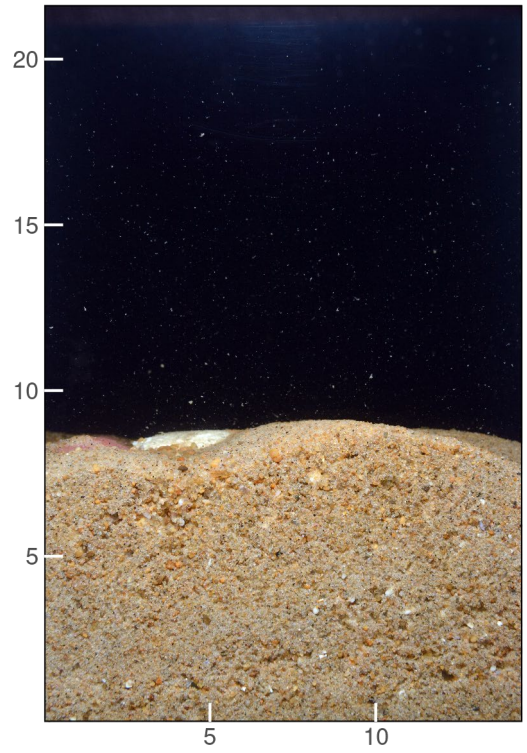
SP-444-C



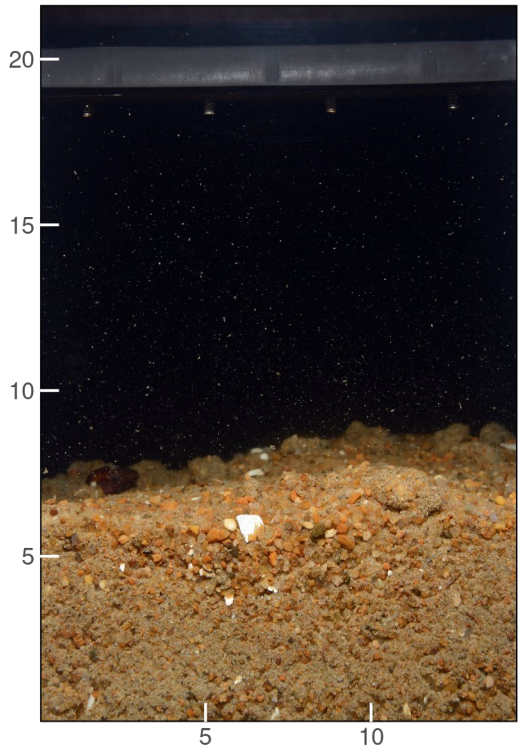
SP-445-A



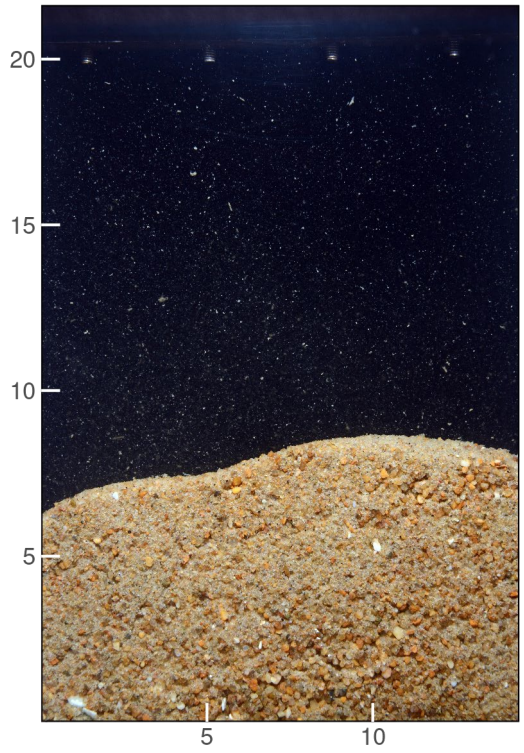
SP-445-B



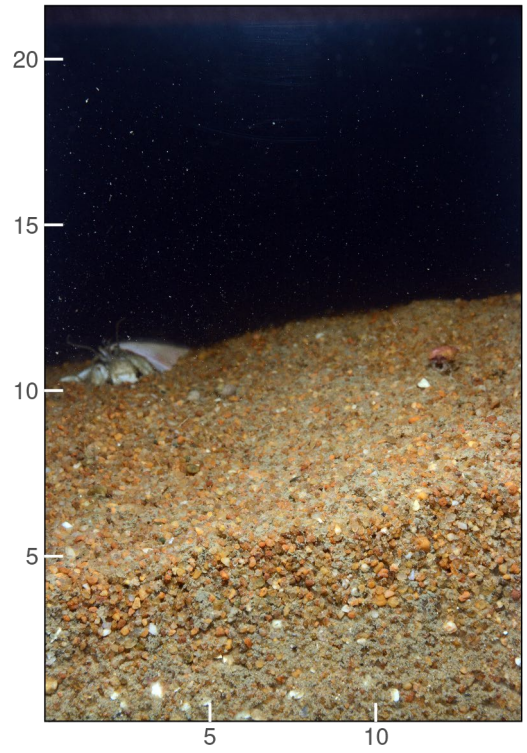
SP-445-E



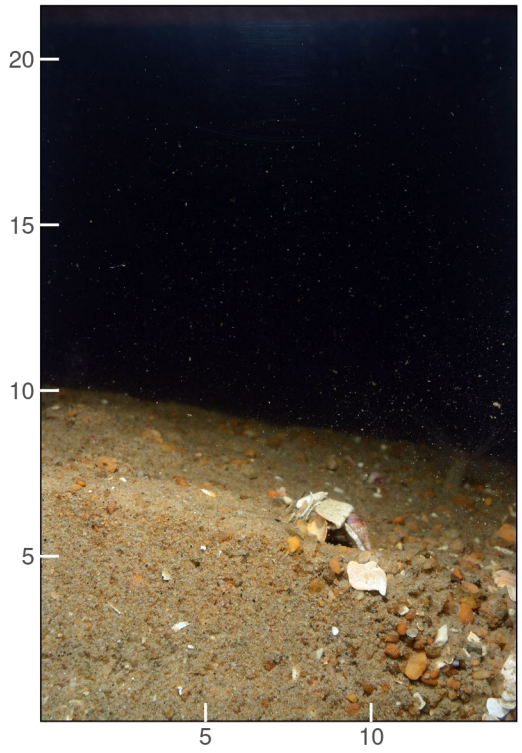
SP-447-A



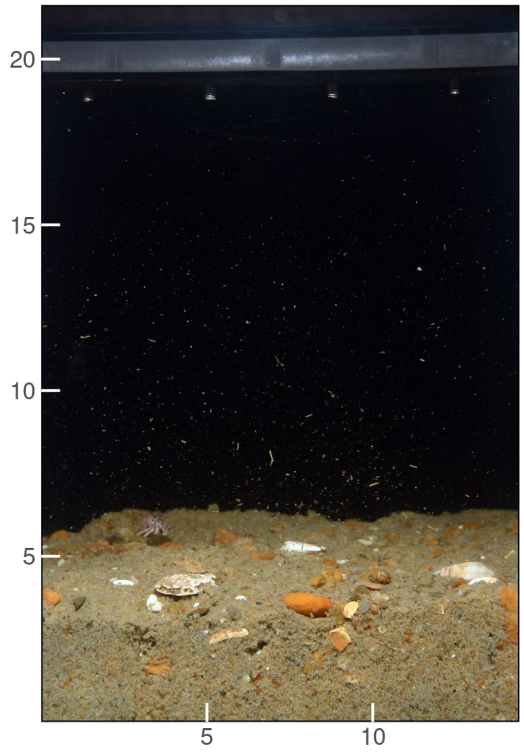
SP-447-C



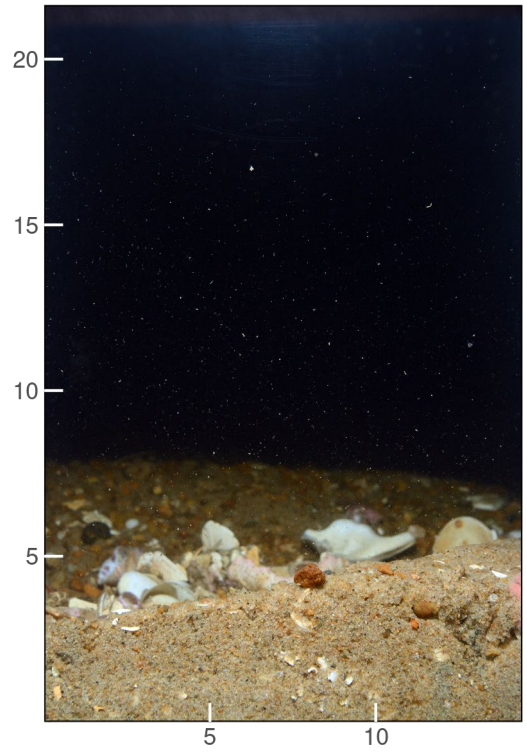
SP-447-D



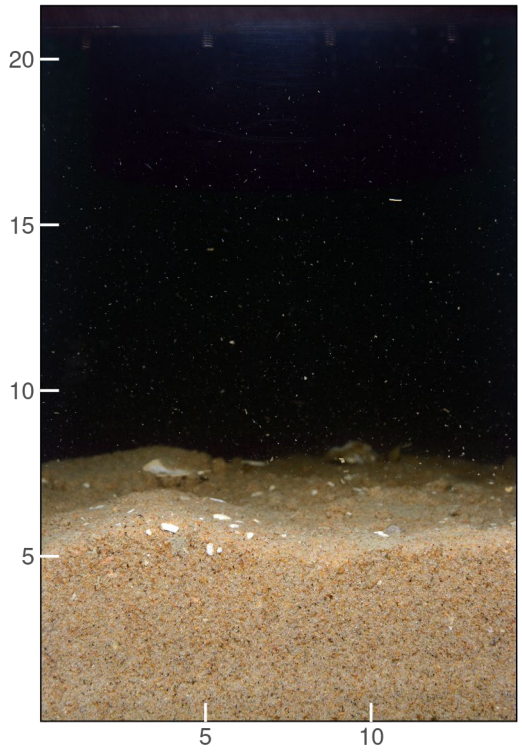
SP-449-B



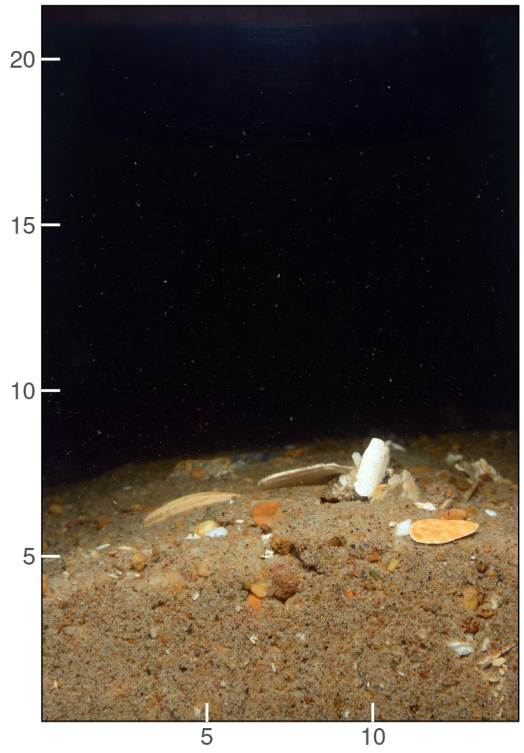
SP-449-C



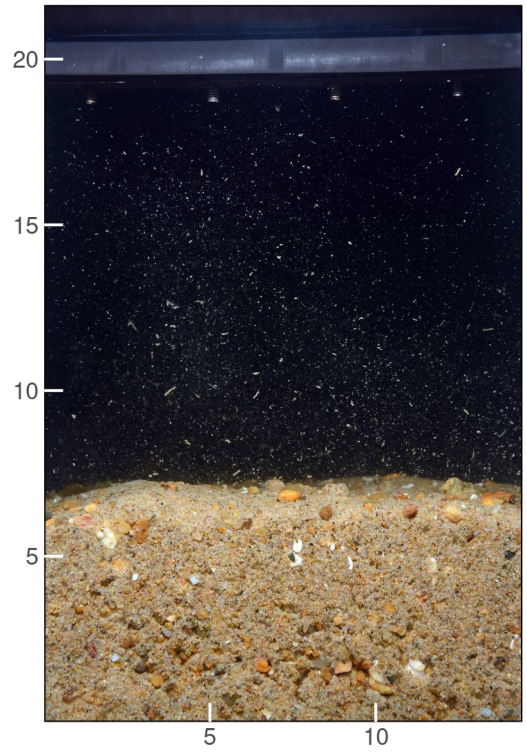
SP-449-D



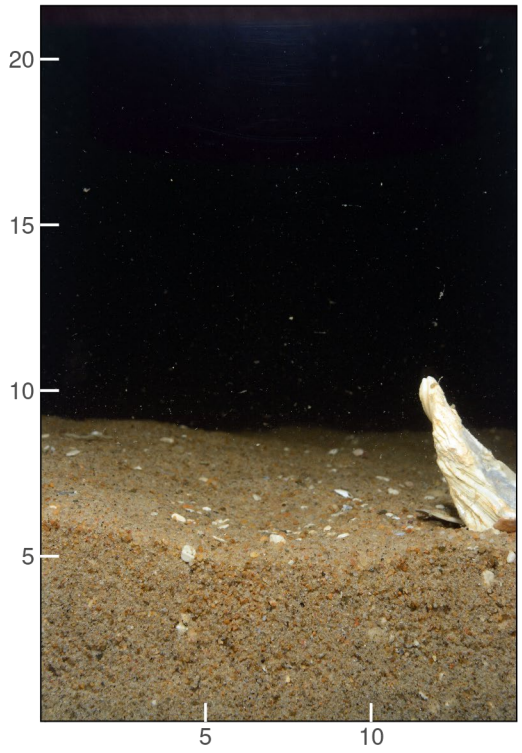
SP-450-A



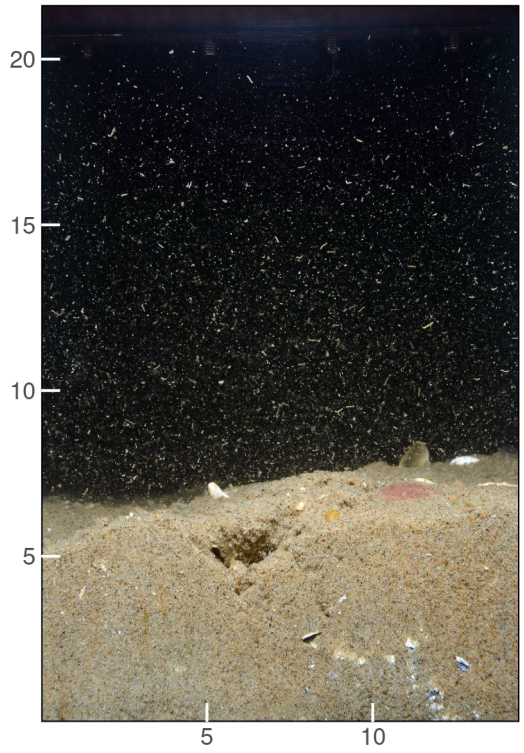
SP-450-D



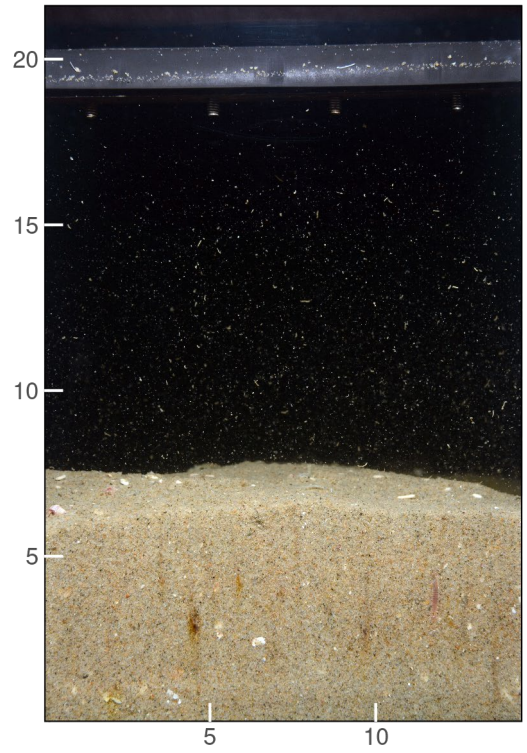
SP-450-E



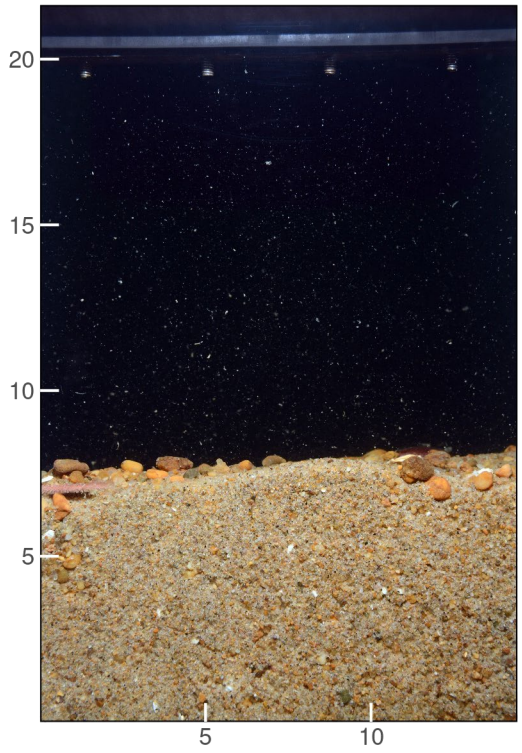
SPG-453-B



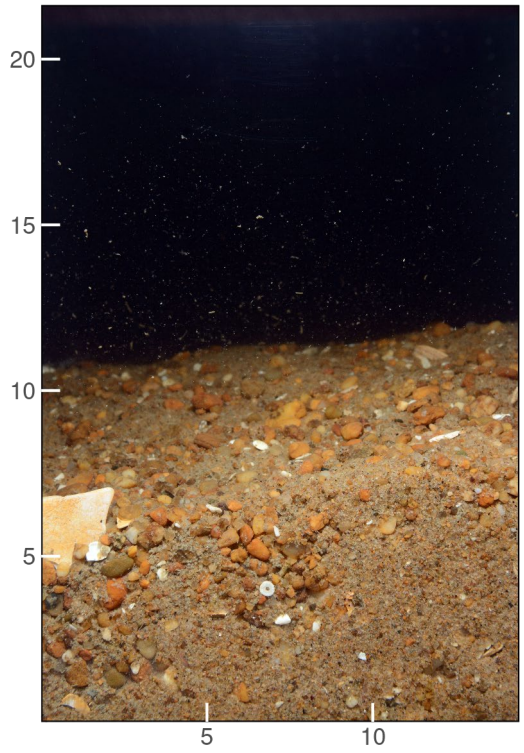
SPG-453-C



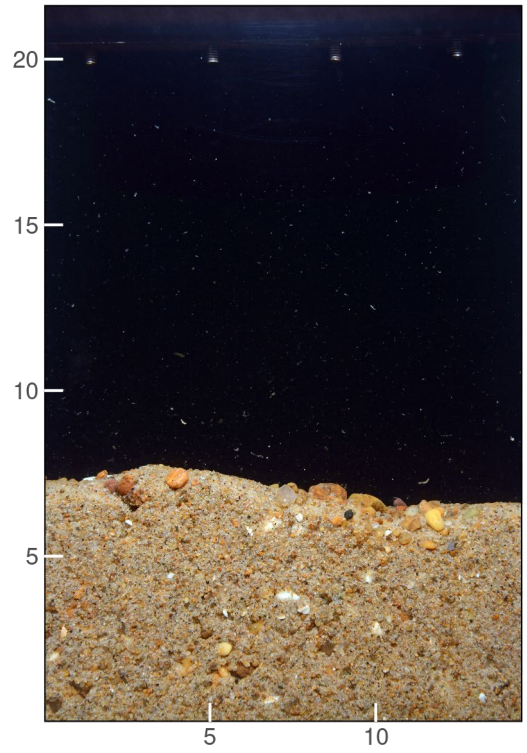
SPG-453-D



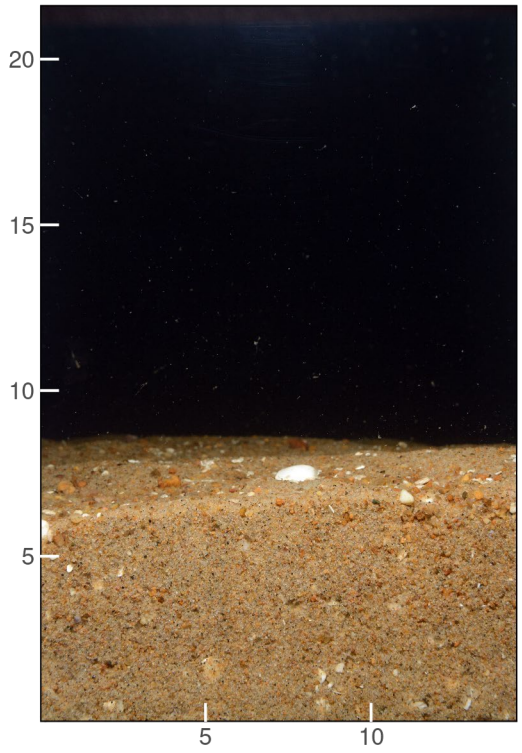
SP-455-A



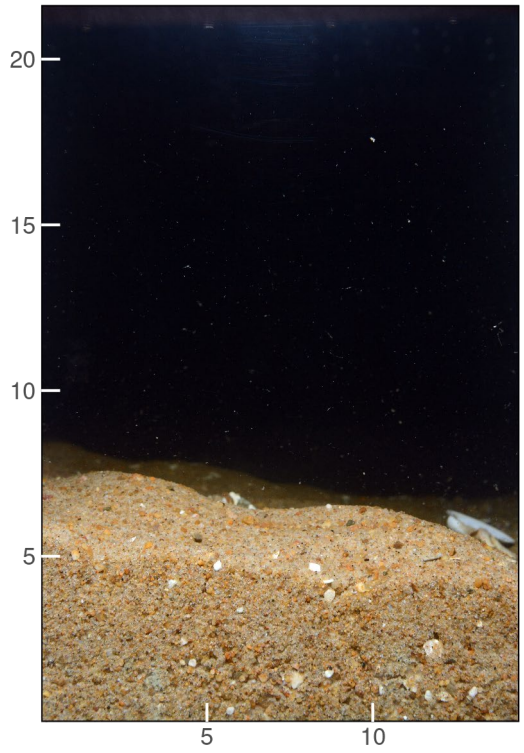
SP-455-D



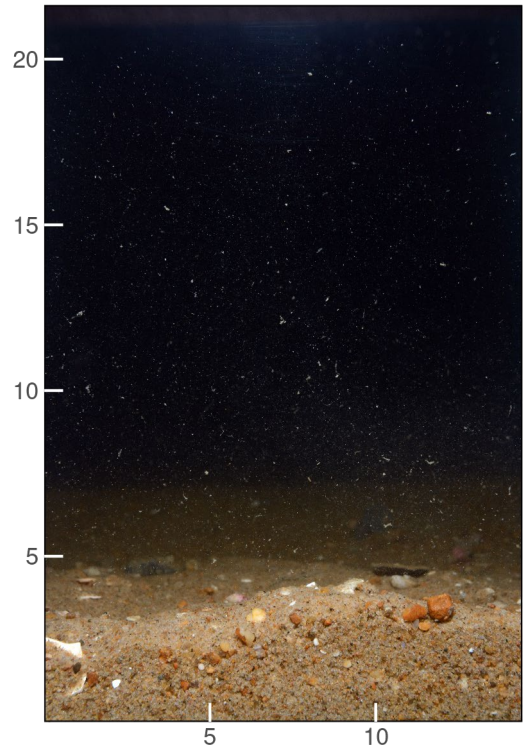
SP-455-E



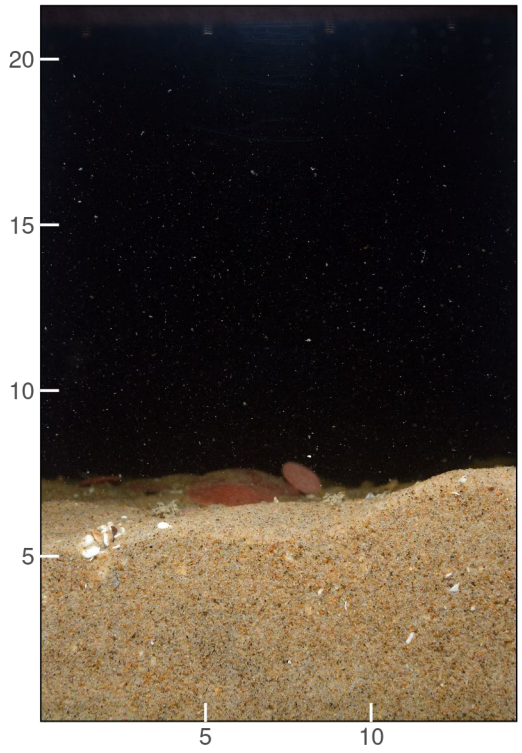
SP-460-A



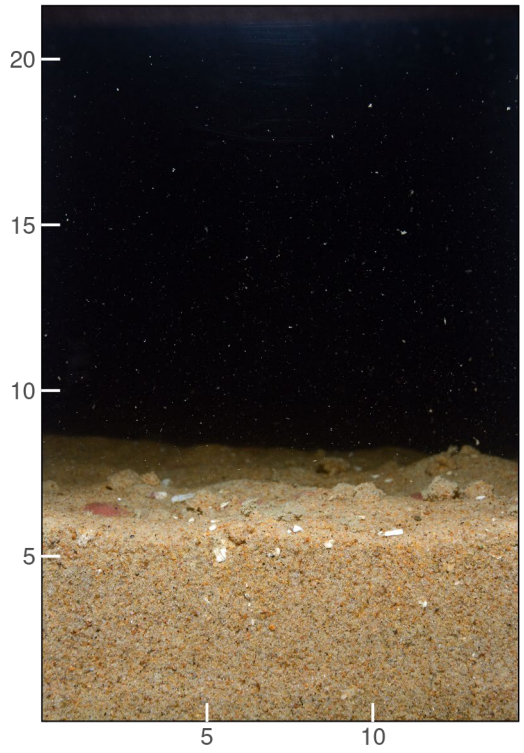
SP-460-D



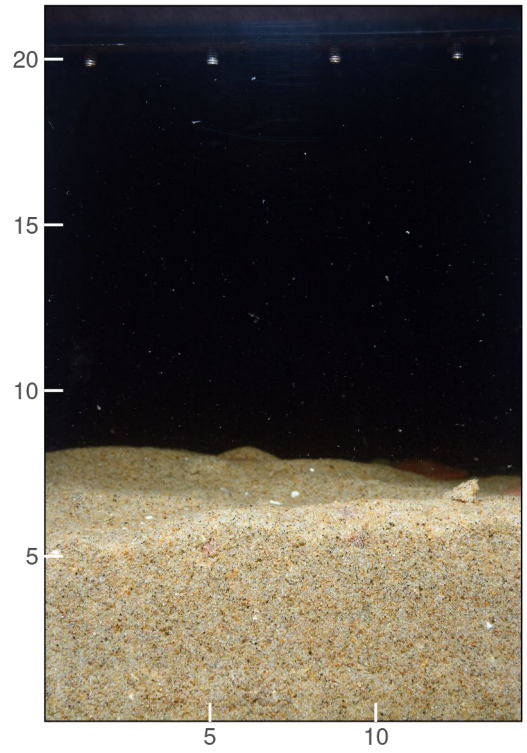
SP-460-E



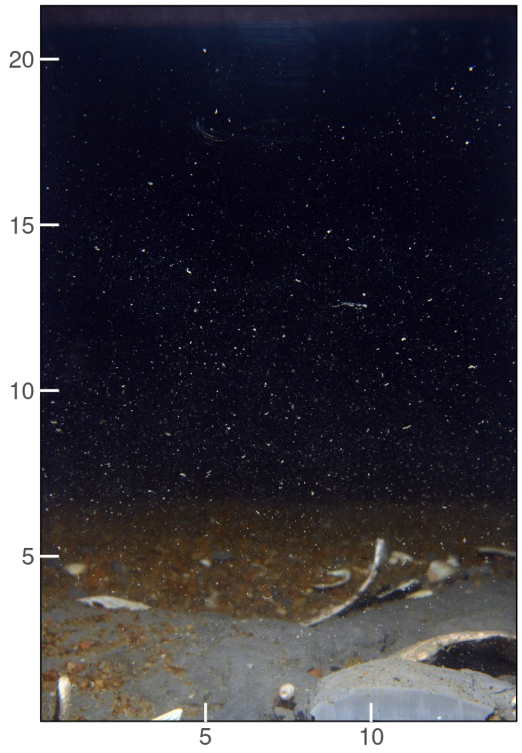
SP-465-B



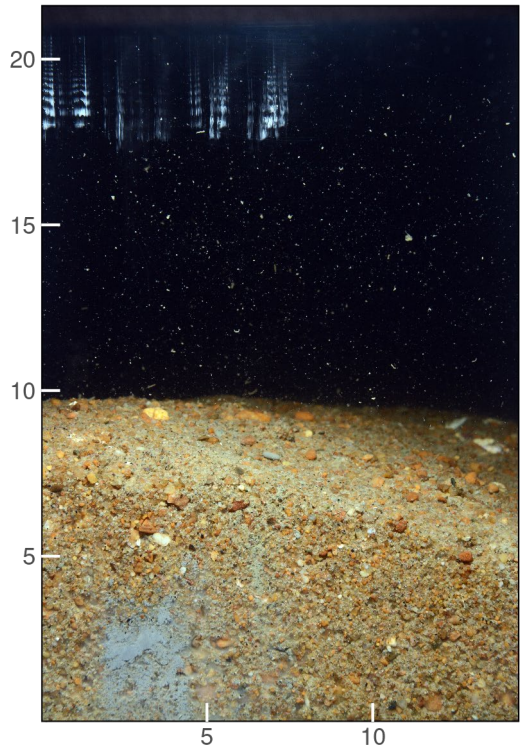
SP-465-D



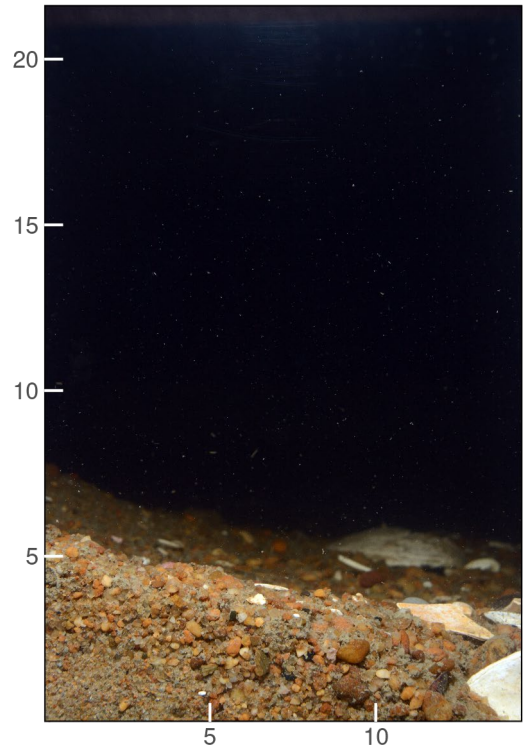
SP-465-E



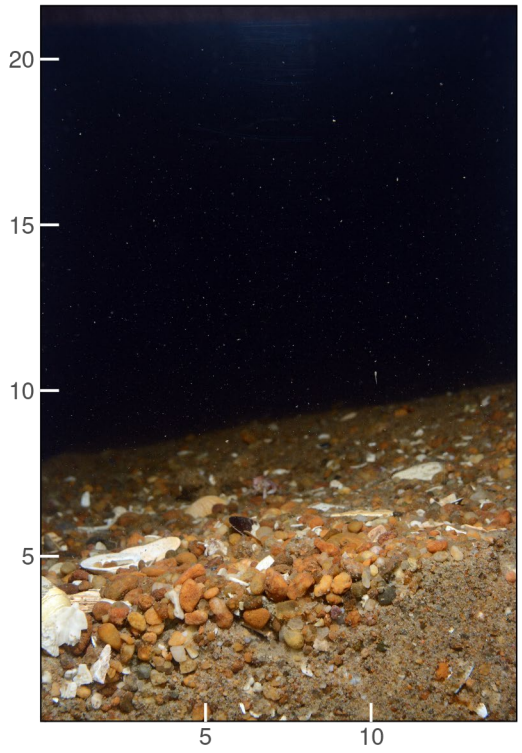
SP-468-A



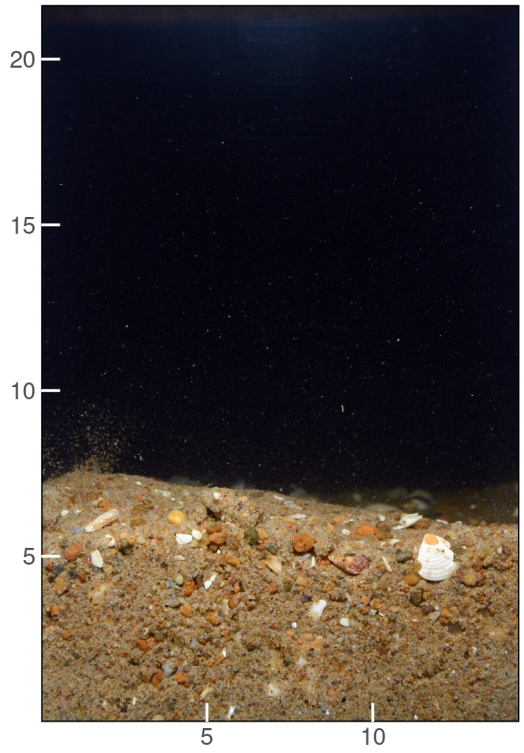
SP-468-C



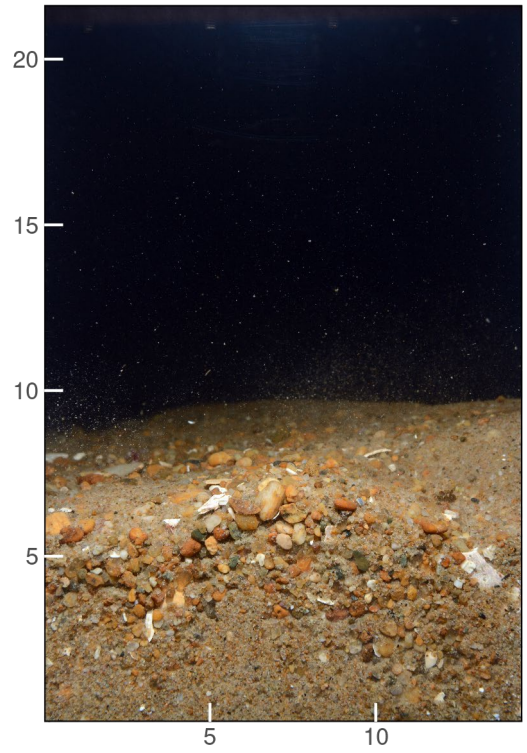
SP-468-D



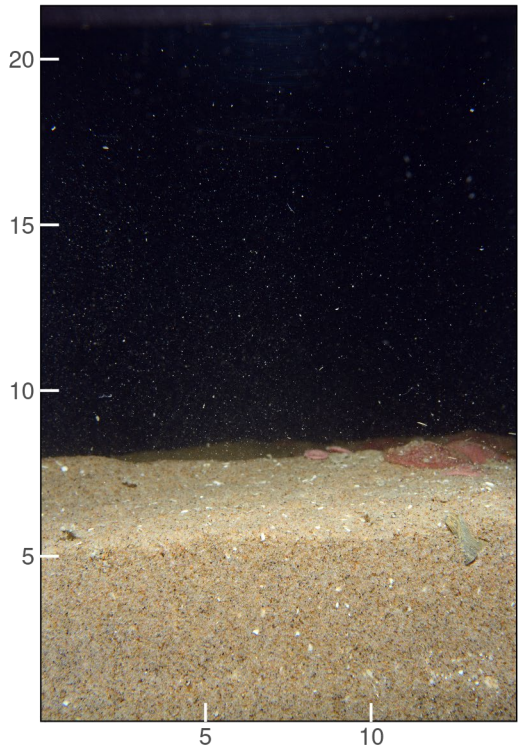
SP-471-A



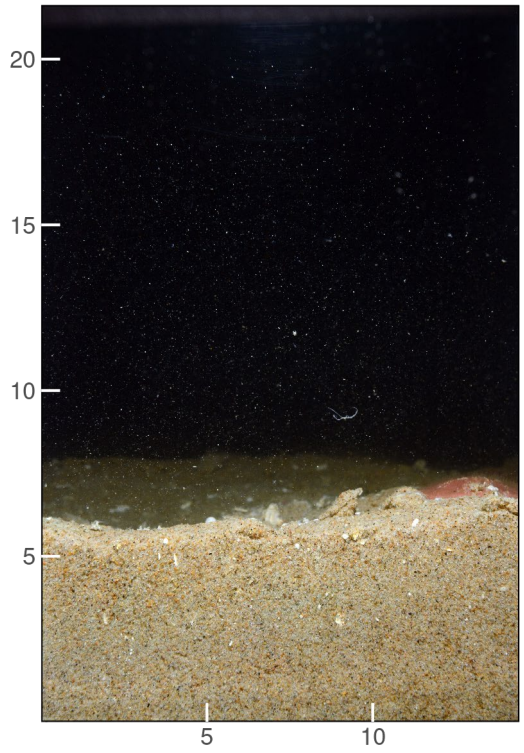
SP-471-B



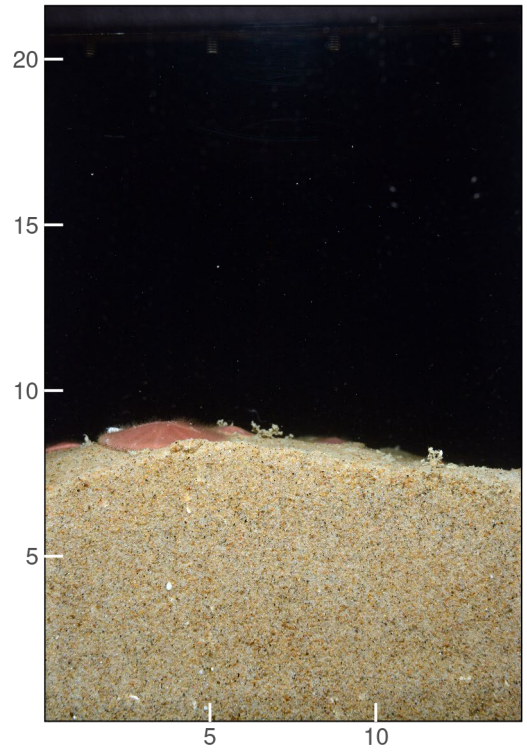
SP-471-D



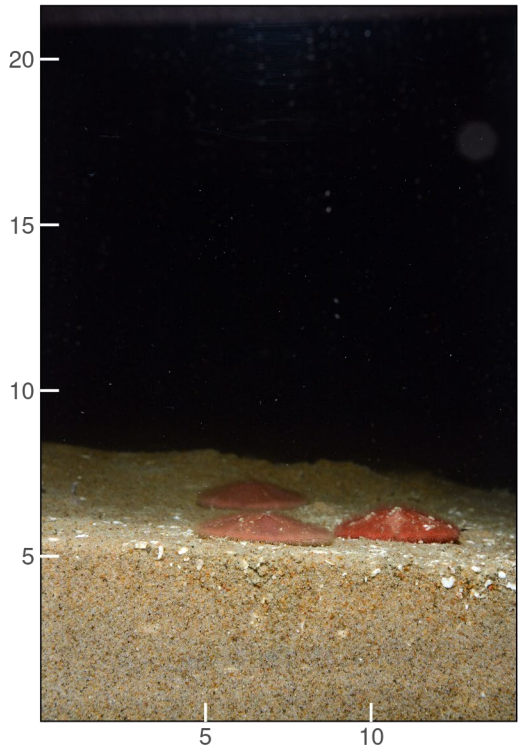
SPC-474-A



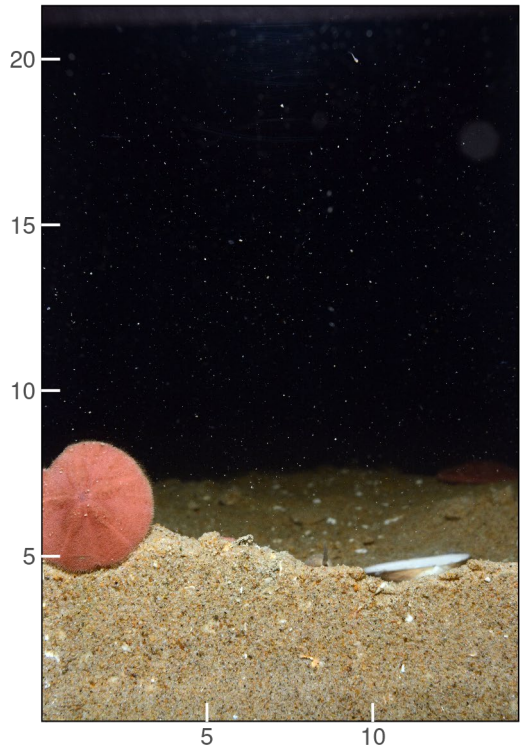
SPC-474-B



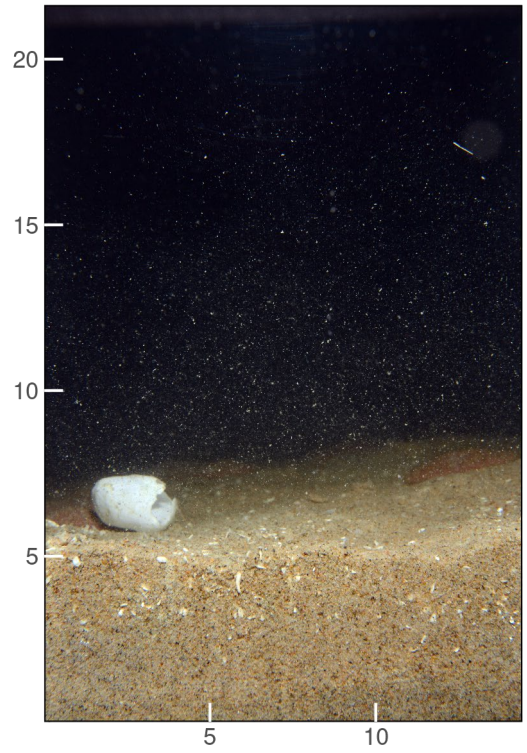
SPC-474-C



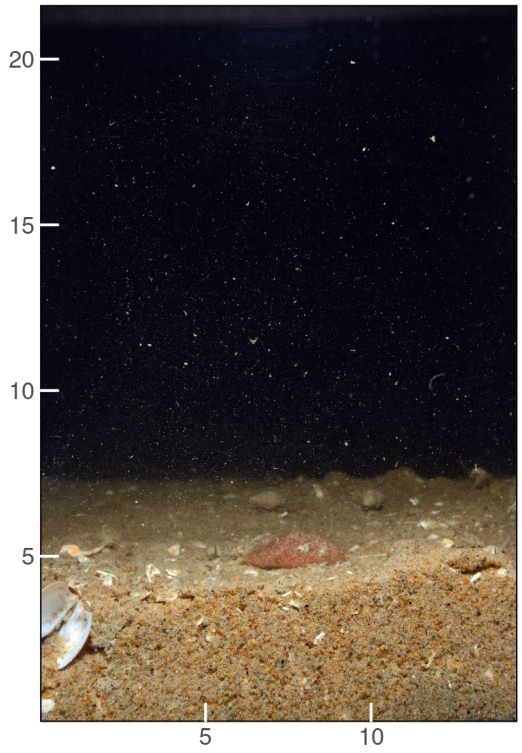
SPC-475-A



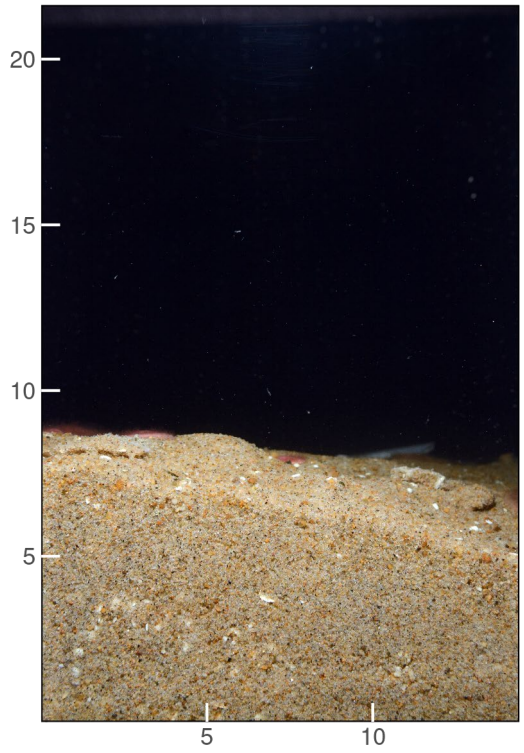
SPC-475-B



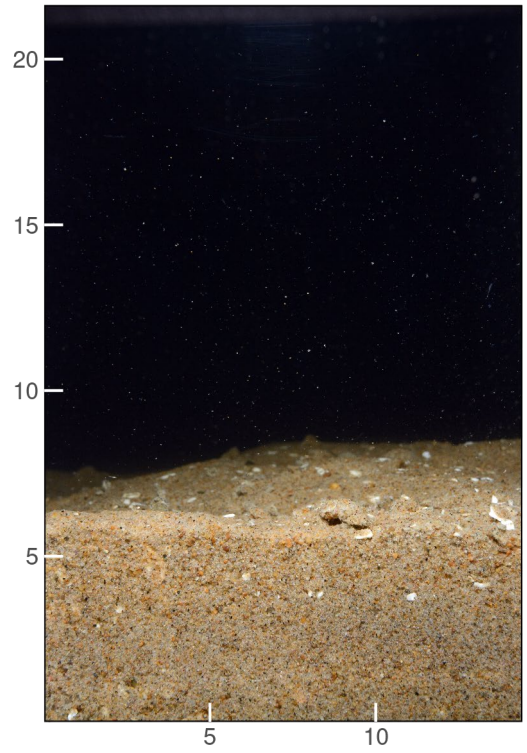
SPC-475-C



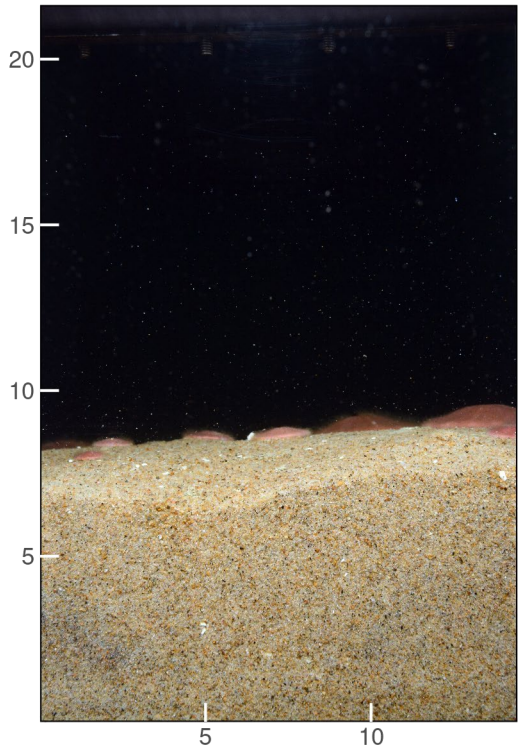
SPGC-476-B



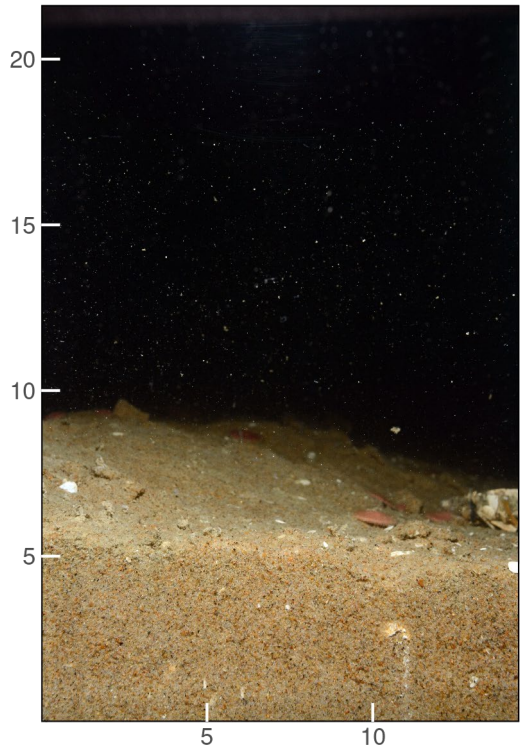
SPGC-476-C



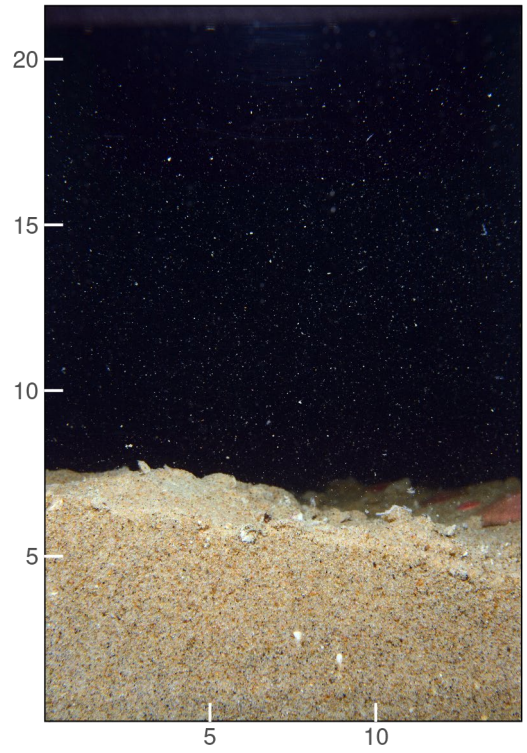
SPGC-476-D



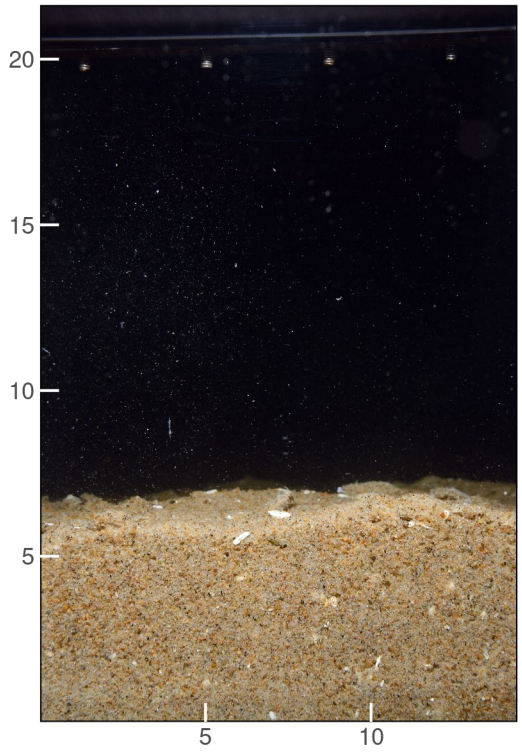
SPC-477-A



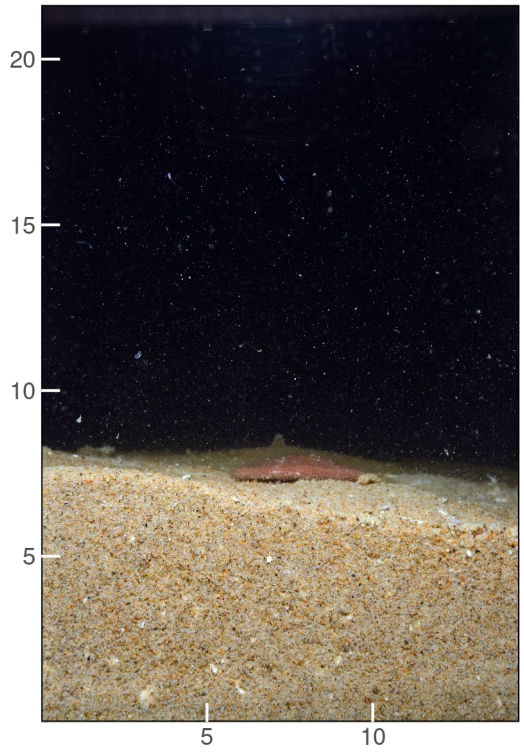
SPC-477-B



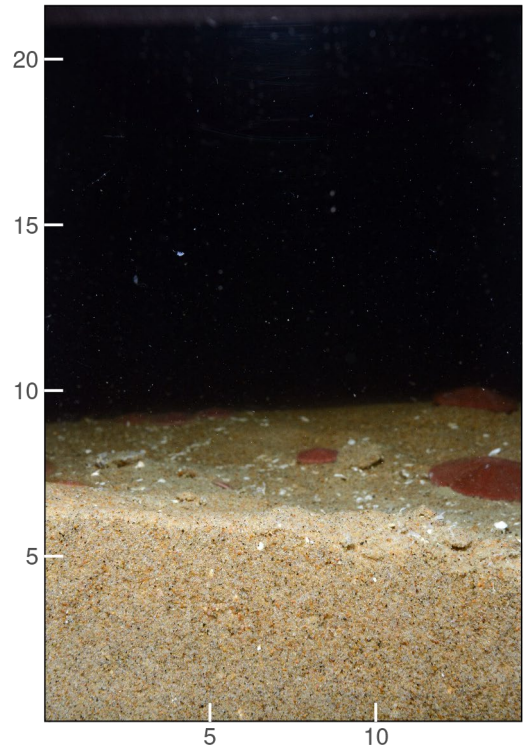
SPC-477-C



SPC-478-A



SPC-478-C

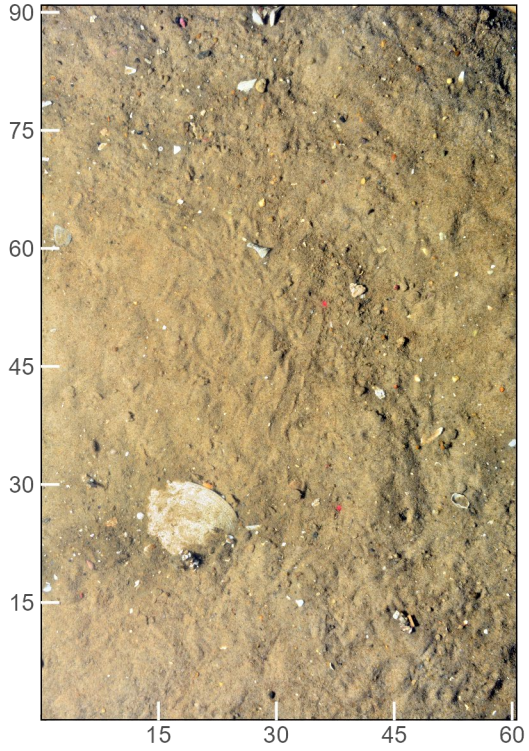


SPC-478-D

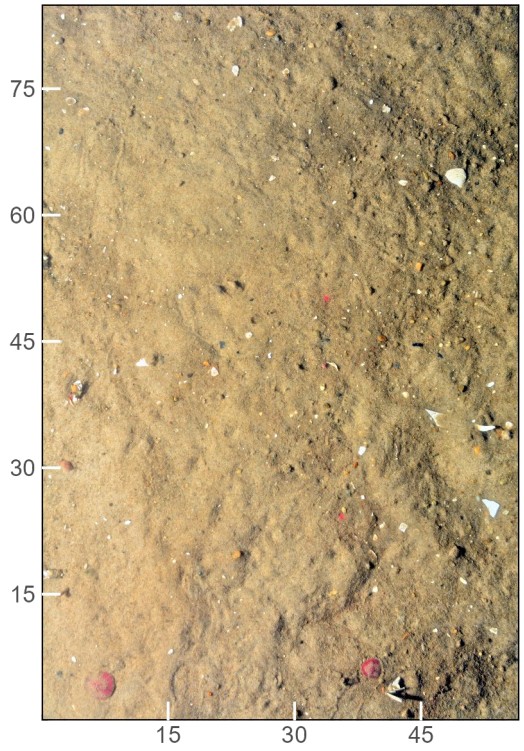
Appendix B2

Plan View Images—
OCS-A 0549

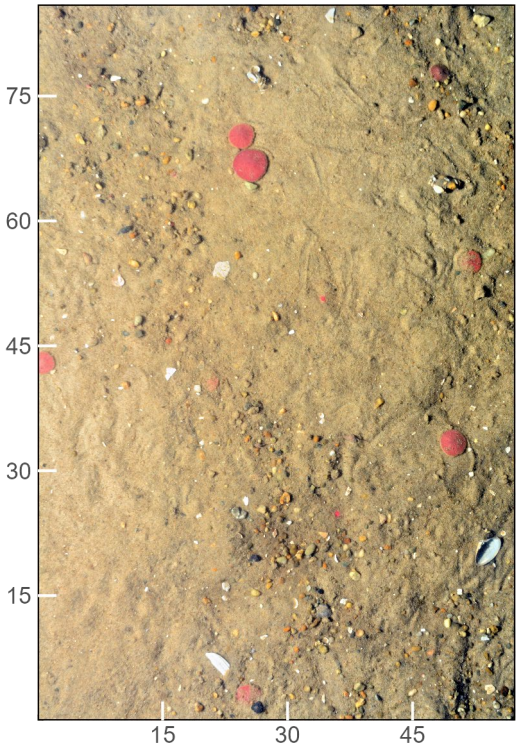
Scale: The width and height of each PV image is provided in Appendix C2 (PV Image Data Set).



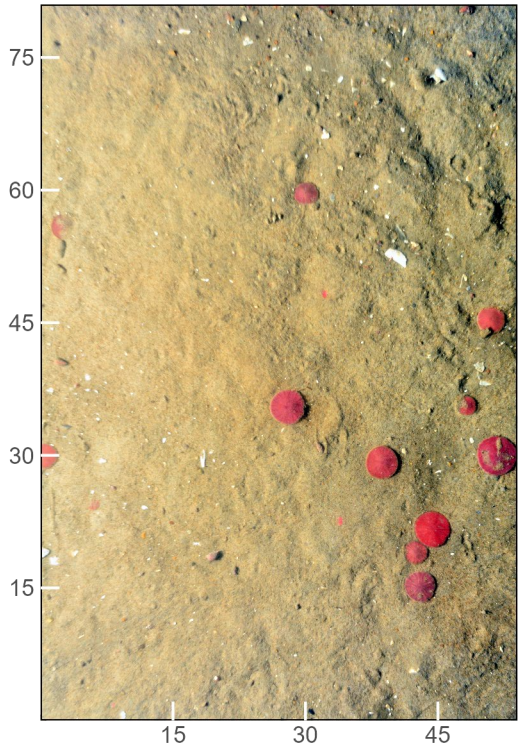
SP-418-A



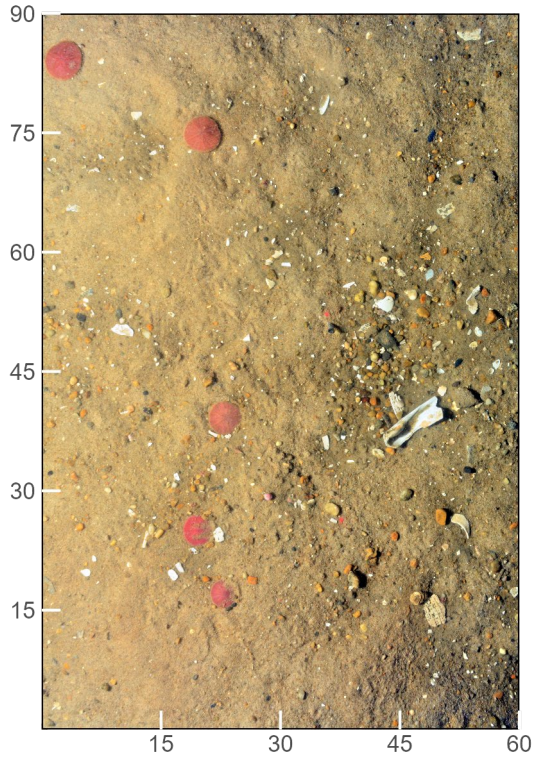
SP-418-B



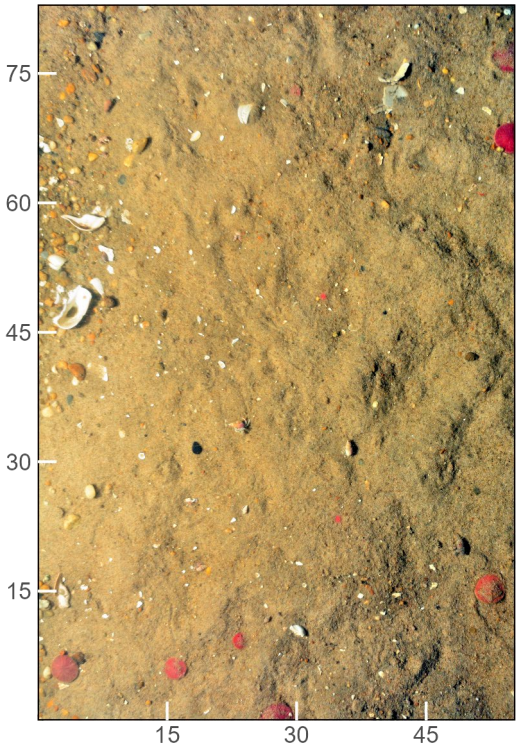
SP-418-C



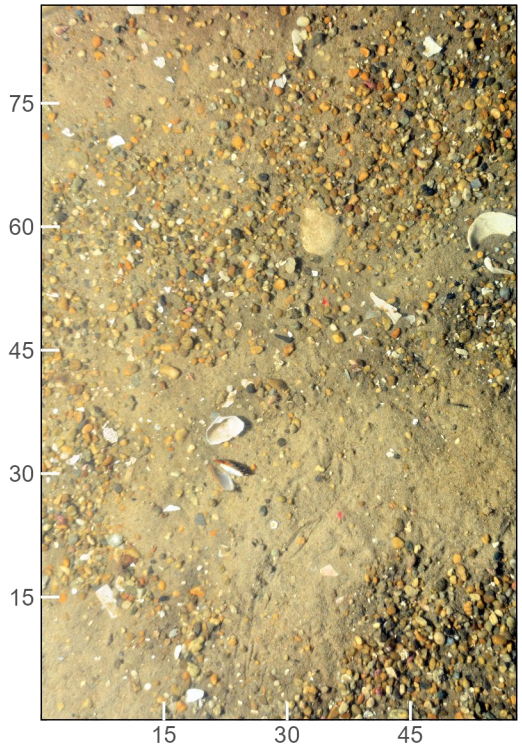
SP-421-A



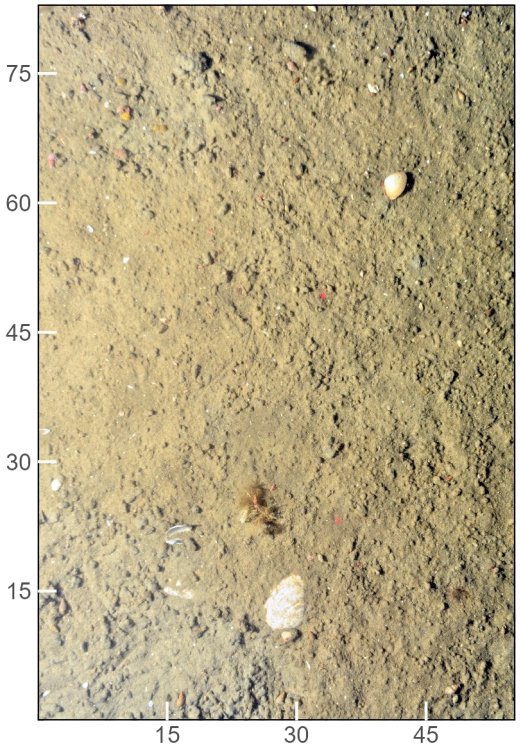
SP-421-C



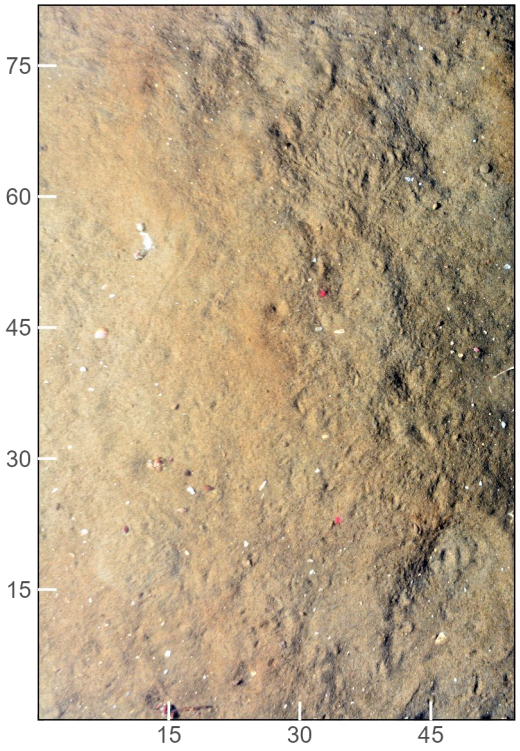
SP-421-E



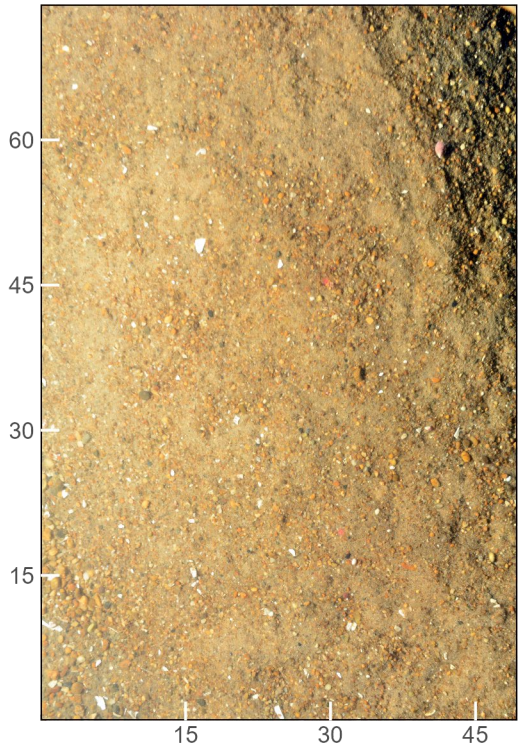
SP-422-C



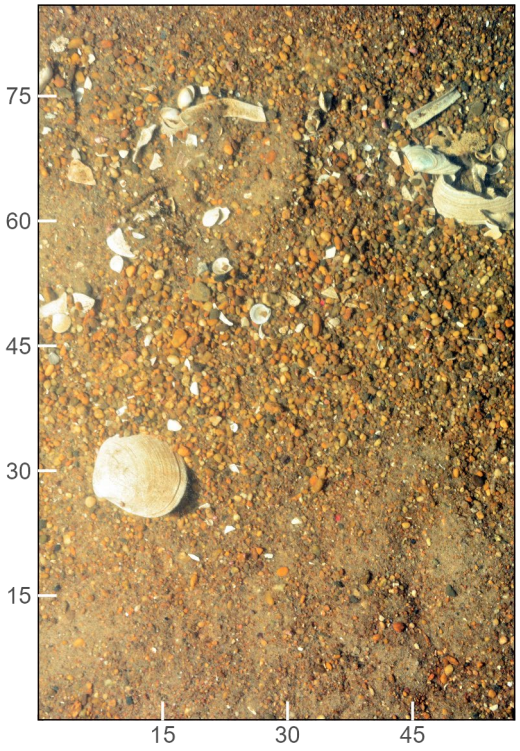
SP-422-D



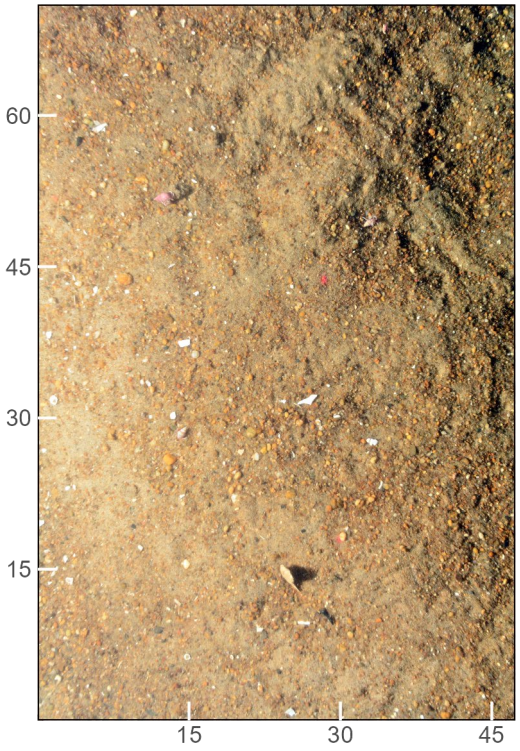
SP-422-E



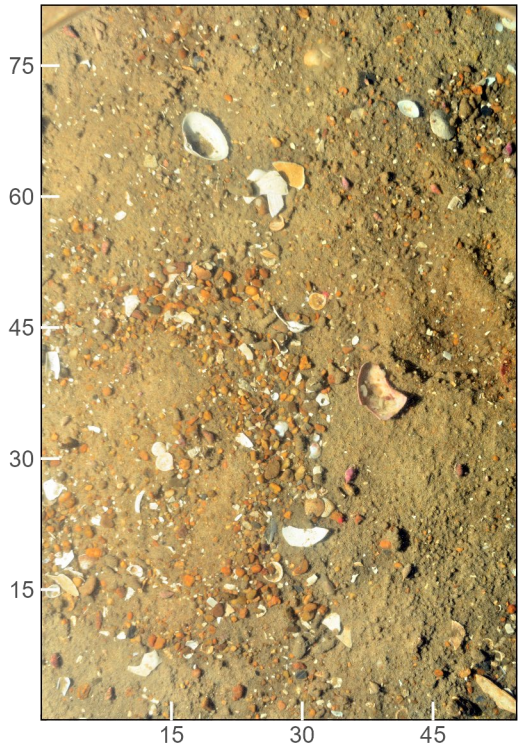
SPG-427-A



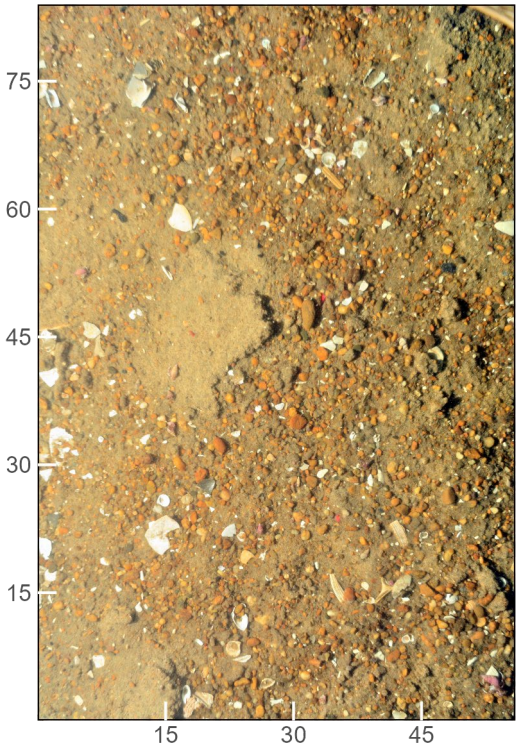
SPG-427-B



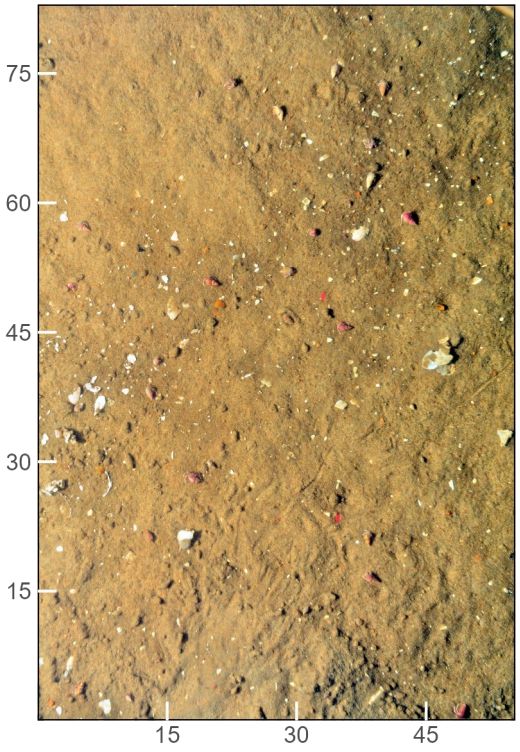
SPG-427-C



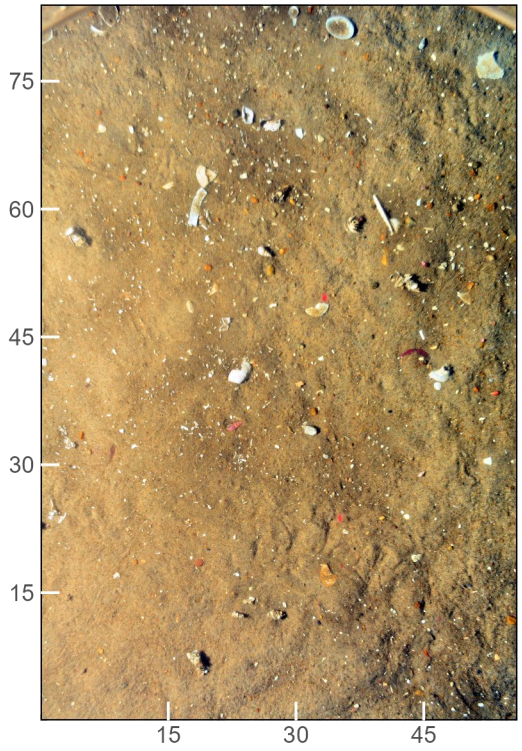
SP-429-A



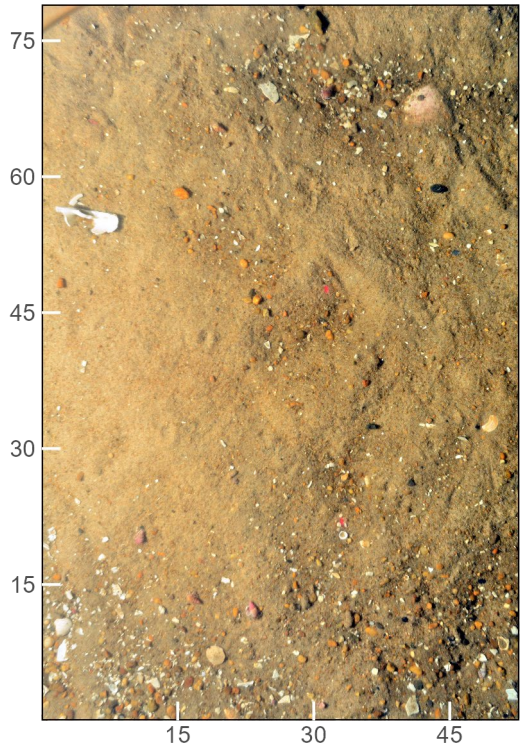
SP-429-C



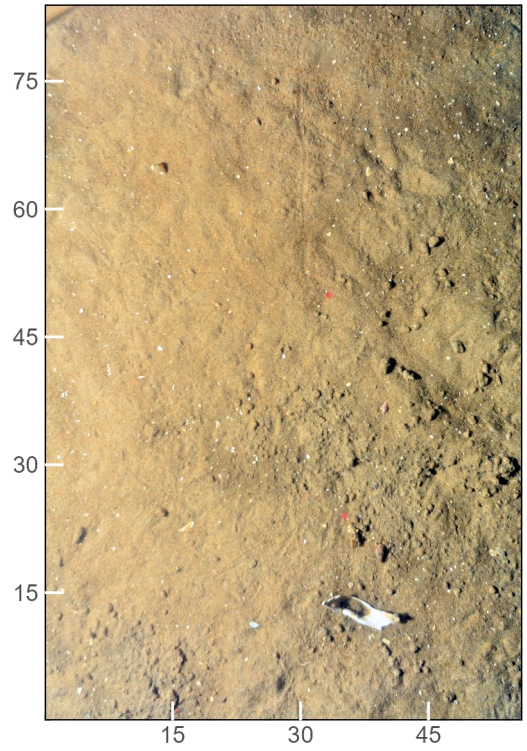
SP-429-D



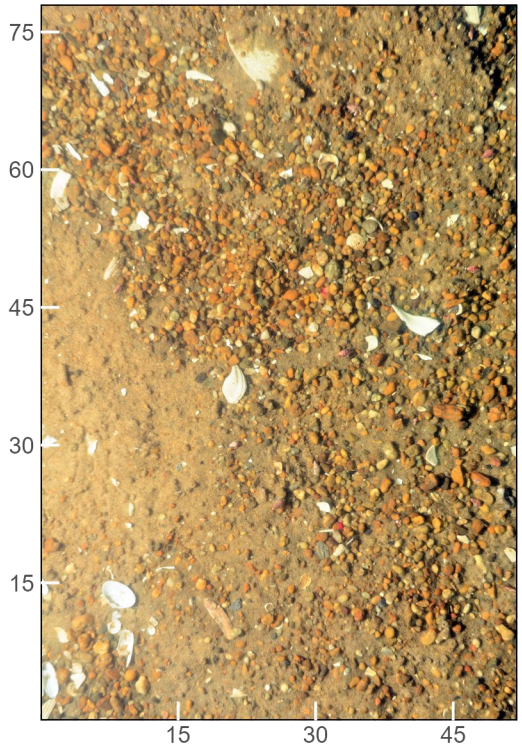
SP-430-A



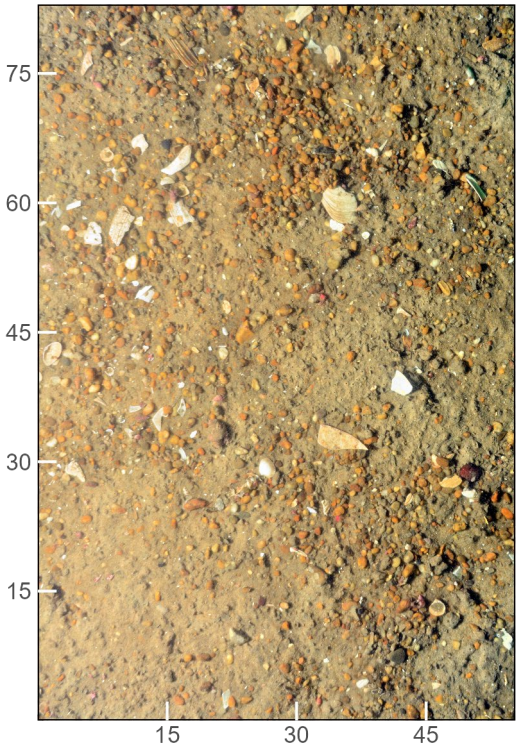
SP-430-B



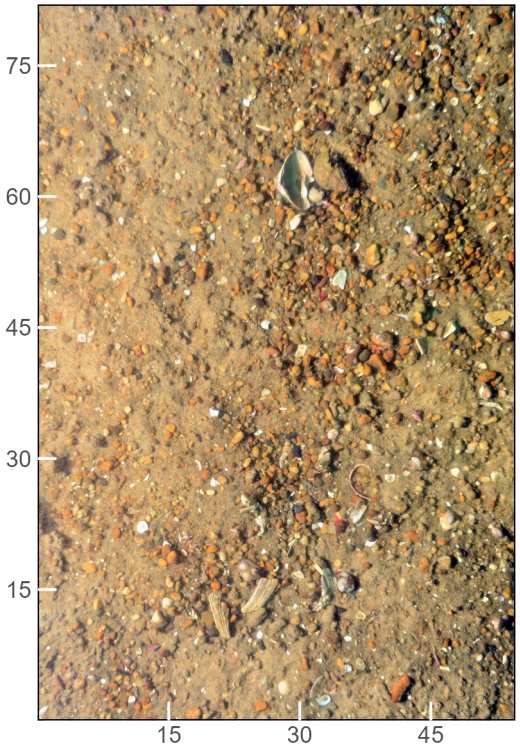
SP-430-C



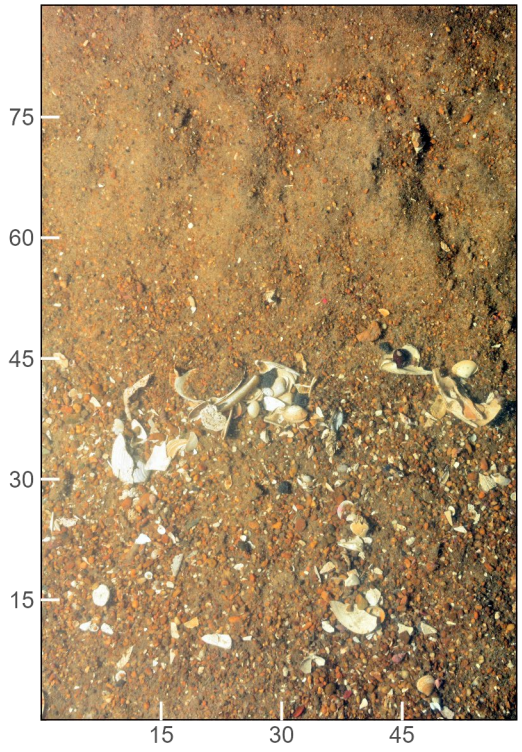
SP-431-A



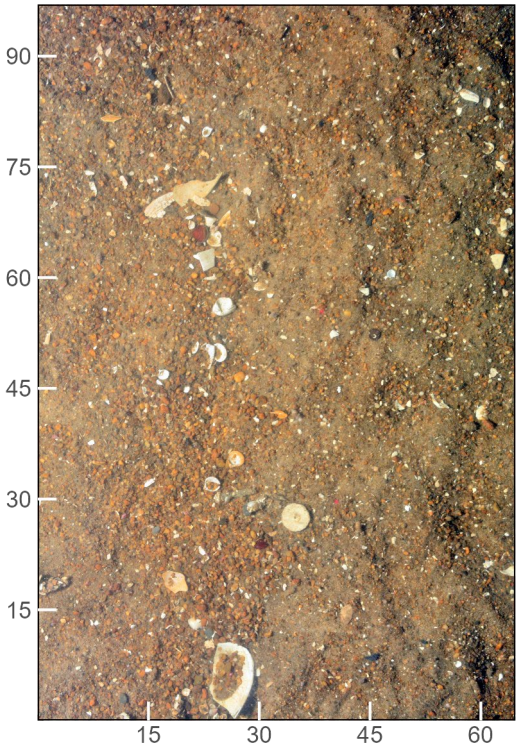
SP-431-B



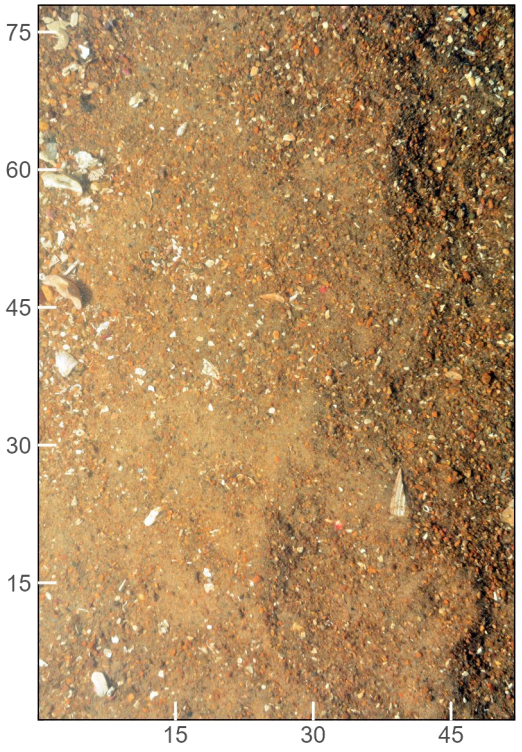
SP-431-D



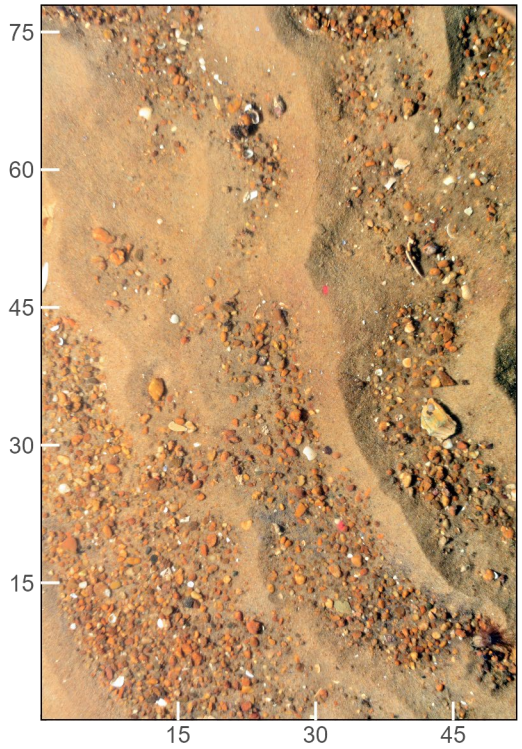
SP-434-A



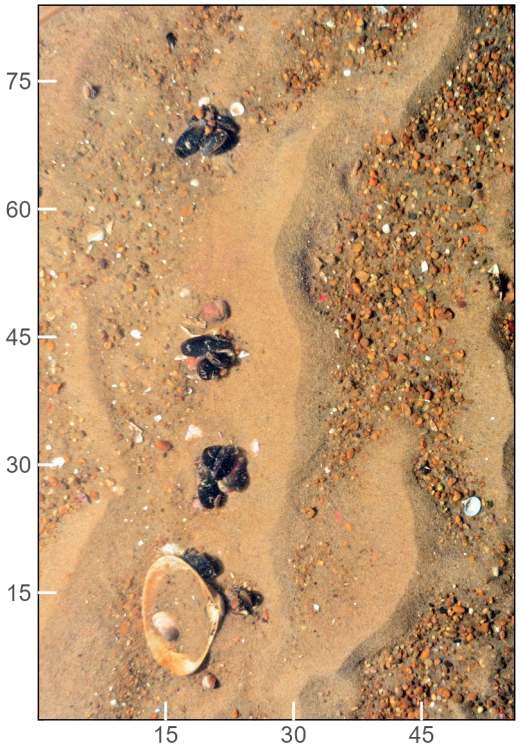
SP-434-C



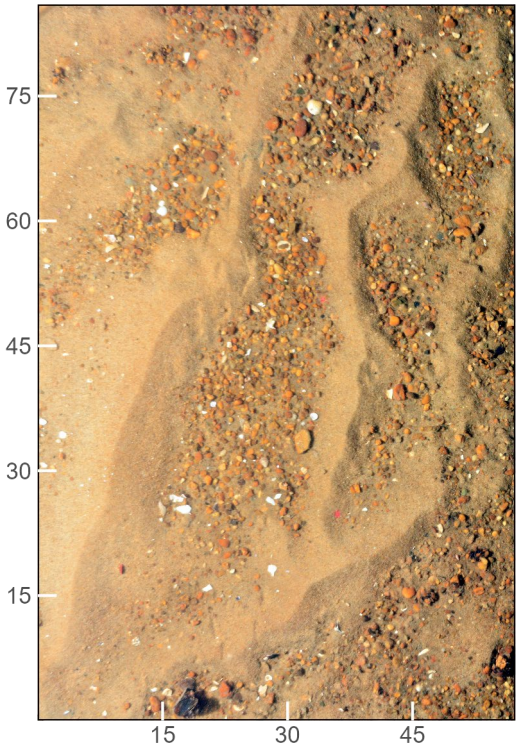
SP-434-D



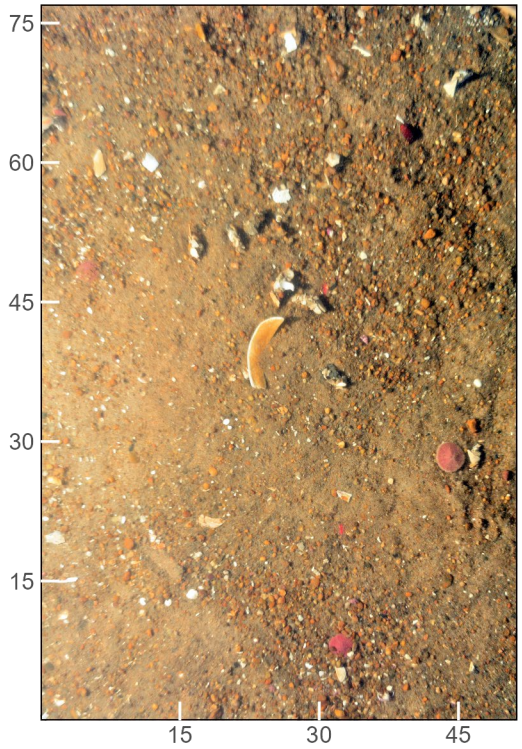
SP-437-A



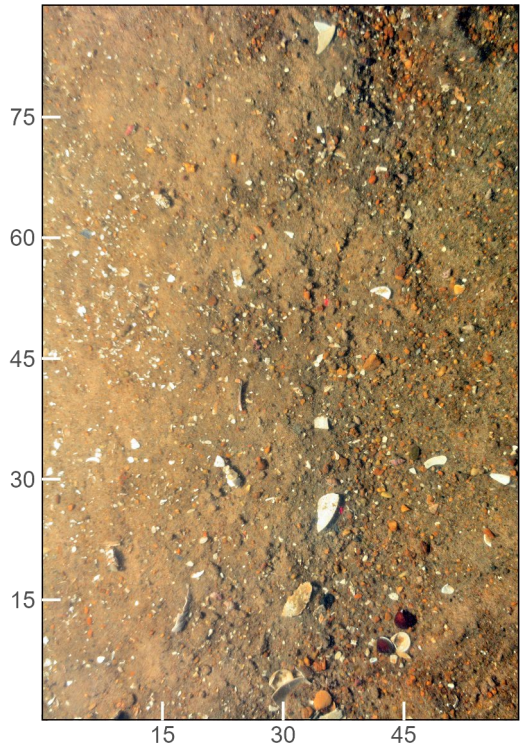
SP-437-B



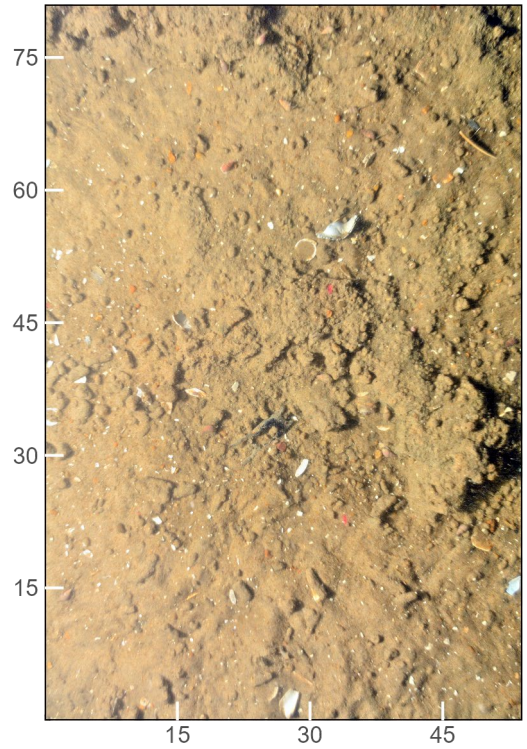
SP-437-C



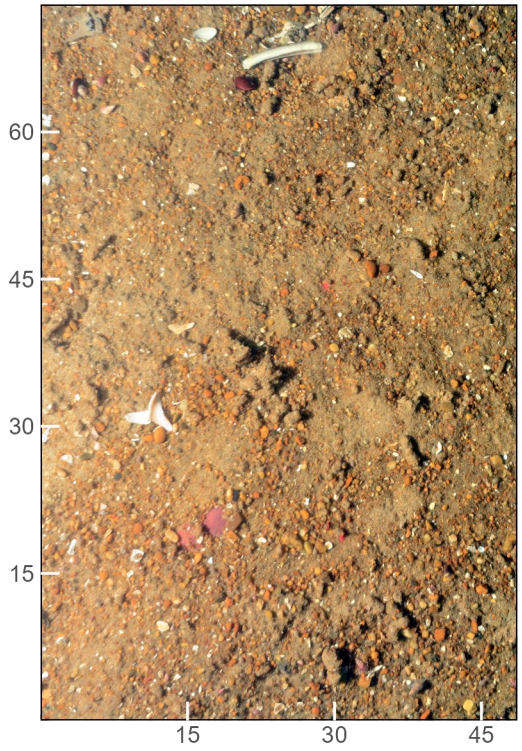
SP-438-A



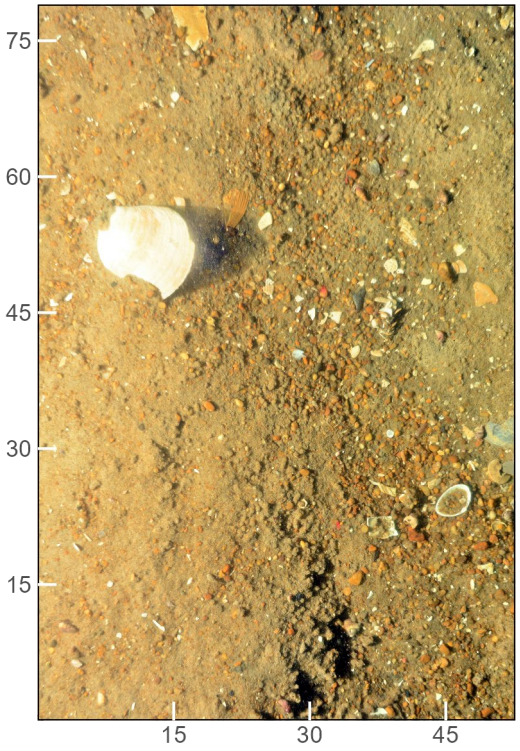
SP-438-D



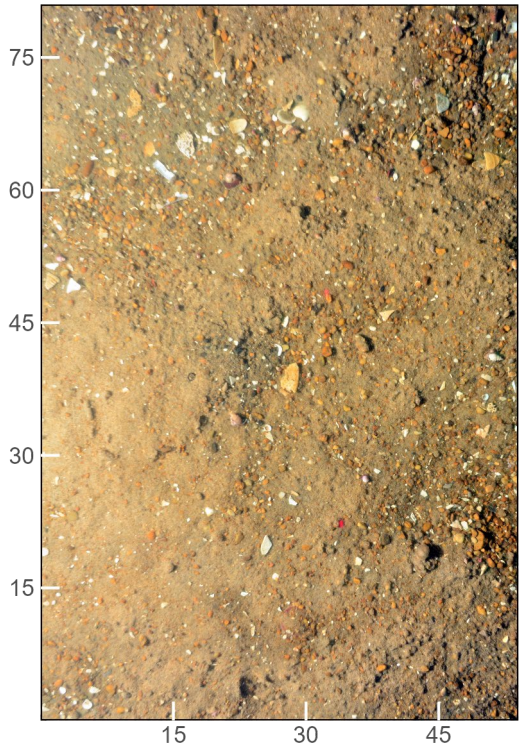
SP-438-E



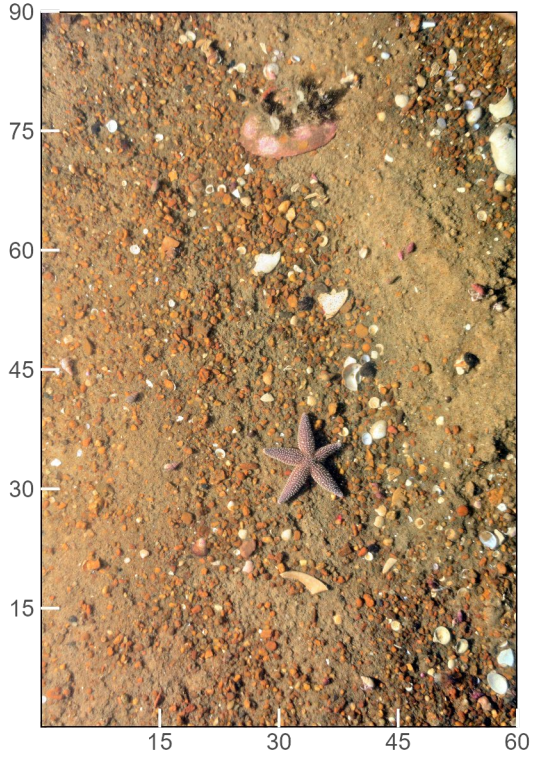
SP-439-B



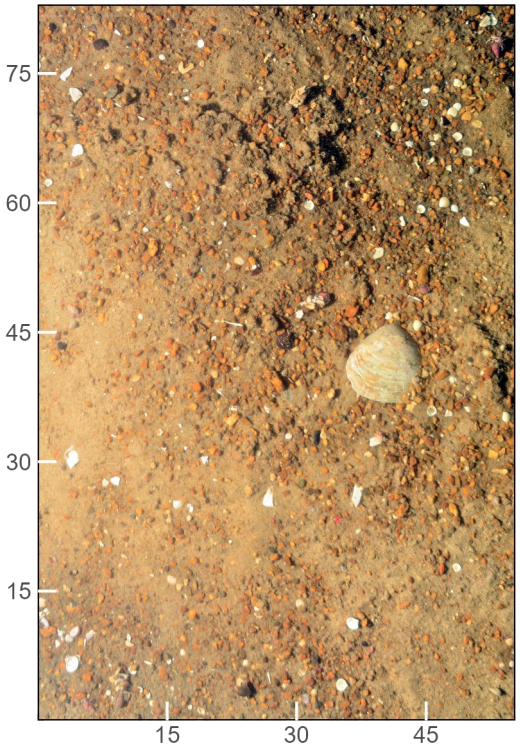
SP-439-C



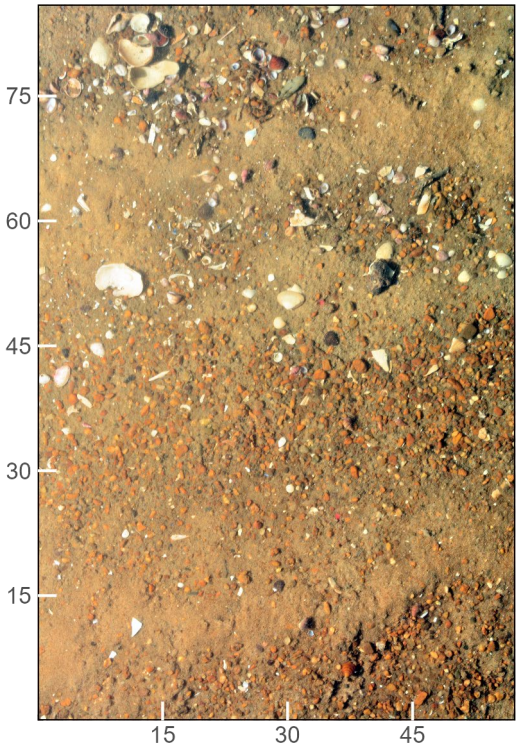
SP-439-E



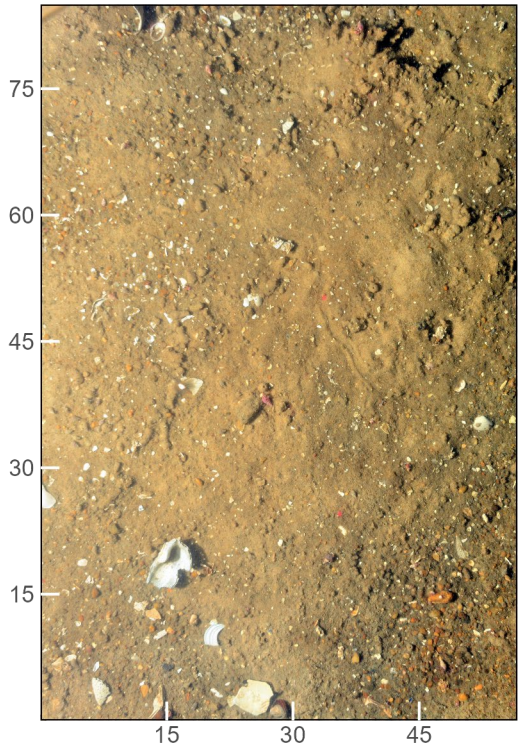
SP-442-A



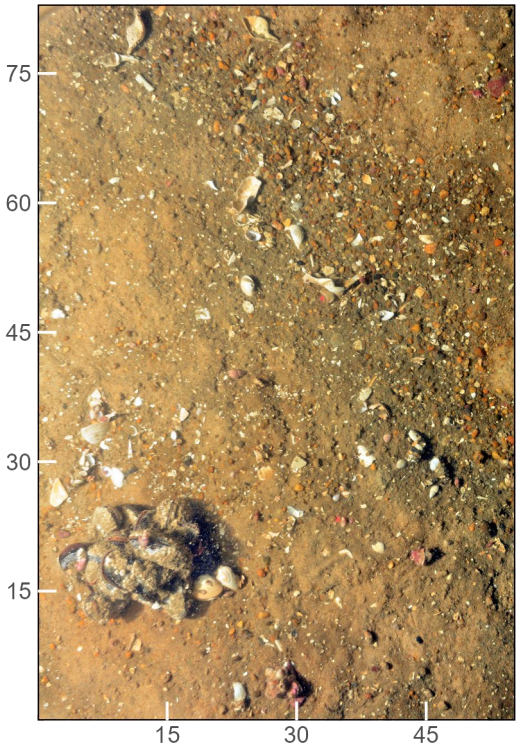
SP-442-B



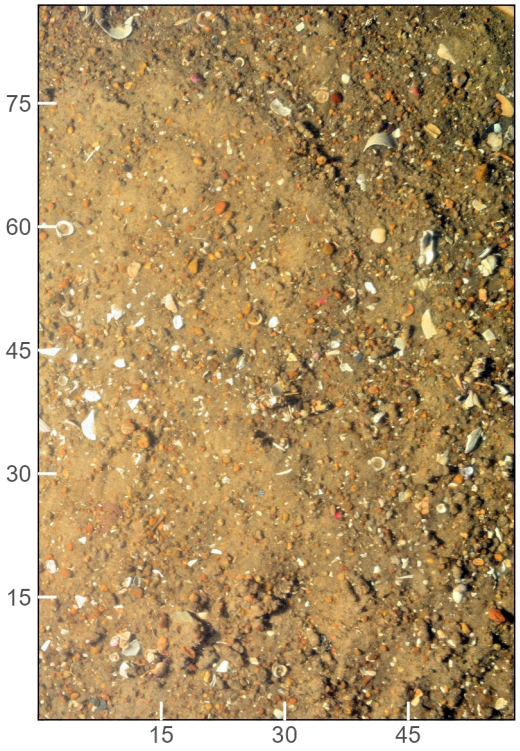
SP-442-C



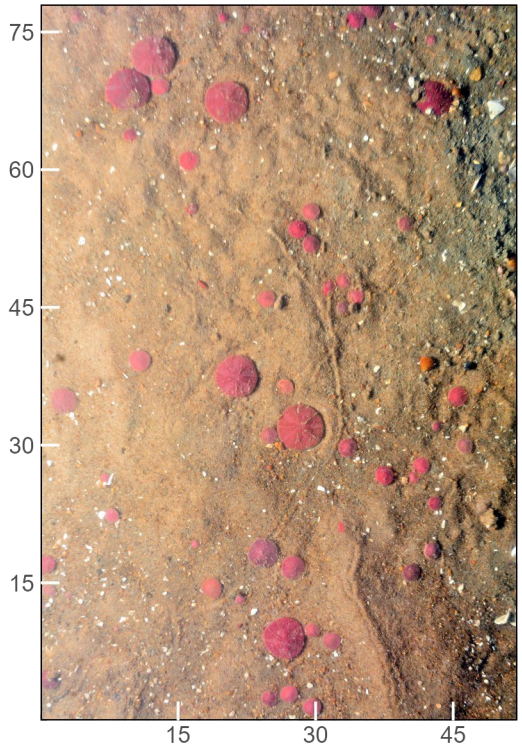
SP-443-A



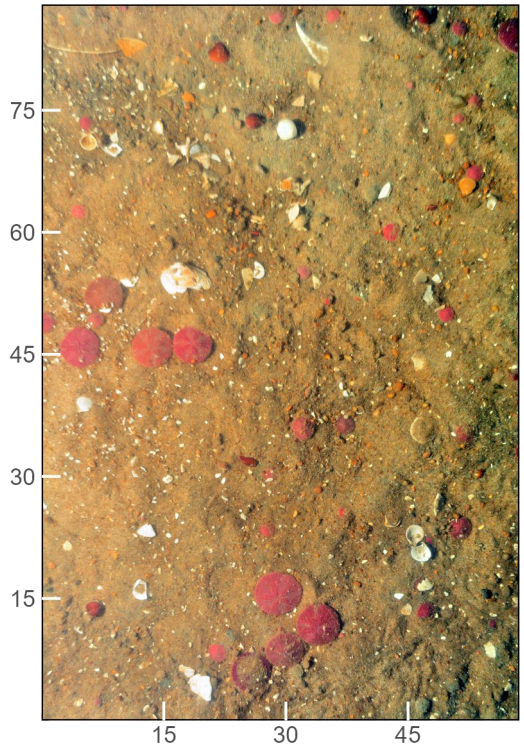
SP-443-C



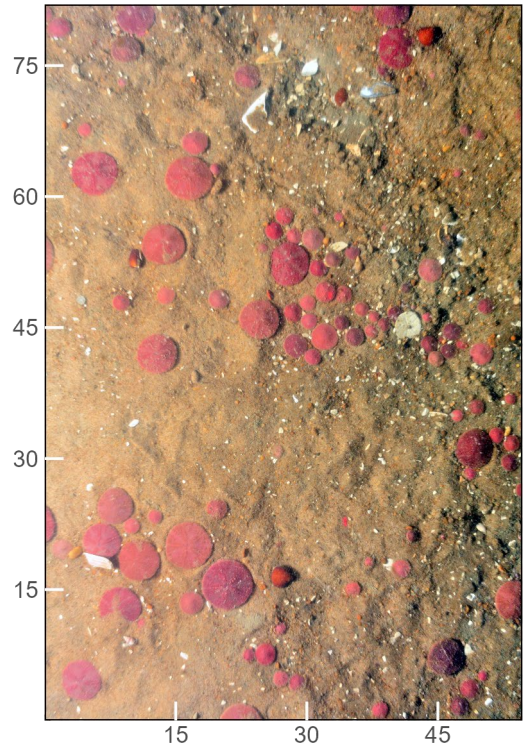
SP-443-E



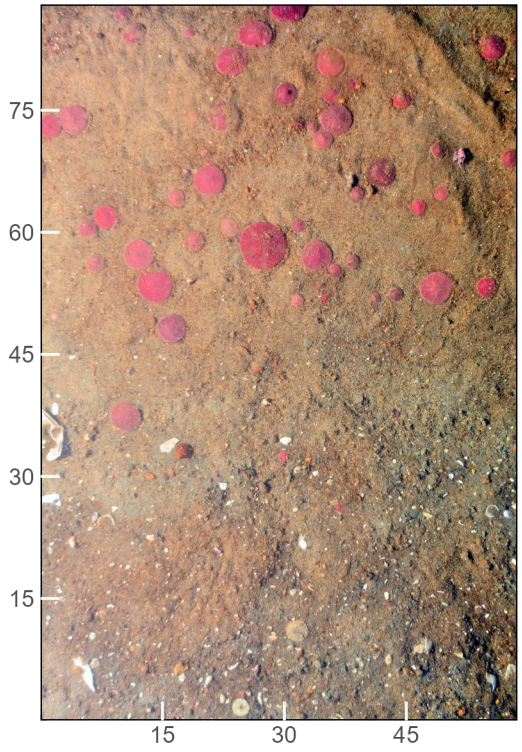
SP-444-A



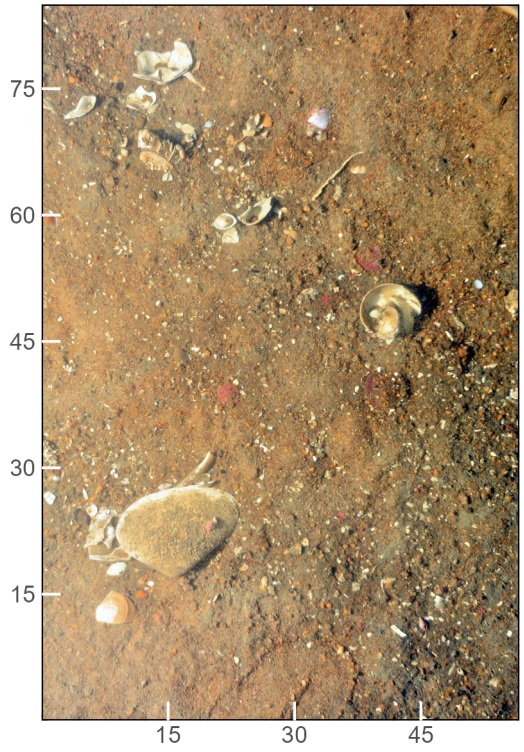
SP-444-B



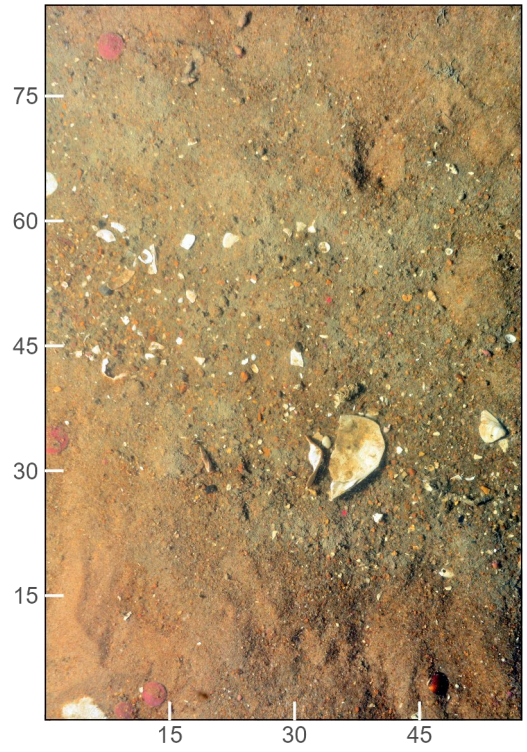
SP-444-C



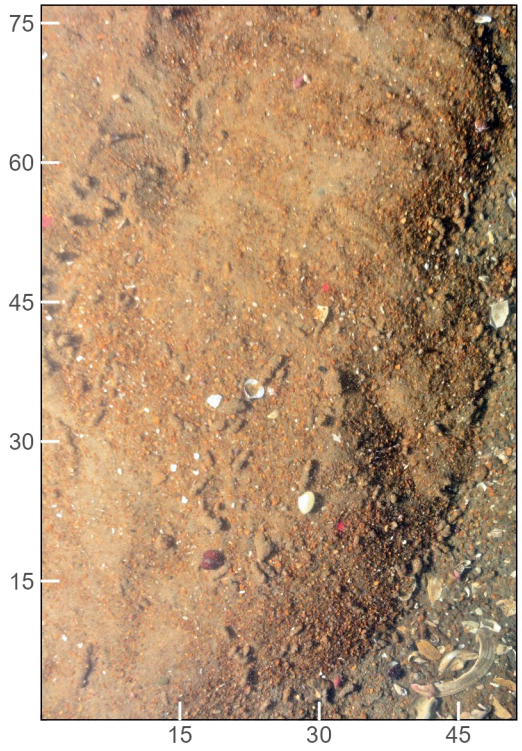
SP-445-A



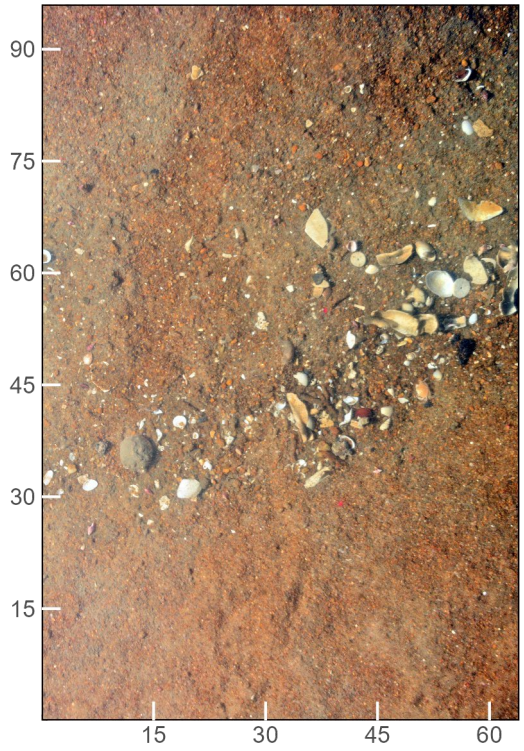
SP-445-B



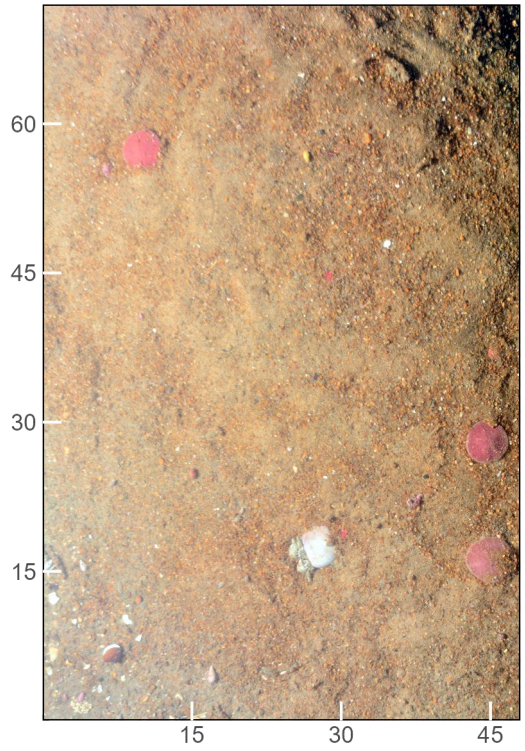
SP-445-E



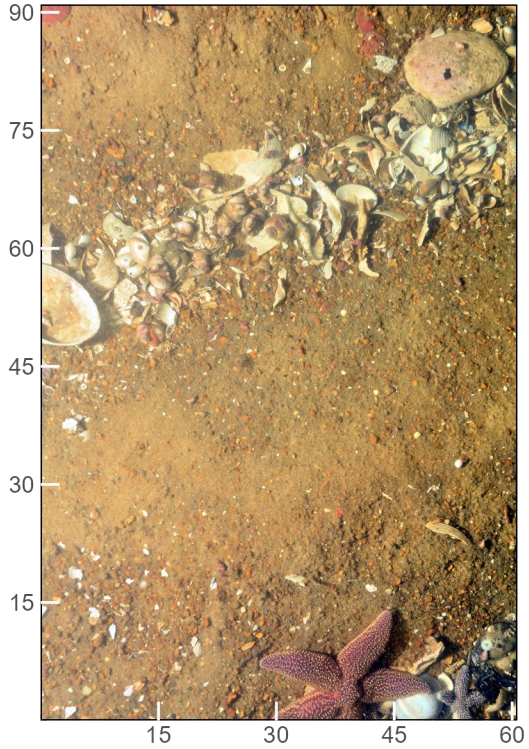
SP-447-A



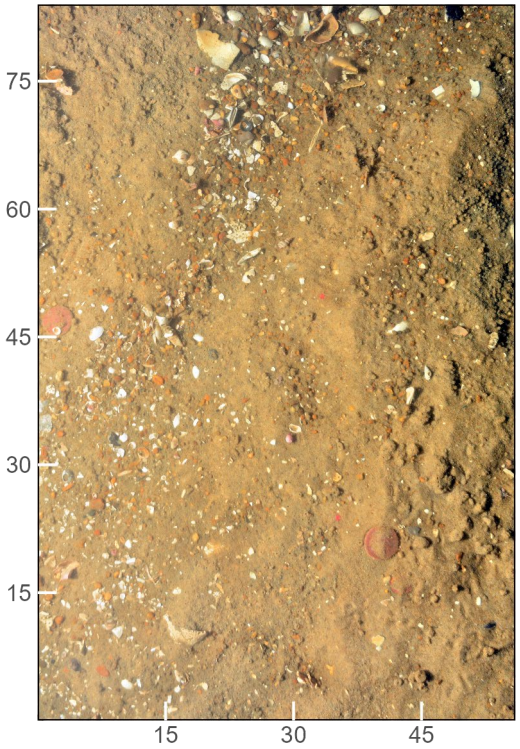
SP-447-C



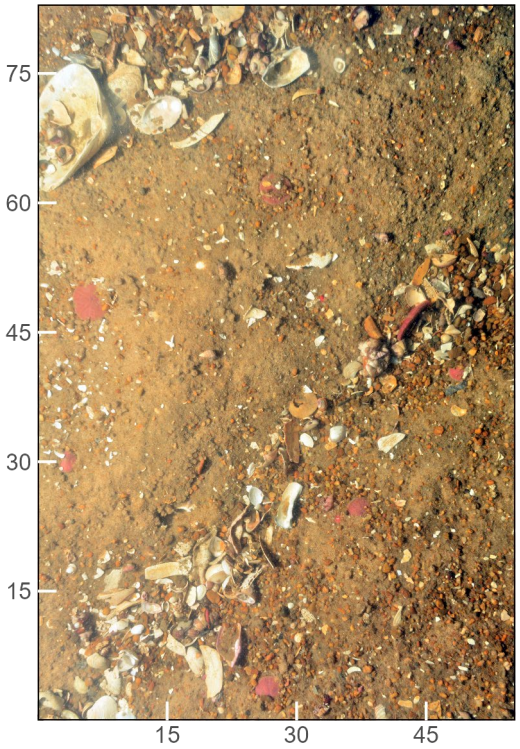
SP-447-D



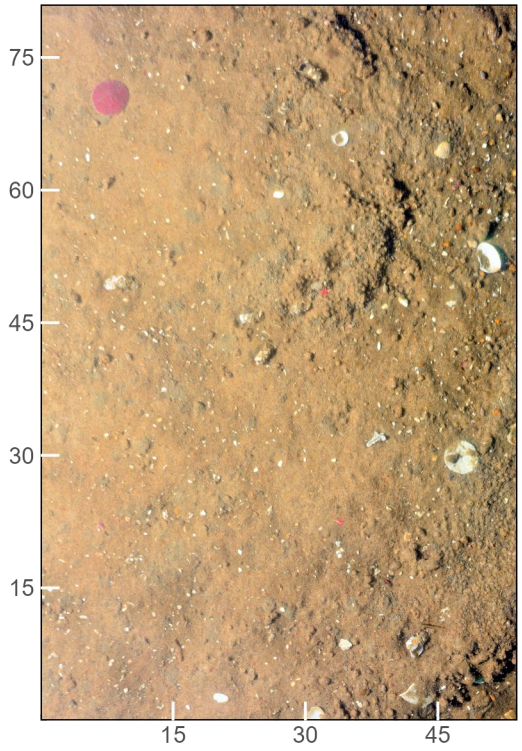
SP-449-B



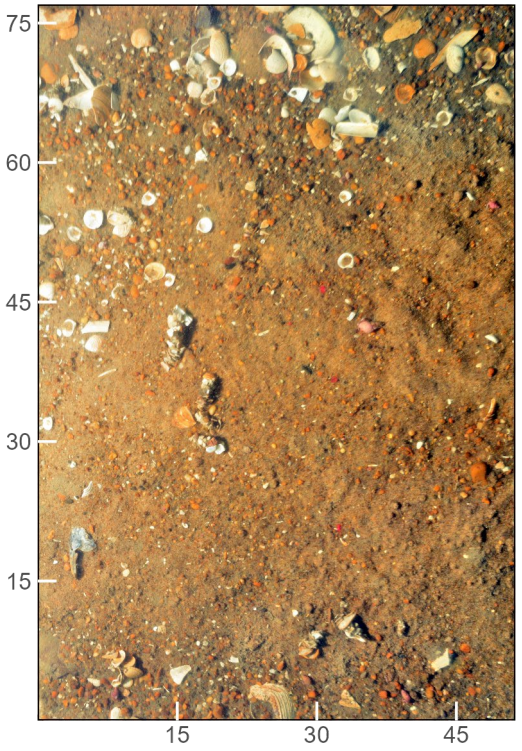
SP-449-C



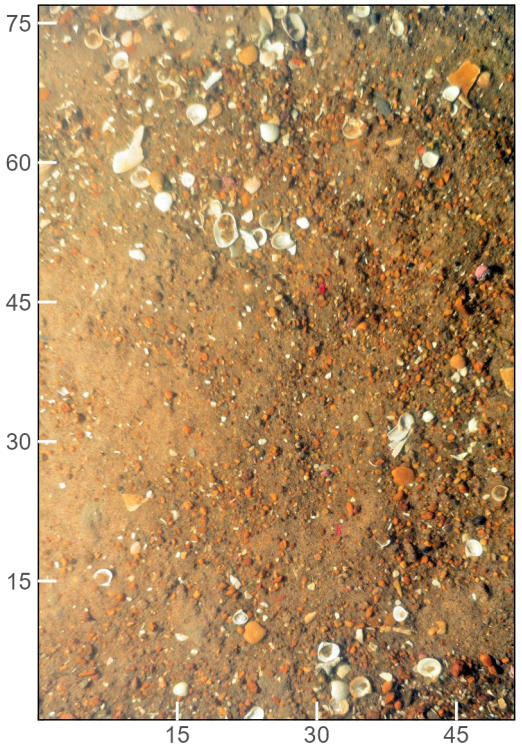
SP-449-D



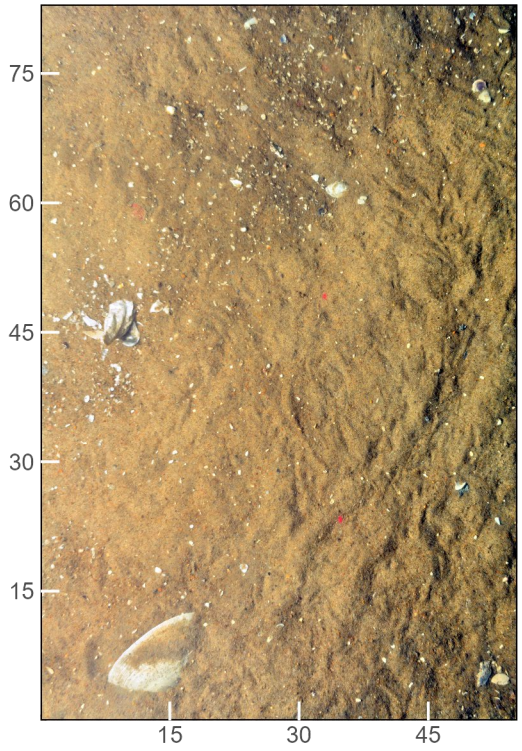
SP-450-A



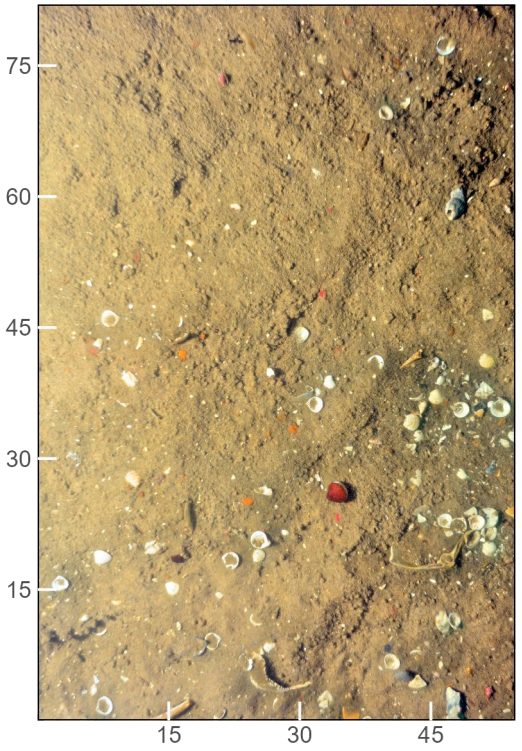
SP-450-D



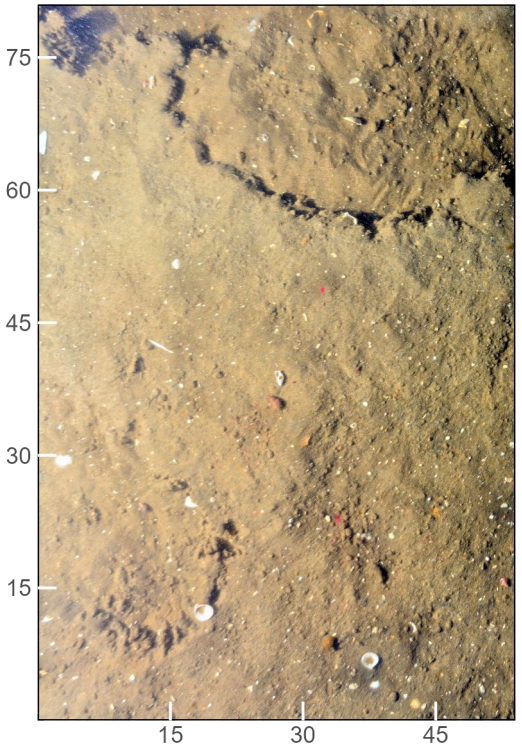
SP-450-E



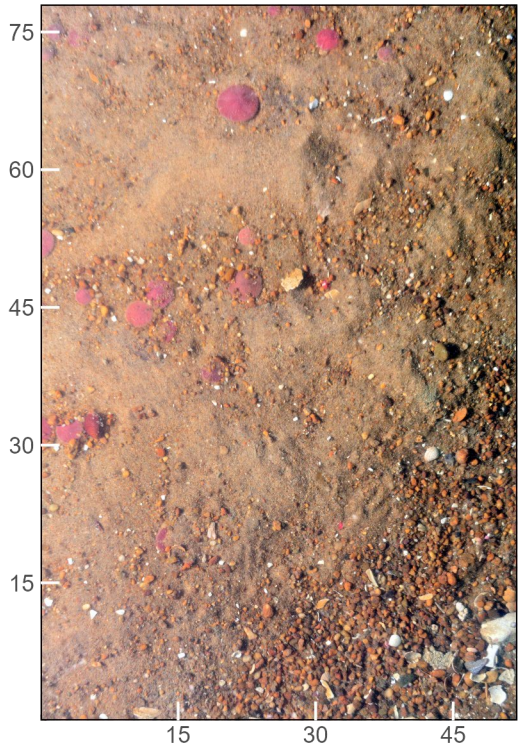
SPG-453-B



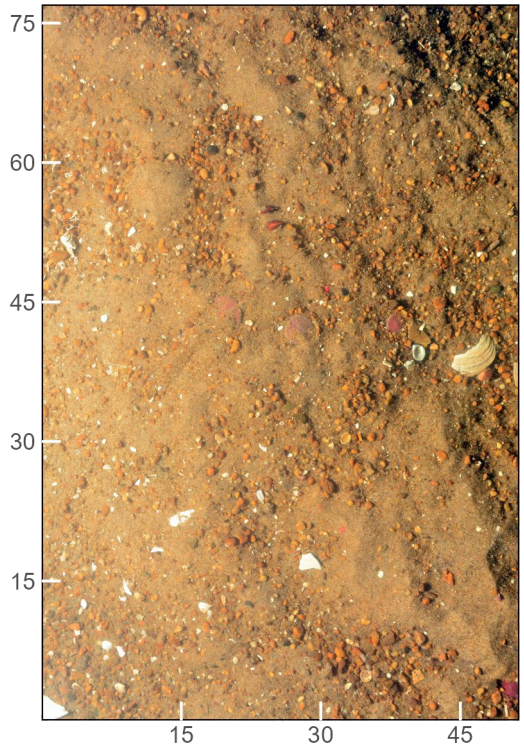
SPG-453-C



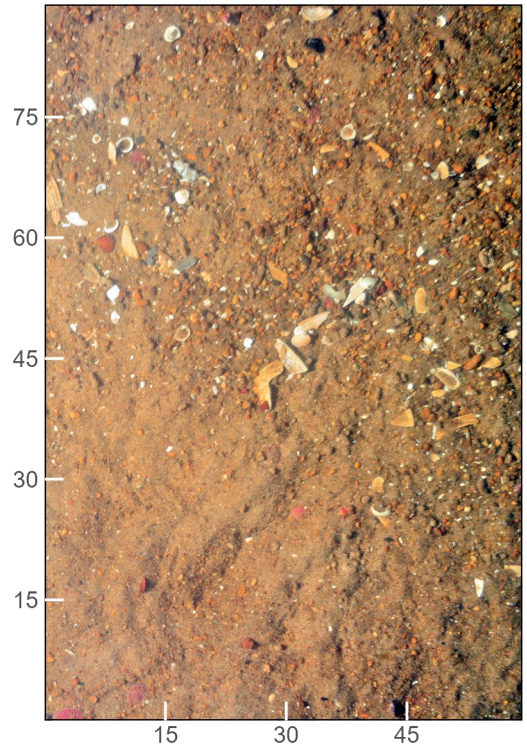
SPG-453-D



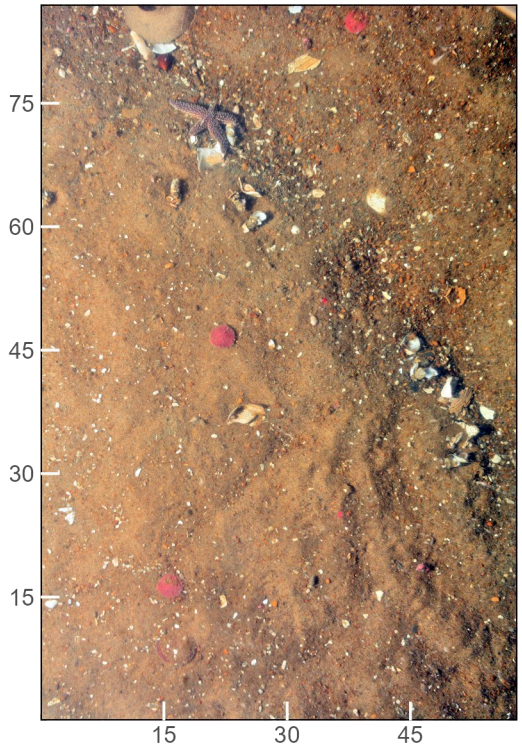
SP-455-A



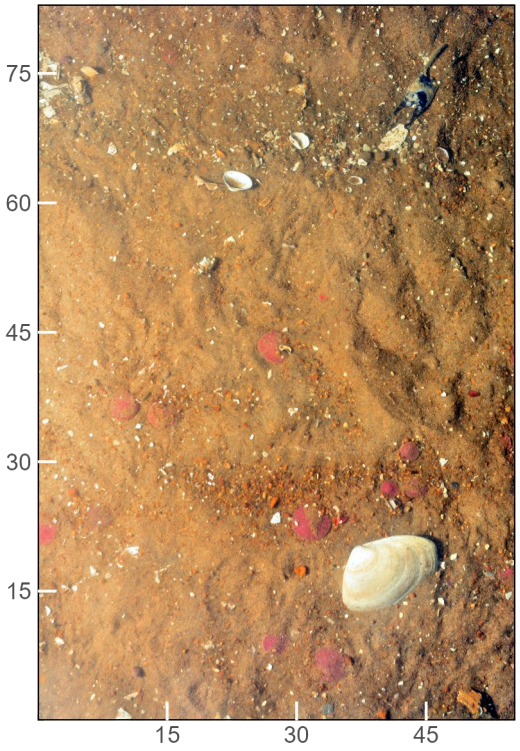
SP-455-D



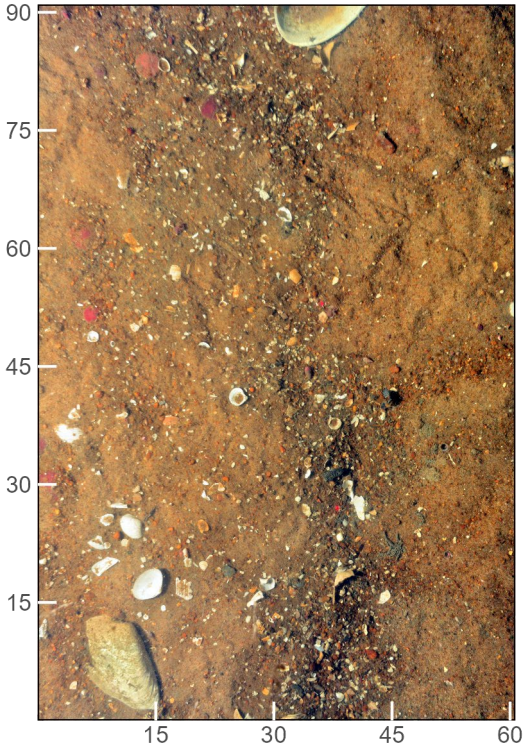
SP-455-E



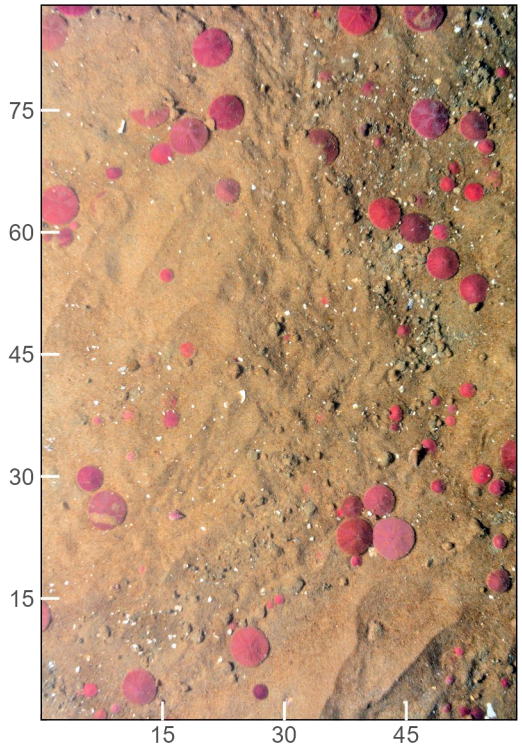
SP-460-A



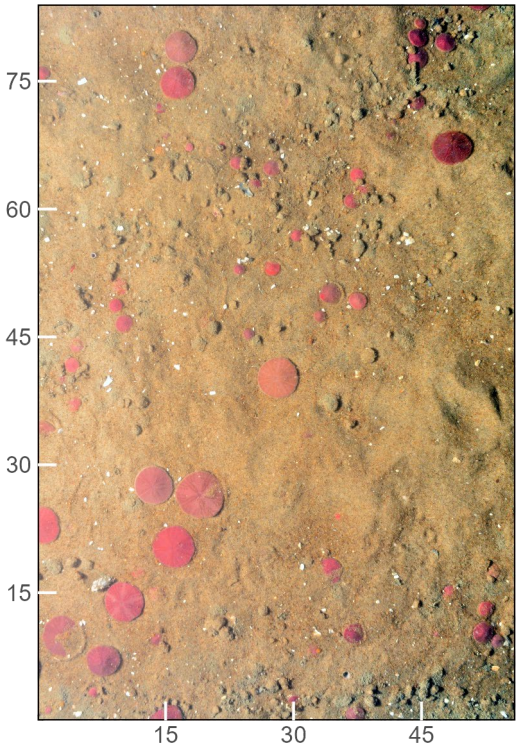
SP-460-D



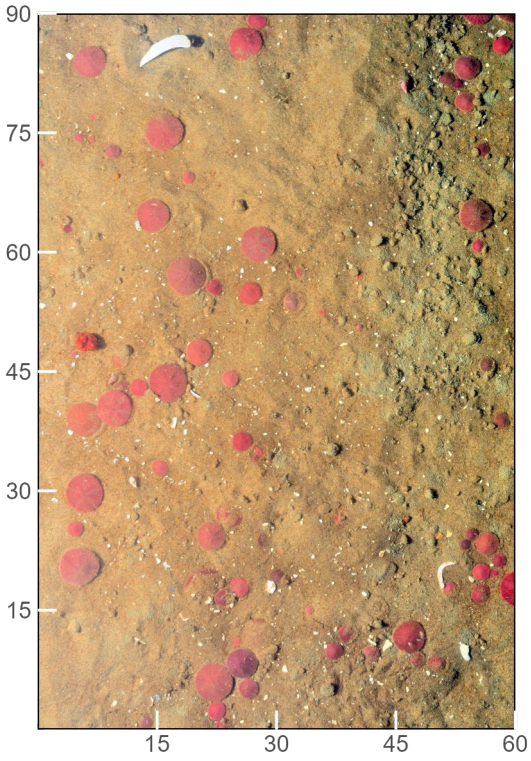
SP-460-E



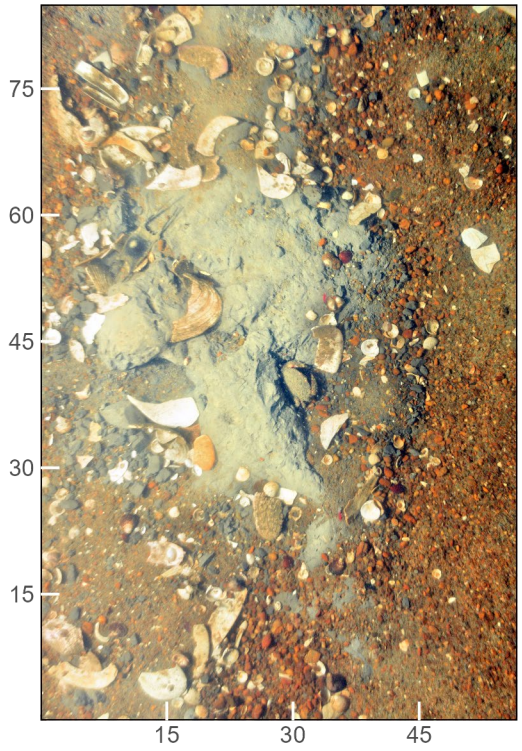
SP-465-B



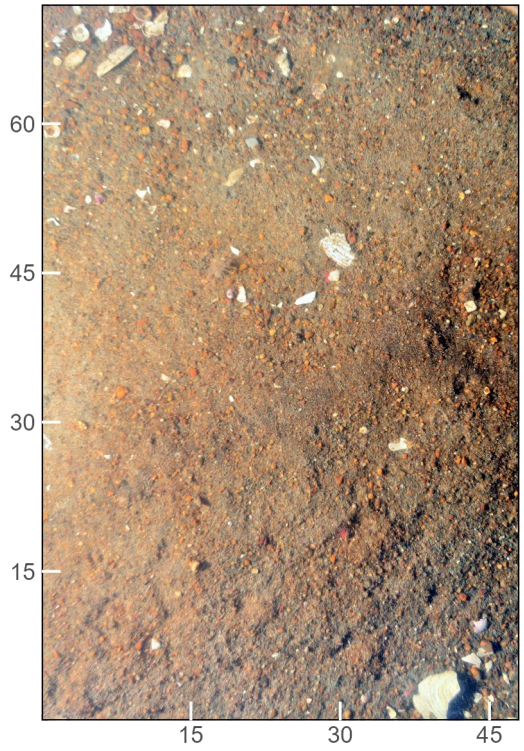
SP-465-D



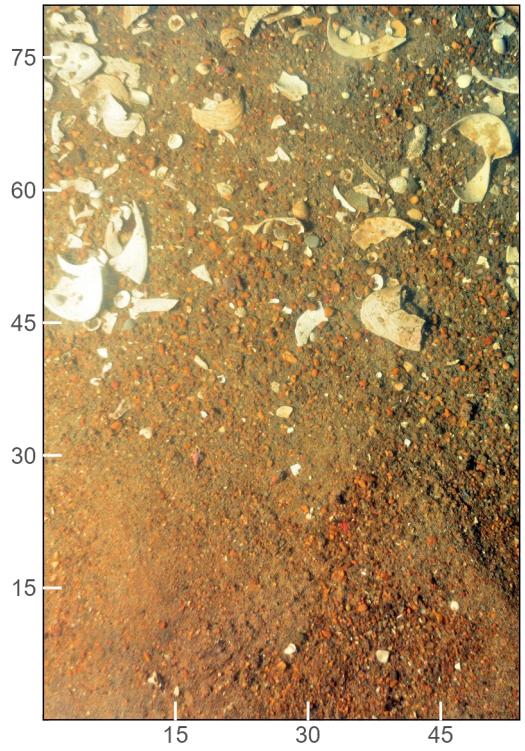
SP-465-E



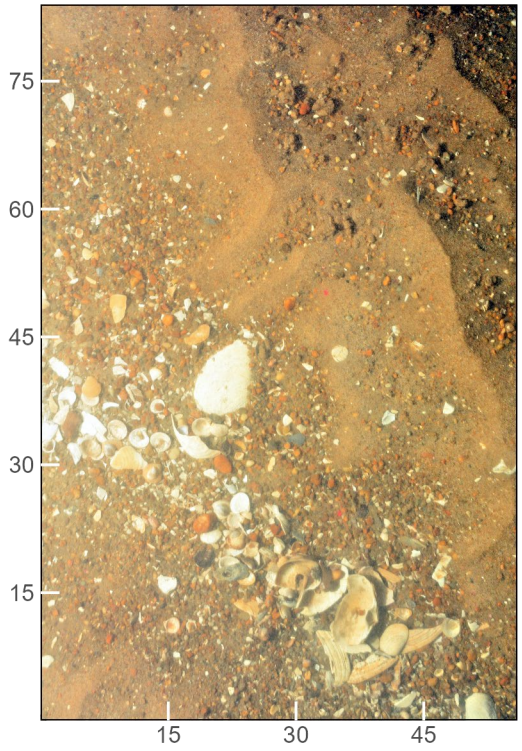
SP-468-A



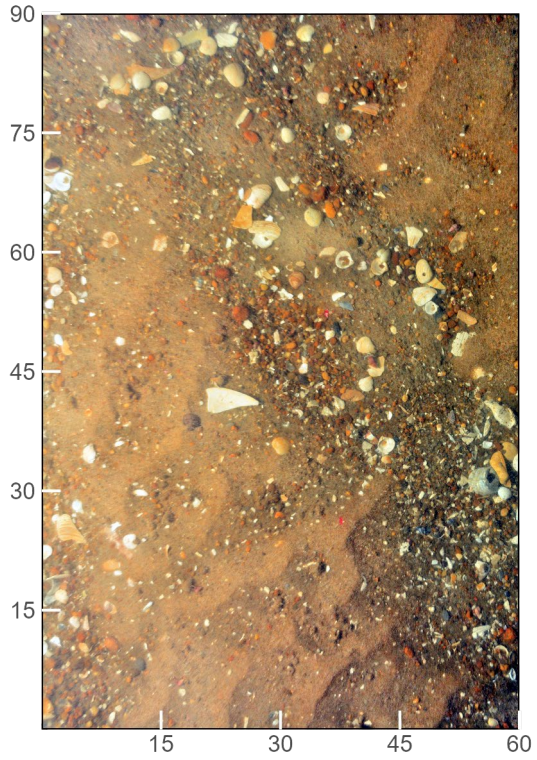
SP-468-C



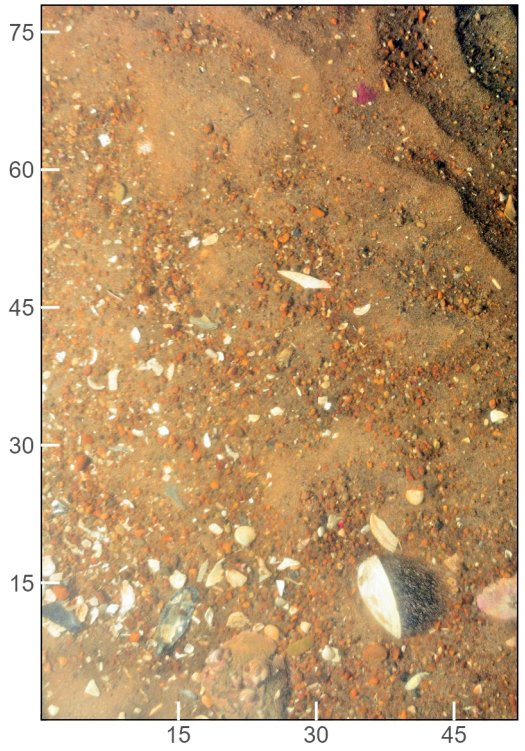
SP-468-D



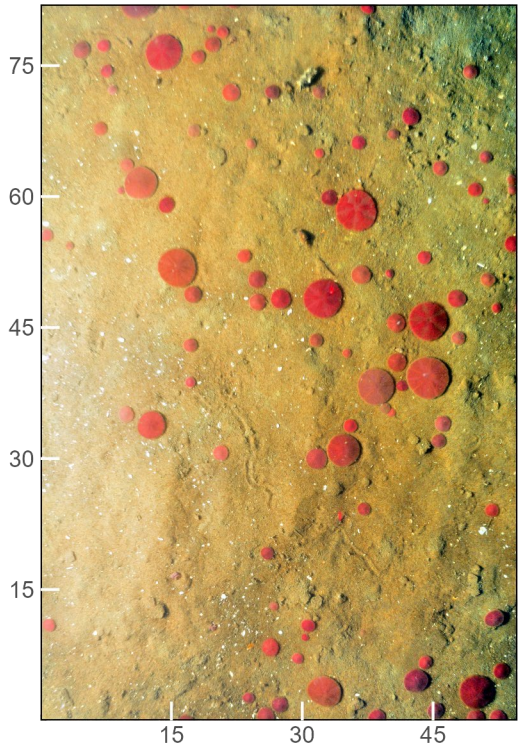
SP-471-A



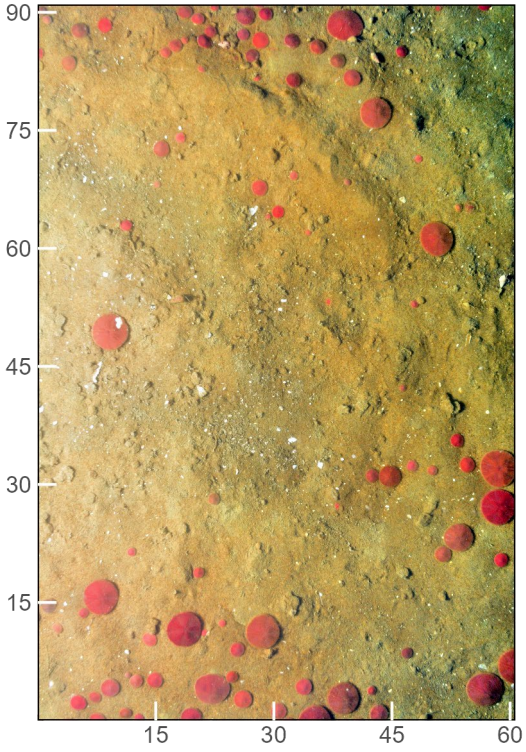
SP-471-B



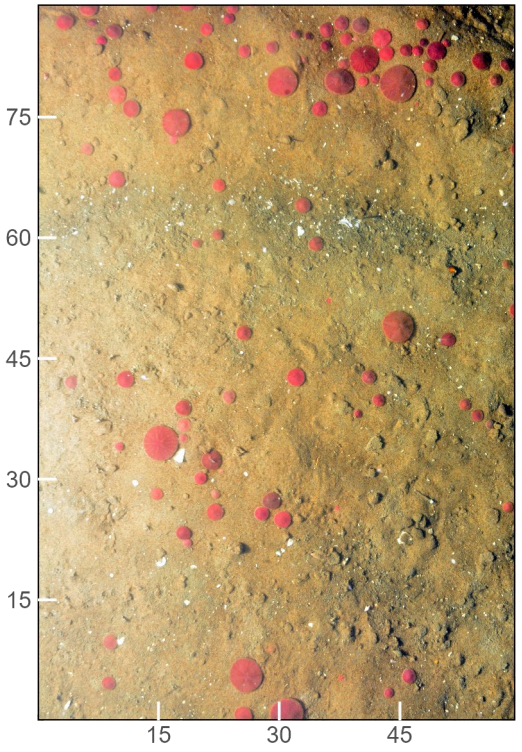
SP-471-D



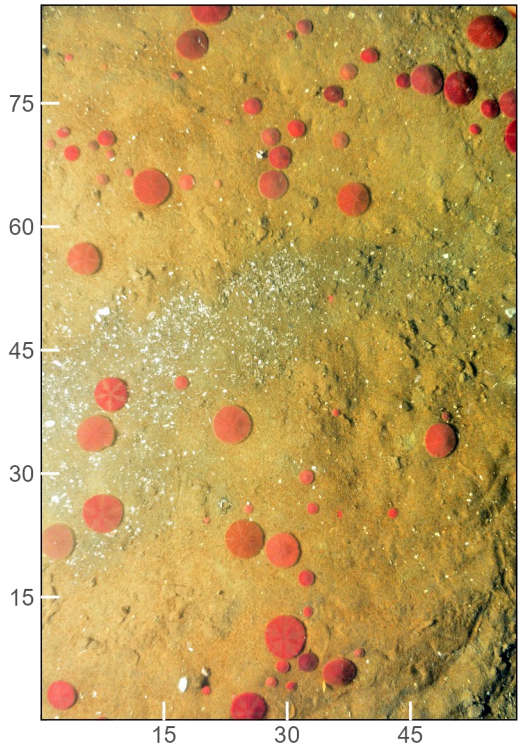
SPC-474-A



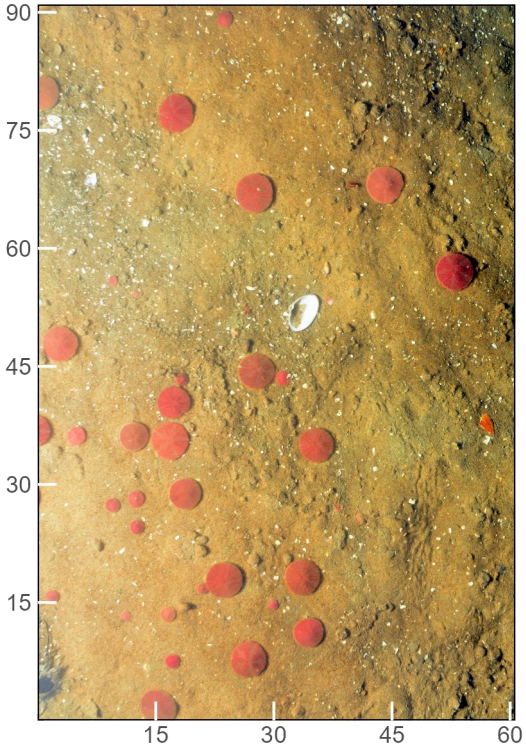
SPC-474-B



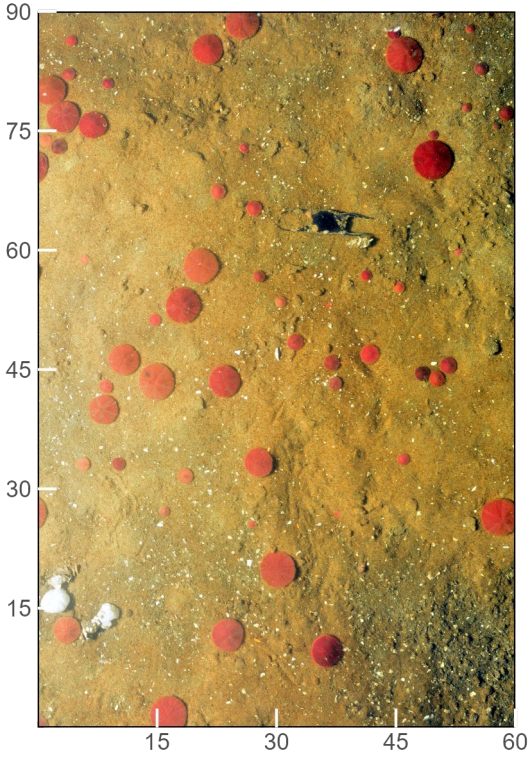
SPC-474-C



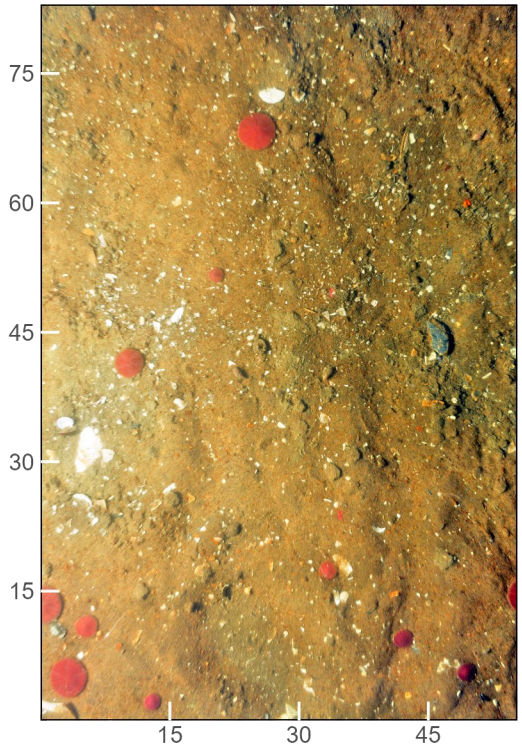
SPC-475-A



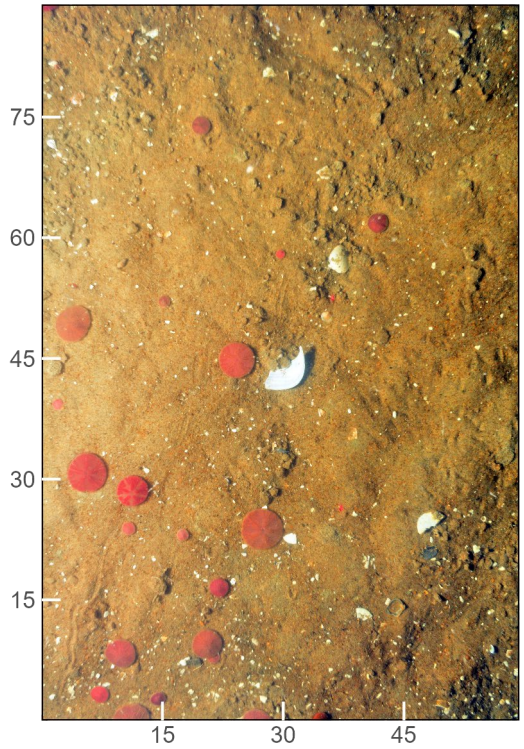
SPC-475-B



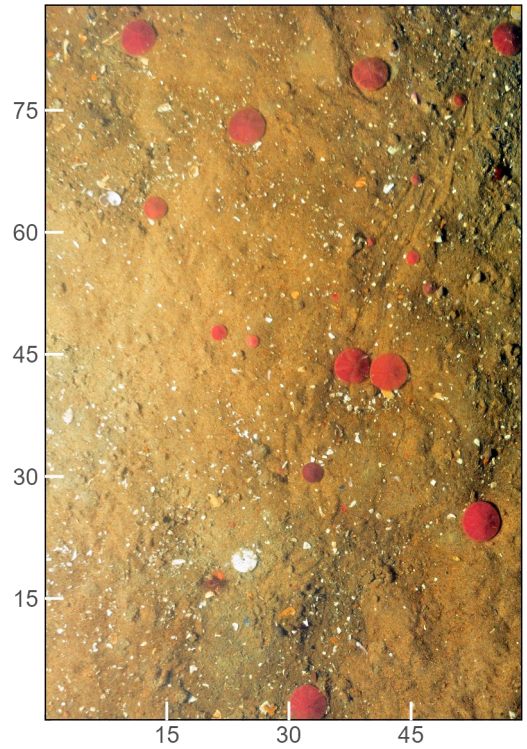
SPC-475-C



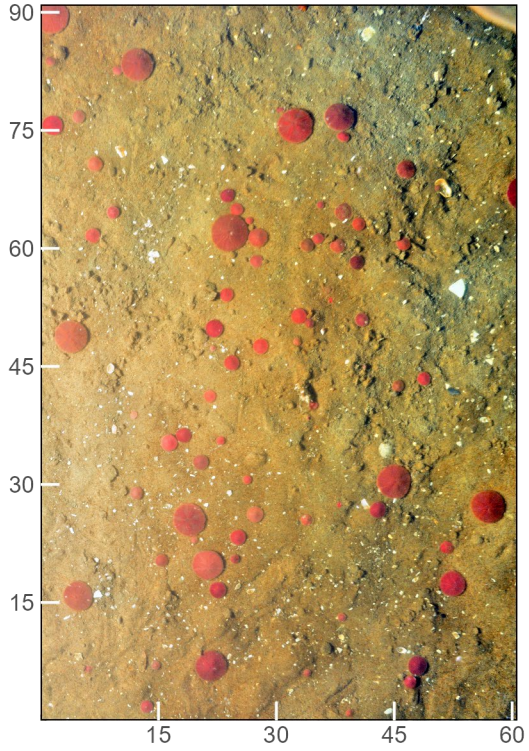
SPGC-476-B



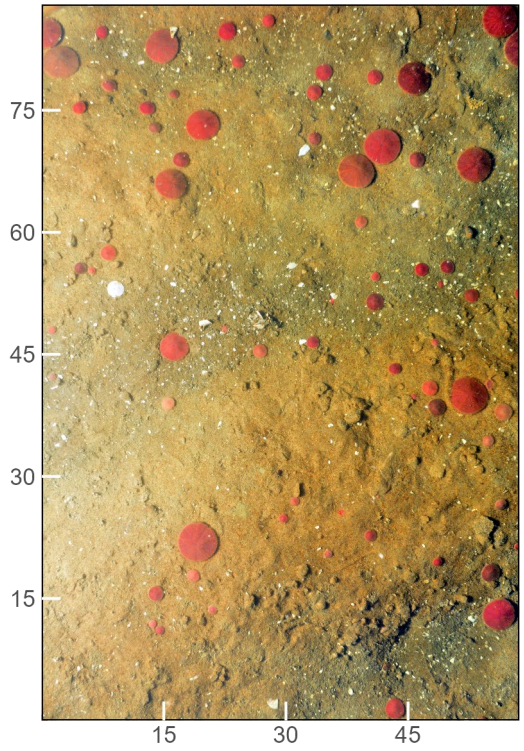
SPGC-476-C



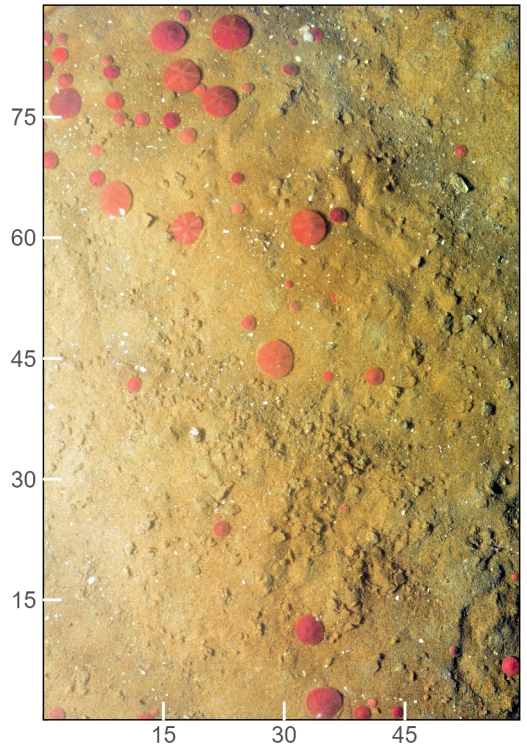
SPGC-476-D



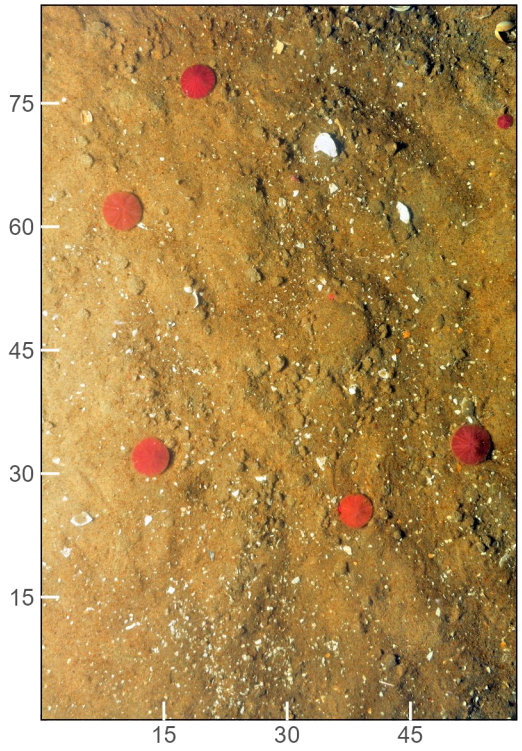
SPC-477-A



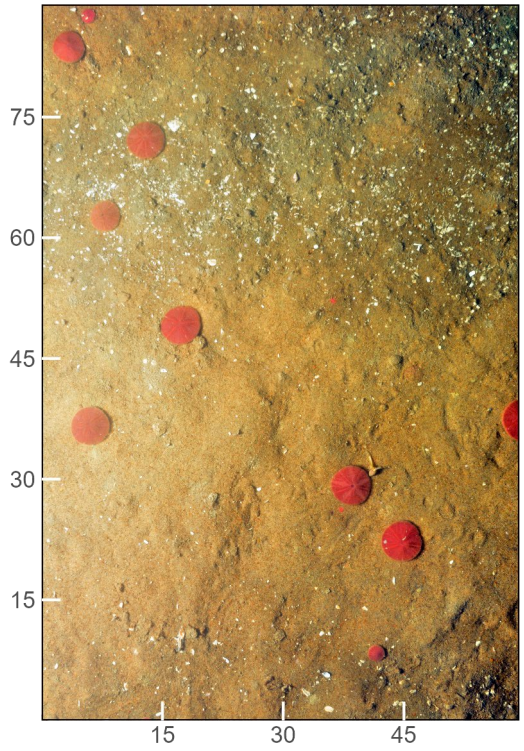
SPC-477-B



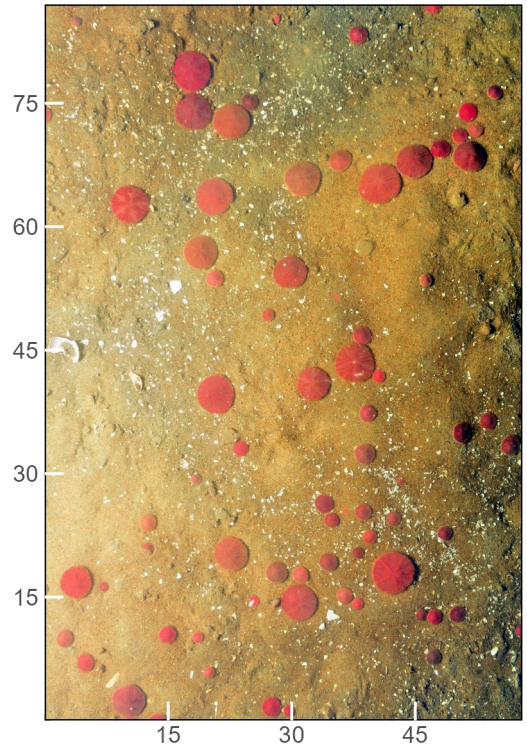
SPC-477-C



SPC-478-A



SPC-478-C

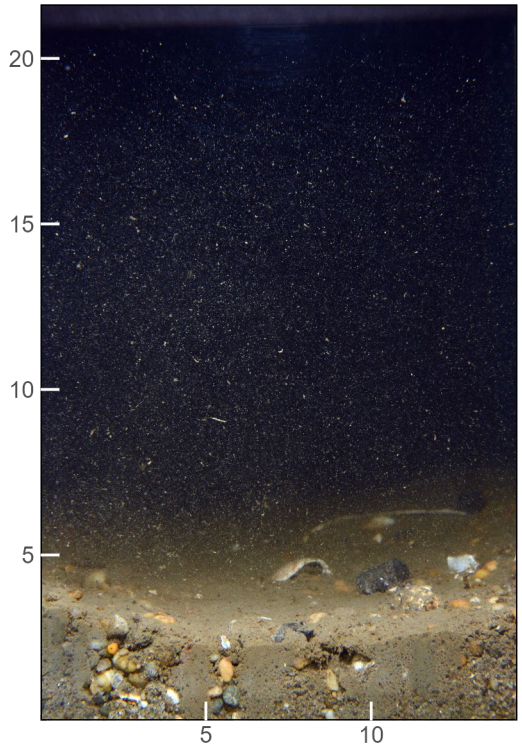


SPC-478-D

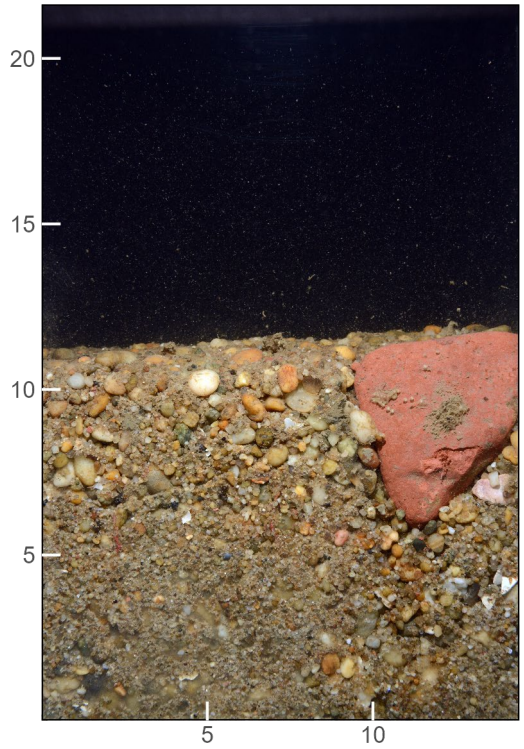
Appendix B3

Sediment Profile Images—NECCT and NECCNJ

Scale: Width of SPI Images = 14.4 cm



NECCT-SP-346-B



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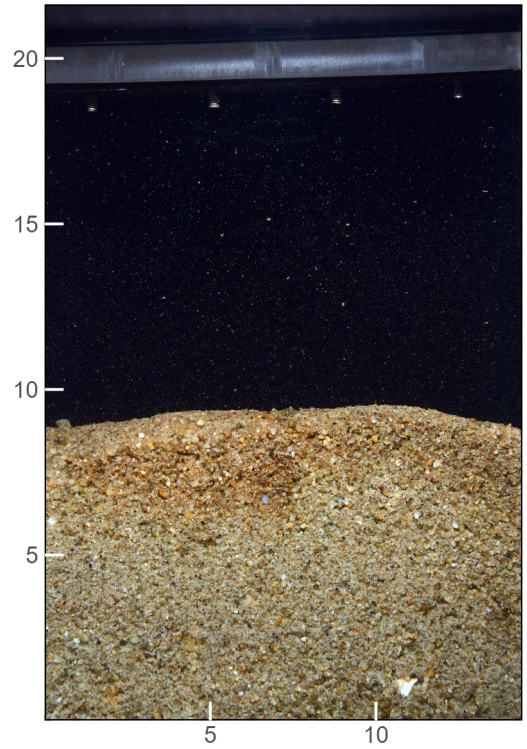
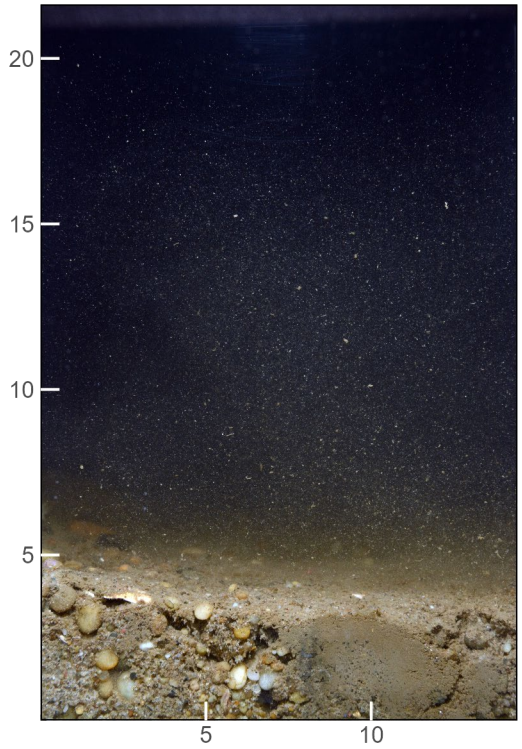
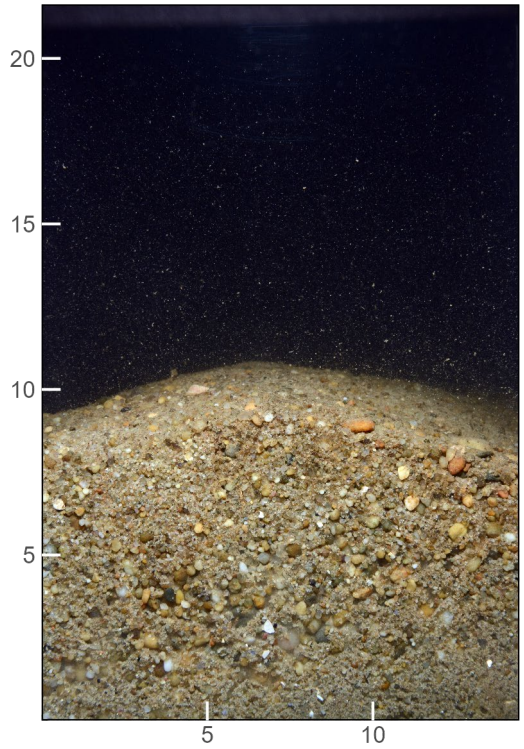


NECCT-SP-346-D



NECCT-SP-347-A



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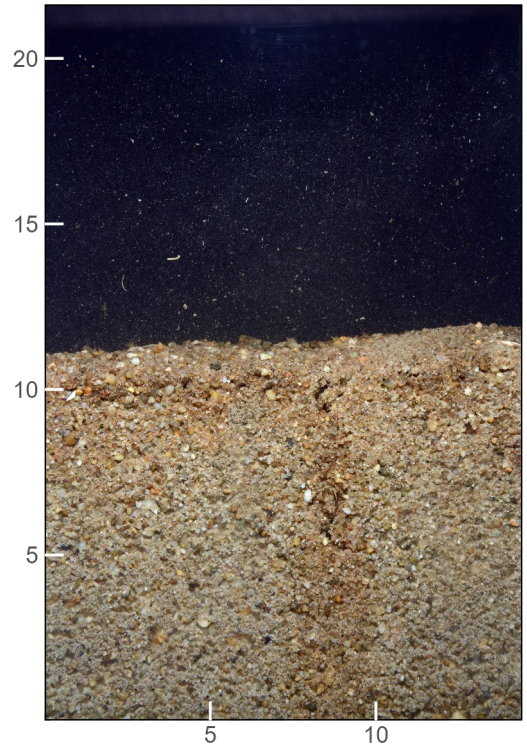

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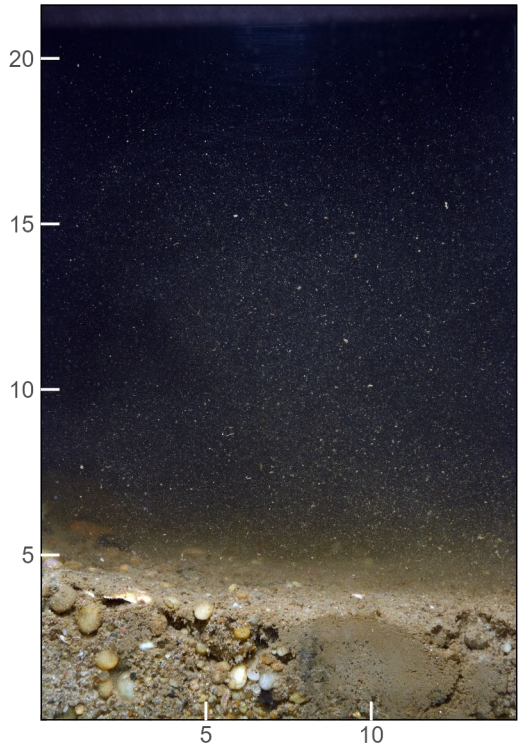

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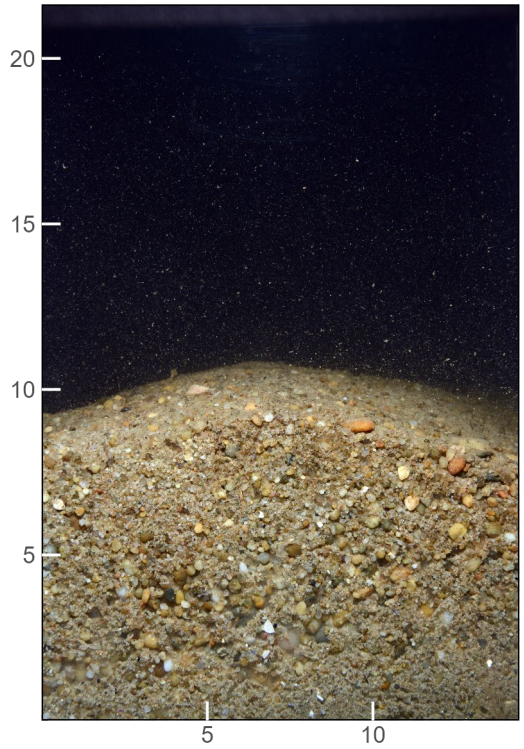

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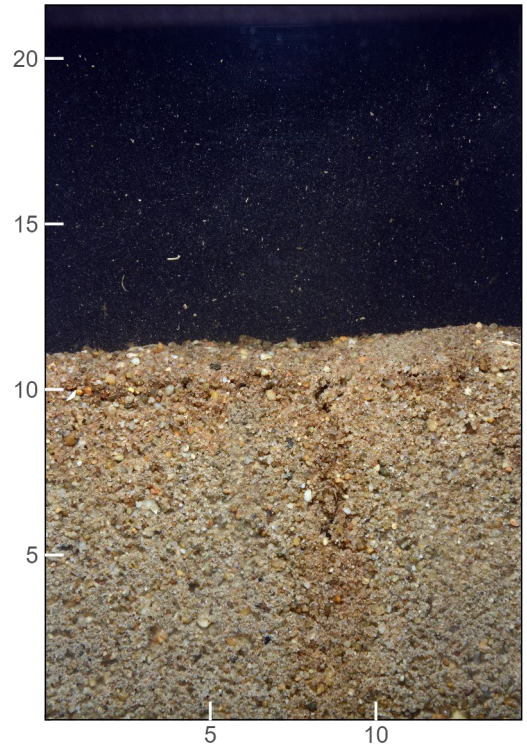
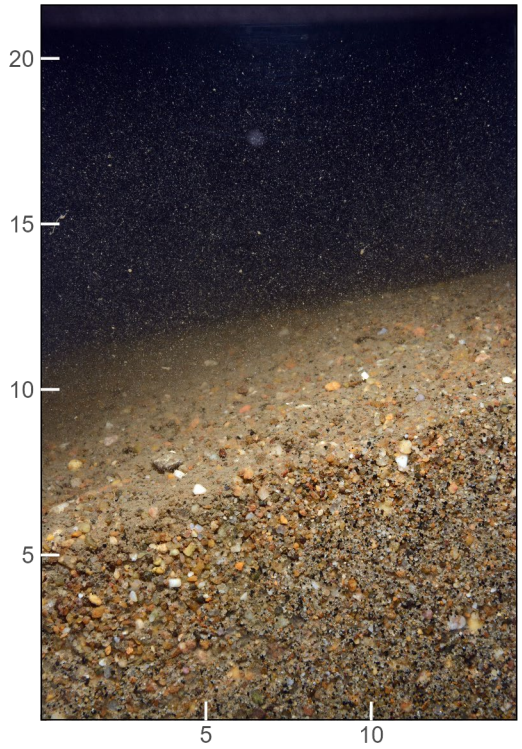


NECCT-SPG-347-J



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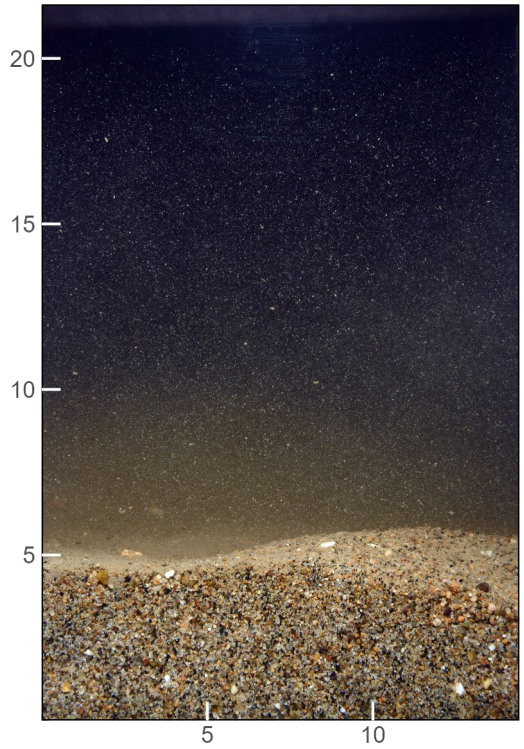
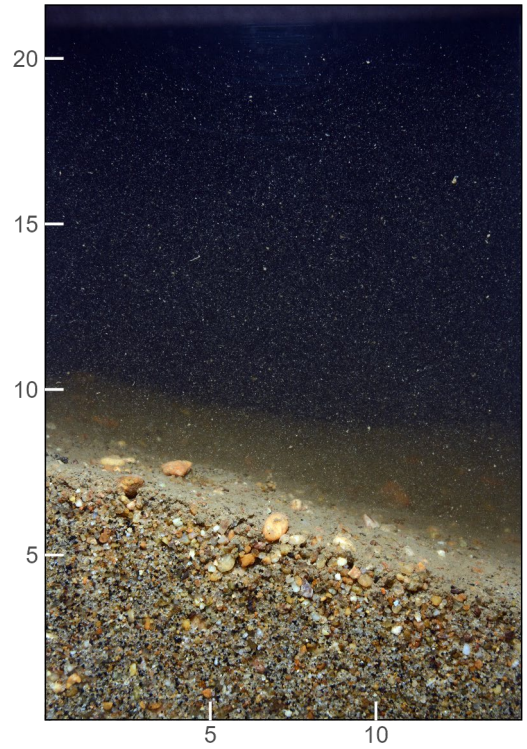


NECCT-SP-349-C



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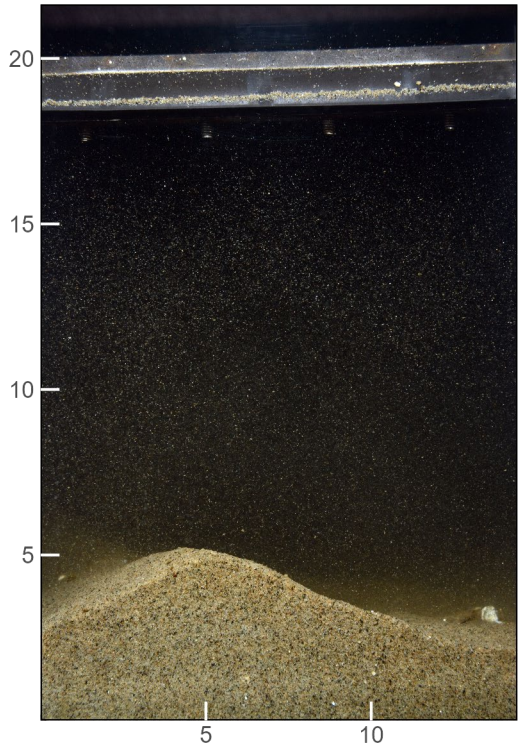

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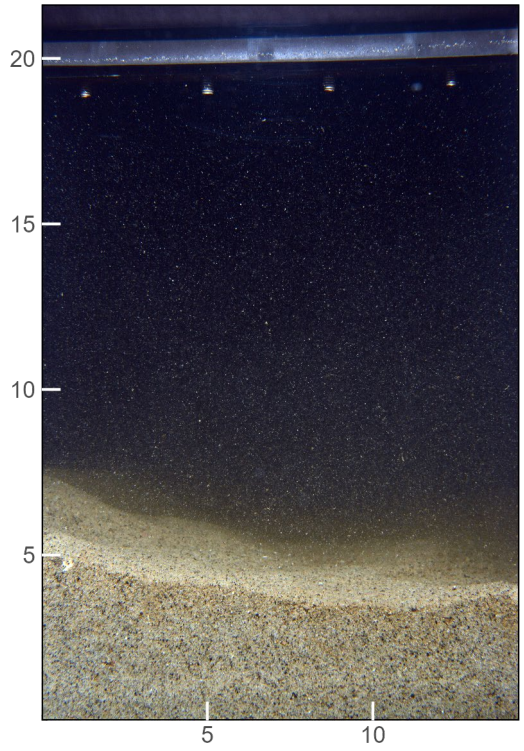
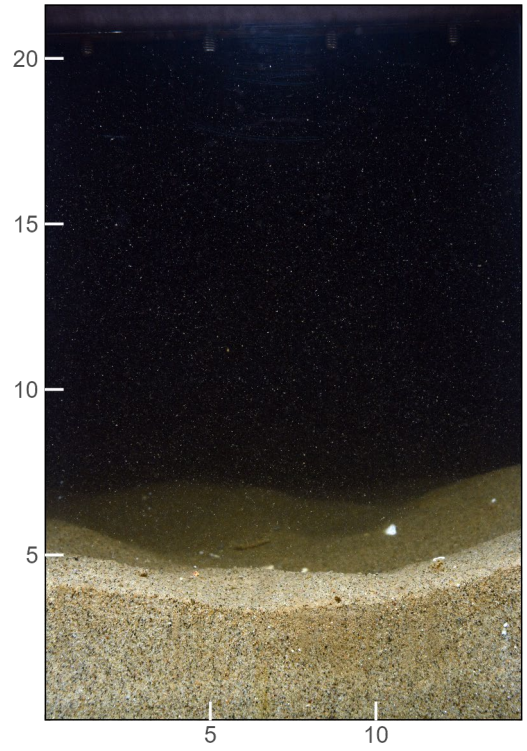


NECCT-SP-351-C



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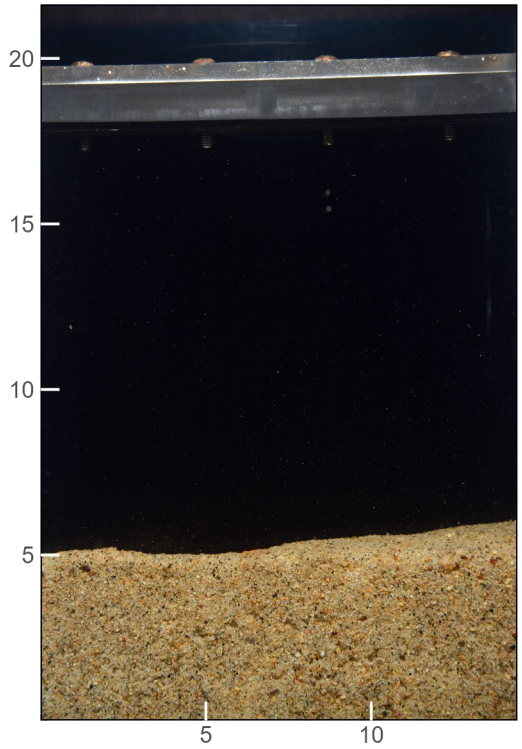

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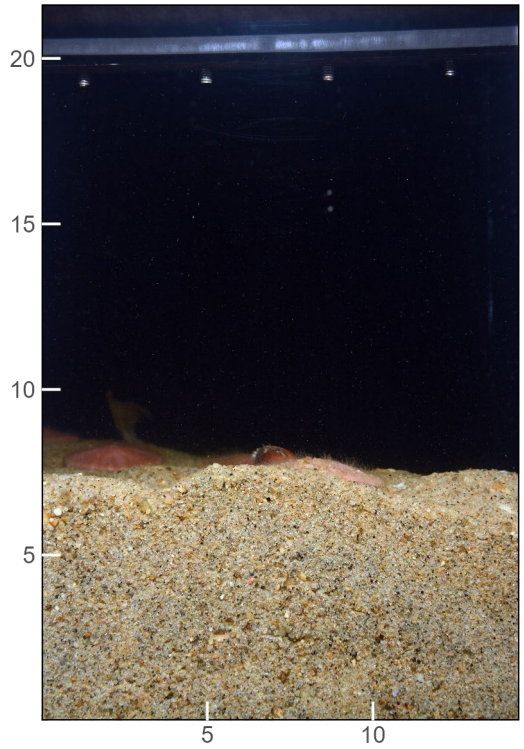

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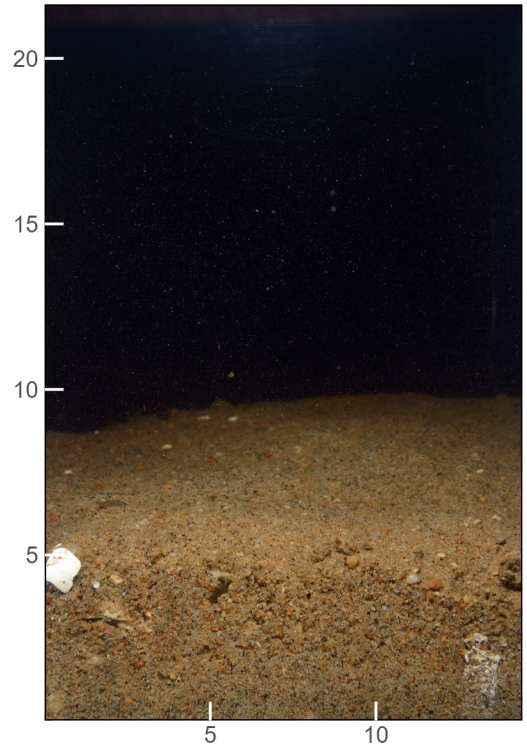

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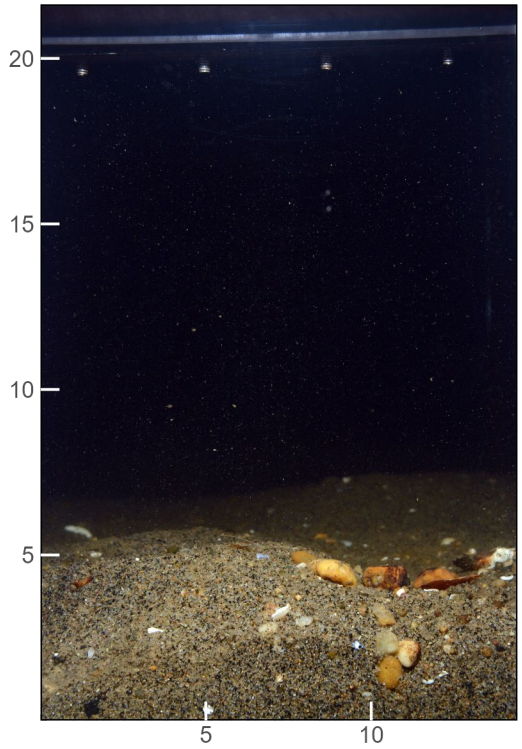

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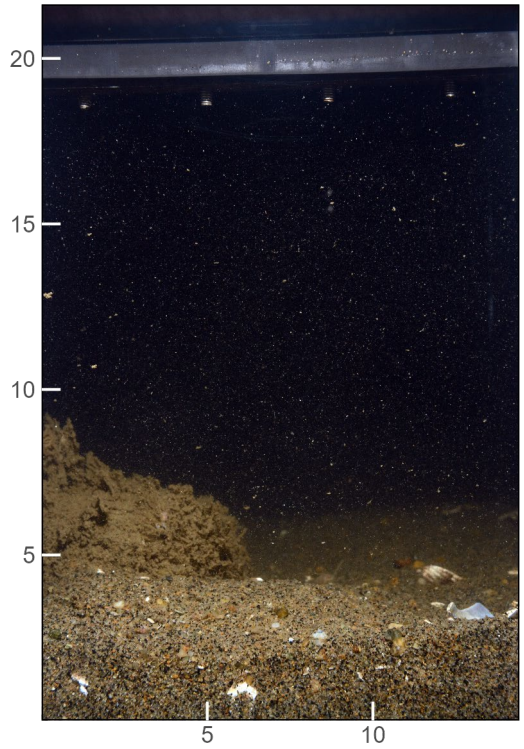

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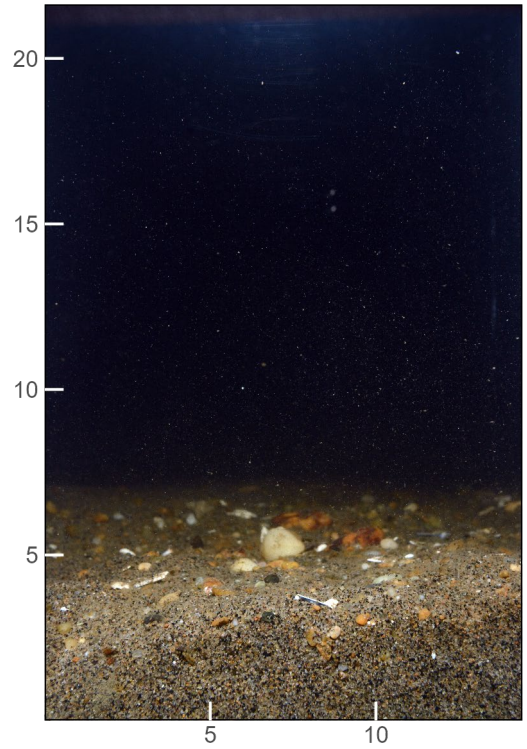

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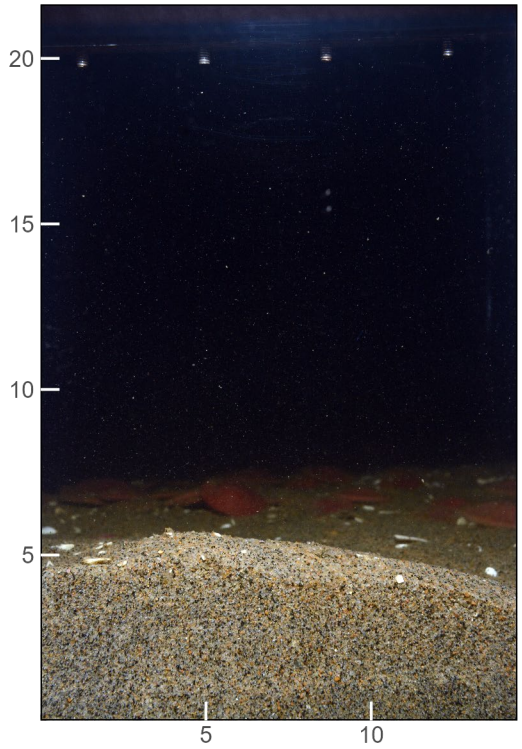

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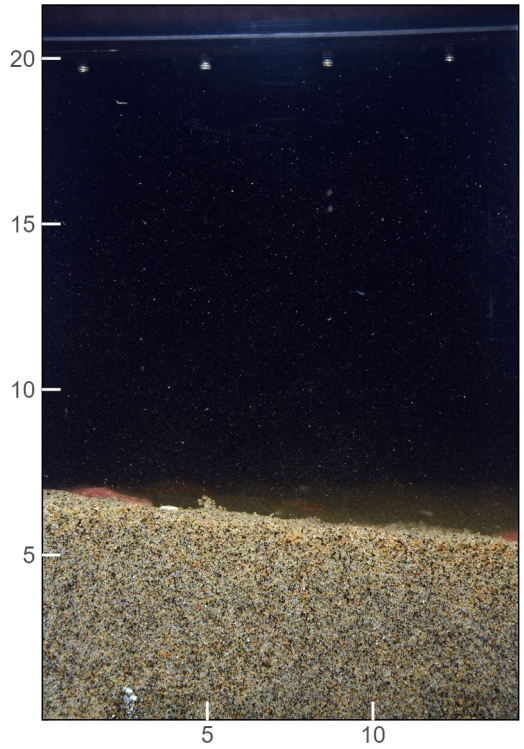

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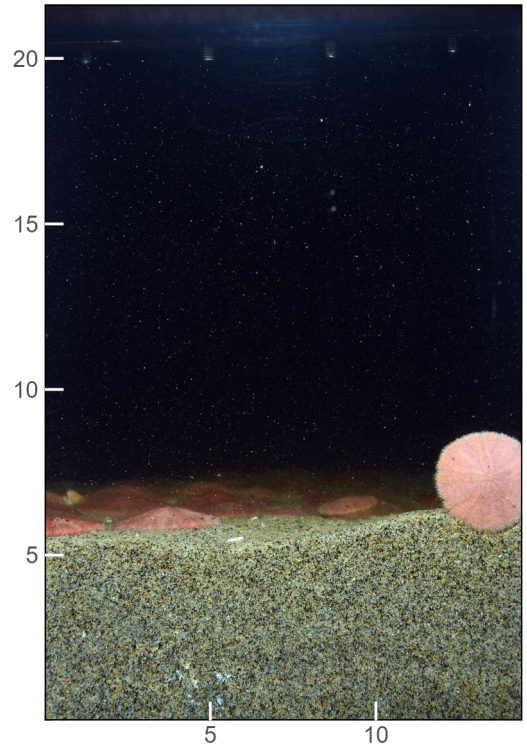

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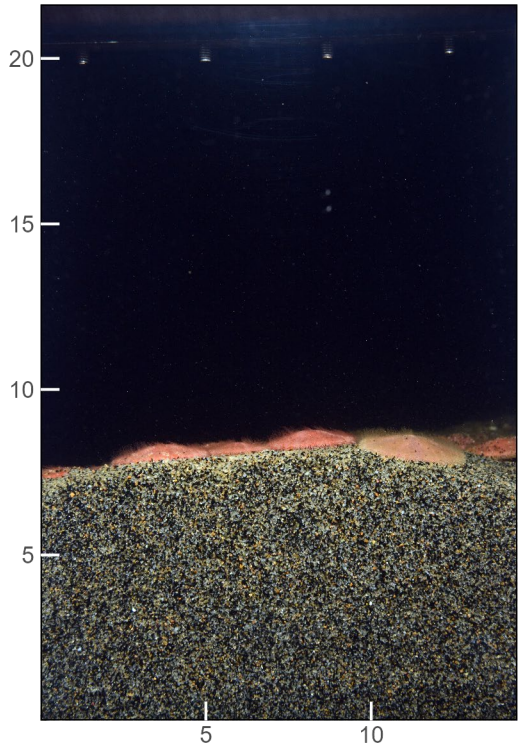

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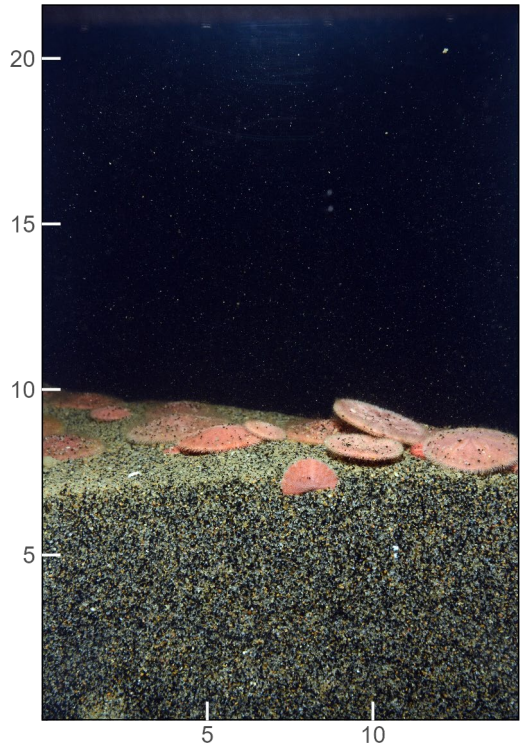

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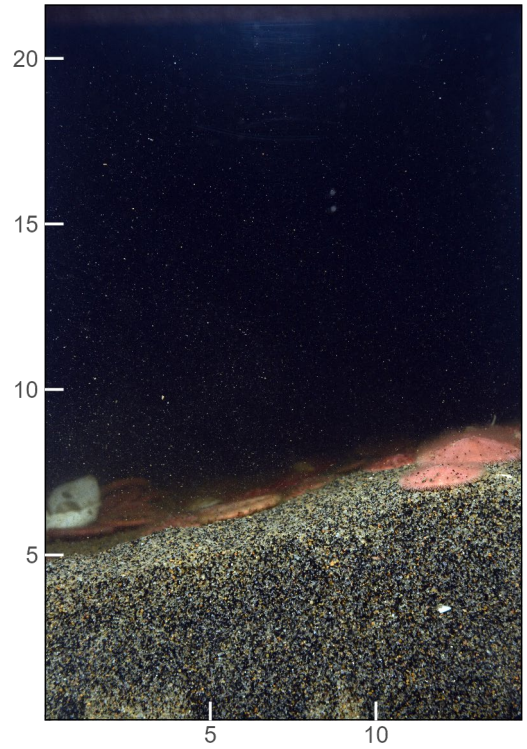

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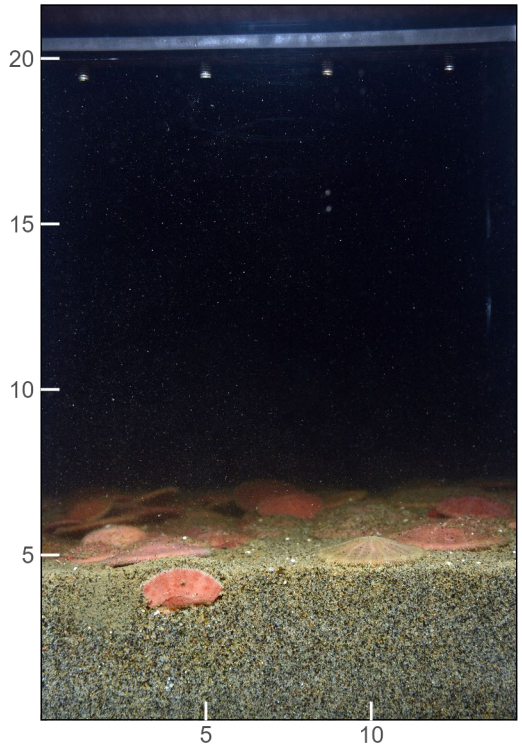

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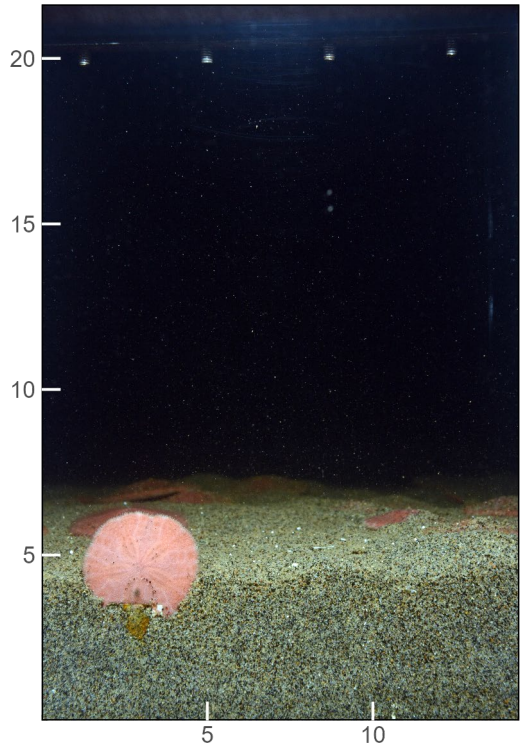

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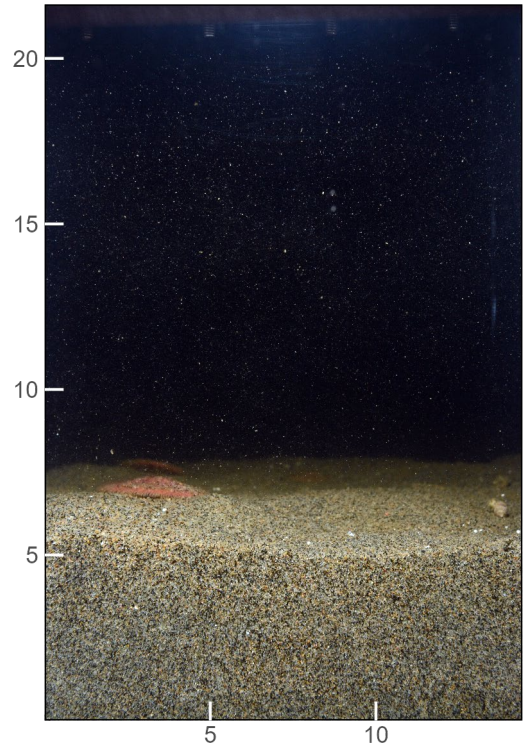

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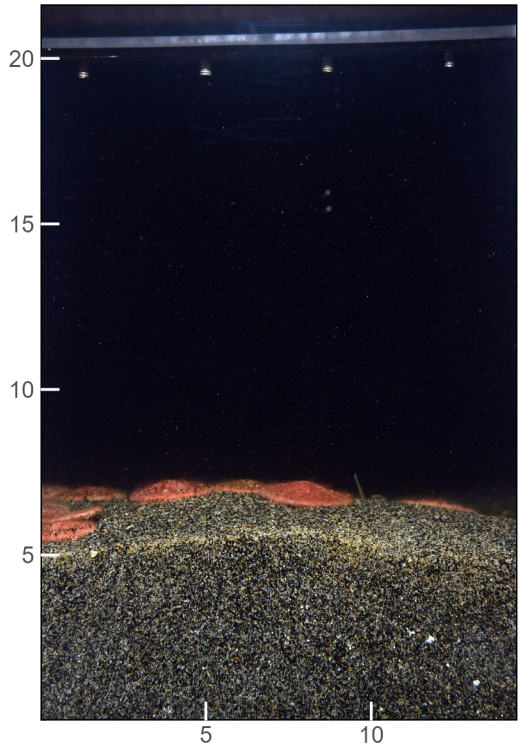

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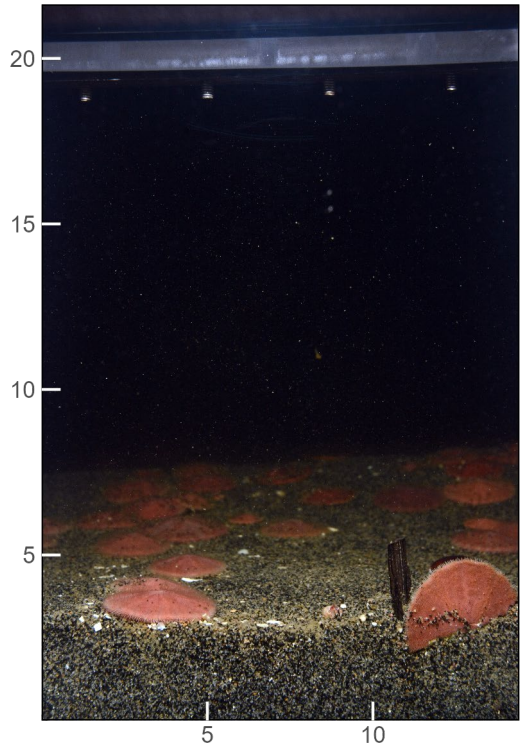

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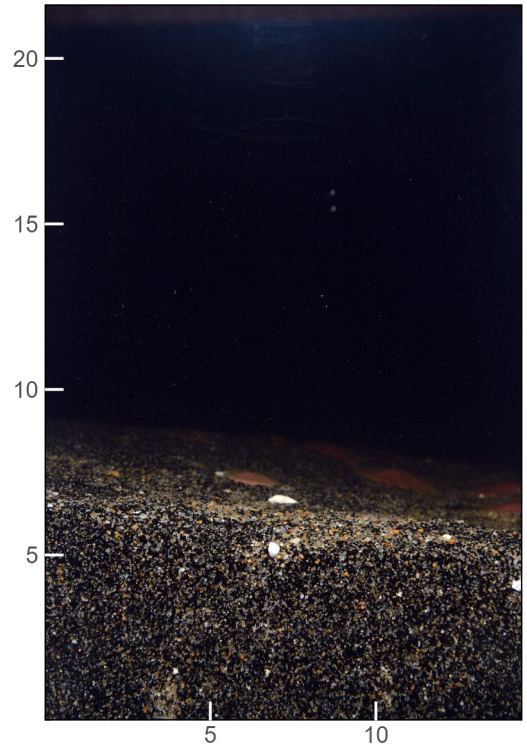

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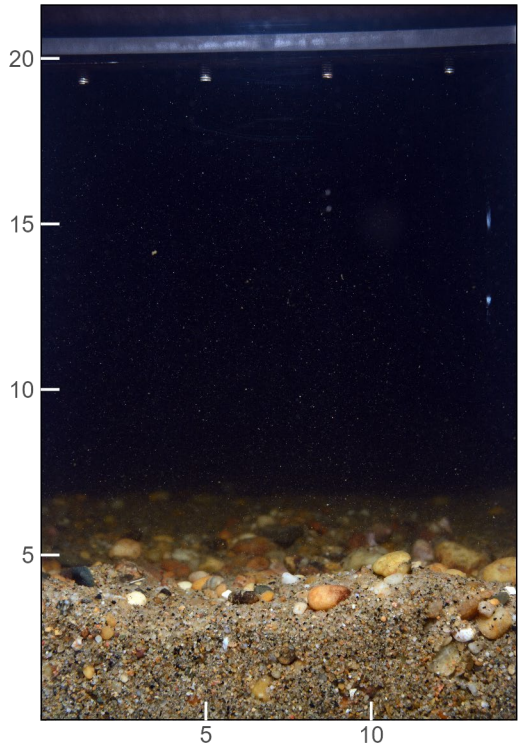
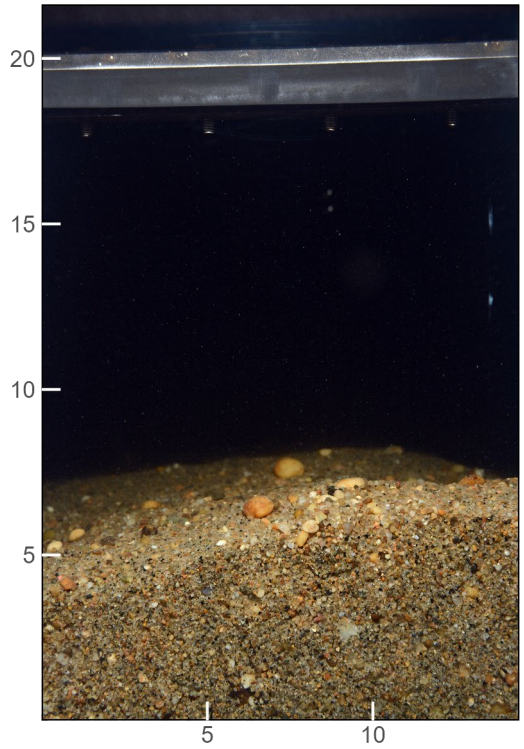


NECCNJ-SPC-362-B



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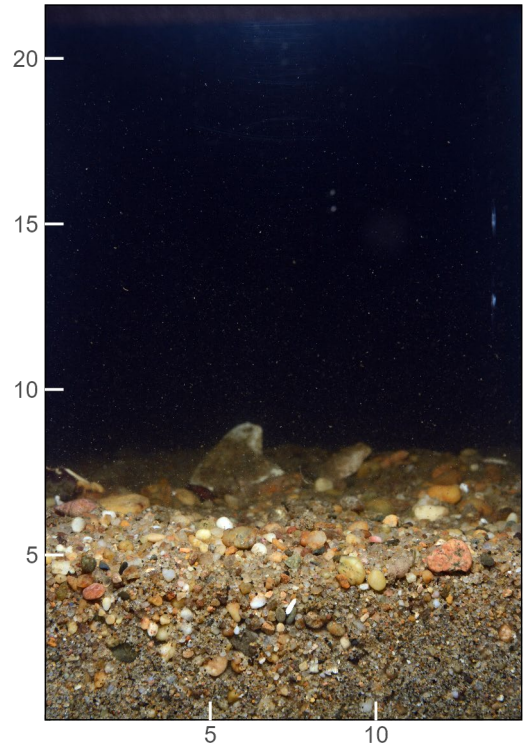

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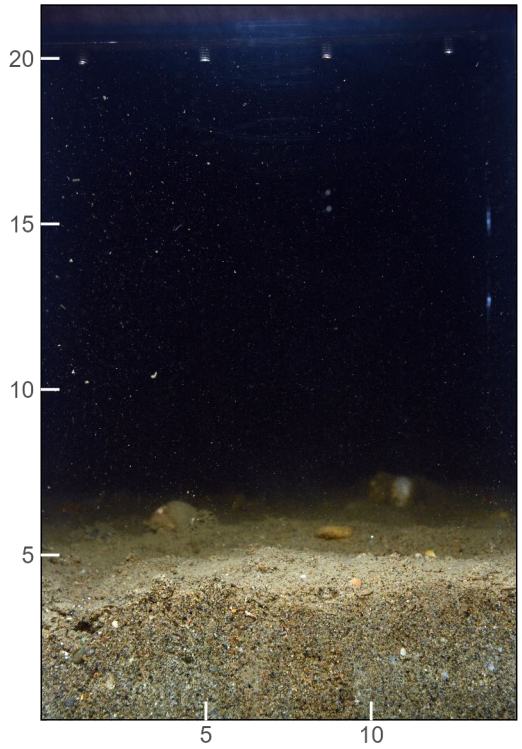

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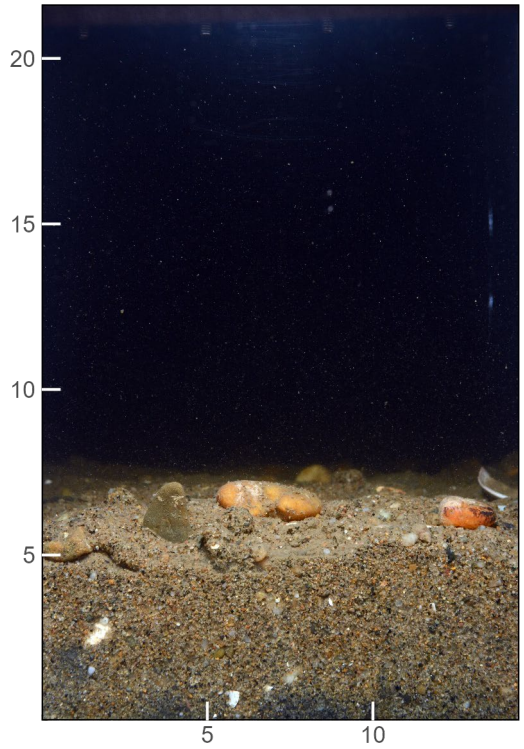

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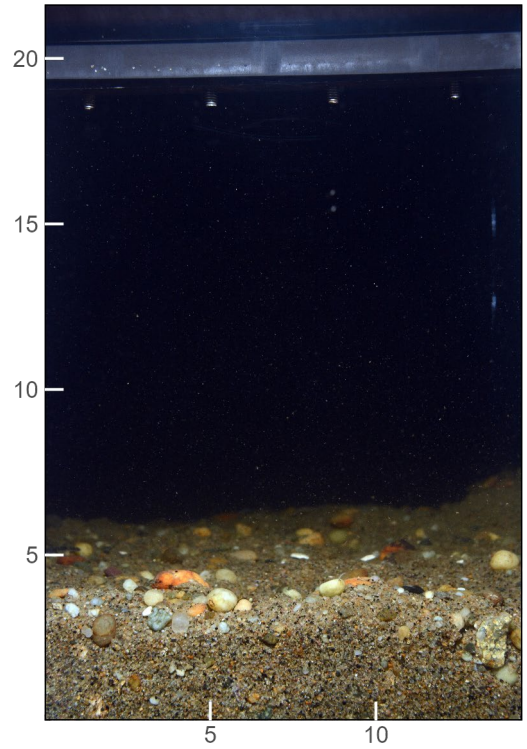

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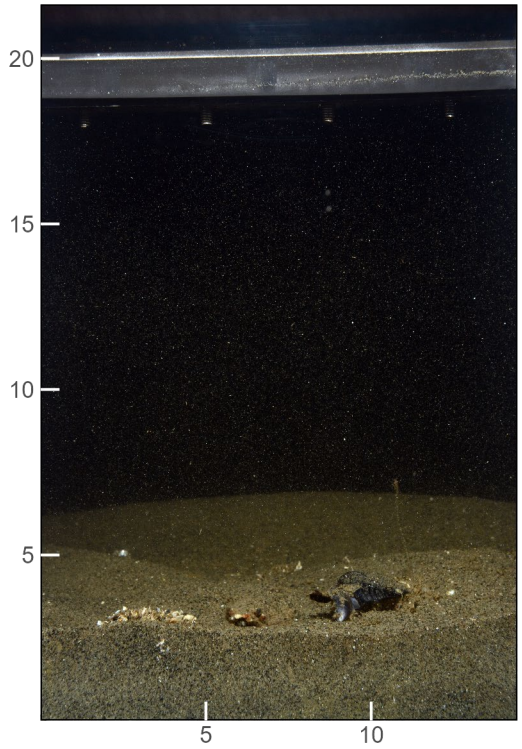
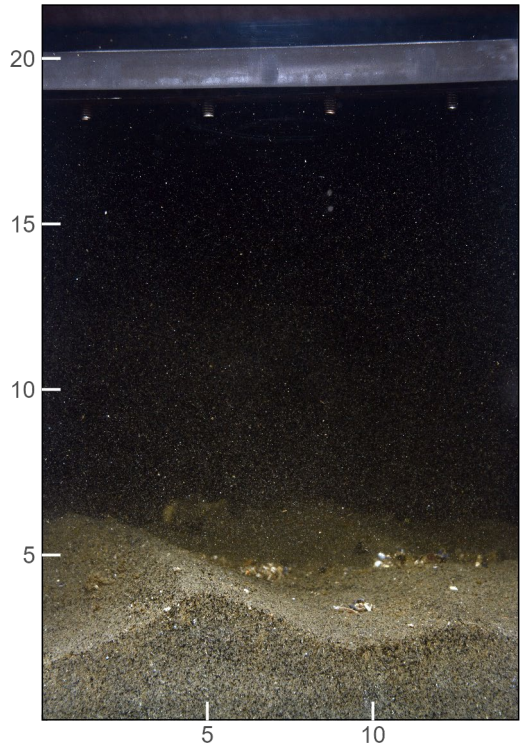


NECCNJ-SP-364-A



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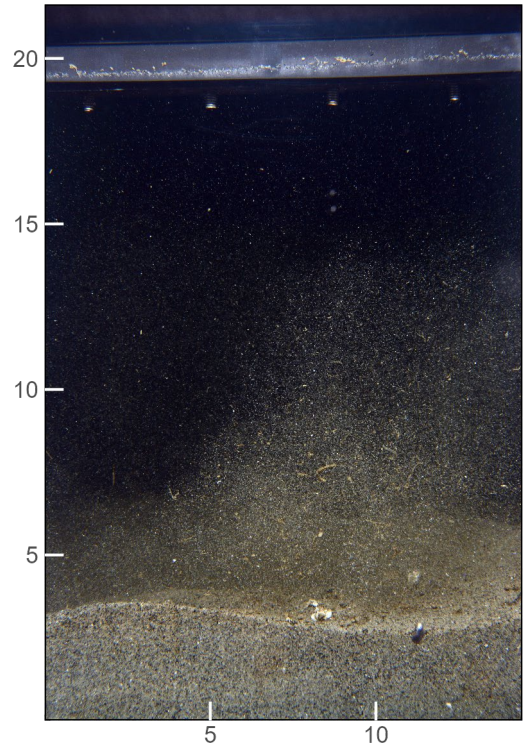

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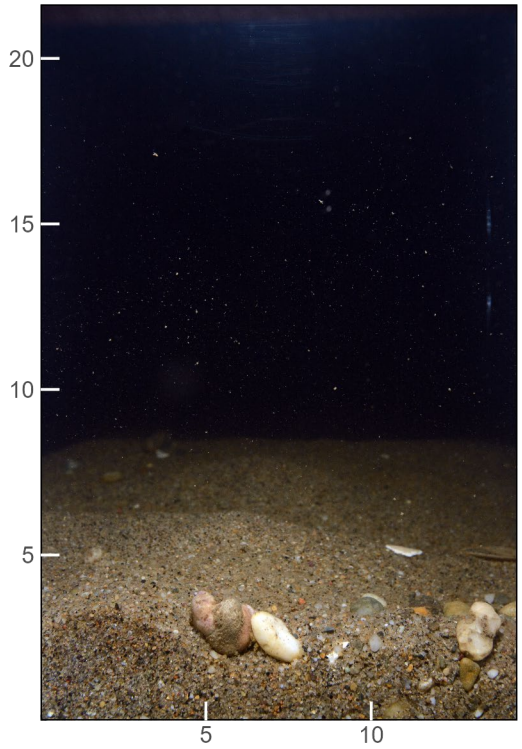

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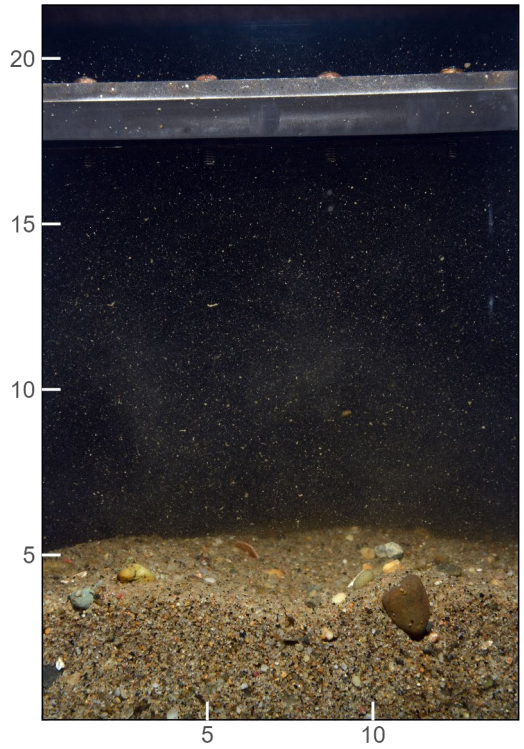

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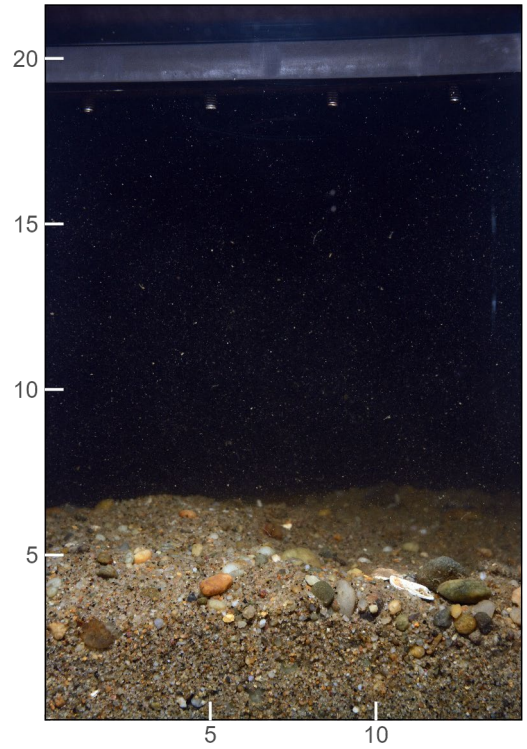
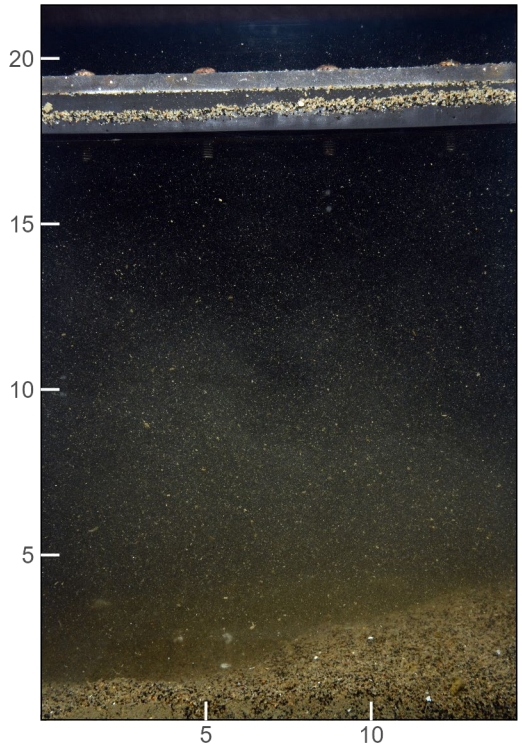
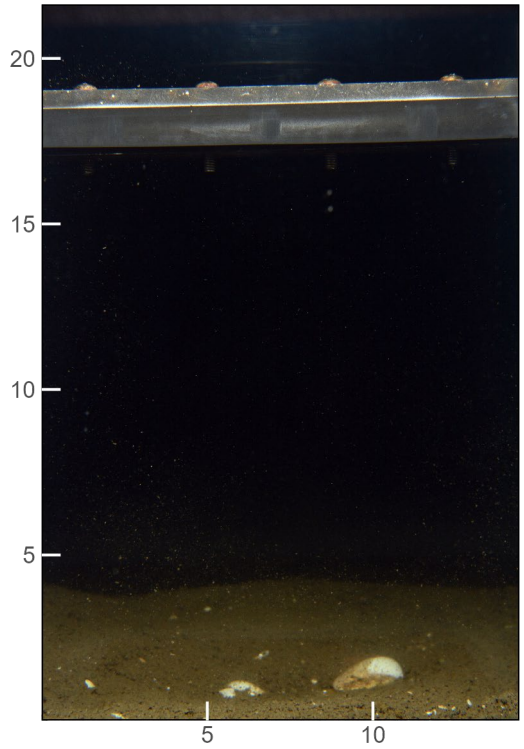


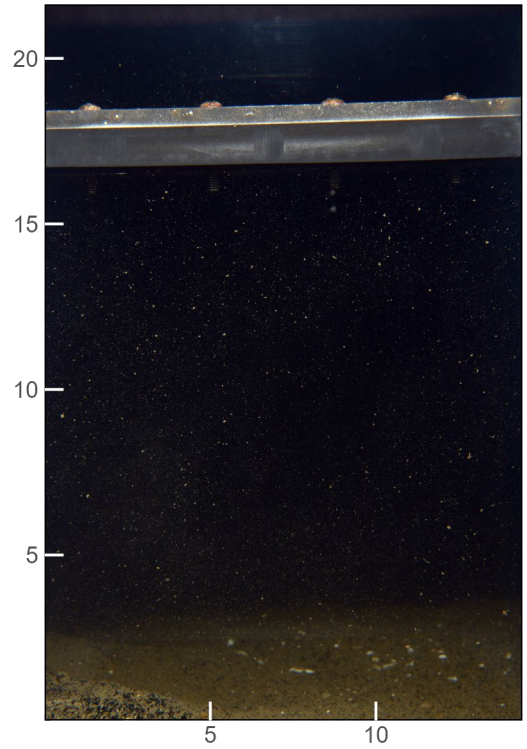
NECCNJ-SPC-365-D



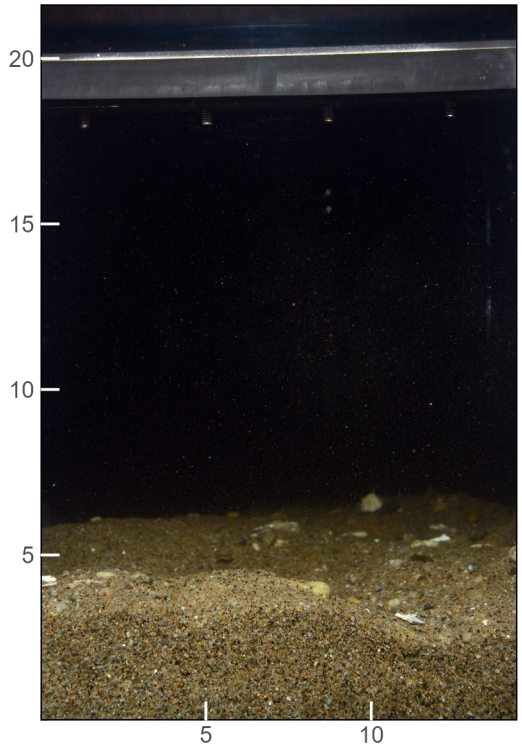
NECCNJ-SP-366-A



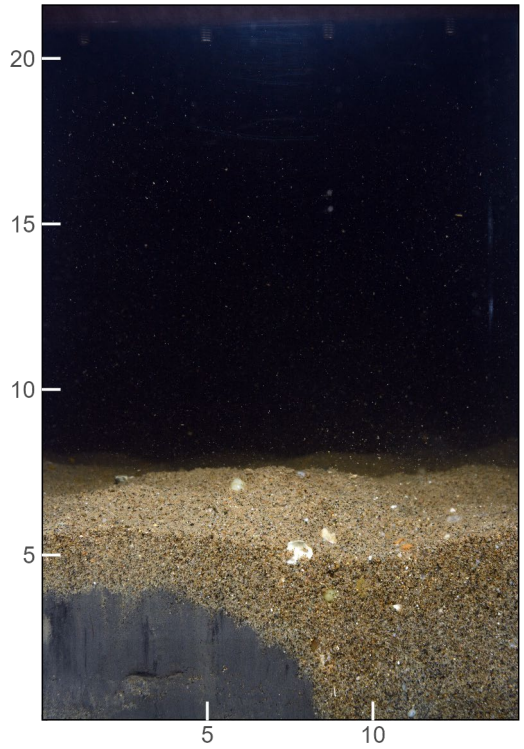
NECCNJ-SP-366-B



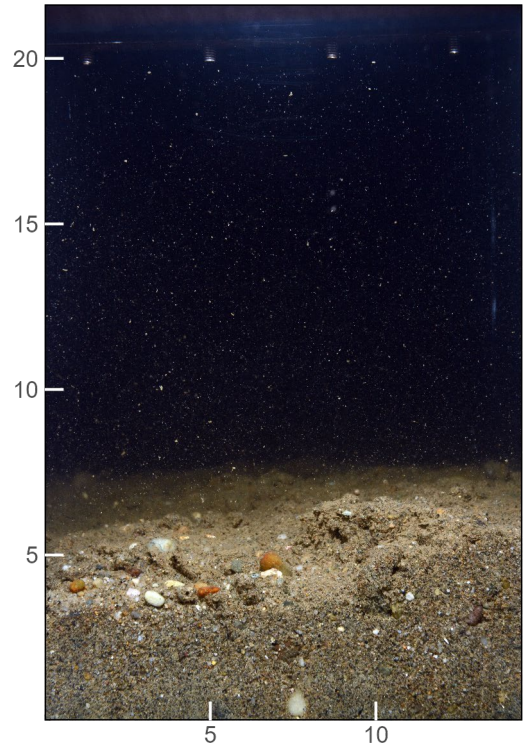
NECCNJ-SP-366-D



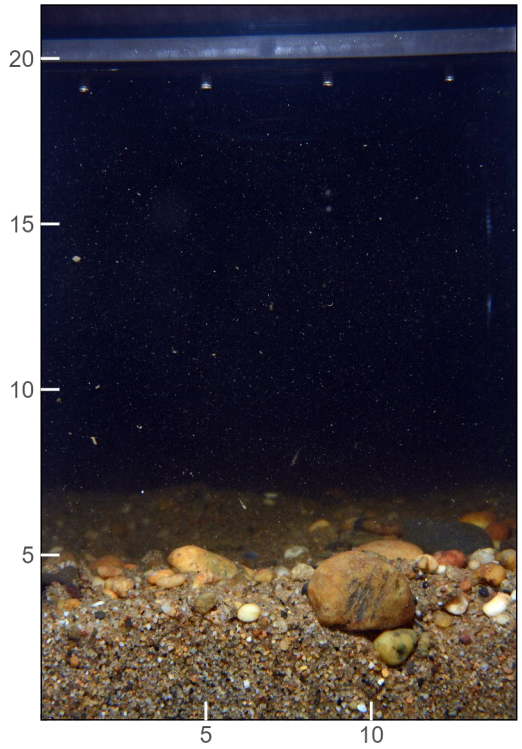
NECCNJ-SPGC-367-A



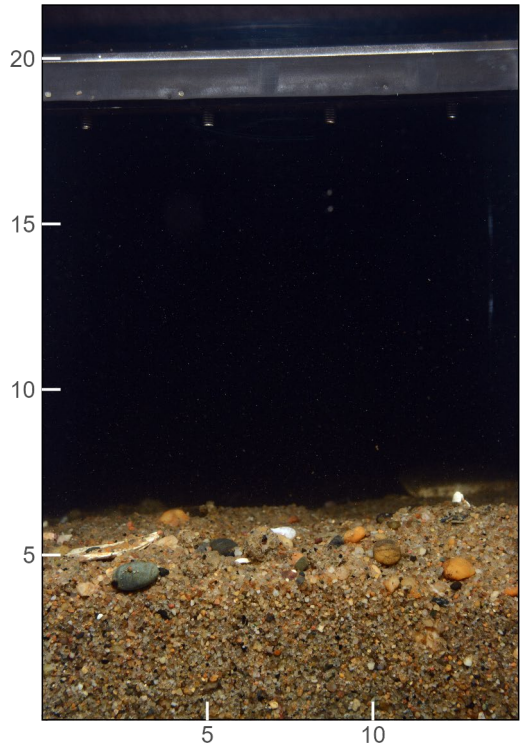
NECCNJ-SPGC-367-B



NECCNJ-SPGC-367-C



NECCNJ-SPC-368-B



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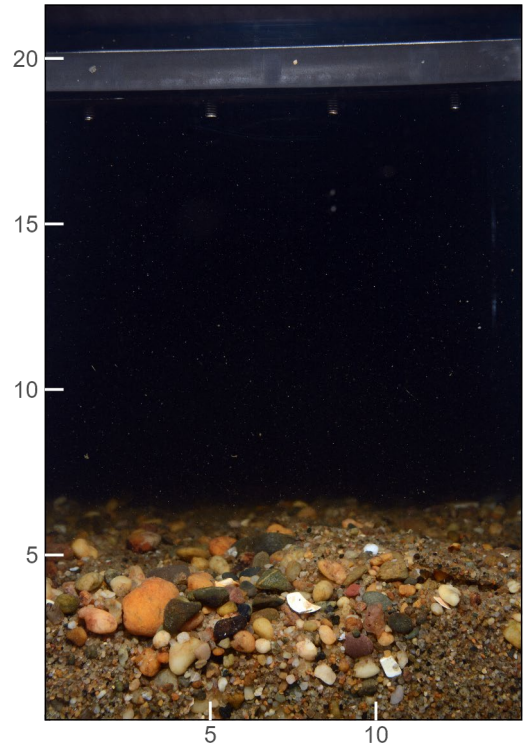
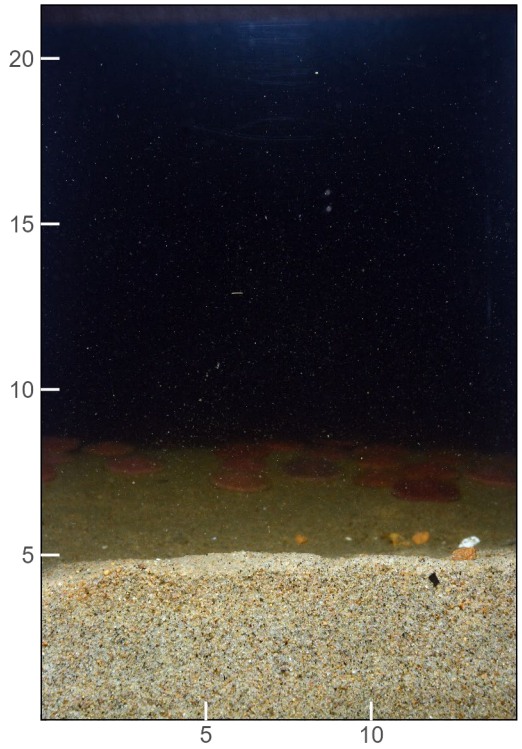
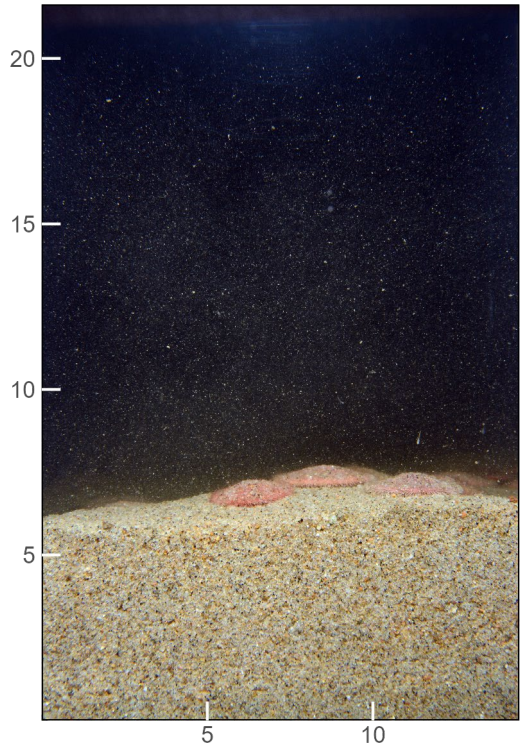


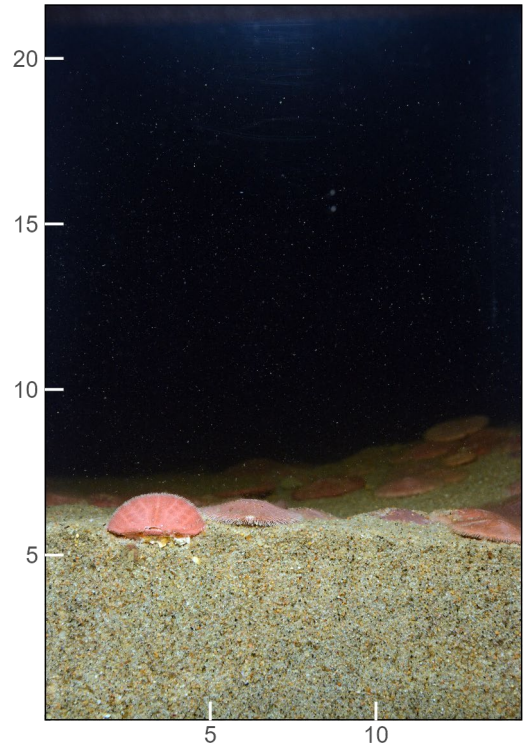
NECCNJ-SPC-368-E



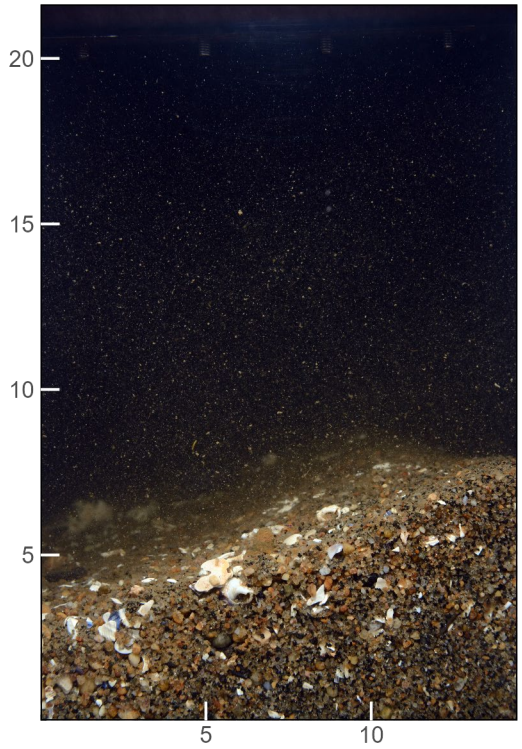
NECCT-SP-370-A



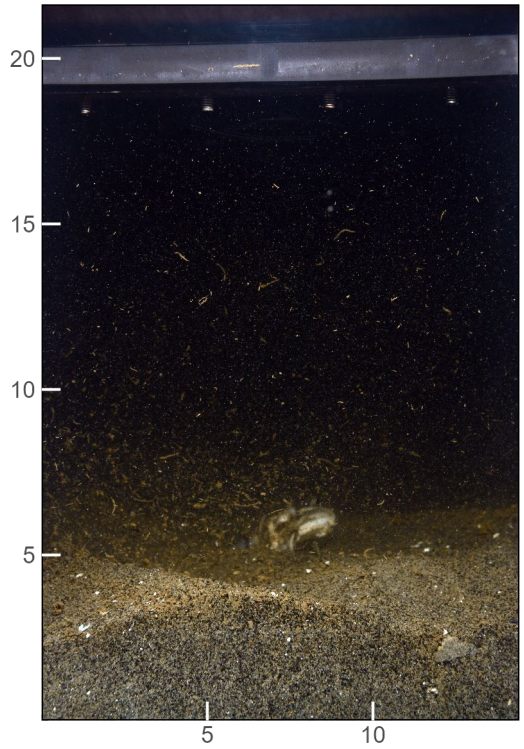
NECCT-SP-370-B



NECCT-SP-370-C



NECCNJ-SPG-371-F



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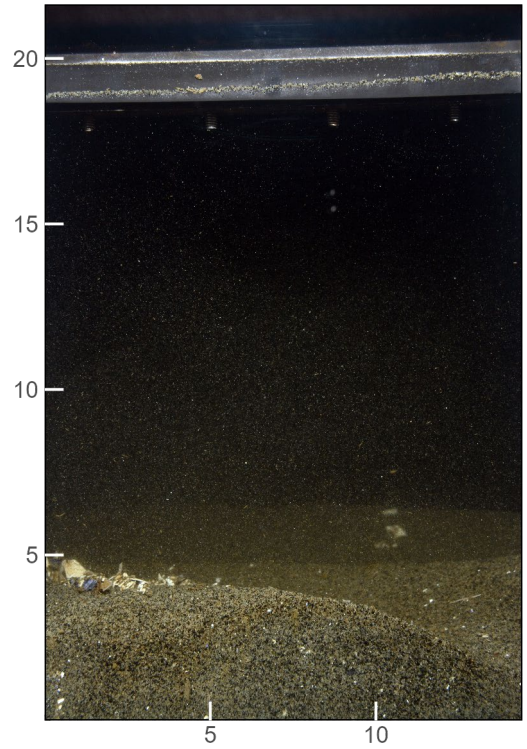

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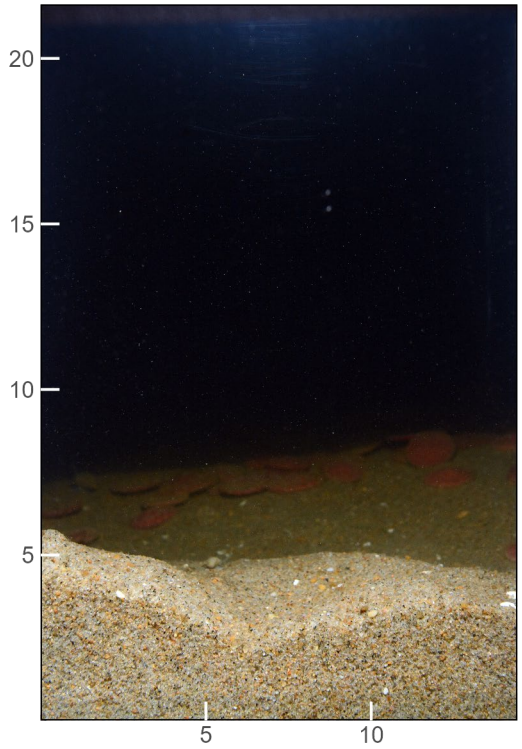
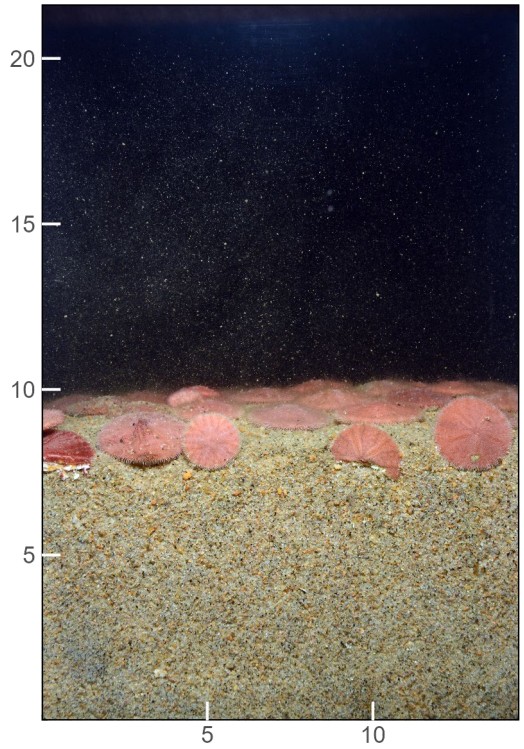
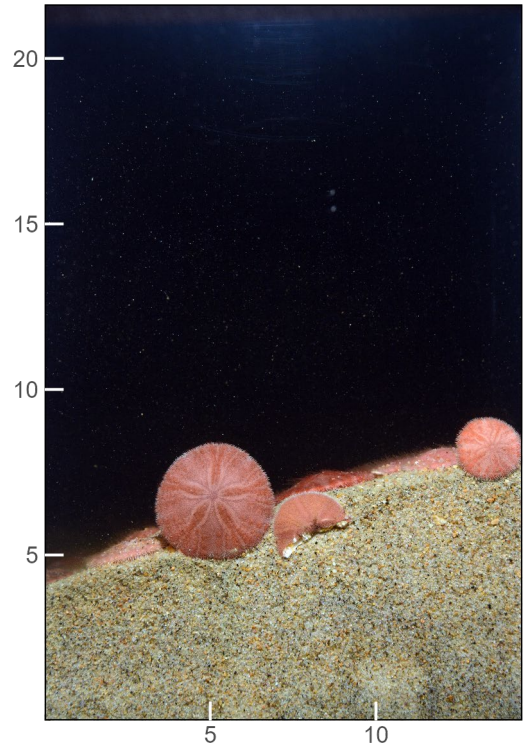


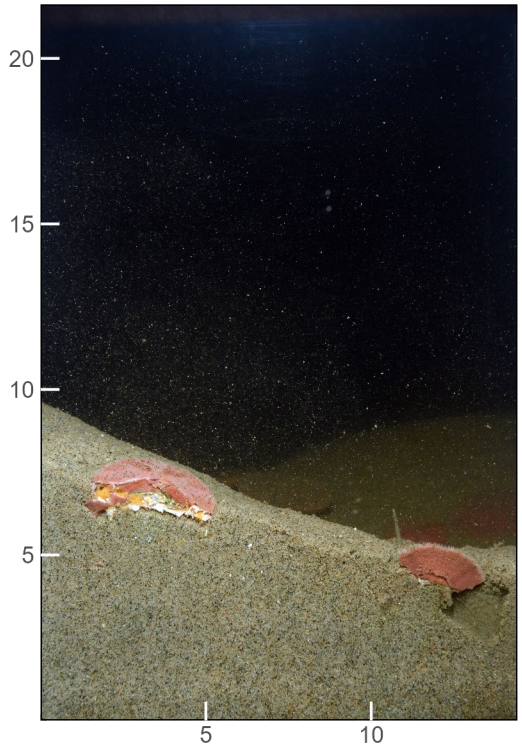
NECCT-SPG-372-A



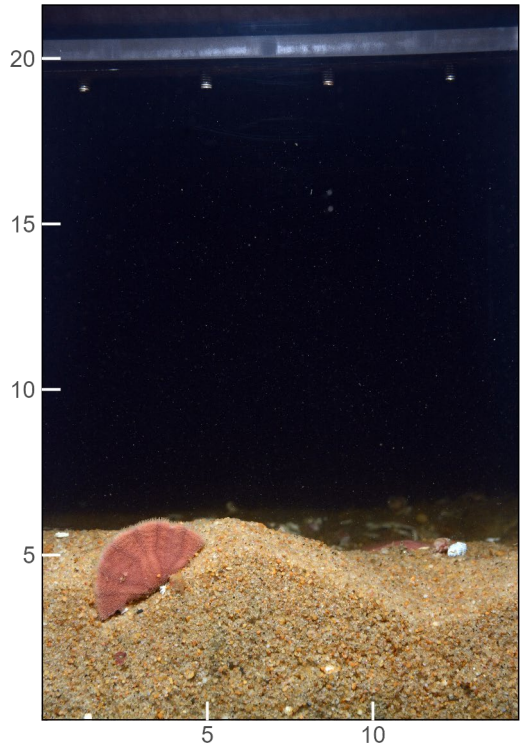
NECCT-SPG-372-B



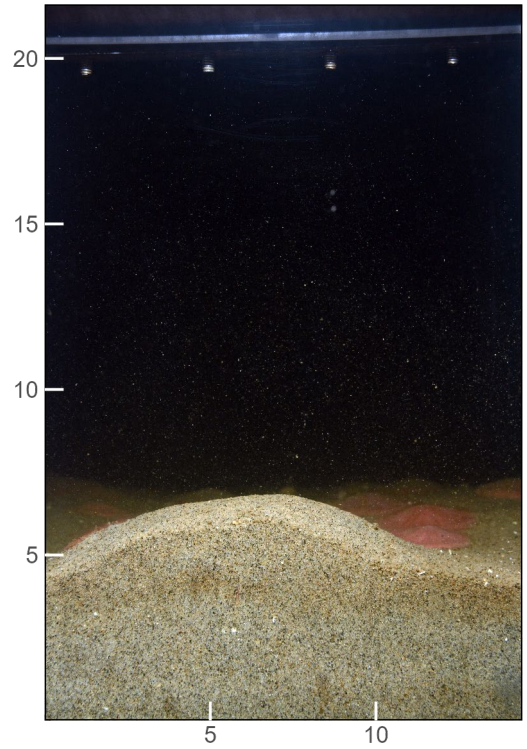
NECCT-SPG-372-C



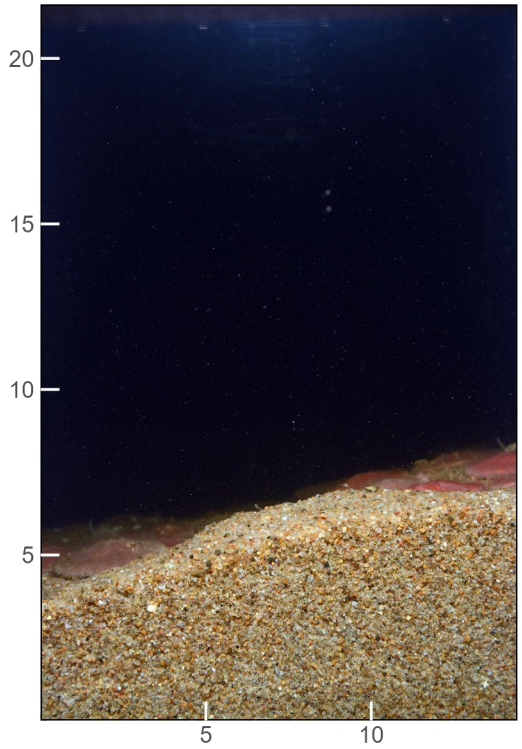
NECCT-SP-374-A



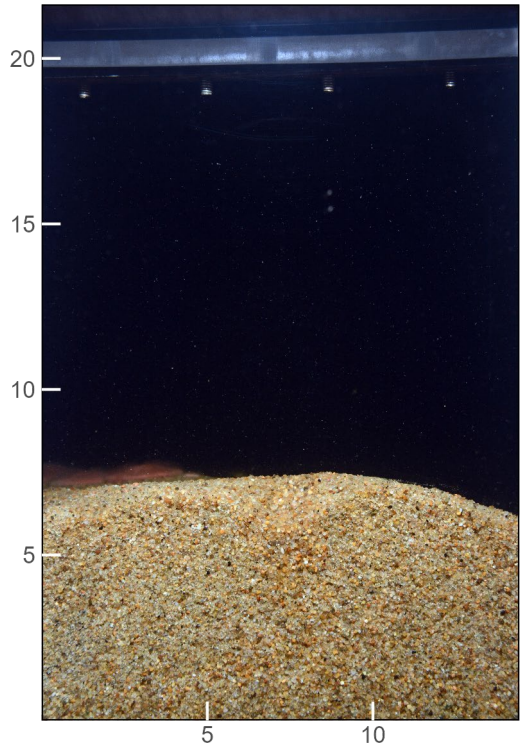
NECCT-SP-374-D



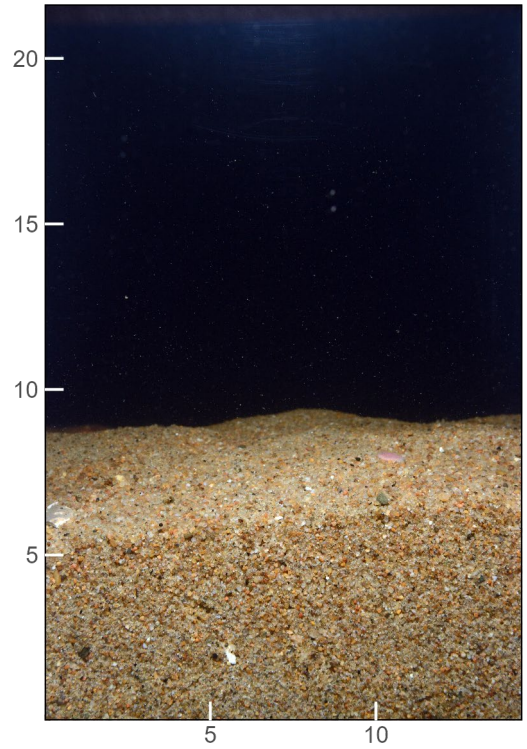
NECCT-SP-374-E



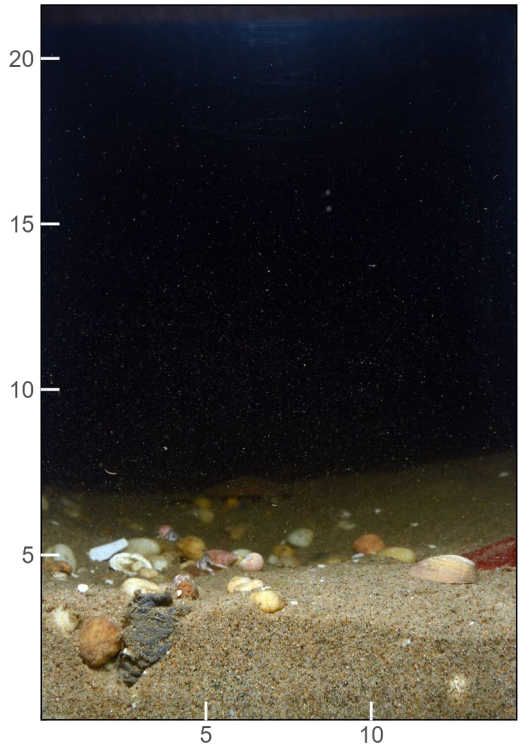
NECCT-SP-376-A



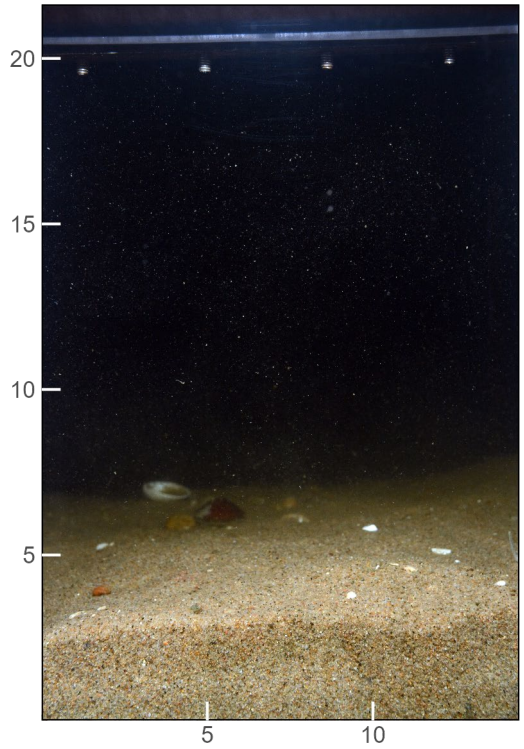
NECCT-SP-376-B



NECCT-SP-376-C



NECCT-SPG-378-A



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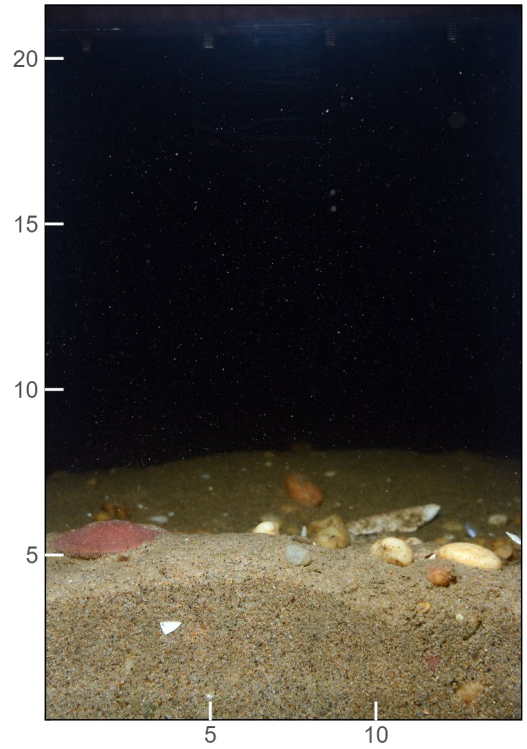

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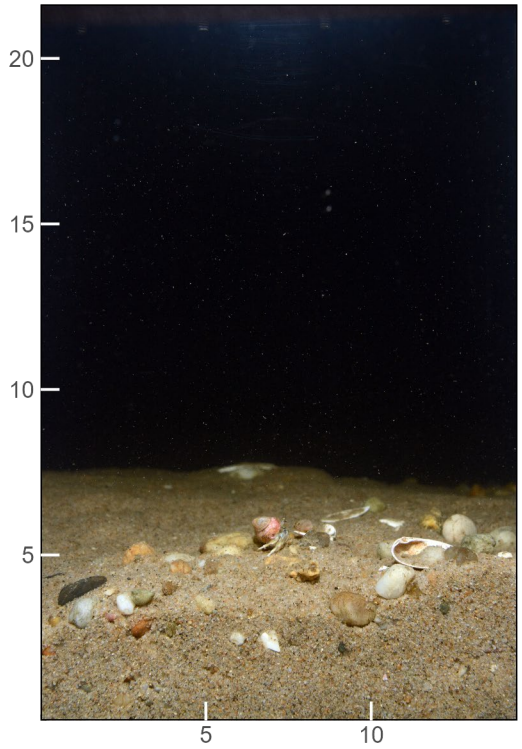

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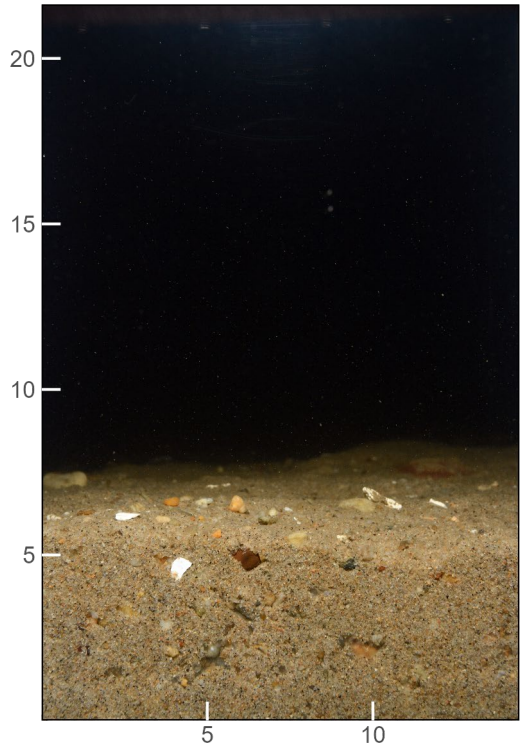

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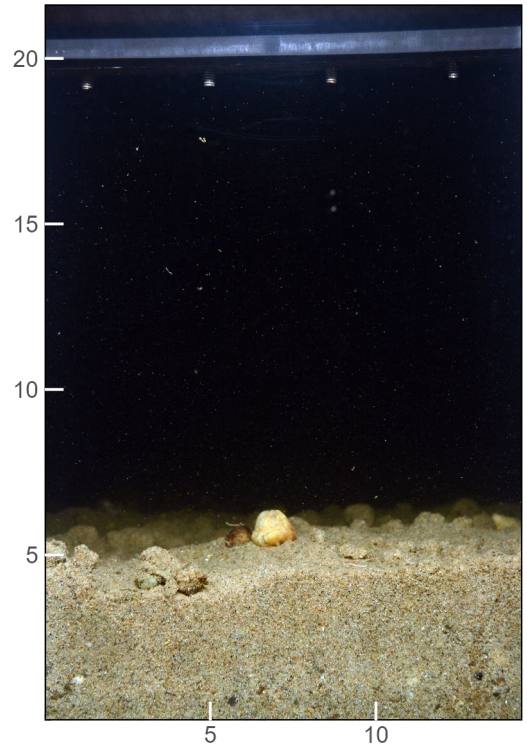

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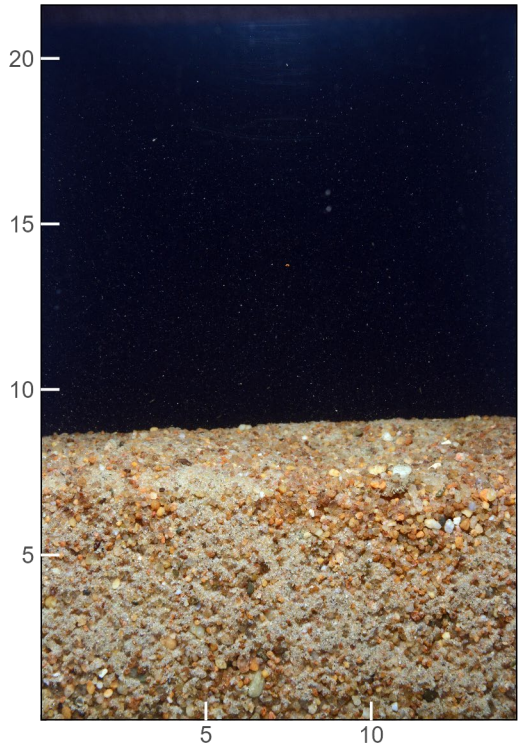
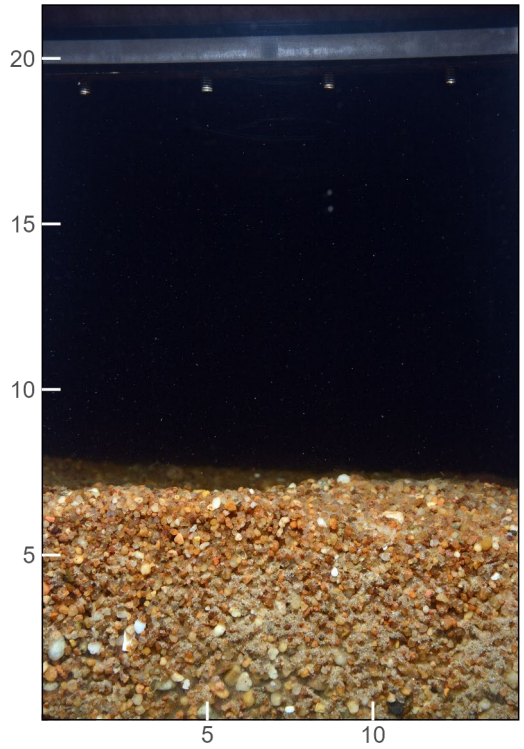
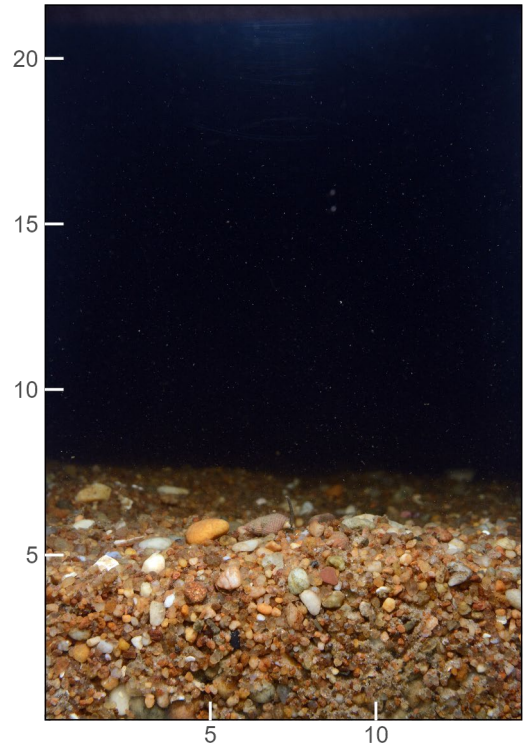


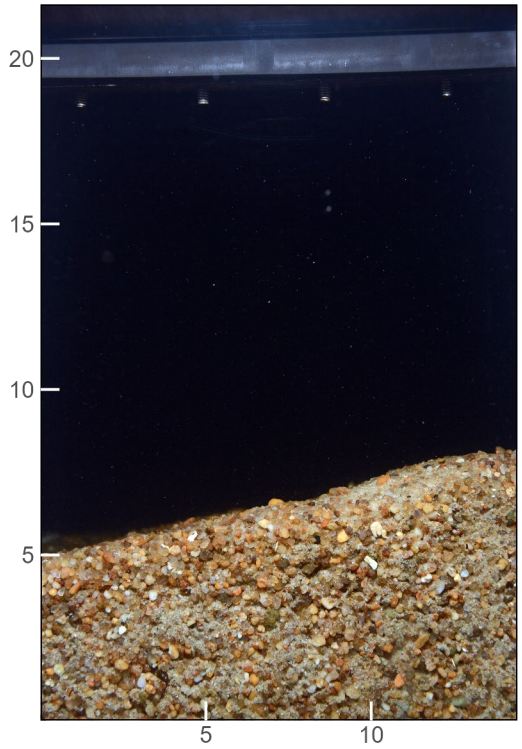
NECCT-SP-381-A



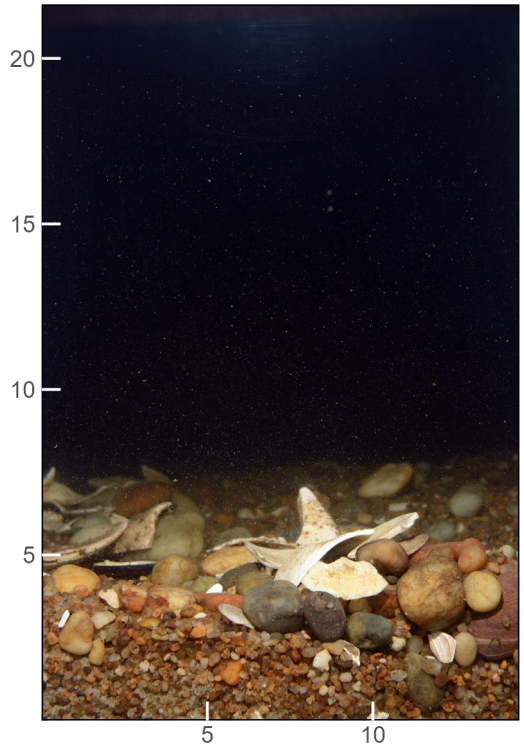
NECCT-SP-381-C



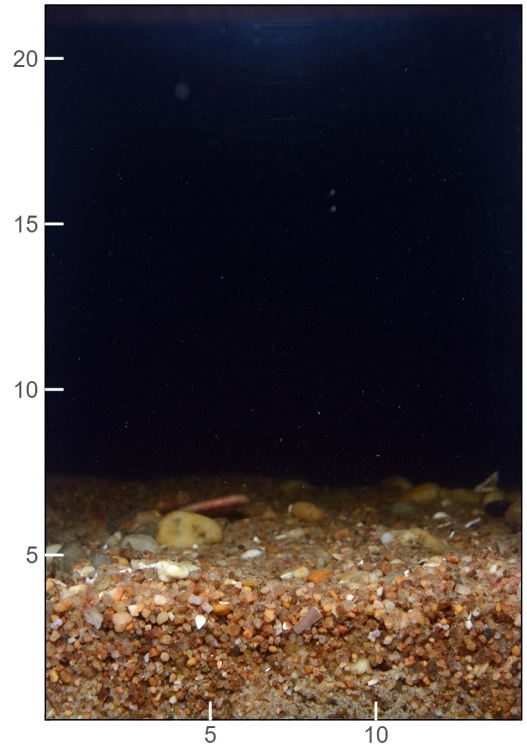
NECCT-SP-381-D



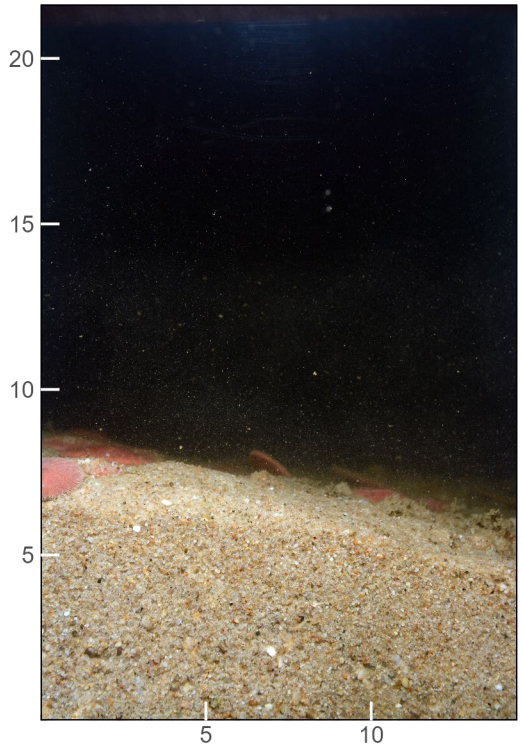
NECCT-SP-384-A



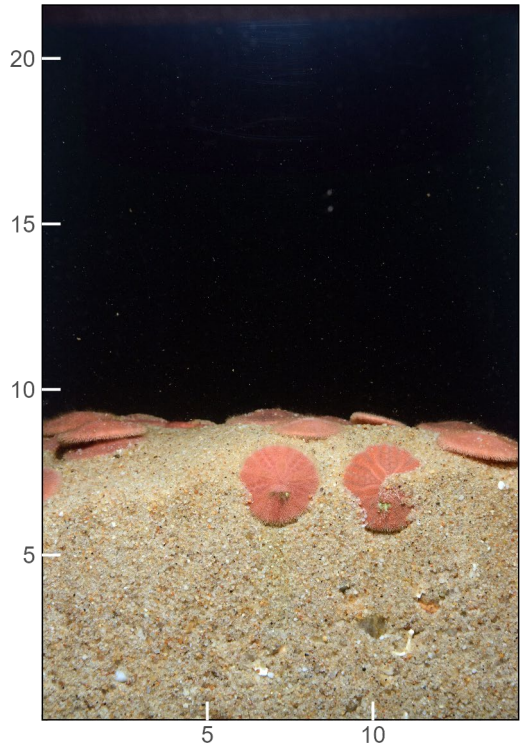
NECCT-SP-384-B



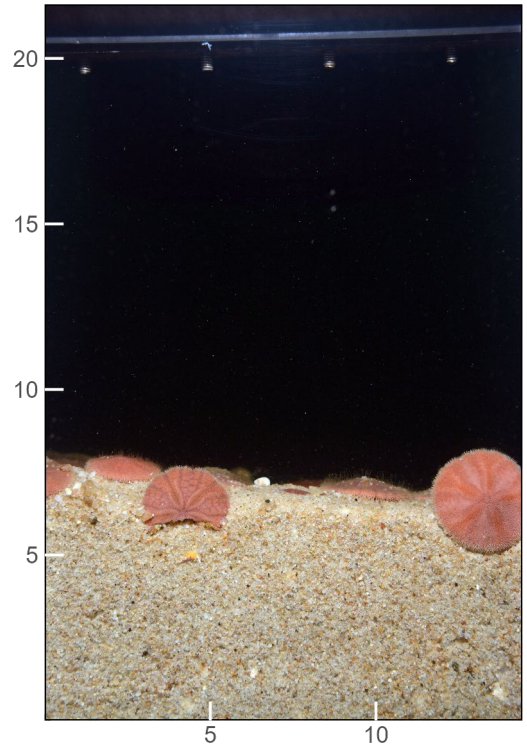
NECCT-SP-384-C



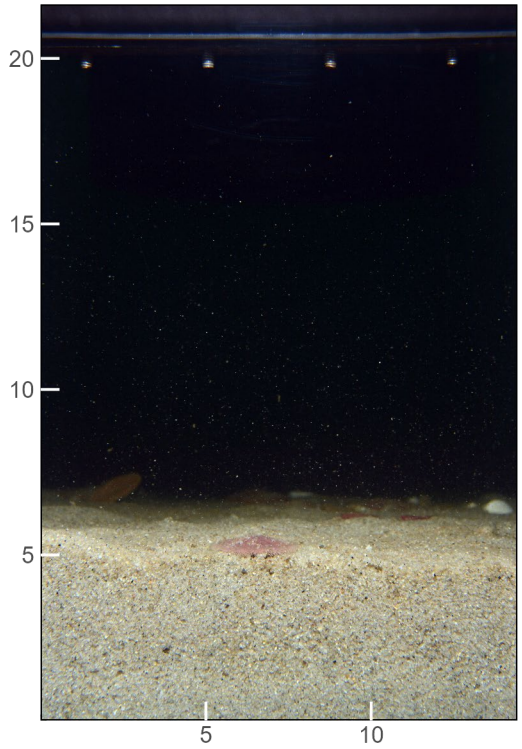
NECCT-SPG-385-B



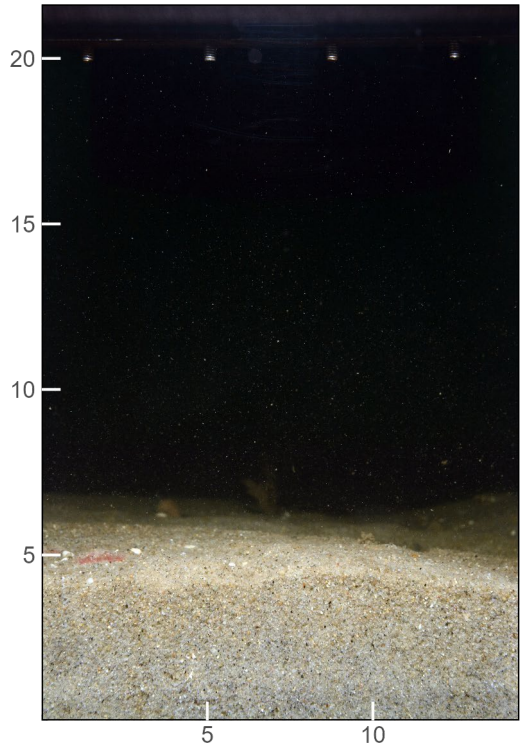
NECCT-SPG-385-C



NECCT-SPG-385-D



NECCT-SP-386-A



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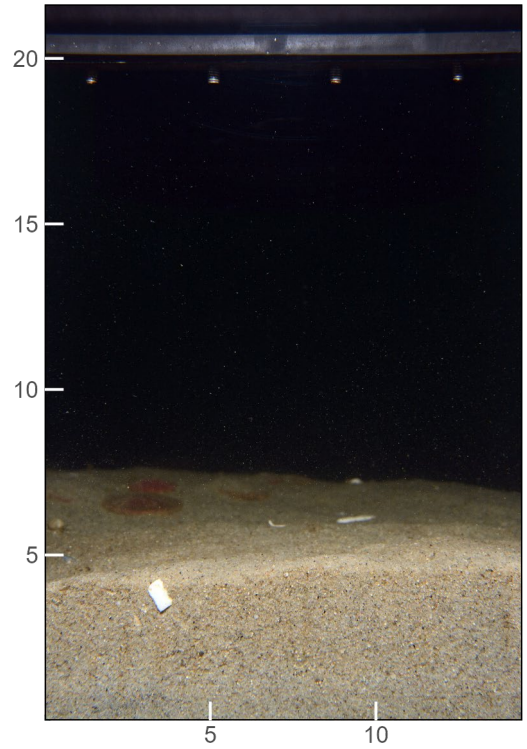
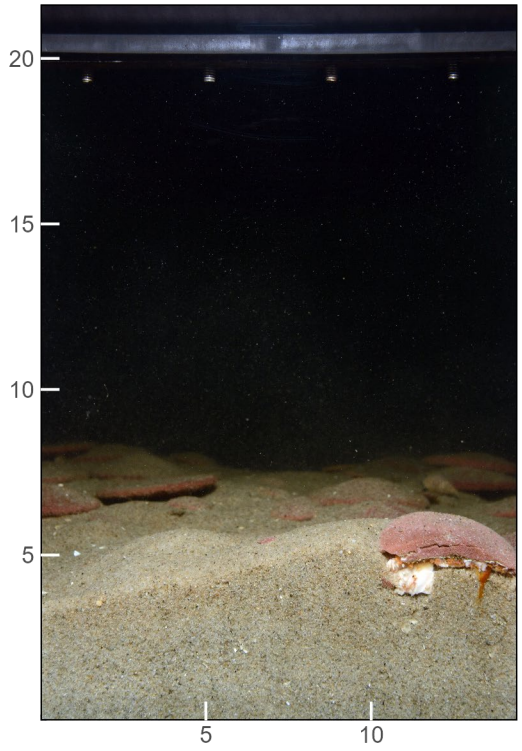
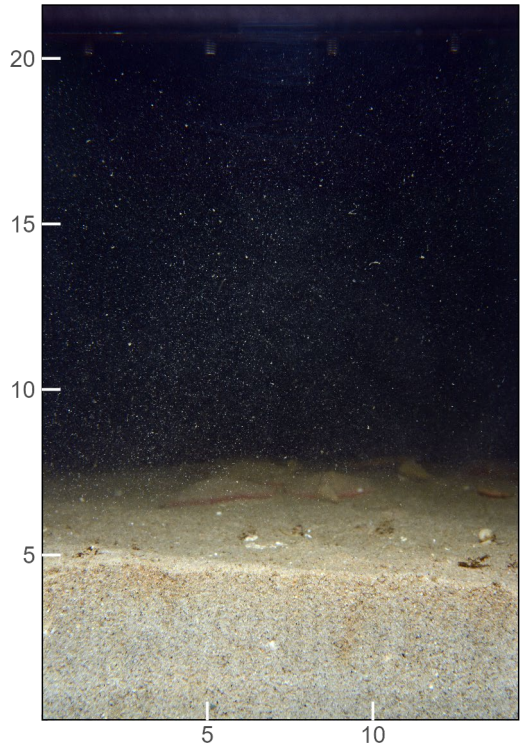


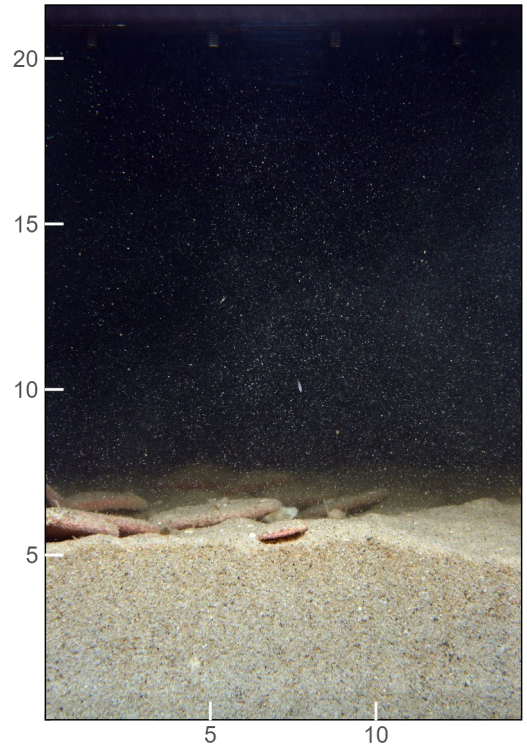
NECCT-SP-386-D



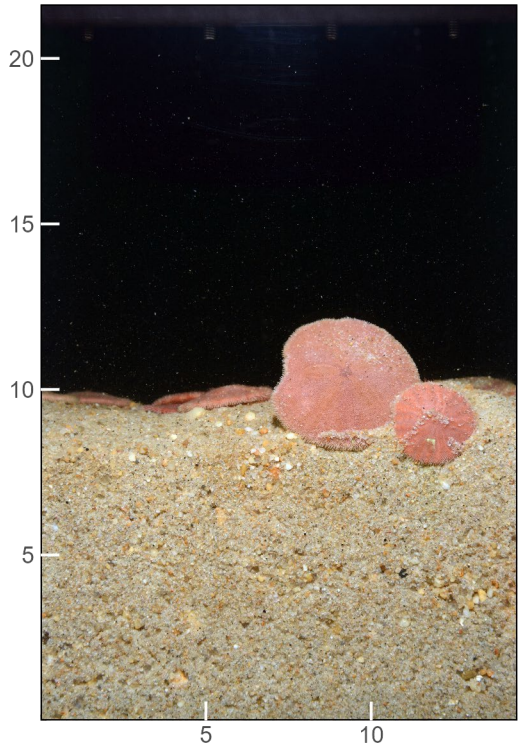
NECCT-SP-388-B



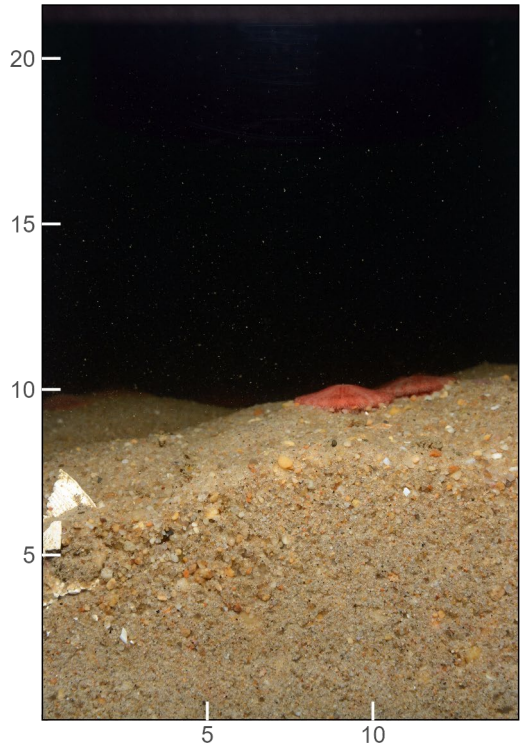
NECCT-SP-388-C



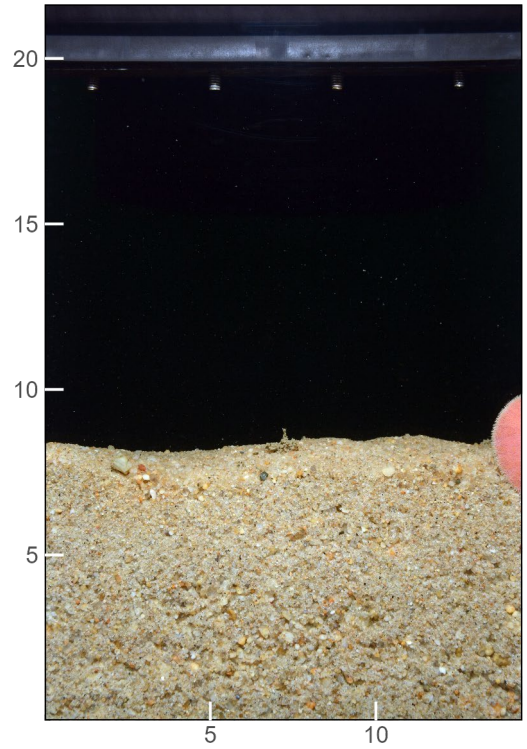
NECCT-SP-388-E



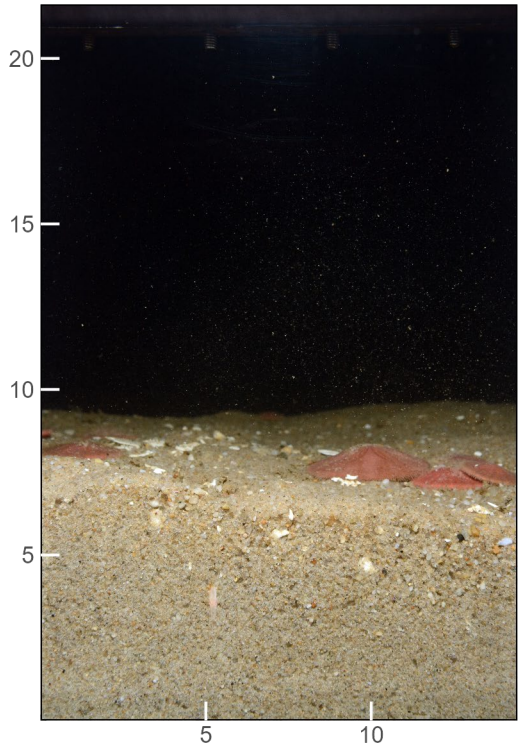
NECCT-SPG-391-A



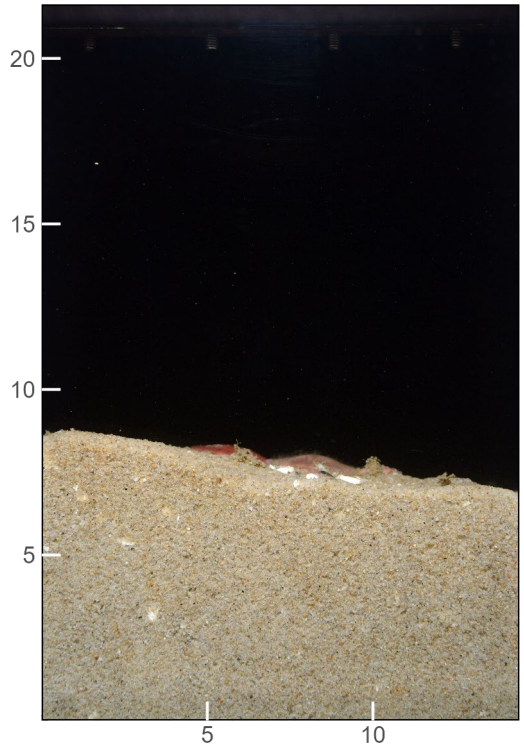
NECCT-SPG-391-B



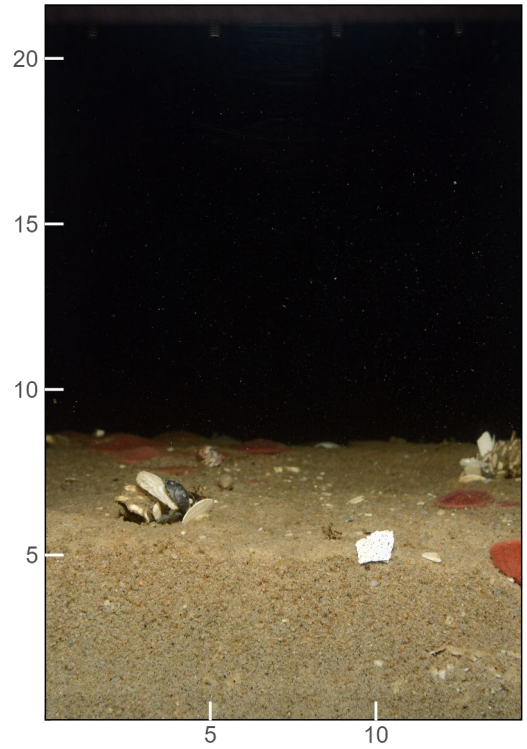
NECCT-SPG-391-C



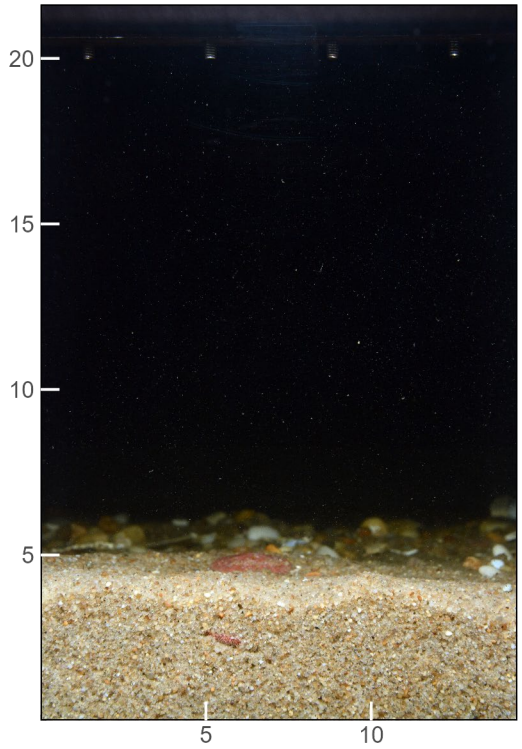
NECCT-SP-395-A



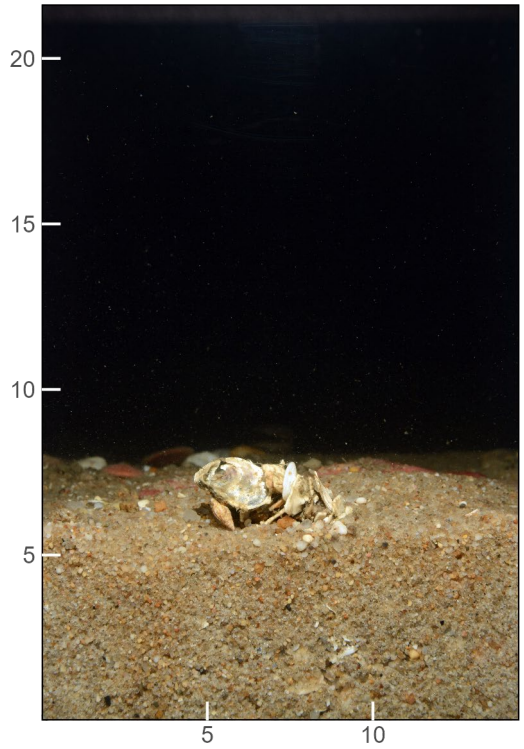
NECCT-SP-395-B



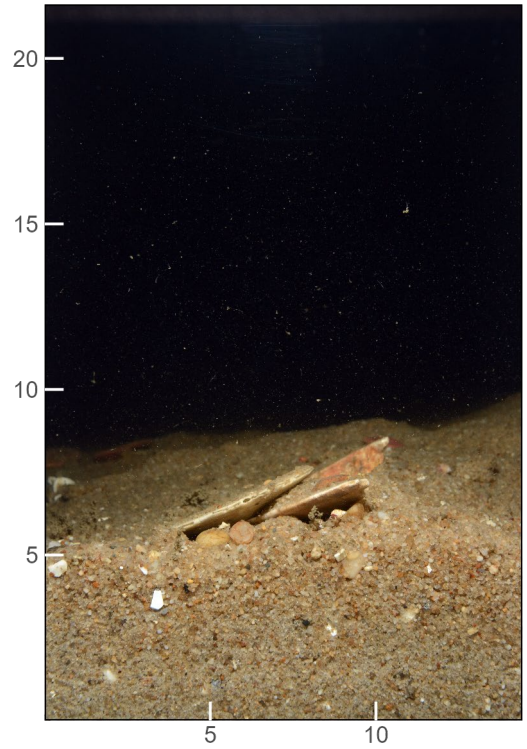
NECCT-SP-395-C



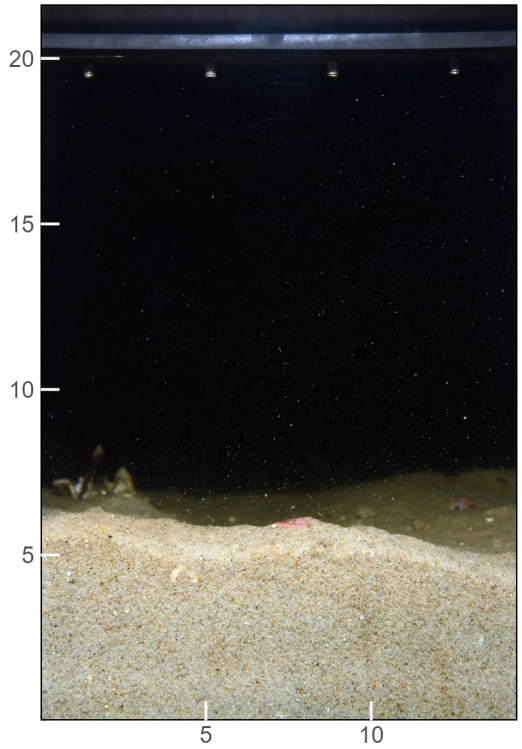
NECCT-SP-396-A



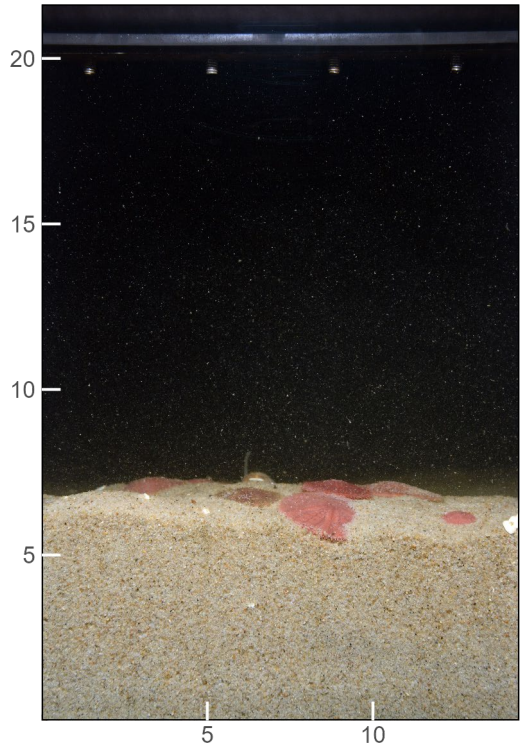
NECCT-SP-396-B



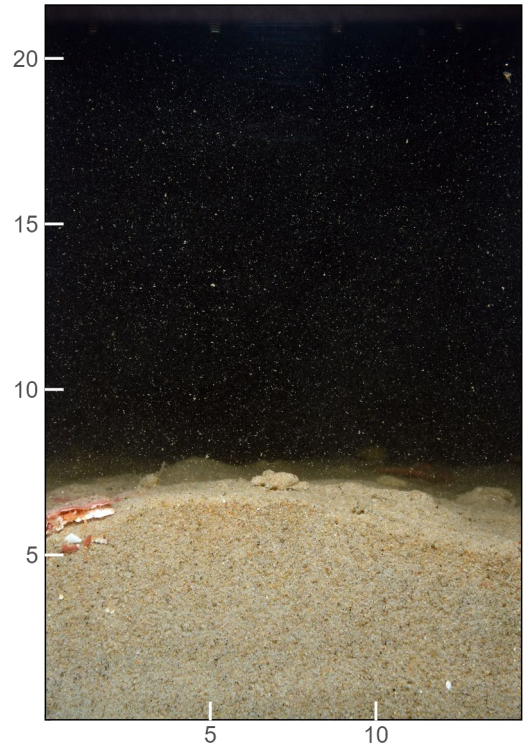
NECCT-SP-396-C



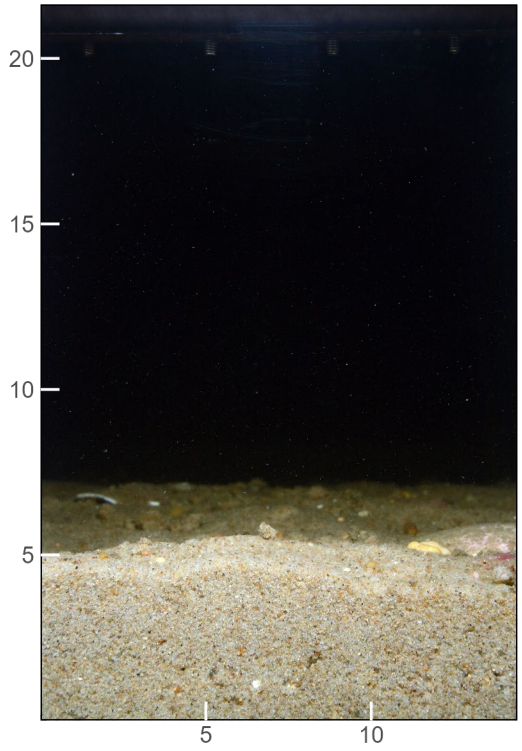
NECCT-SPG-398-A



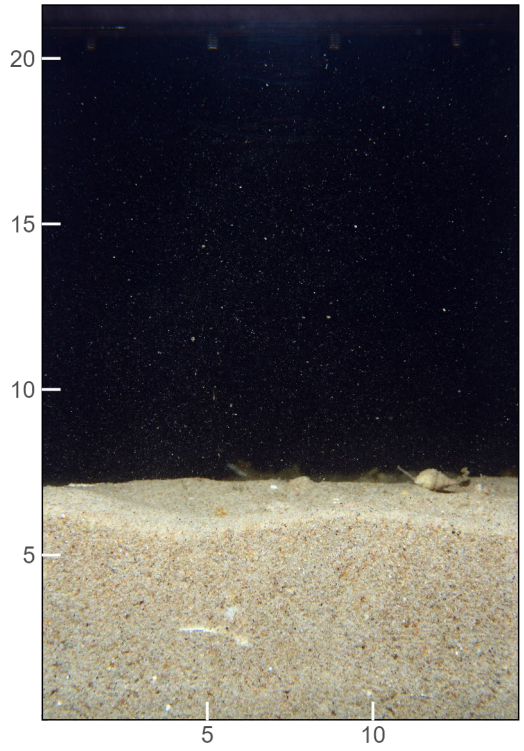
NECCT-SPG-398-C



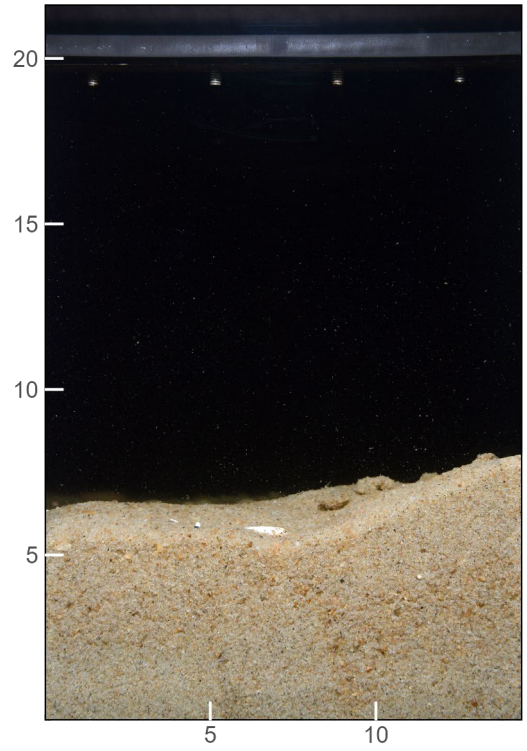
NECCT-SPG-398-E



NECCT-SP-405-A



NECCT-SP-405-C



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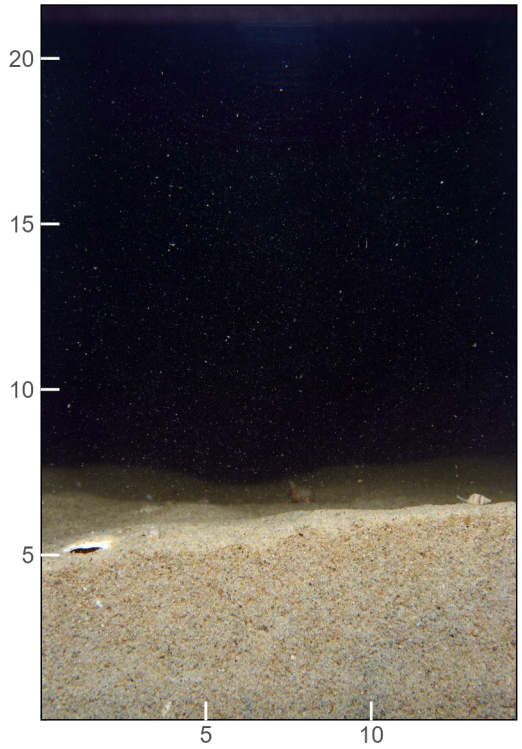
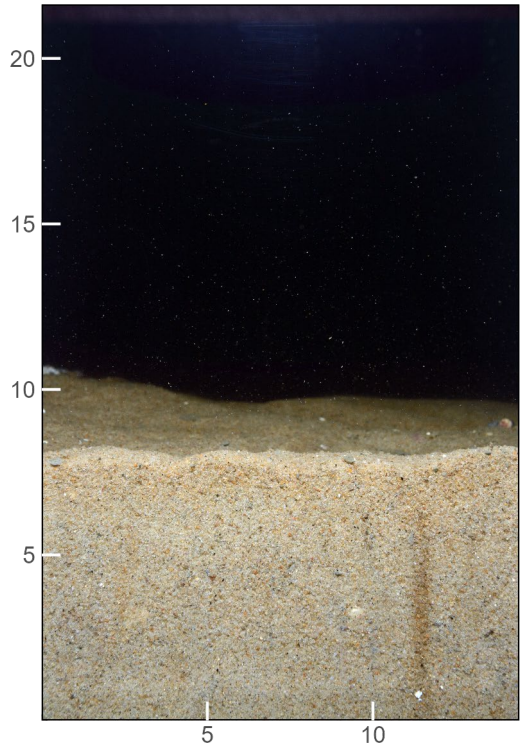
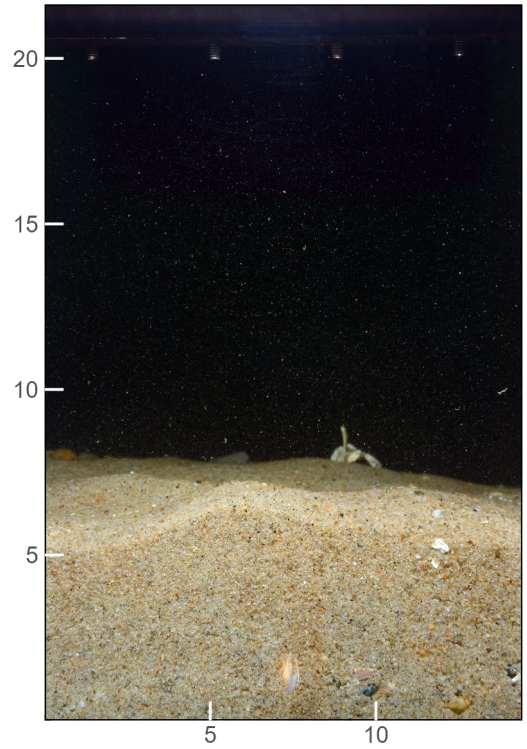


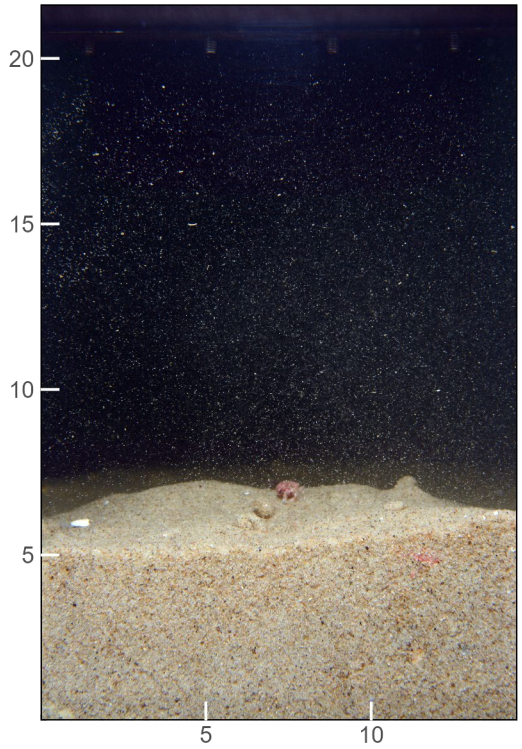
NECCT-SP-407-A



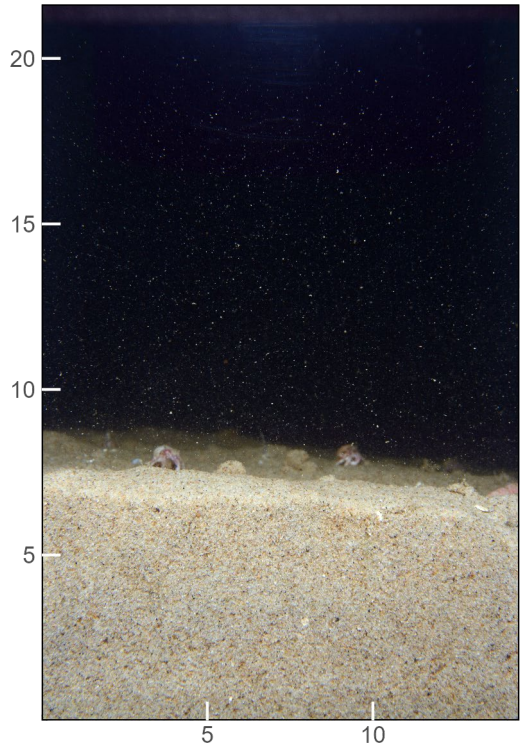
NECCT-SP-407-B



NECCT-SP-407-E



NECCT-SPG-409-A



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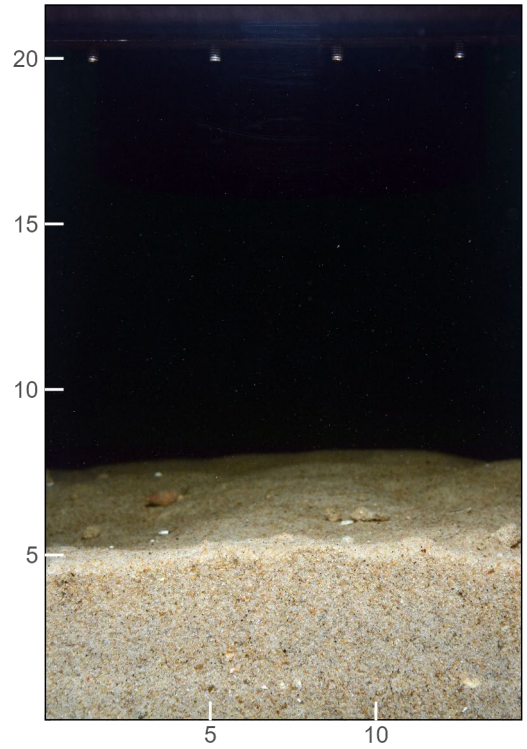

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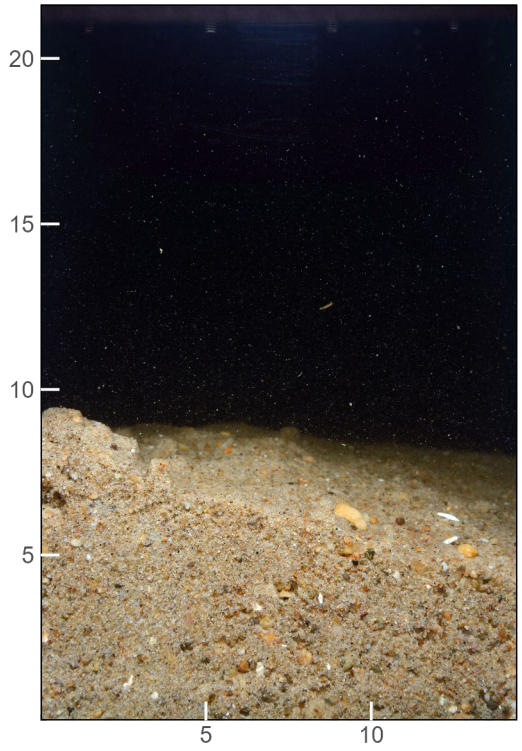

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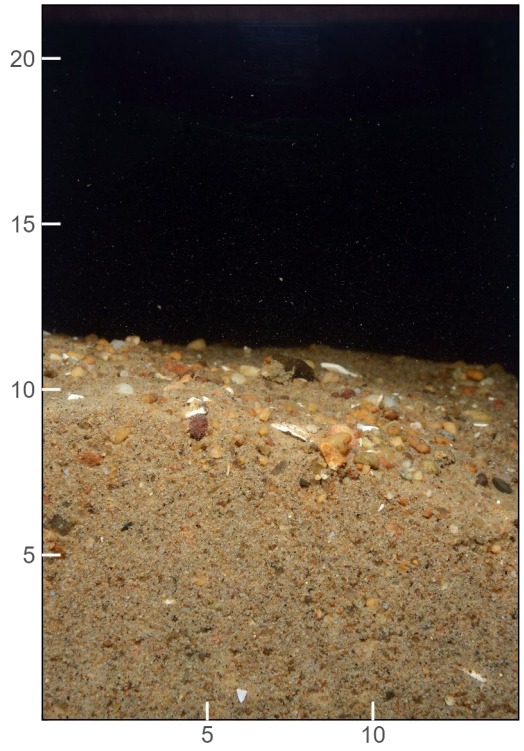

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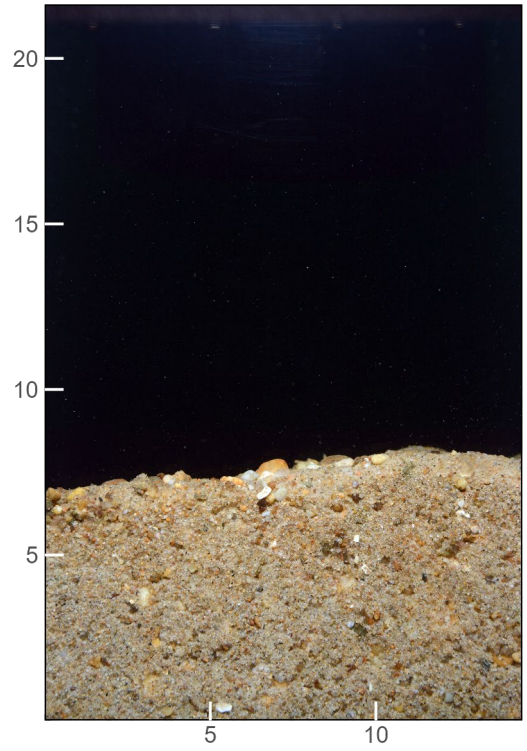

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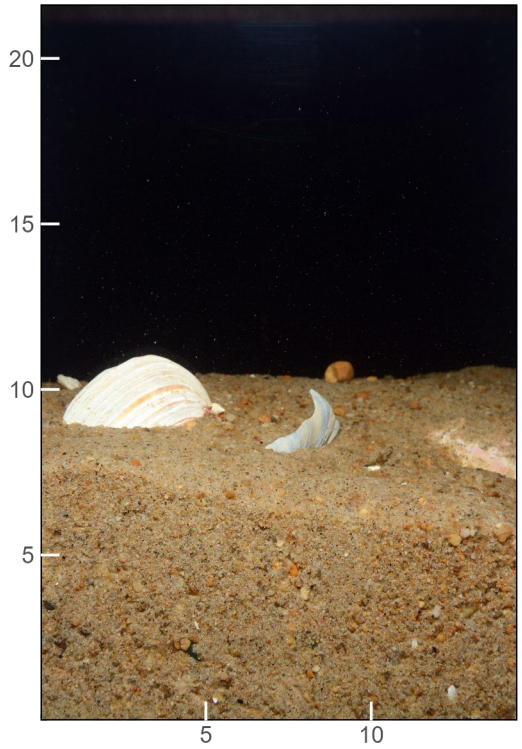
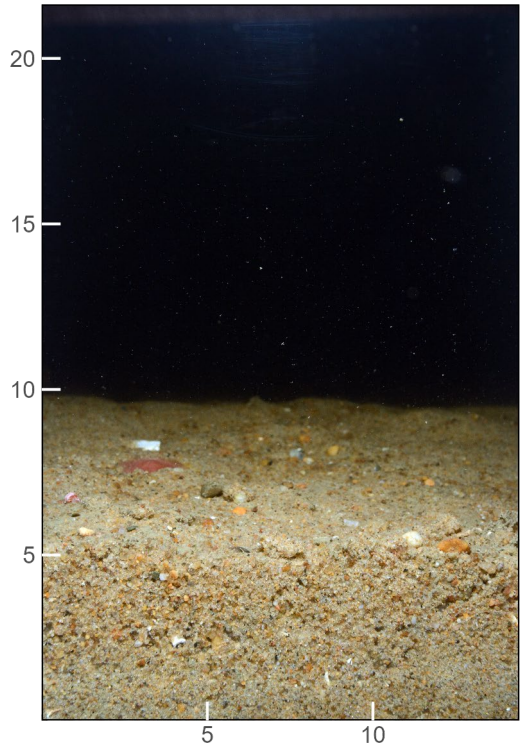
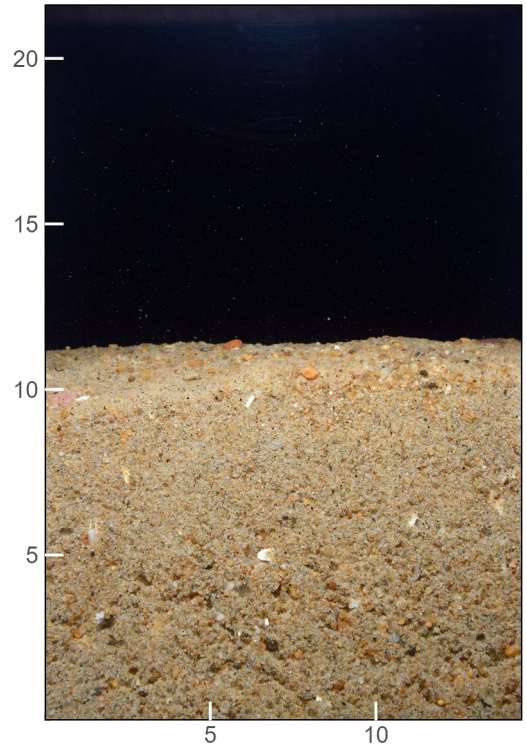


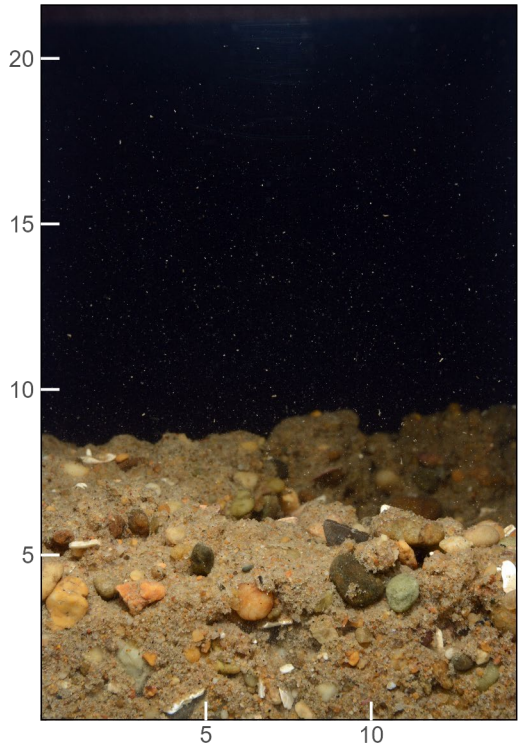
NECCT-SP-413-B



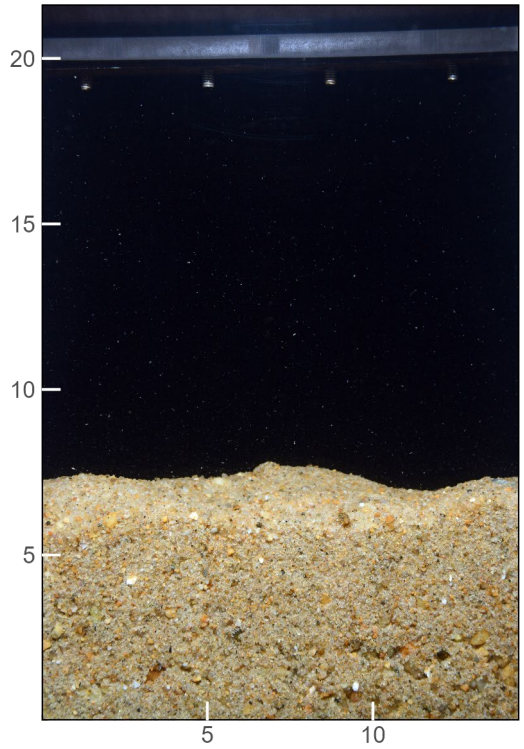
NECCT-SP-413-F



NECCT-SP-413-J



NECCT-SP-416-A



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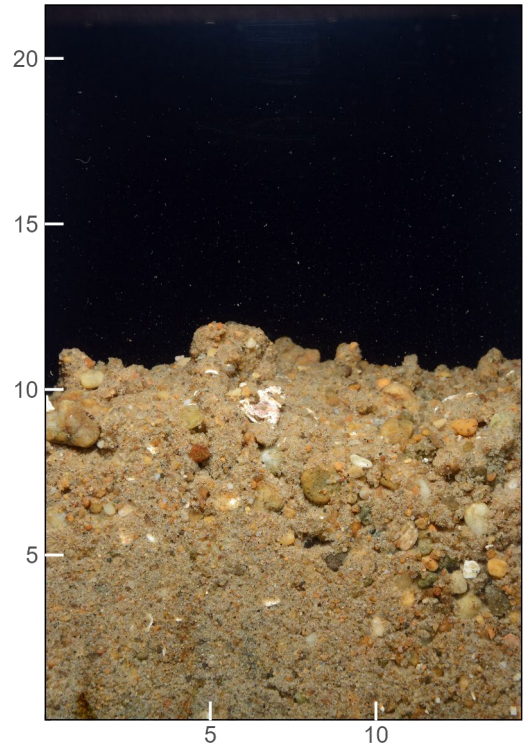

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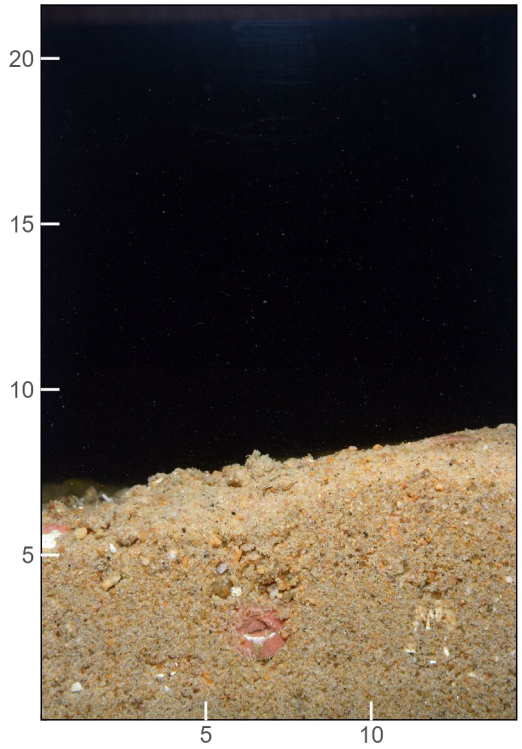
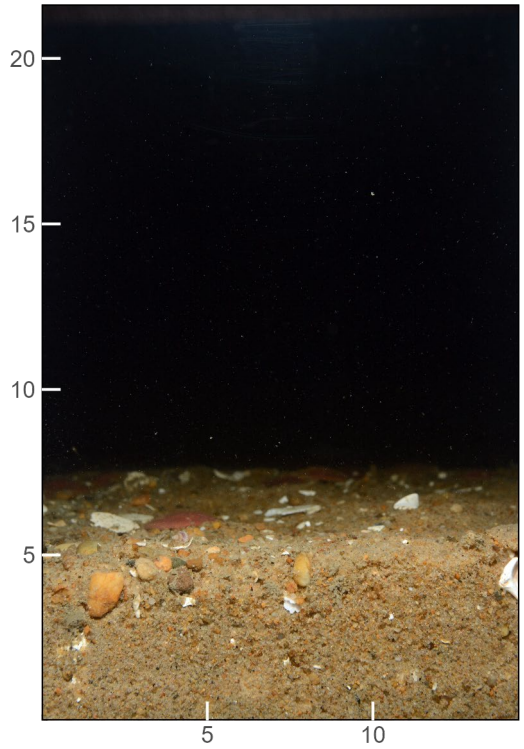
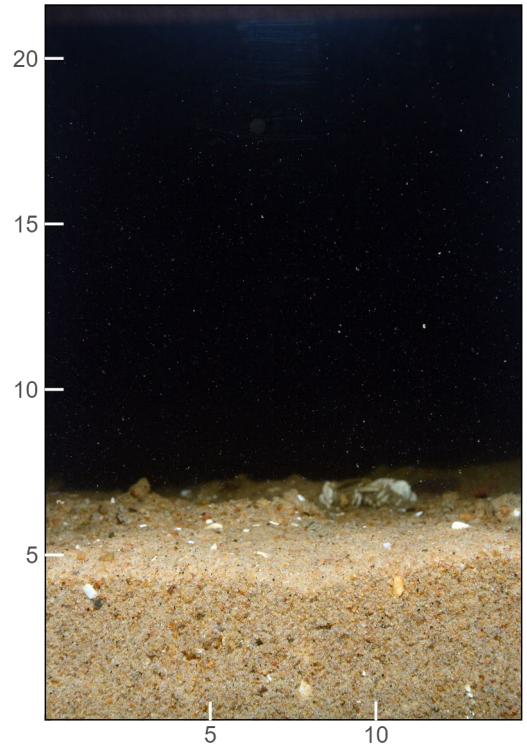


NECCT-SPG-417-A



NECCT-SPG-417-C



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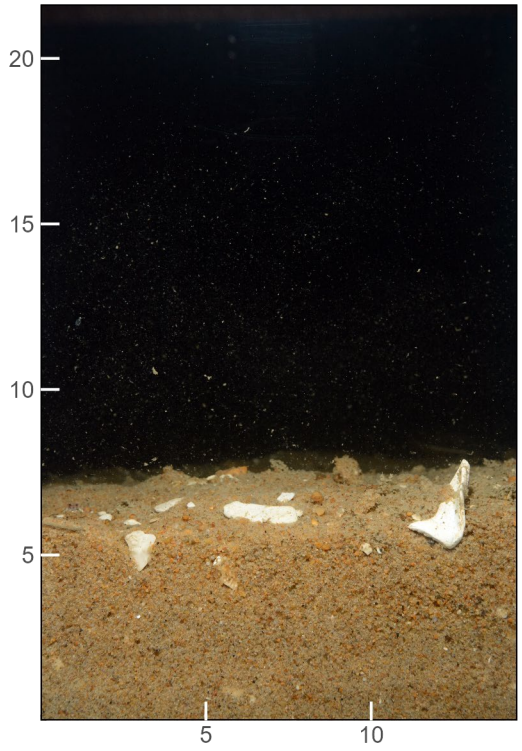
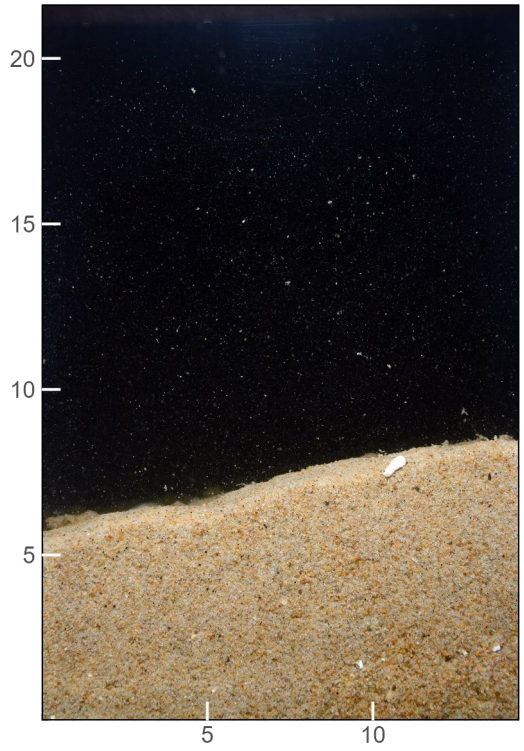
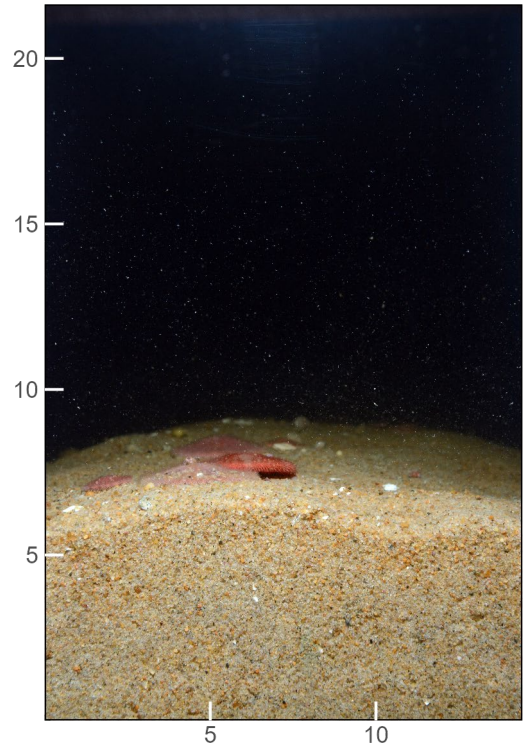


NECCT-SP-426-C



NECCT-SP-426-D



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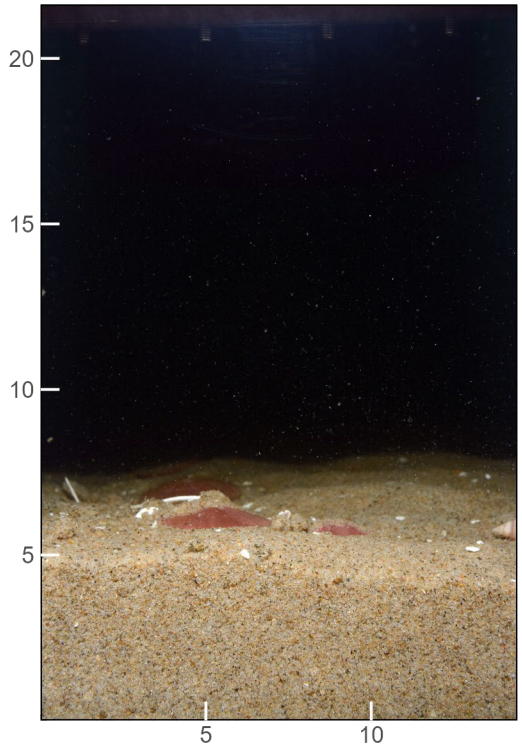
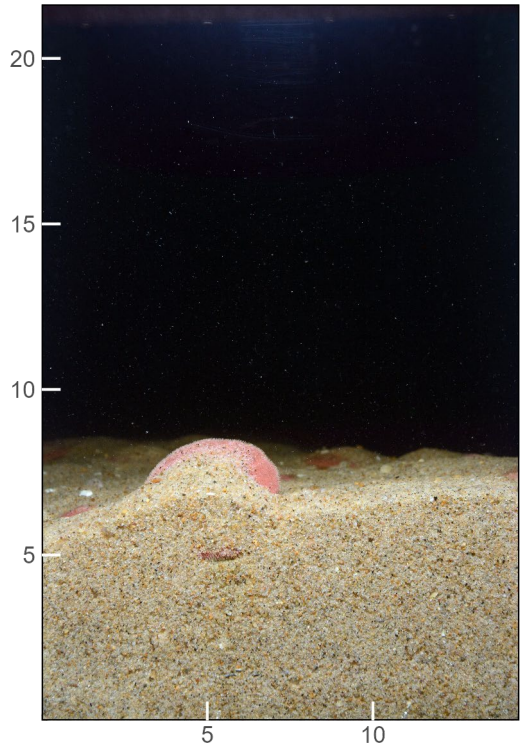


NECCT-SP-432-A



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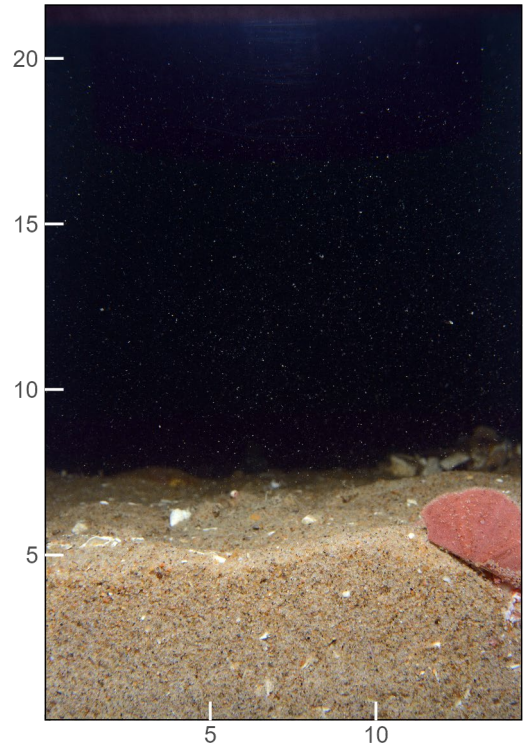

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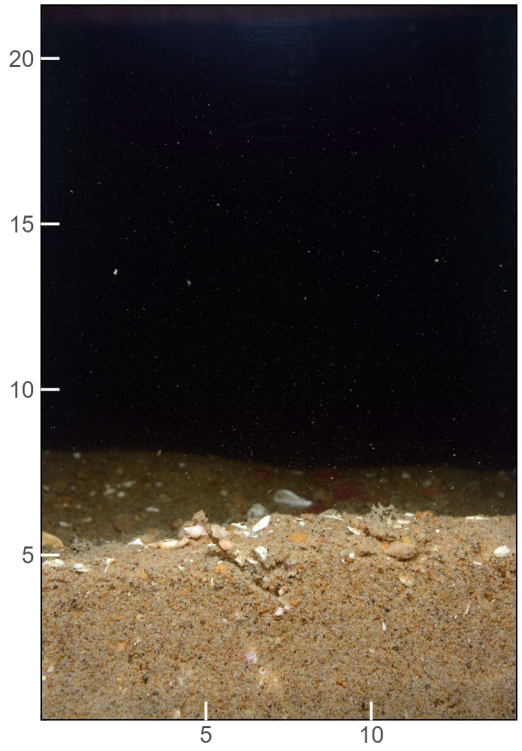
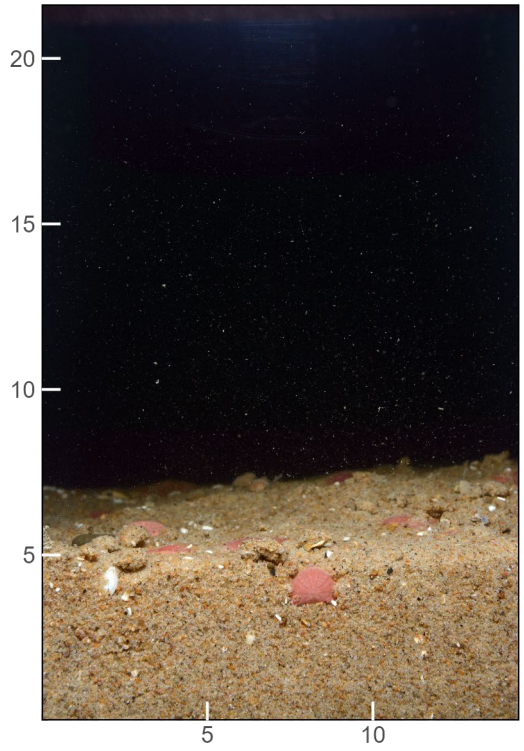


NECCT-SPG-435-A



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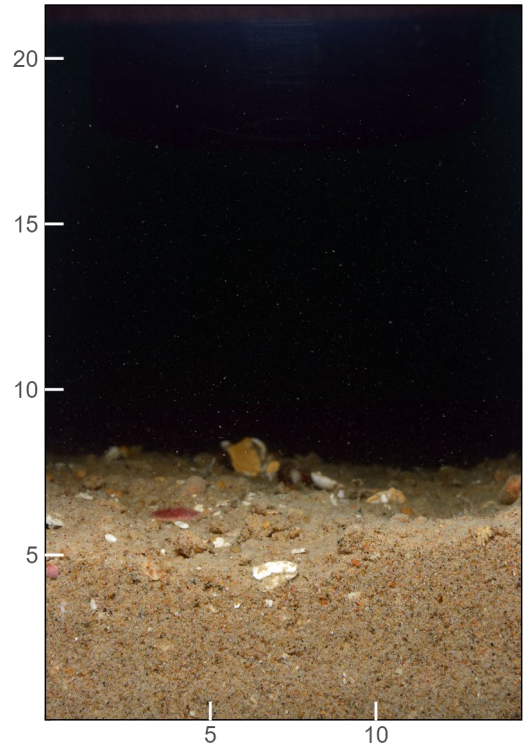
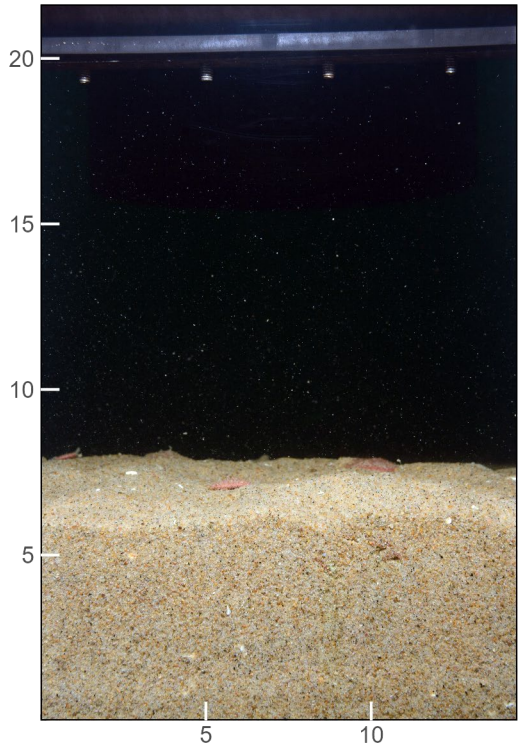
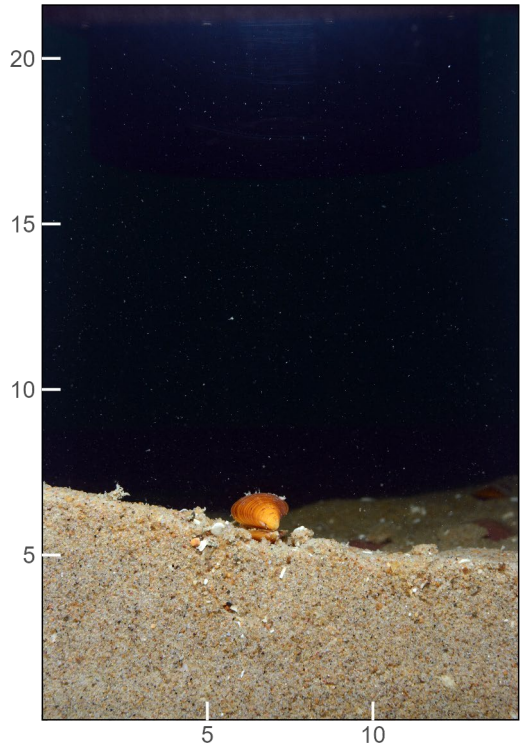


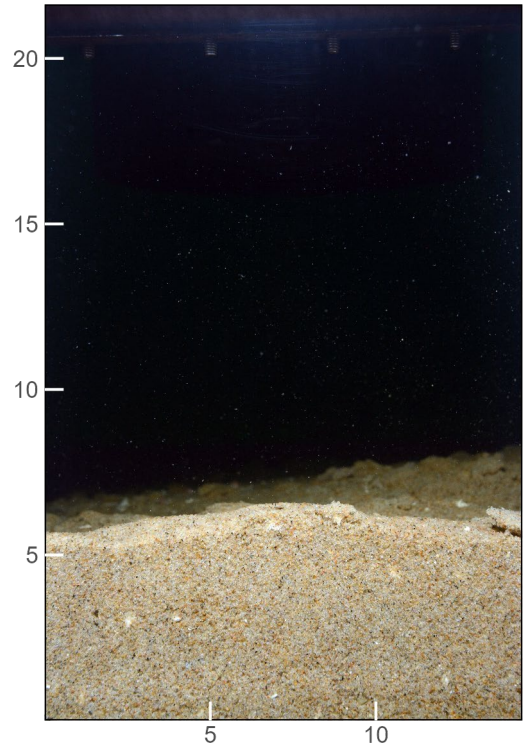
NECCT-SPG-435-C



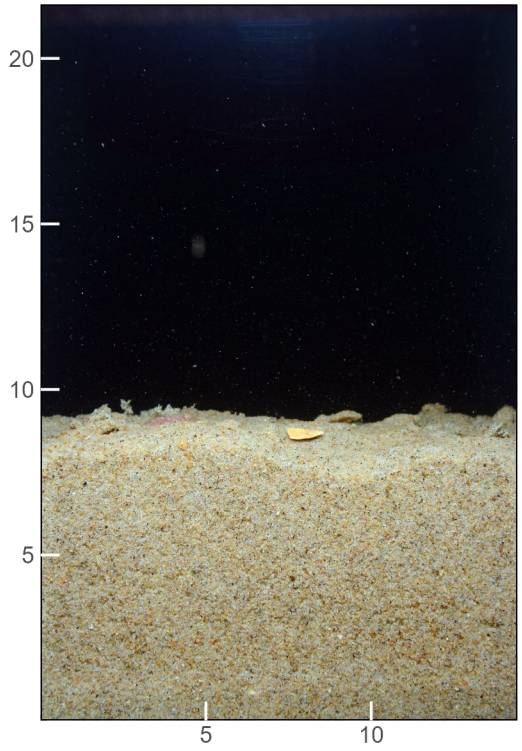
NECCT-SP-441-A



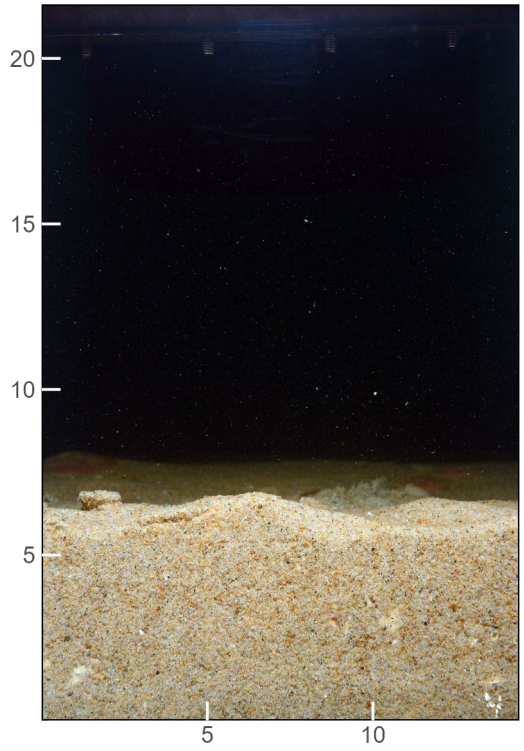
NECCT-SP-441-B



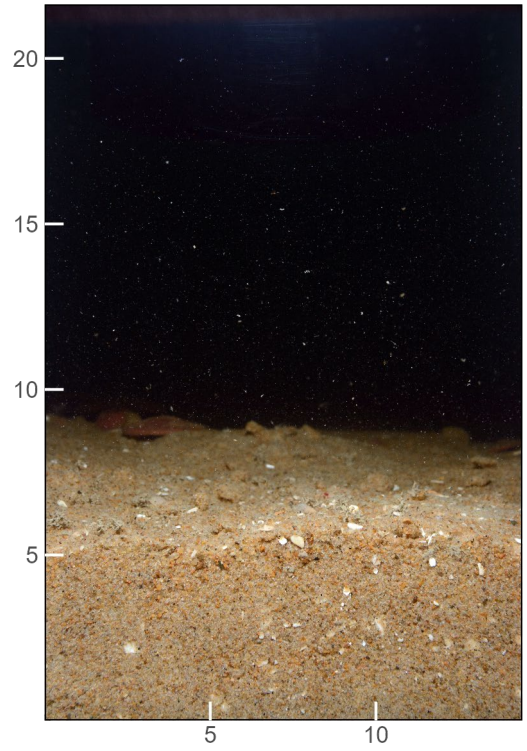
NECCT-SP-441-D



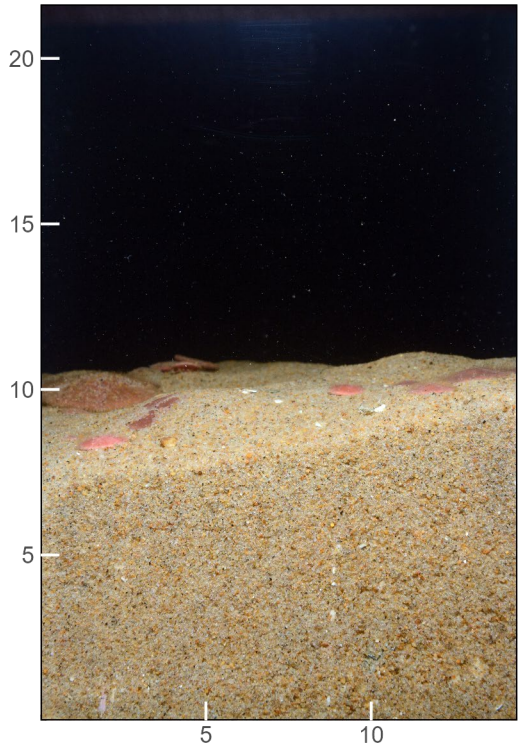
NECCT-SP-451-A



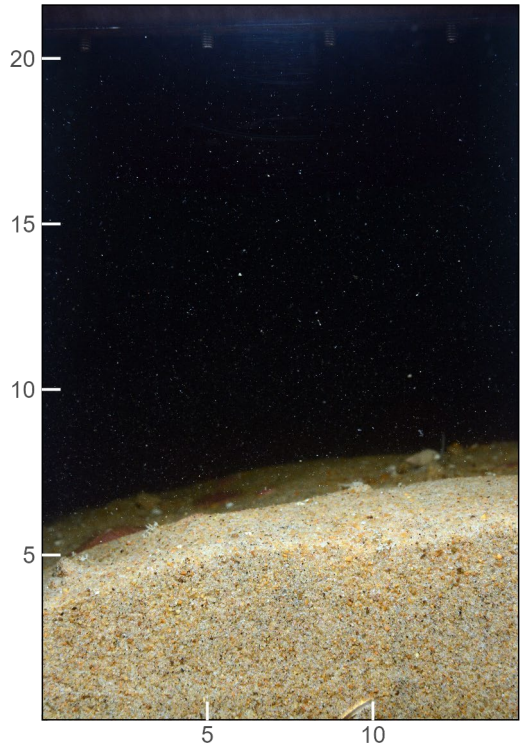
NECCT-SP-451-B



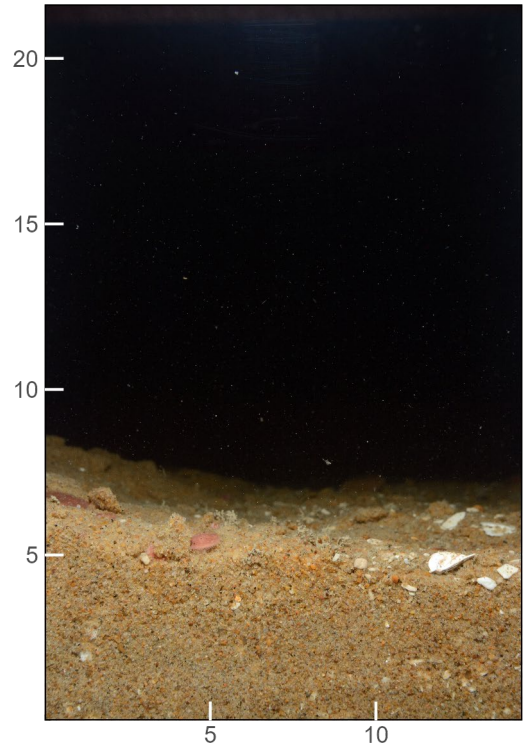
NECCT-SP-451-D



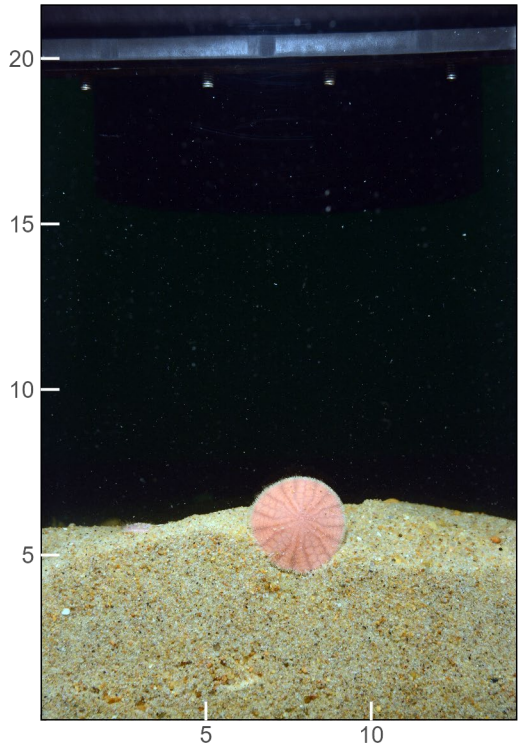
NECCT-SP-458-A



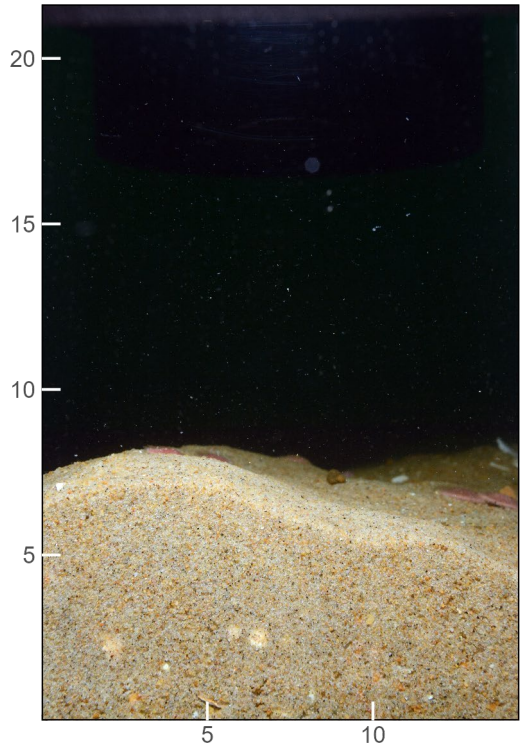
NECCT-SP-458-B



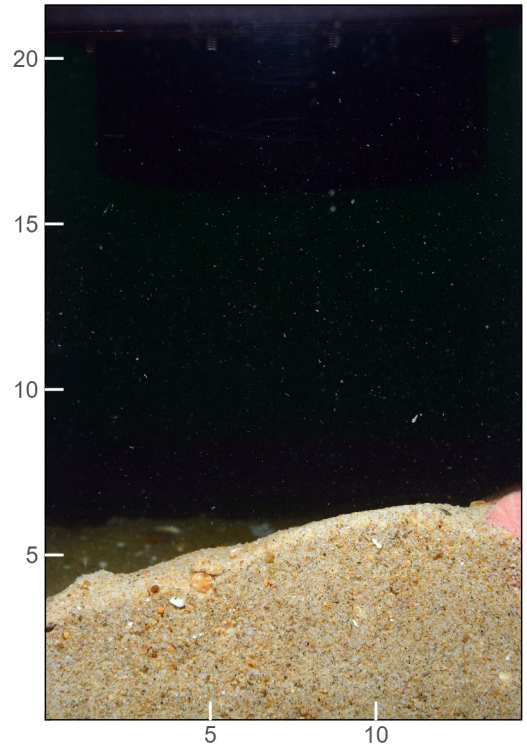
NECCT-SP-458-C



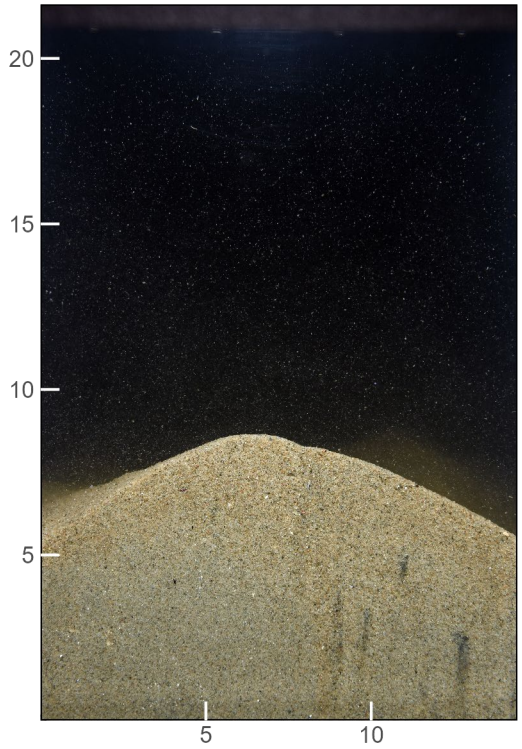
NECCT-SPG-461-A



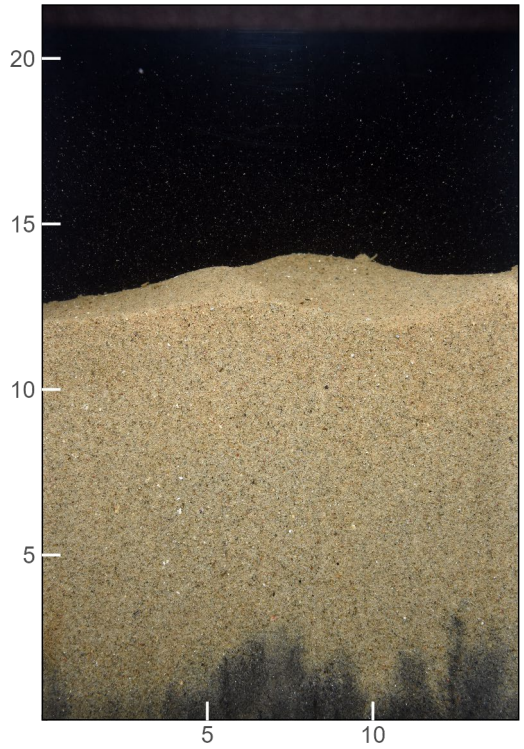
NECCT-SPG-461-D



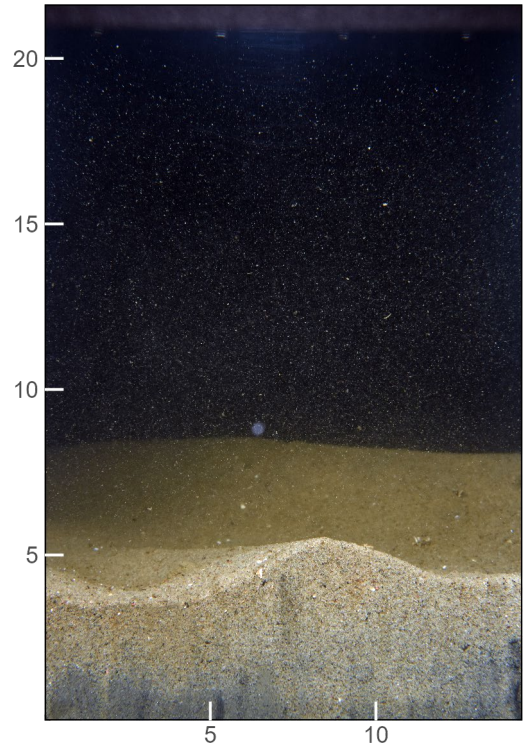
NECCT-SPG-461-E



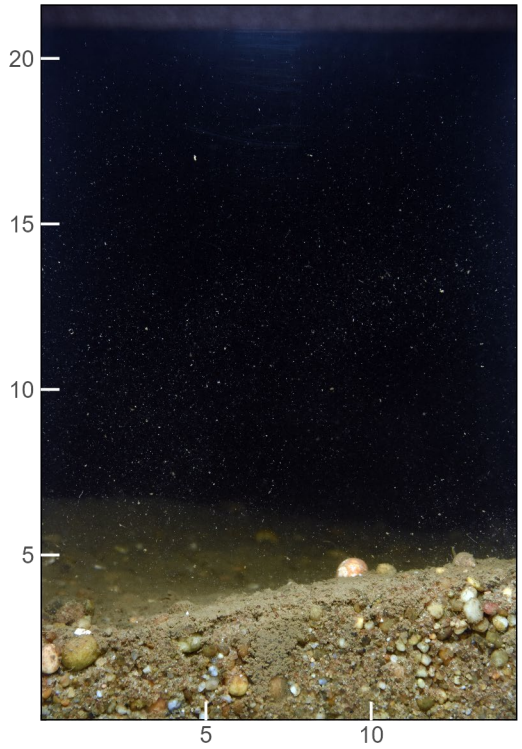
NECCT-SP-543-C



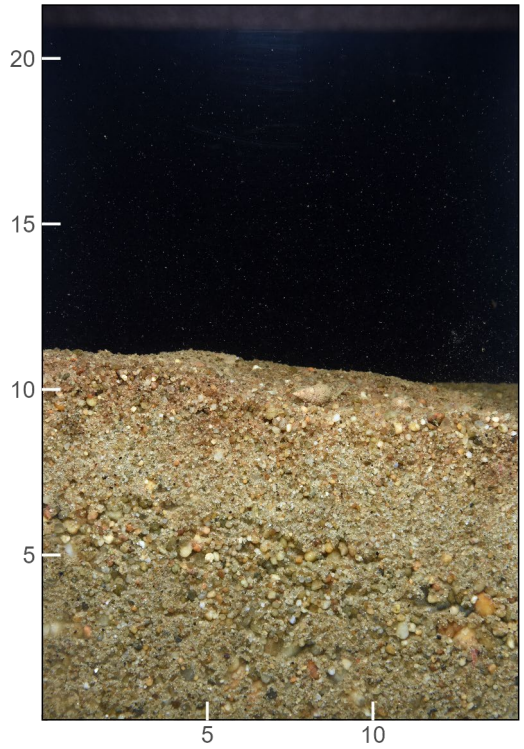
NECCT-SP-543-D



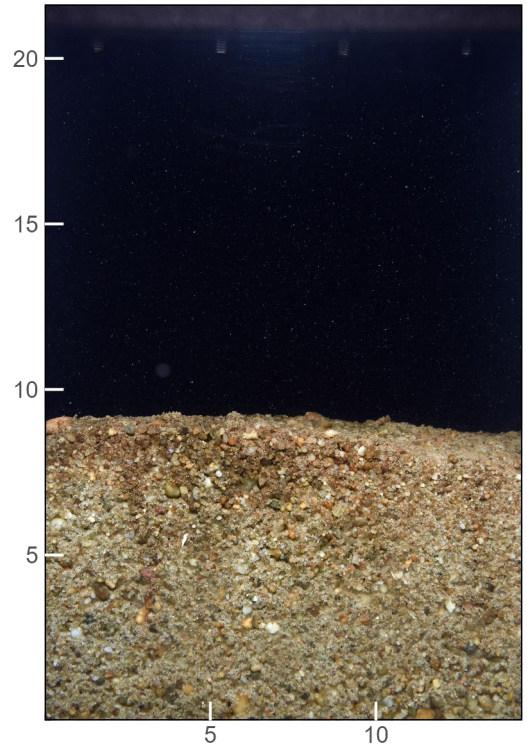
NECCT-SP-543-E



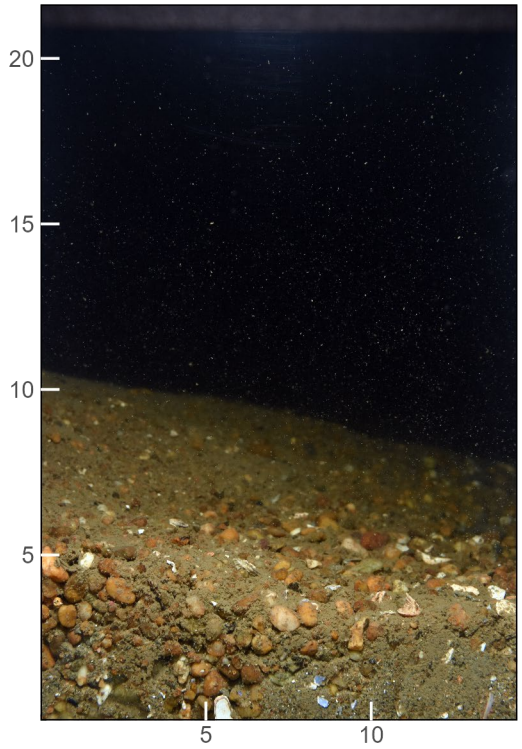
NECCT-SP-544-A



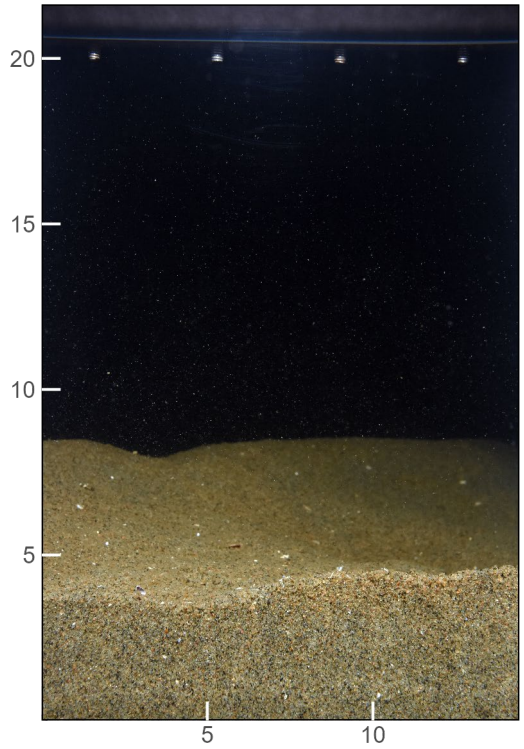
NECCT-SP-544-C



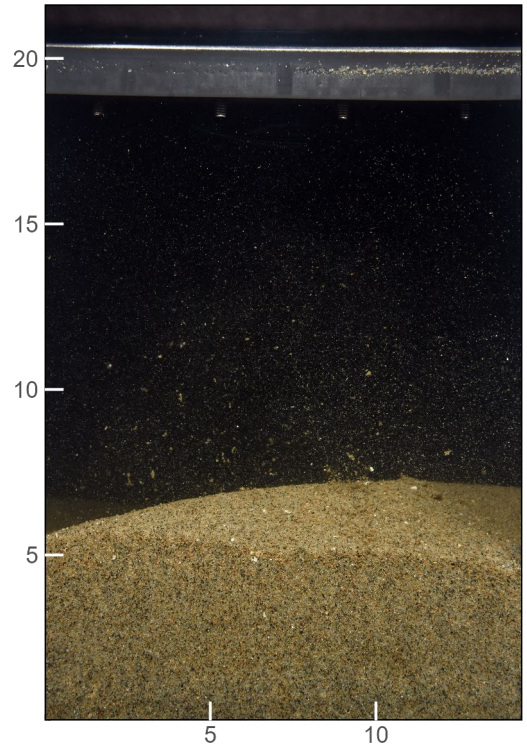
NECCT-SP-544-E



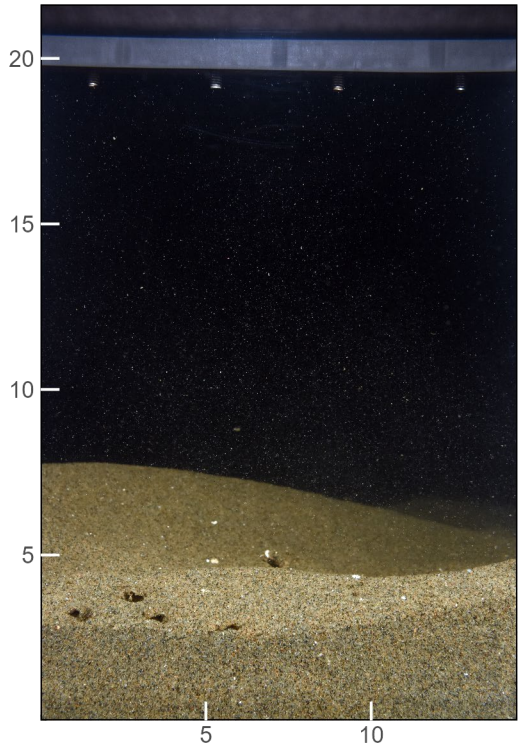
NECCT-SP-545-A



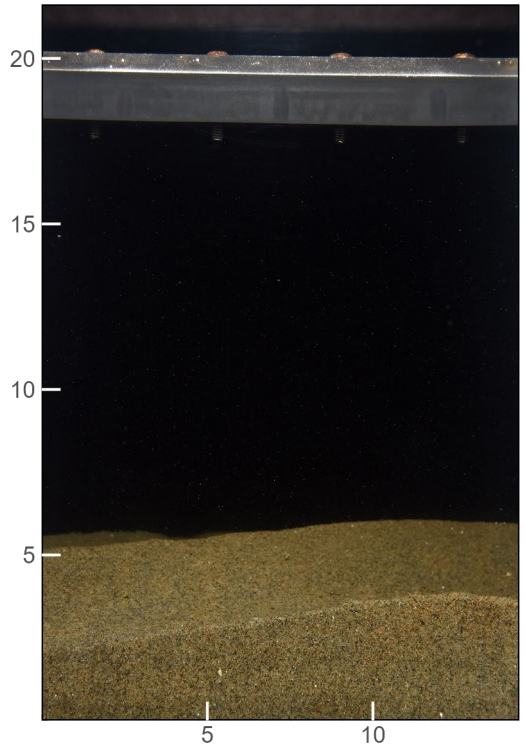
NECCT-SP-545-B



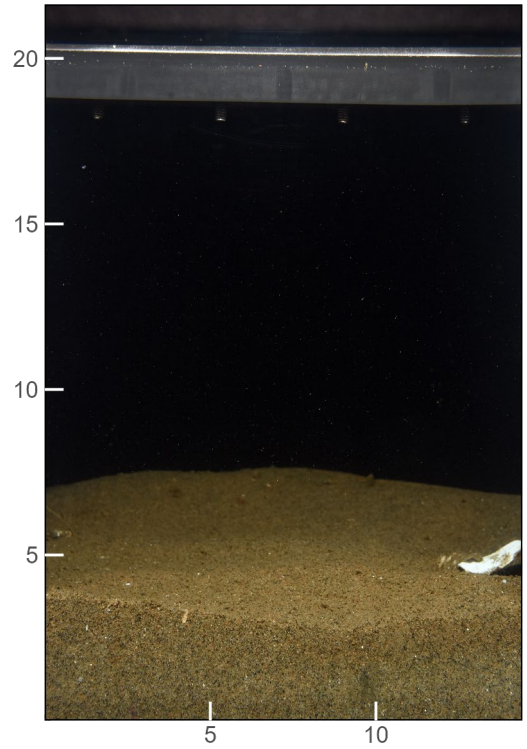
NECCT-SP-545-D



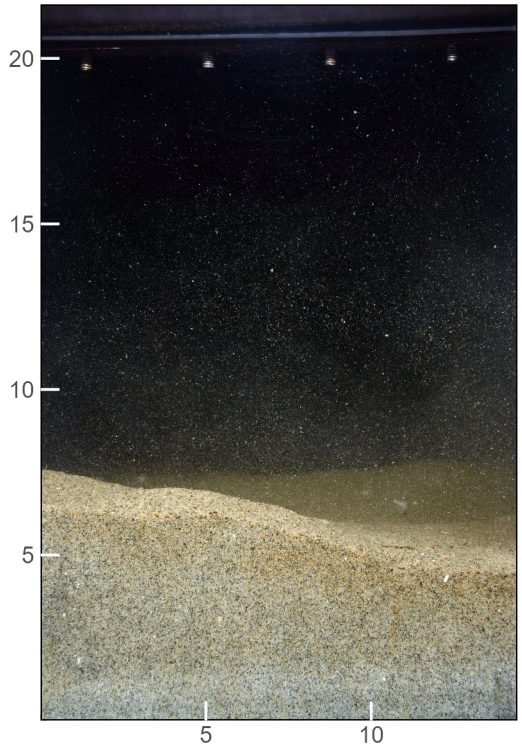
NECCT-SP-546-A



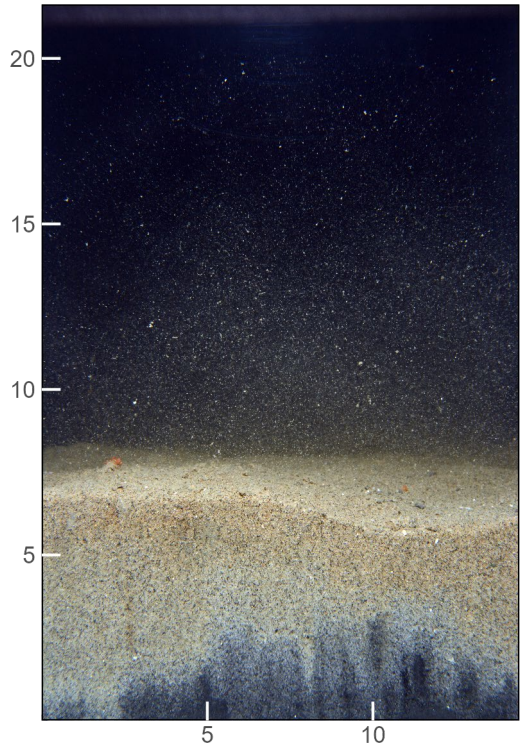
NECCT-SP-546-D



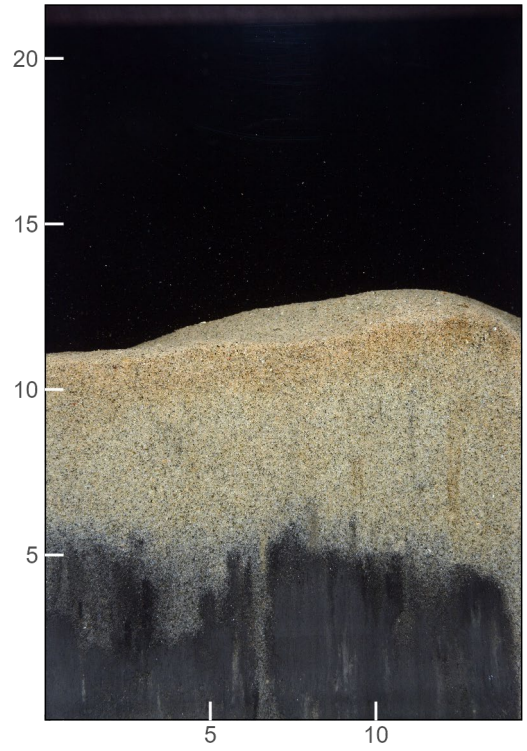
NECCT-SP-546-E



NECCT-SP-547-B



NECCT-SP-547-C



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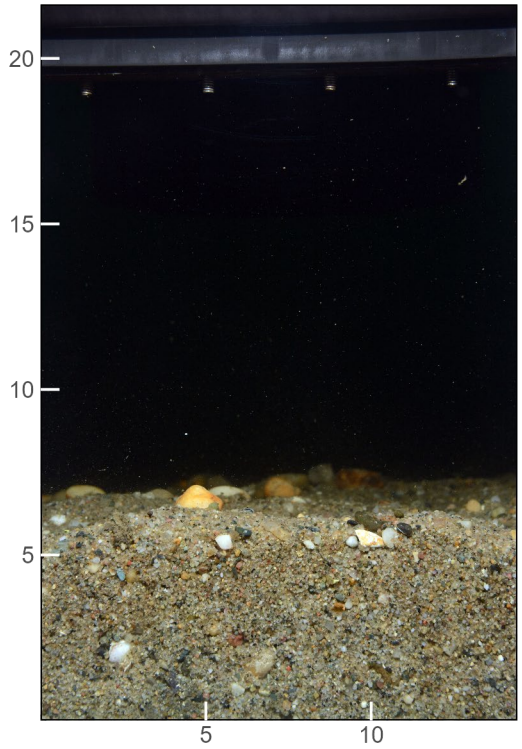

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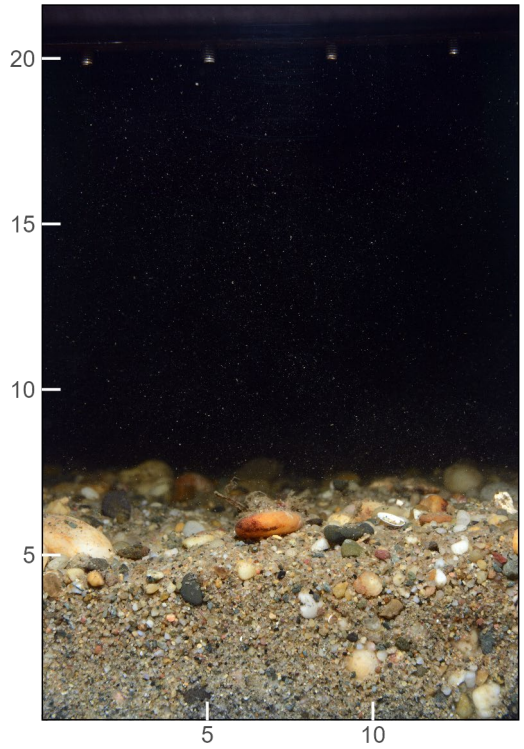

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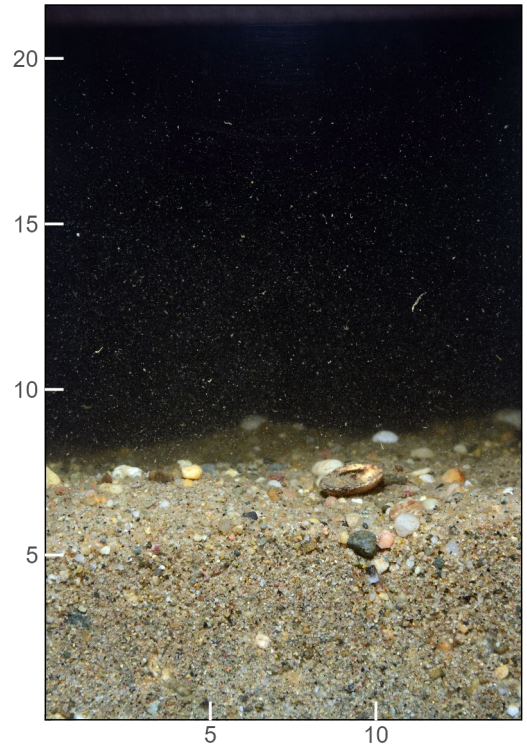

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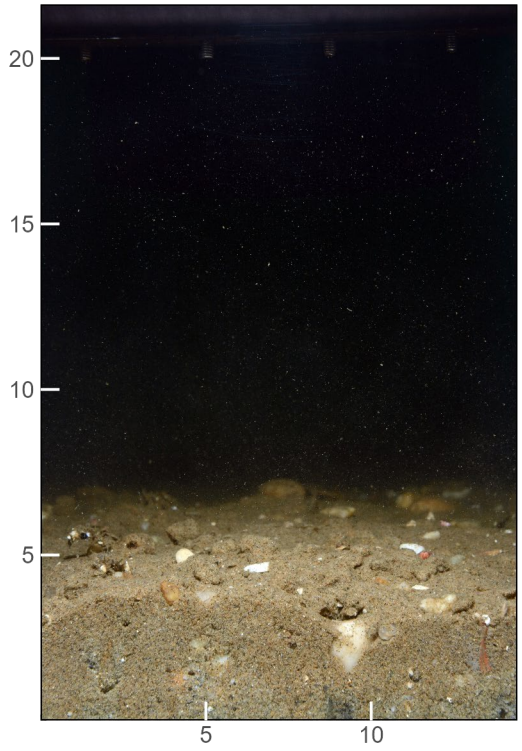

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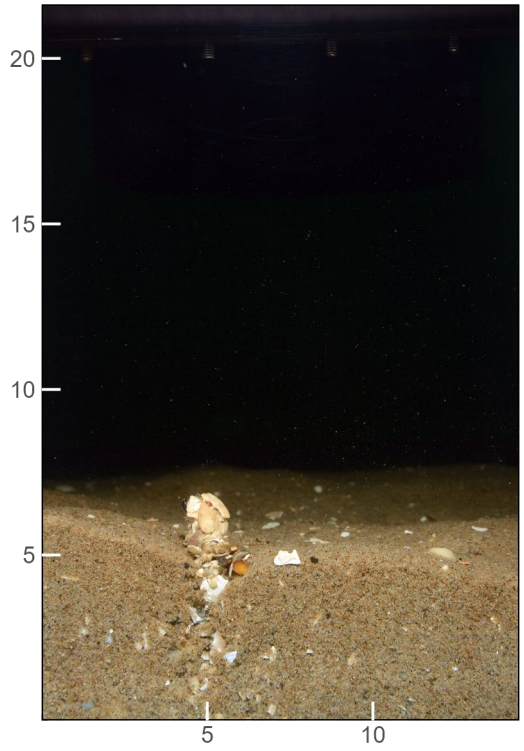

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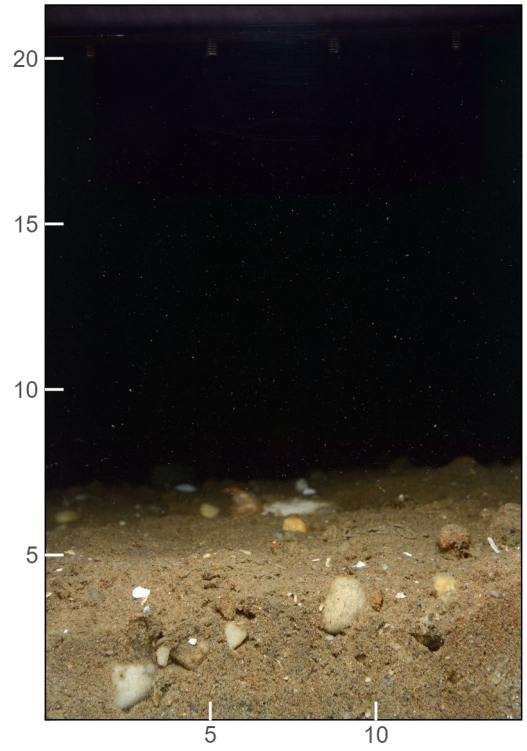

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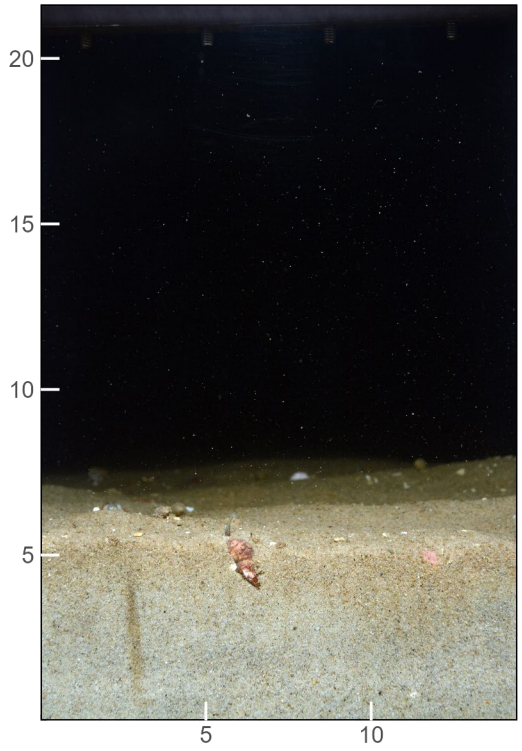

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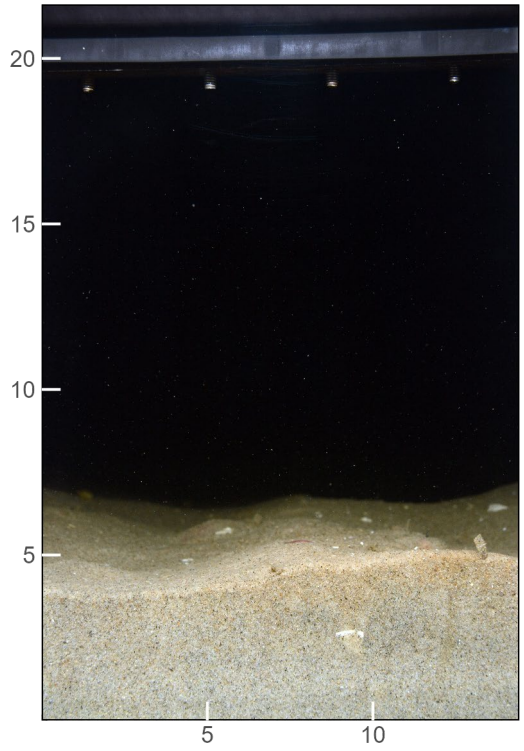

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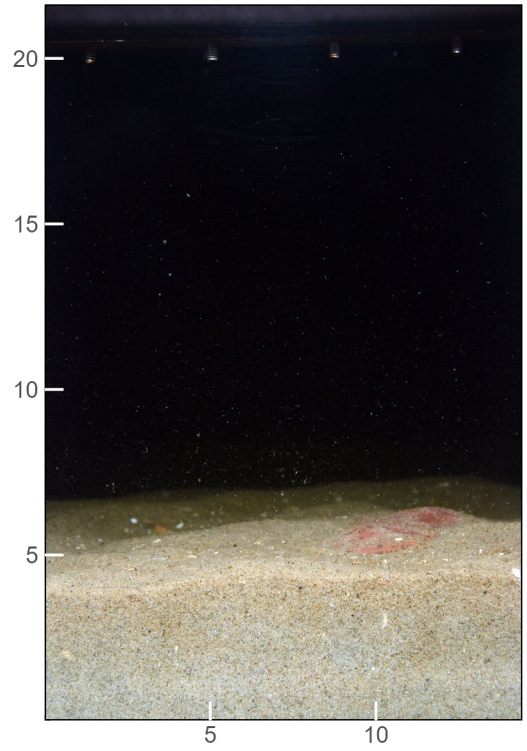

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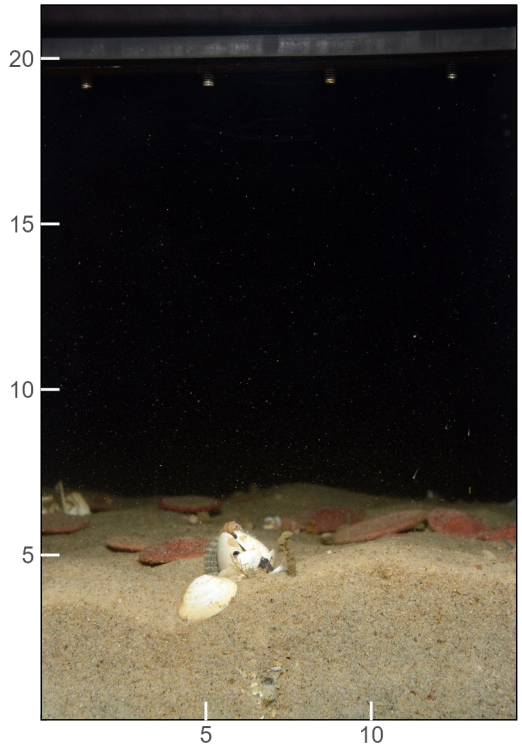

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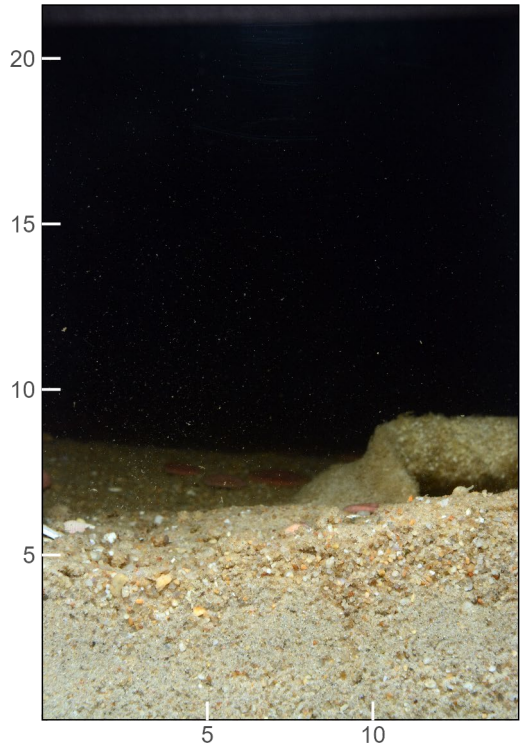

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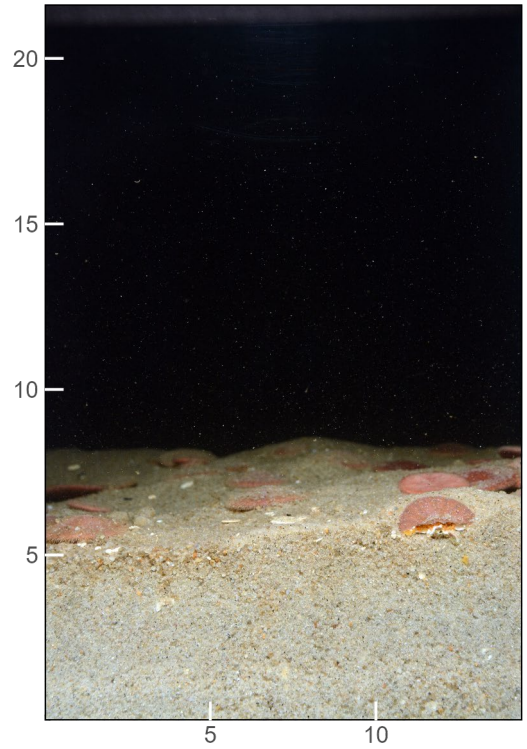

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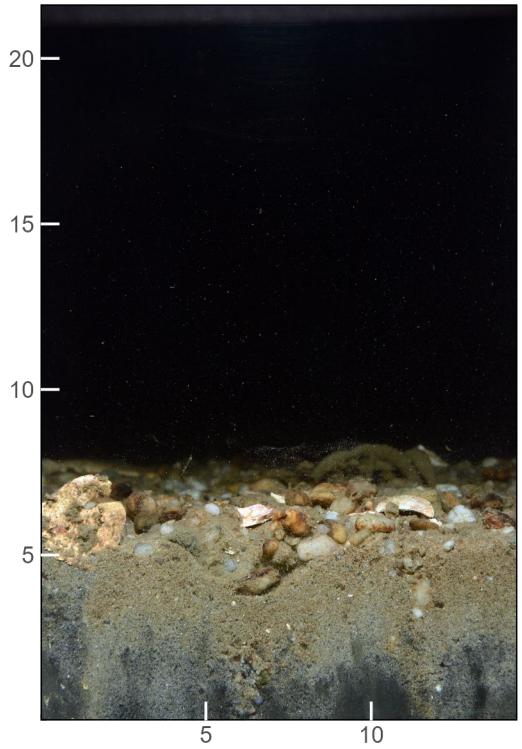

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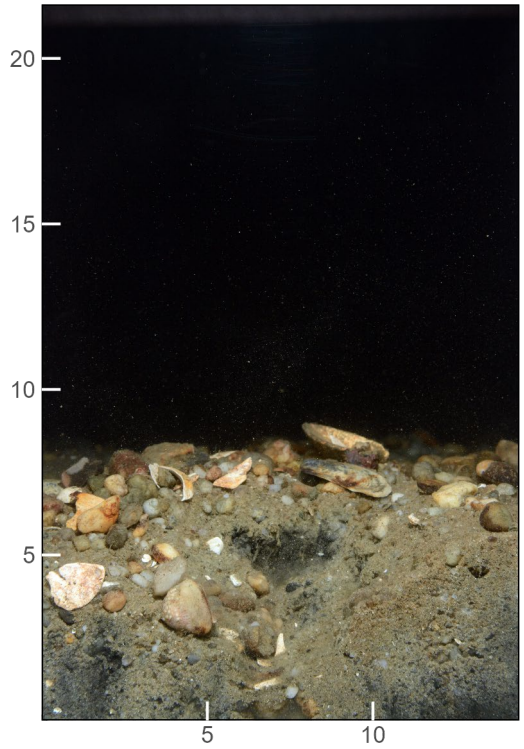

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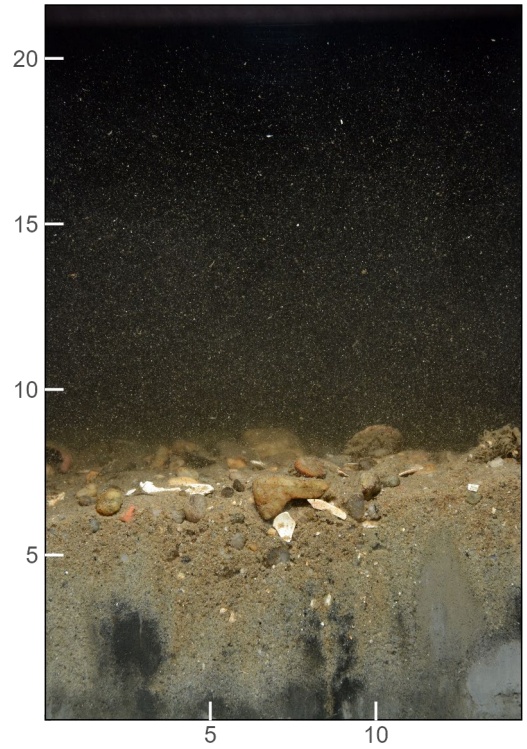

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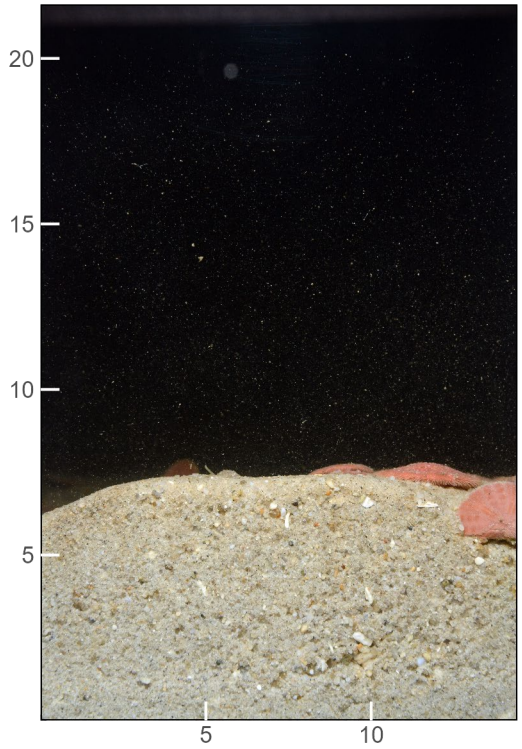
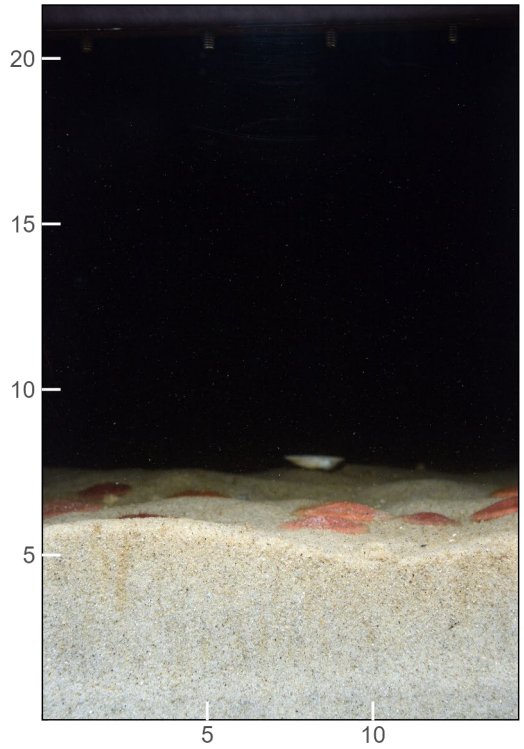
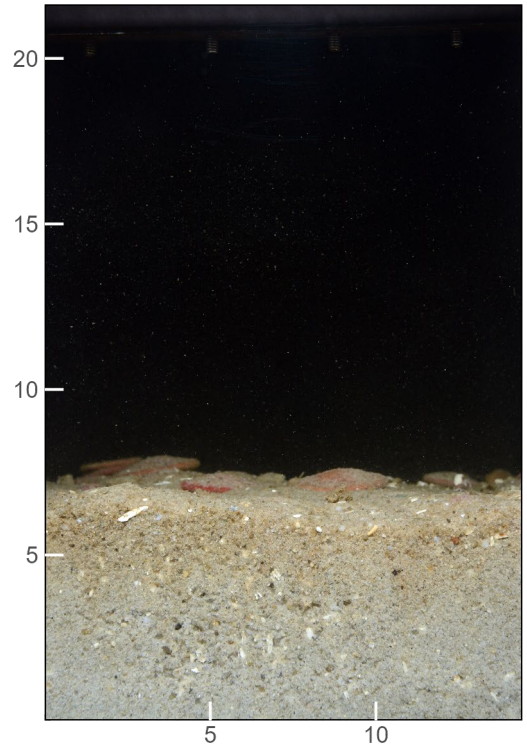


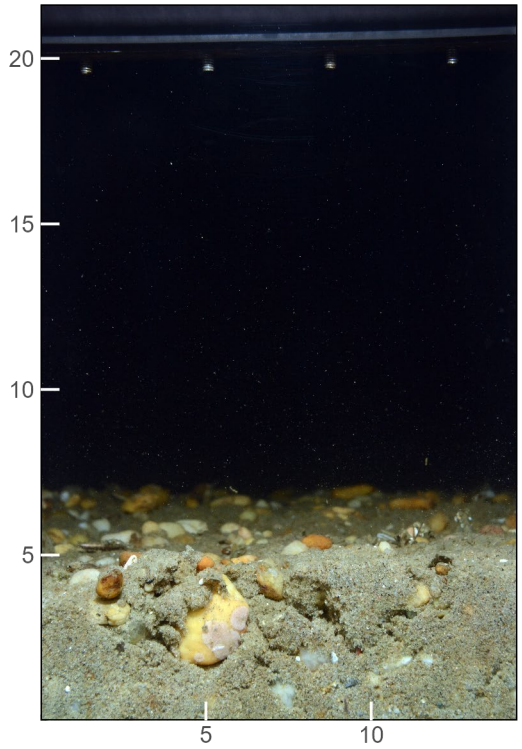
NECCT-SP-560-B



NECCT-SP-560-C



NECCT-SP-560-D



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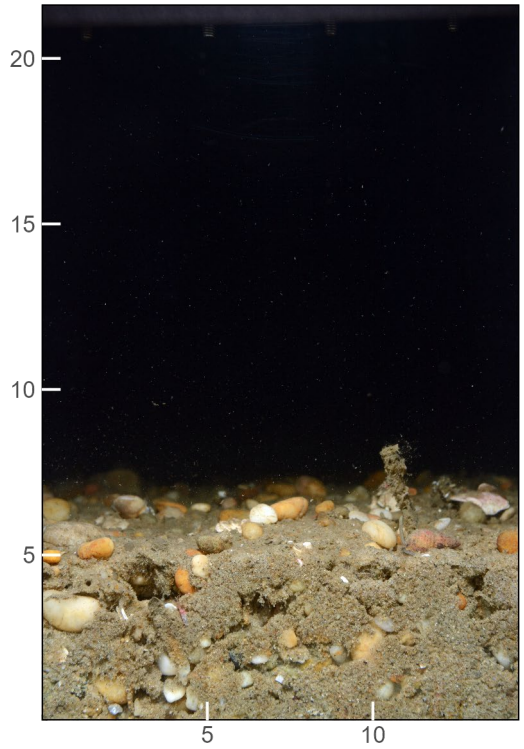

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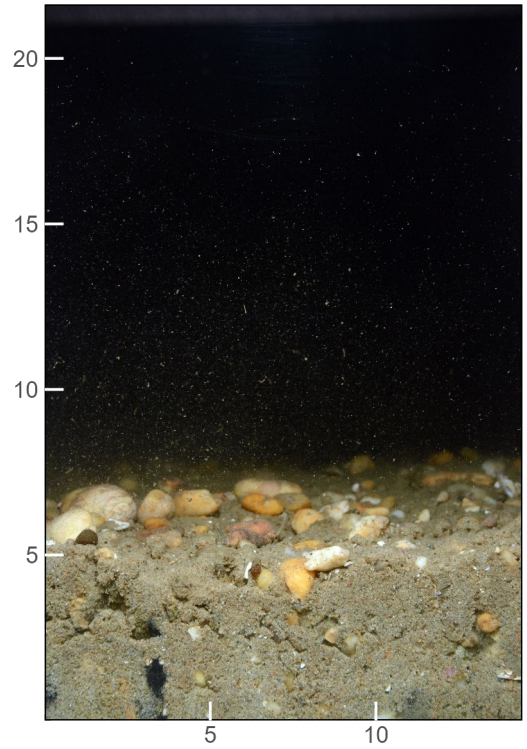

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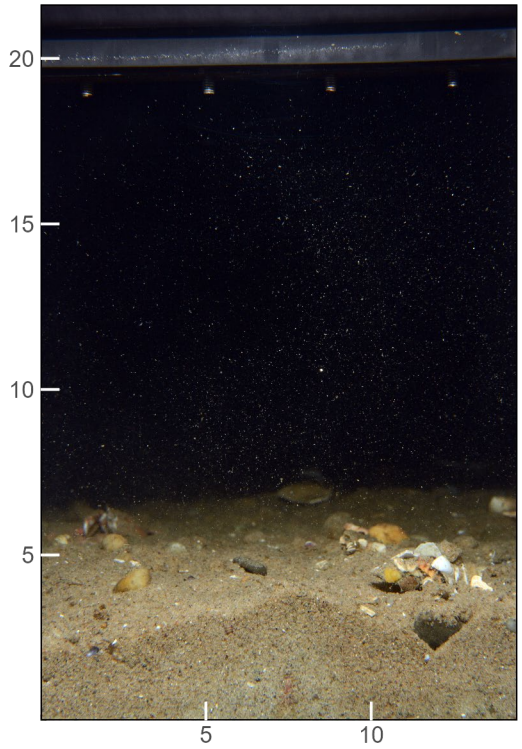

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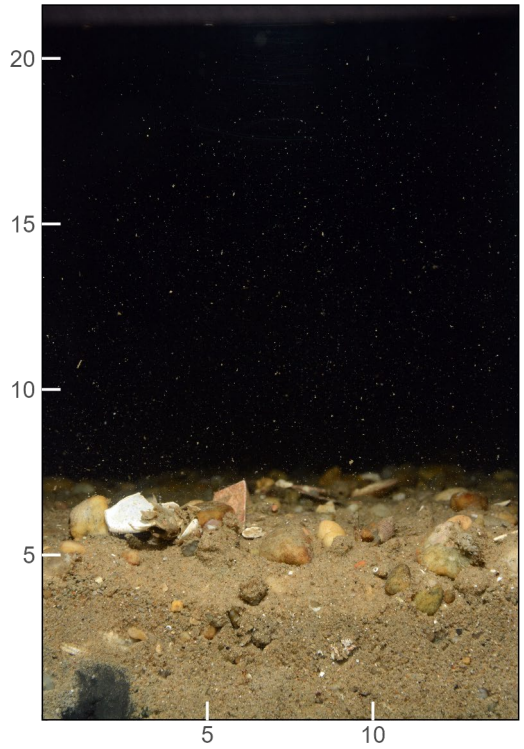

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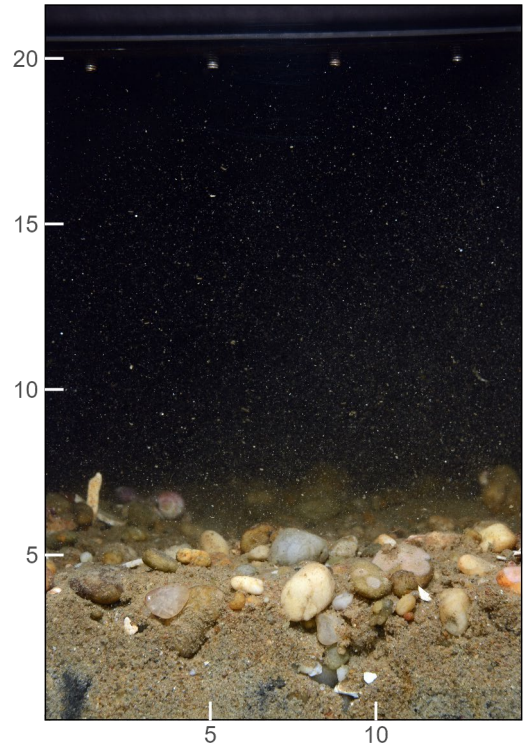

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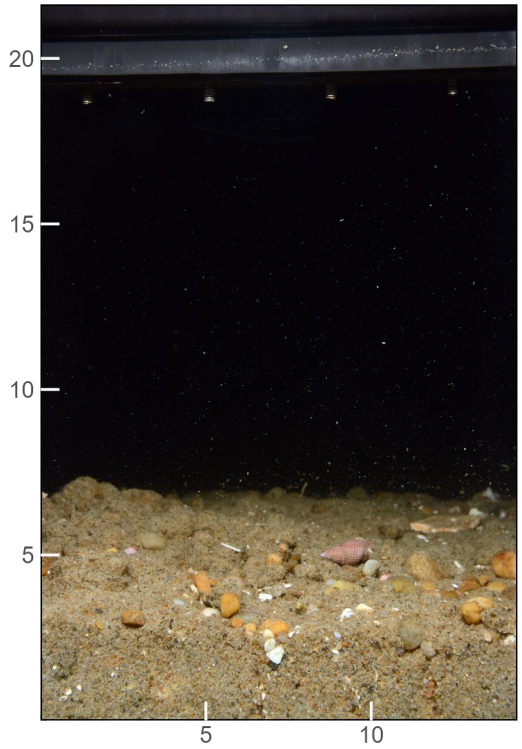
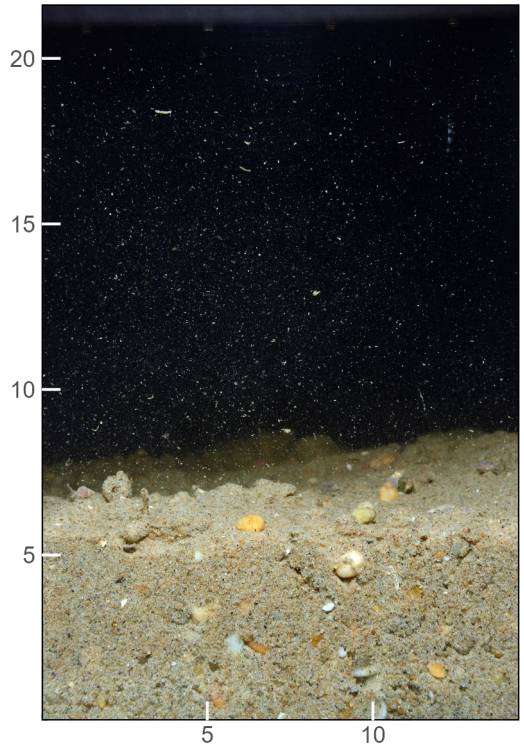


NECCT-SPG-569-A



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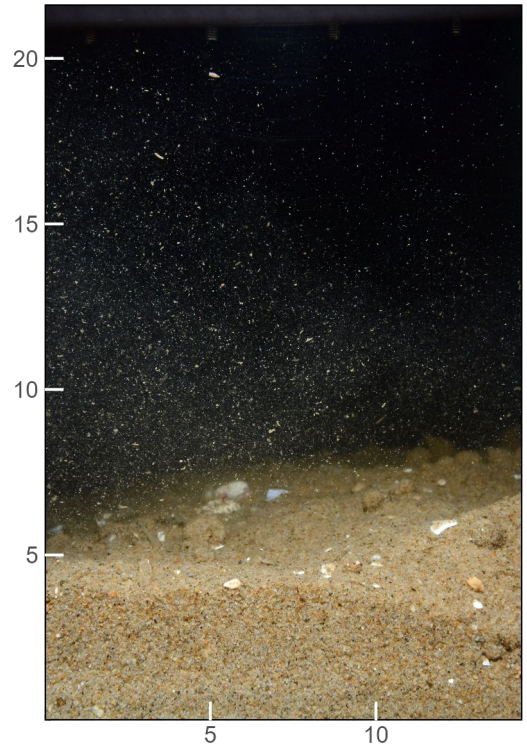

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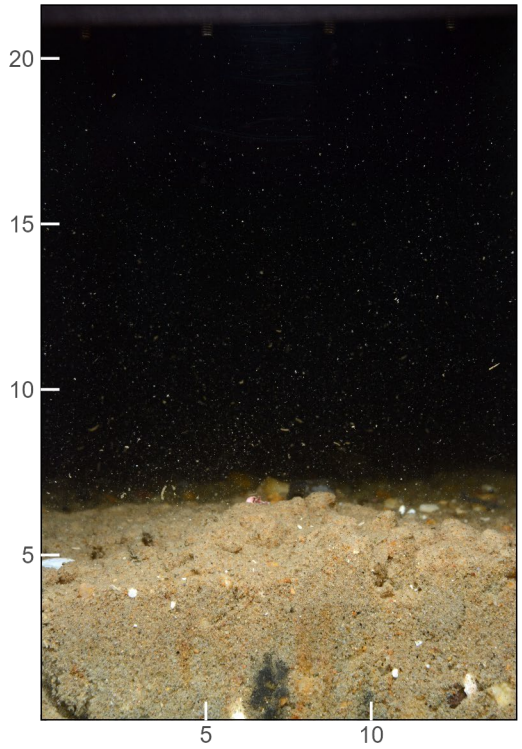
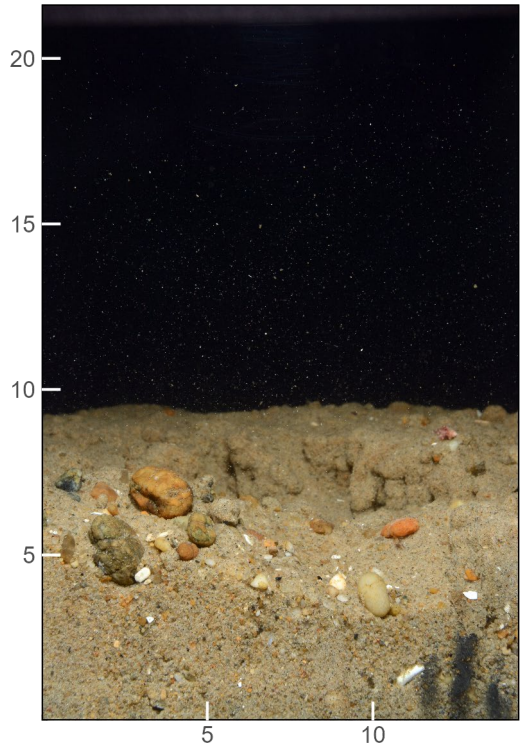


NECCT-SP-572-B



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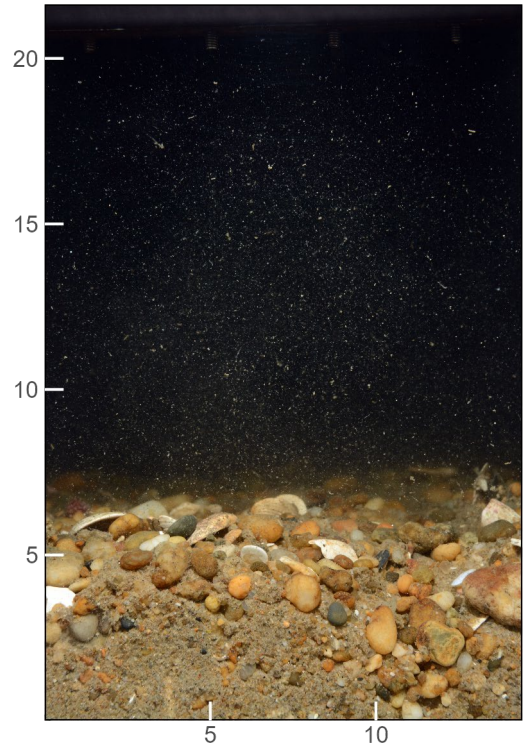

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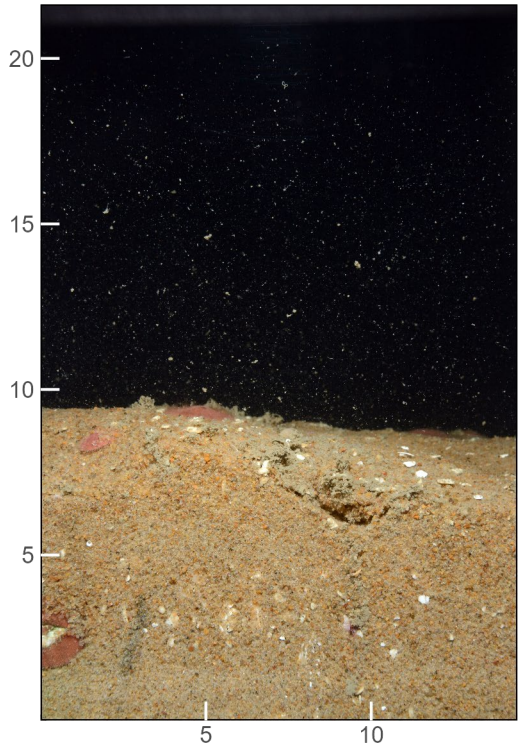

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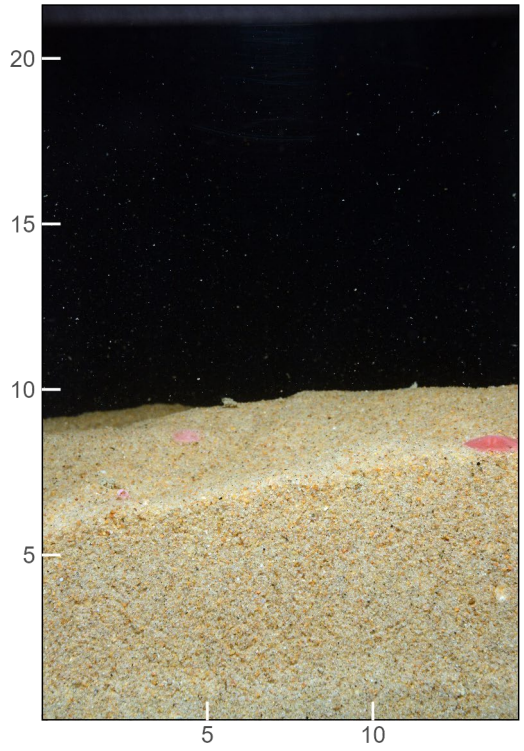

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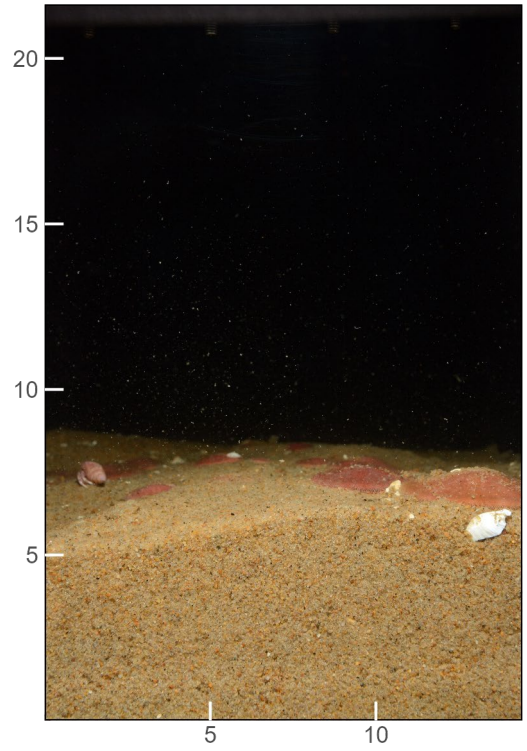
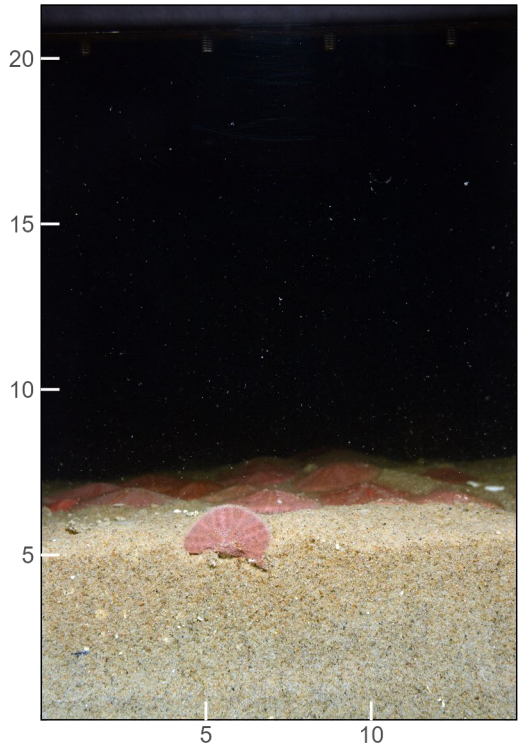


NECCT-SP-573-D



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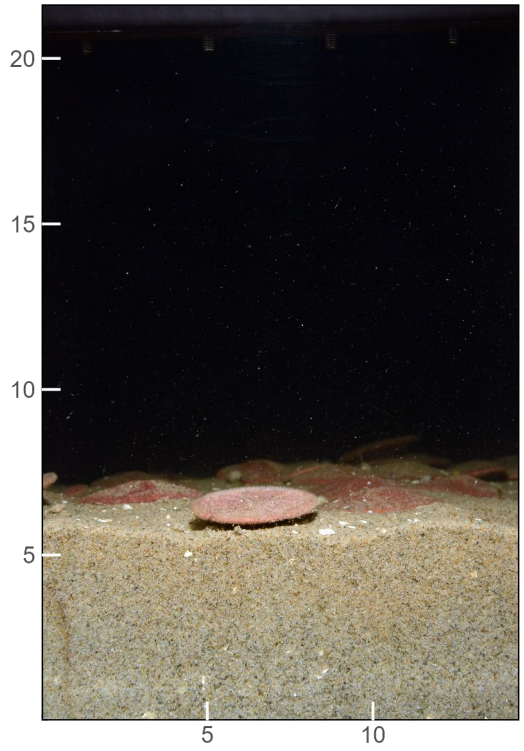

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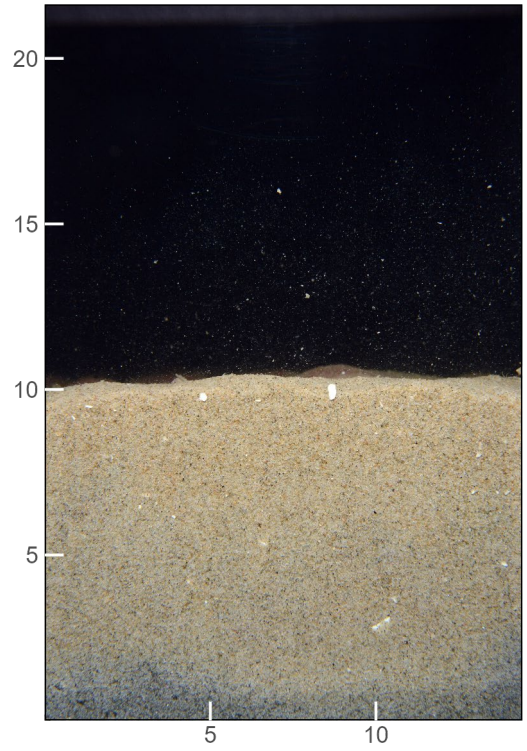

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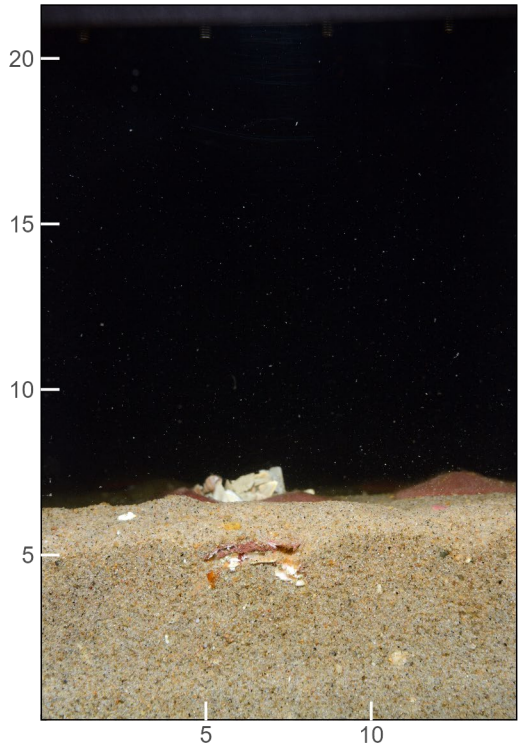

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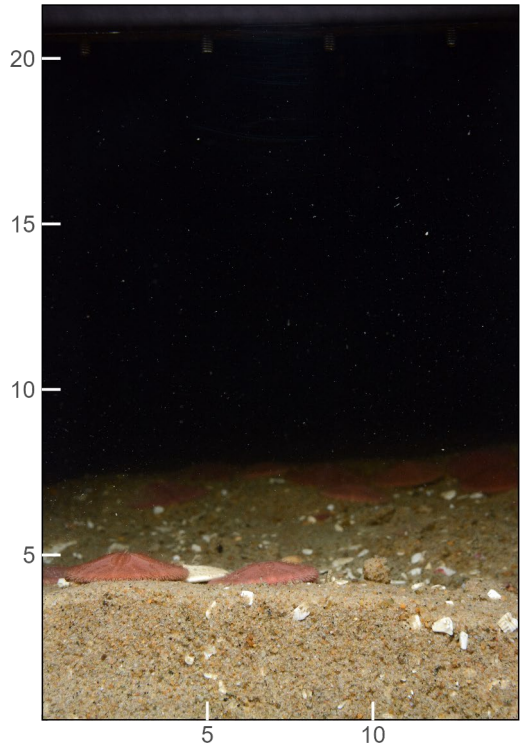

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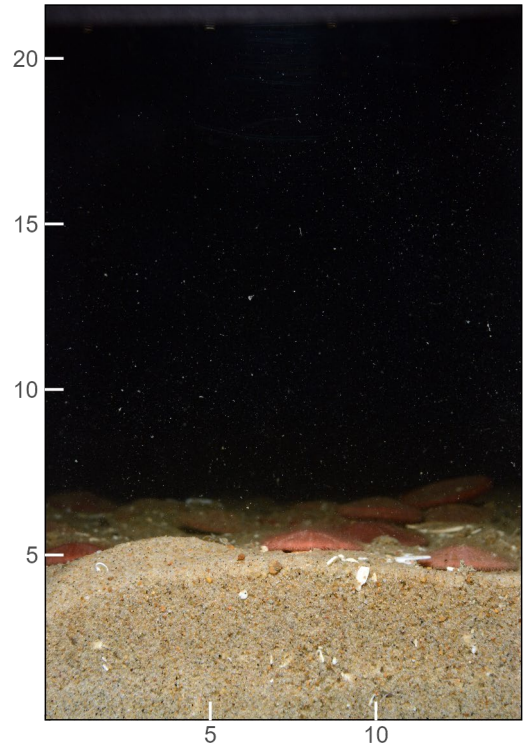

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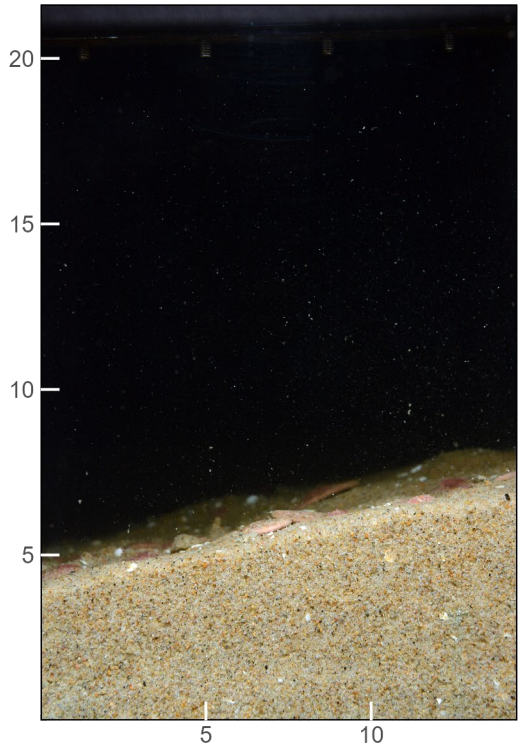

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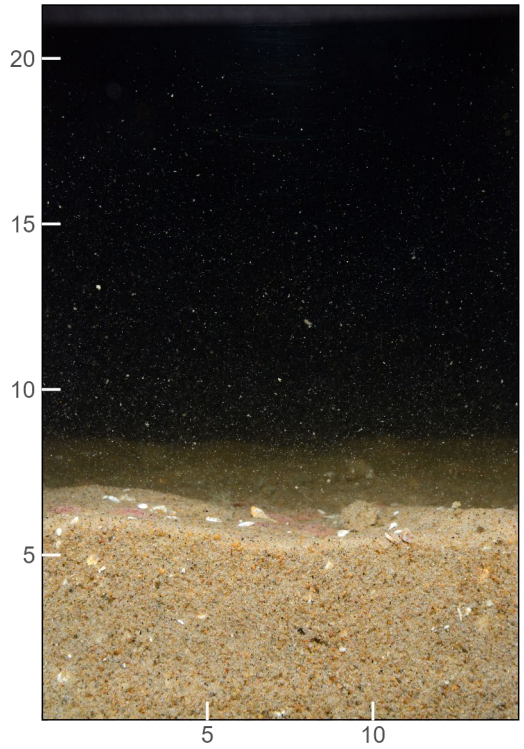

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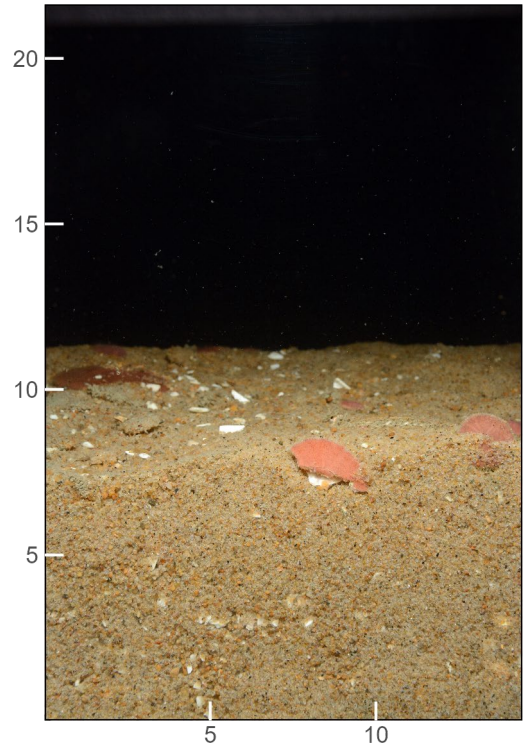
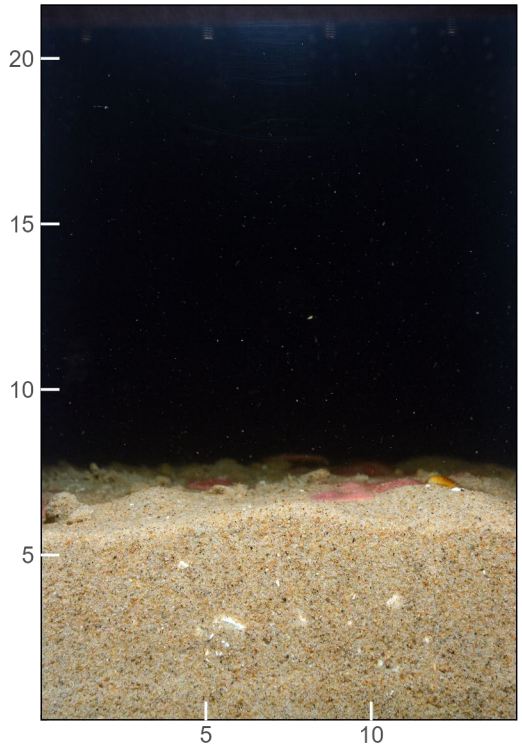
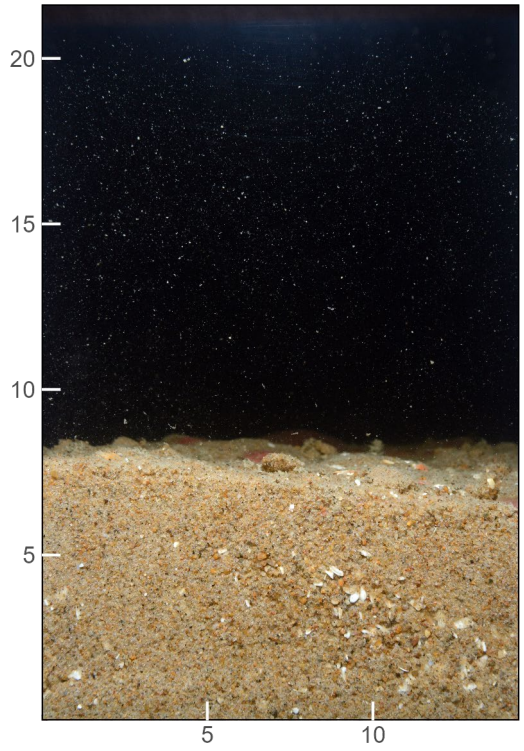


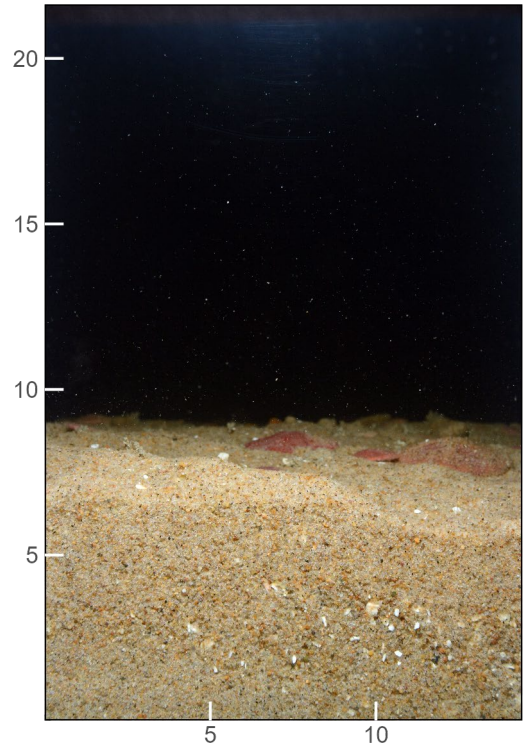
NECCT-SP-576-D



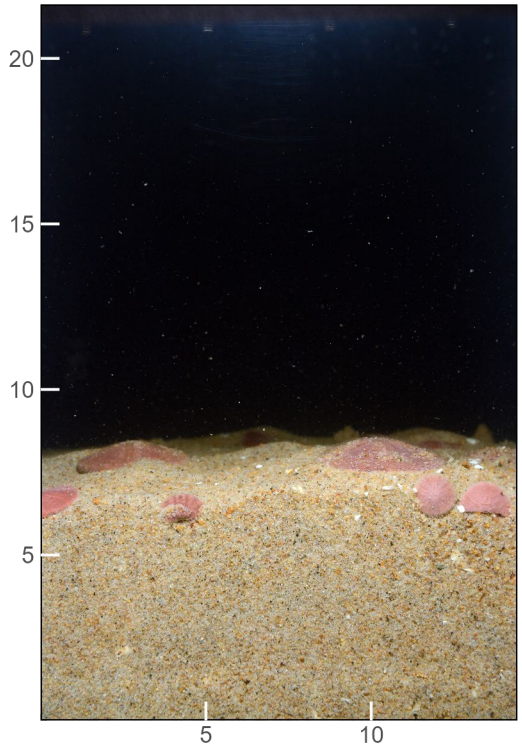
NECCT-SP-577-A



NECCT-SP-577-C



NECCT-SP-577-D



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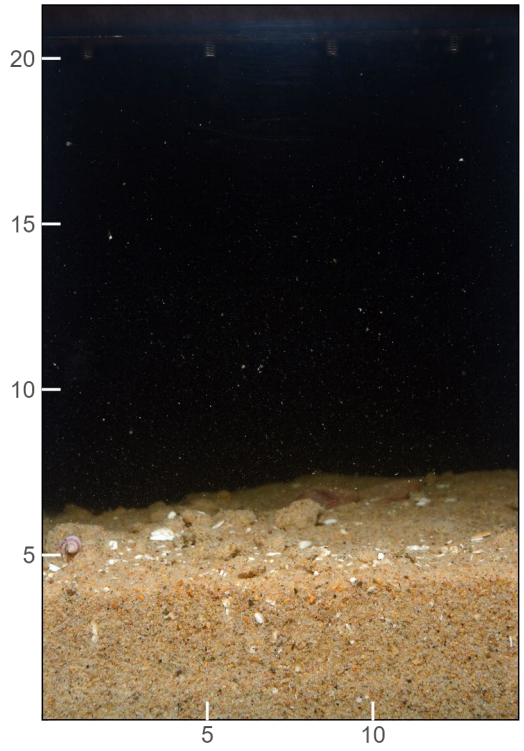

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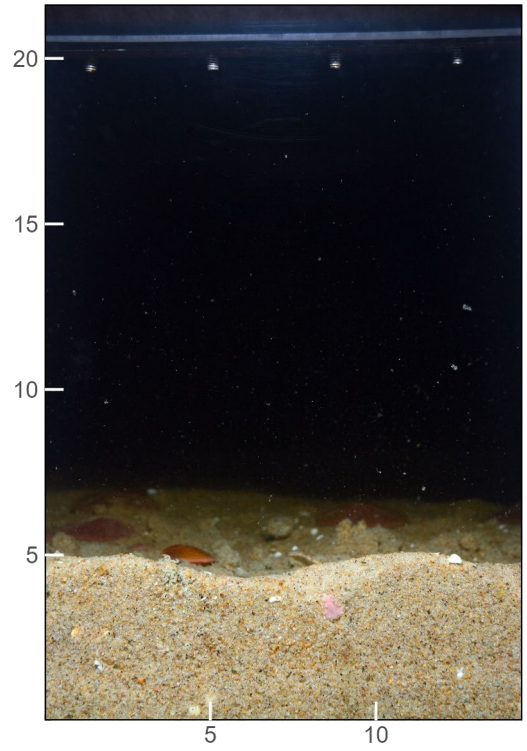

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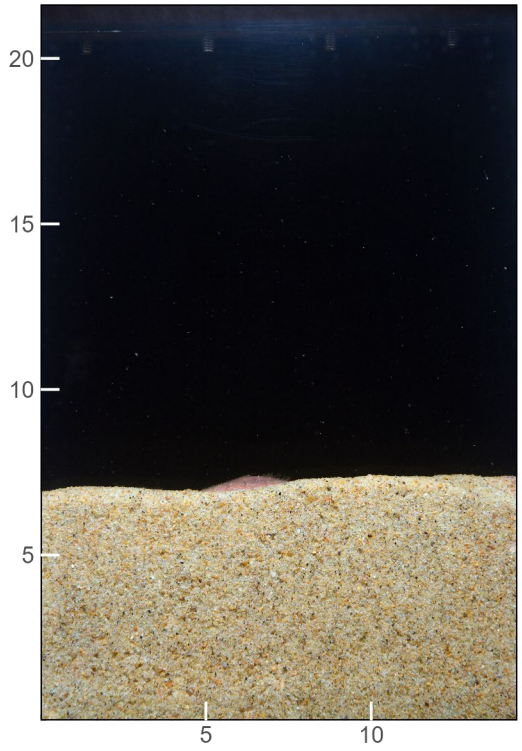
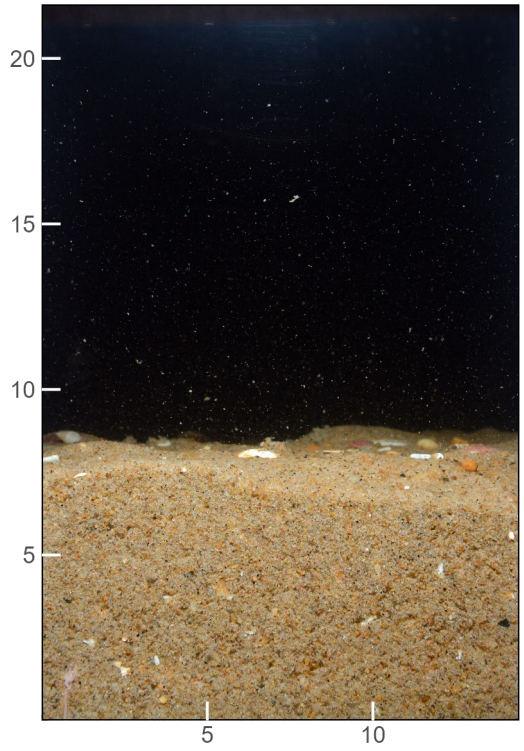
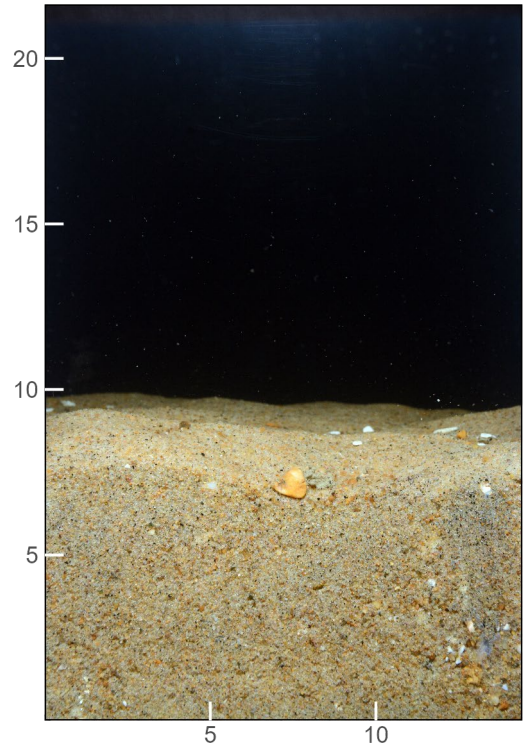


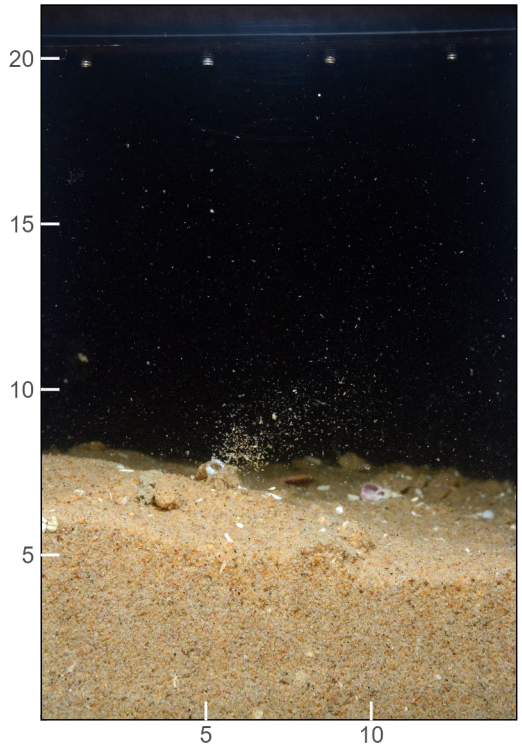
NECCT-SP-579-B



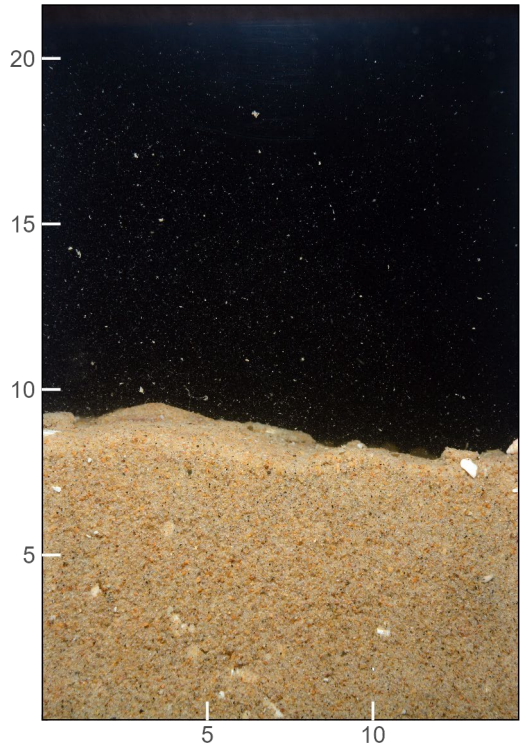
NECCT-SP-579-D



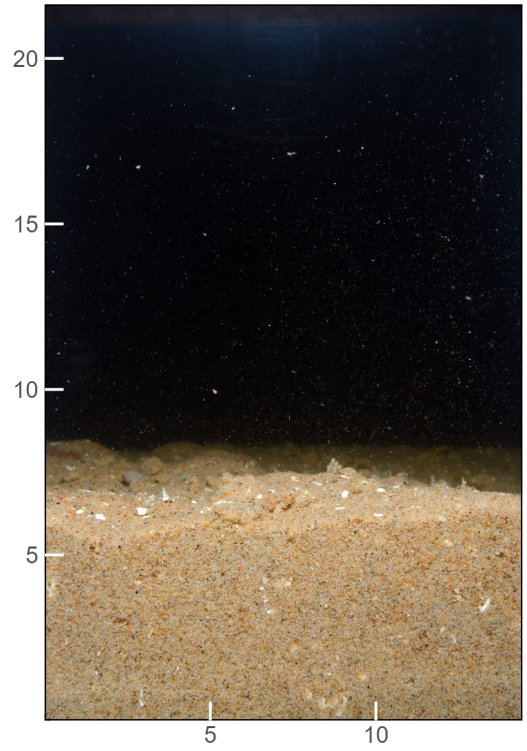
NECCT-SP-579-E



NECCT-SP-580-A



NECCT-SP-580-C



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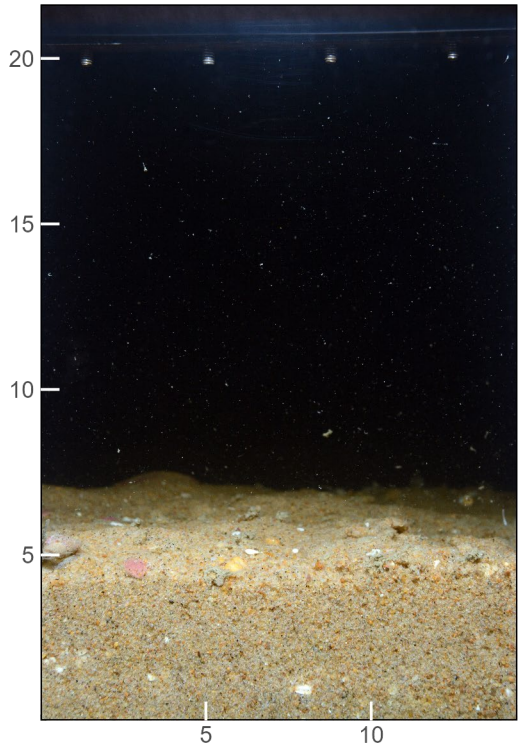
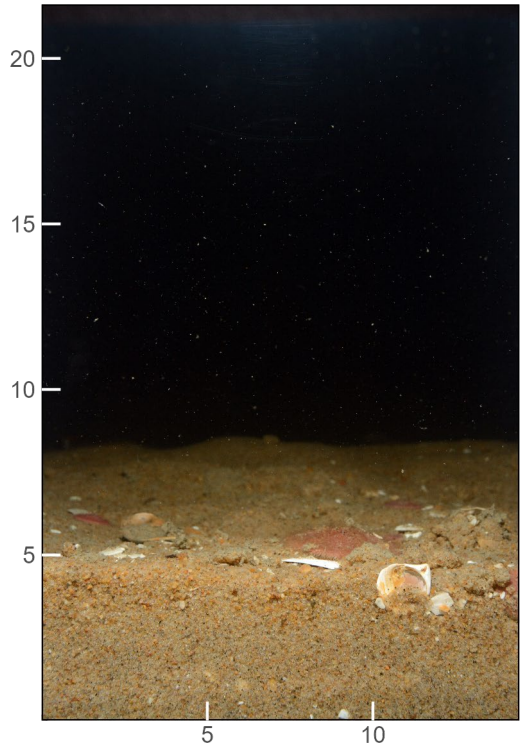


NECCT-SP-581-B



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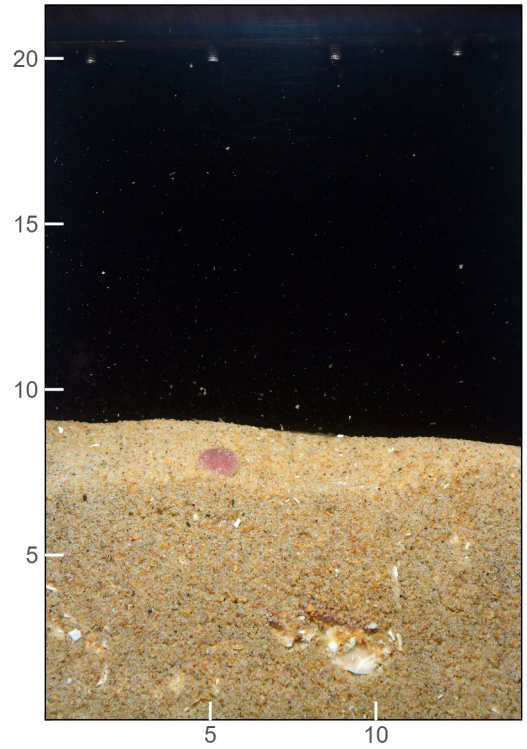

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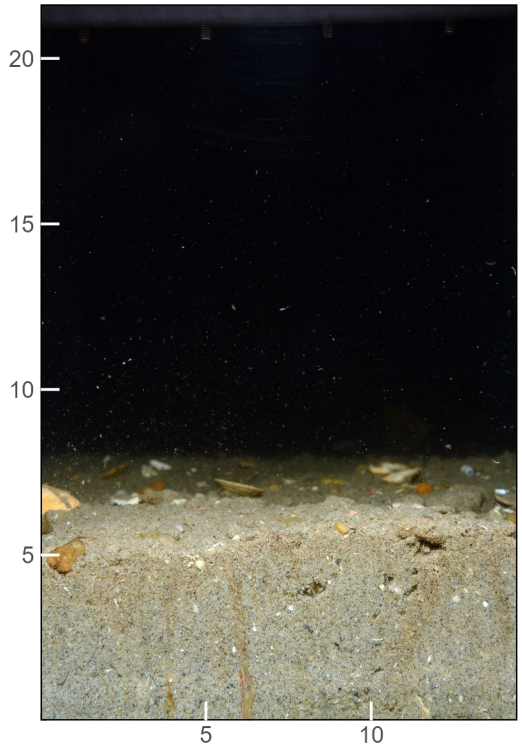
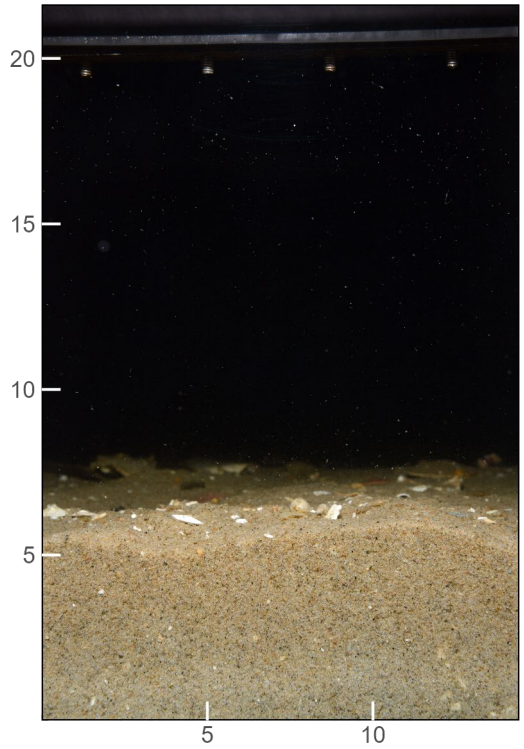


NECCT-SP-582-C



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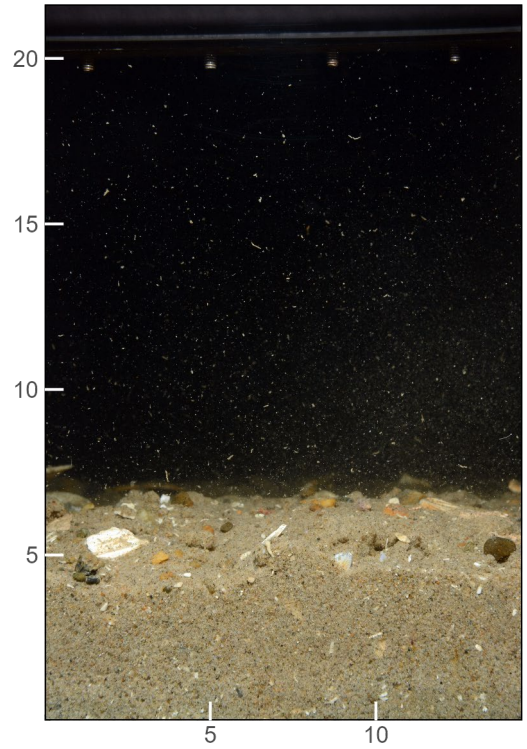

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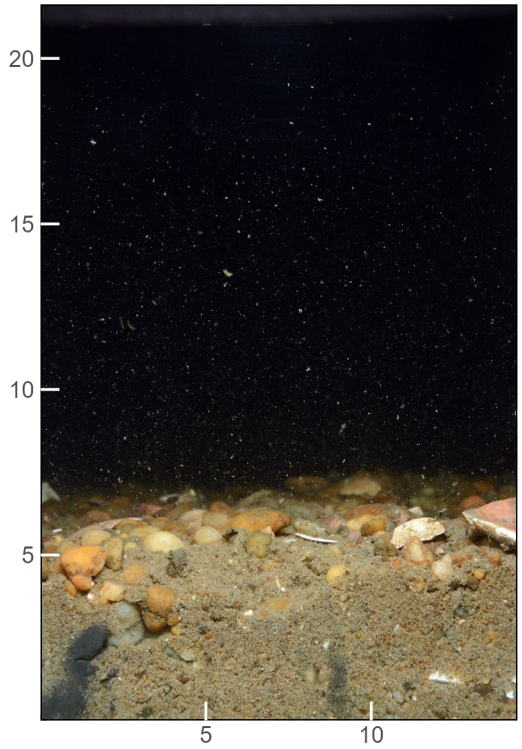
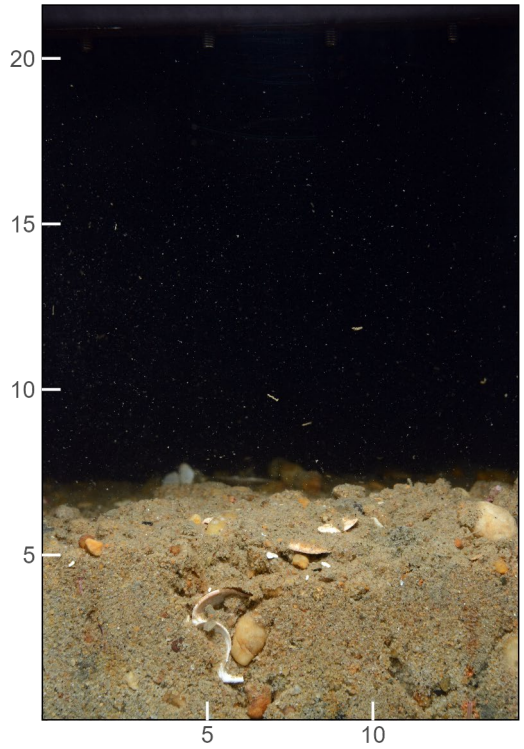
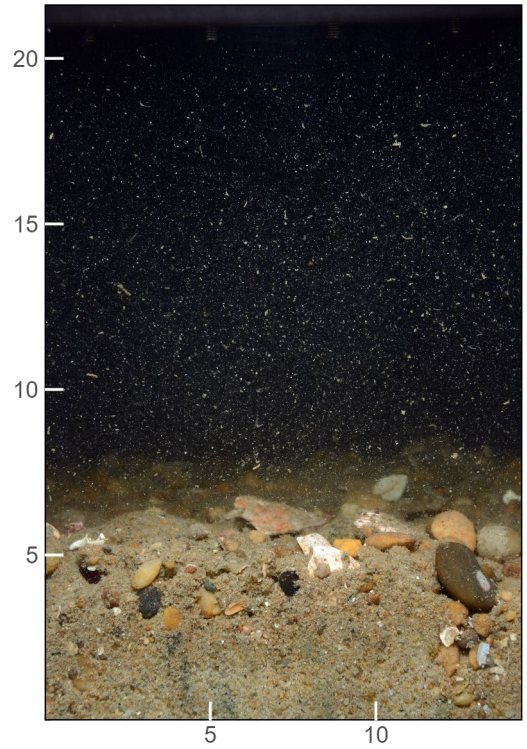


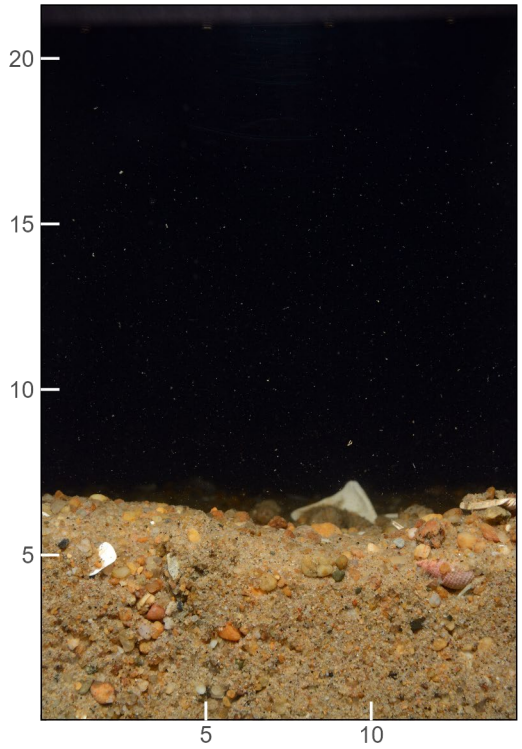
NECCT-SP-583-A



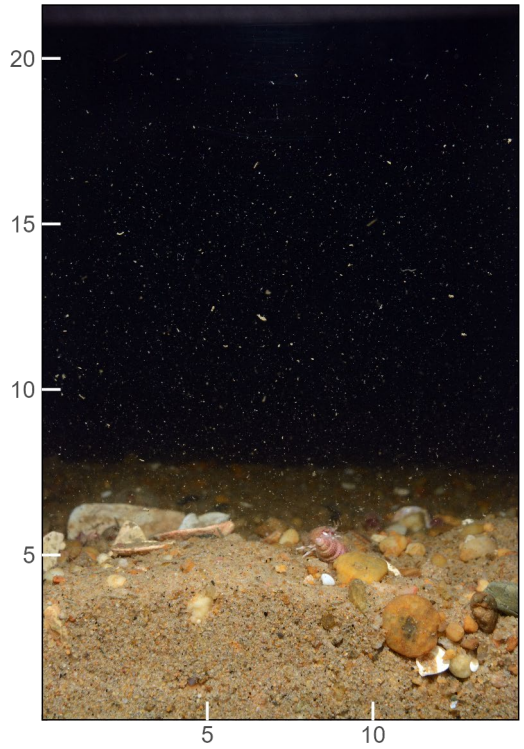
NECCT-SP-583-B



NECCT-SP-583-C



NECCT-SP-584-A



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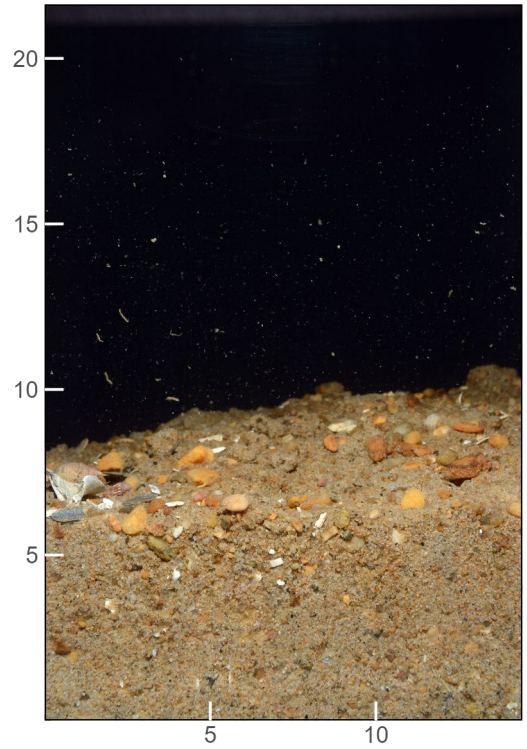

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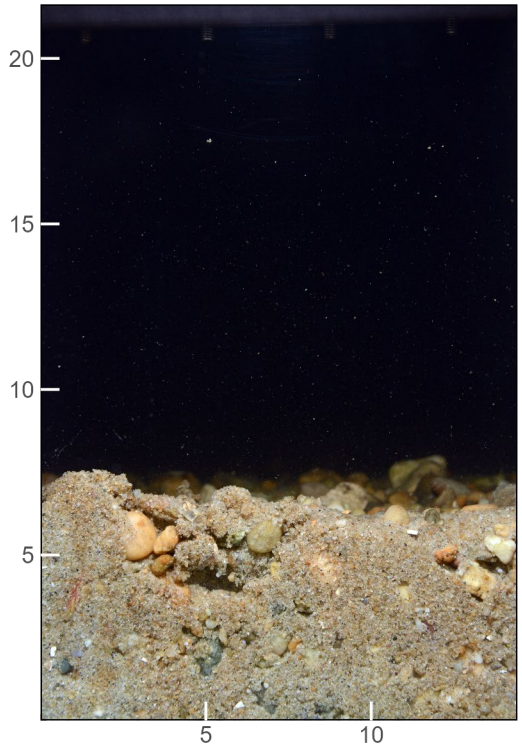
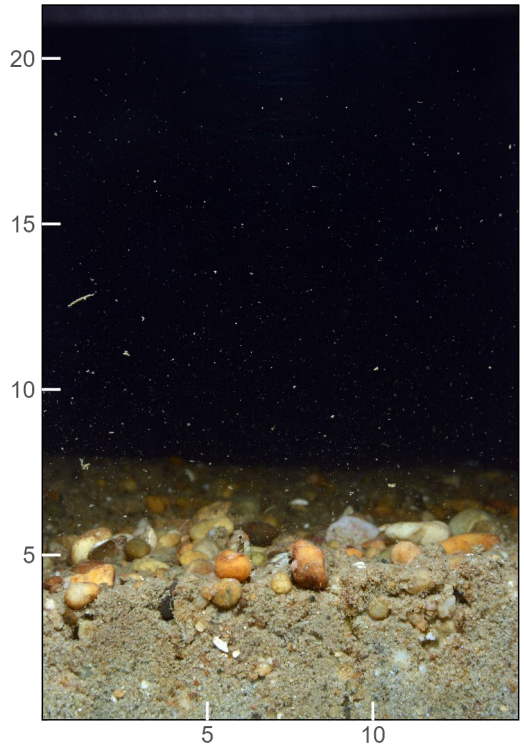


NECCT-SP-586-A



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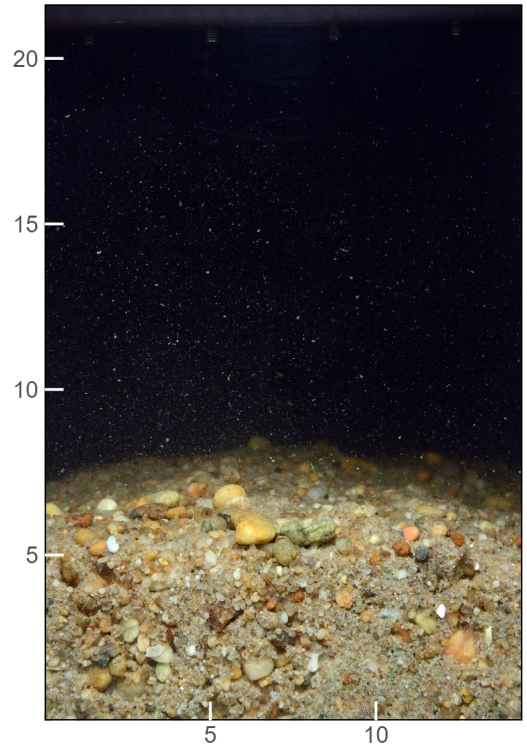

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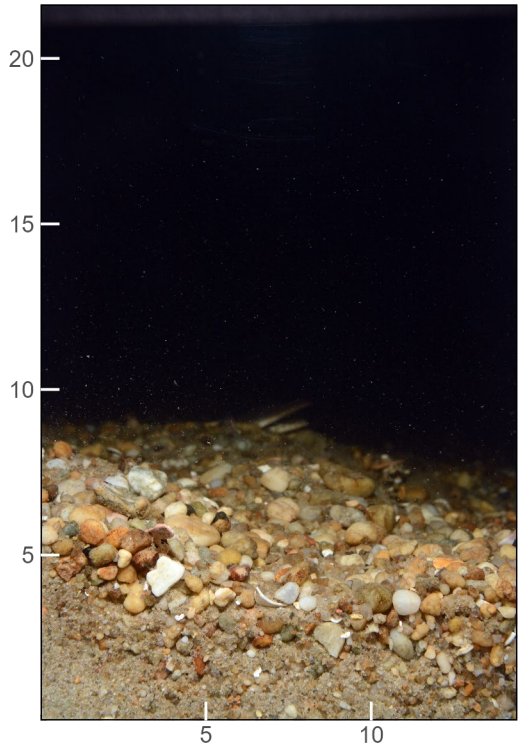

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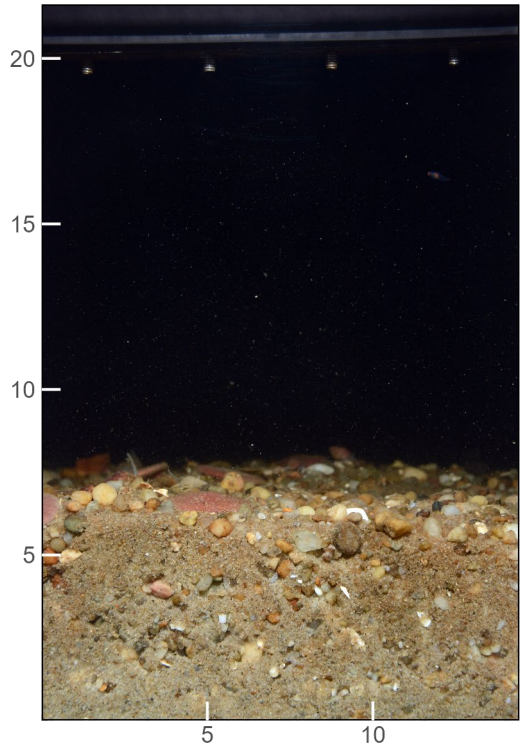

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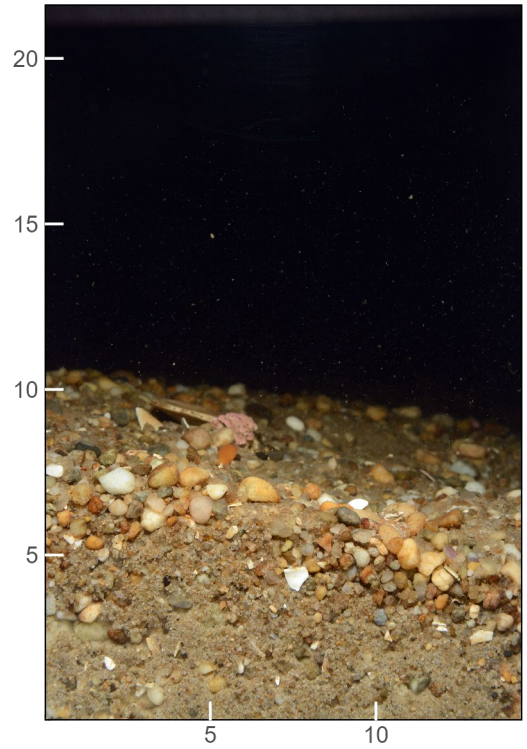

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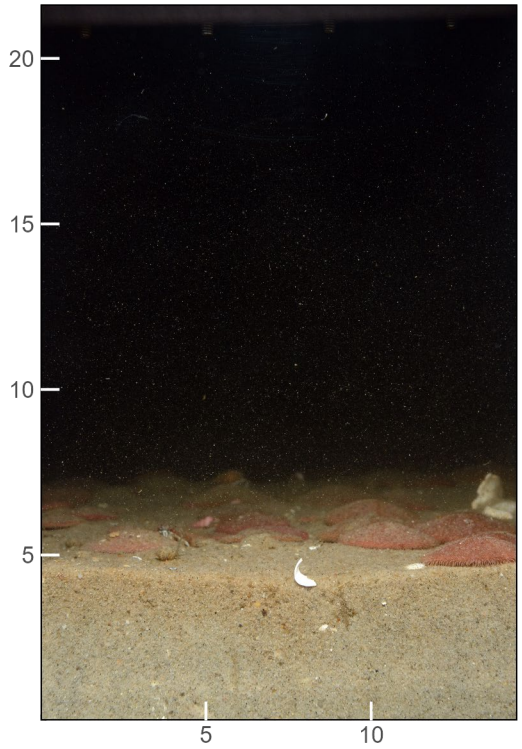
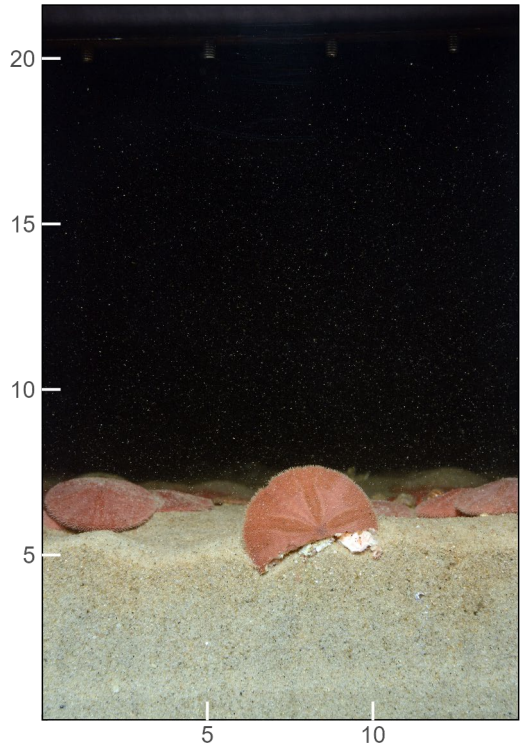


NECCT-SP-592-A



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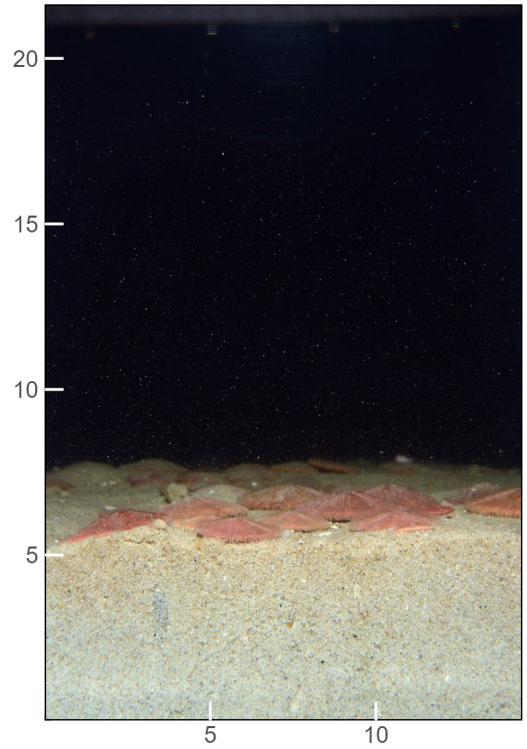

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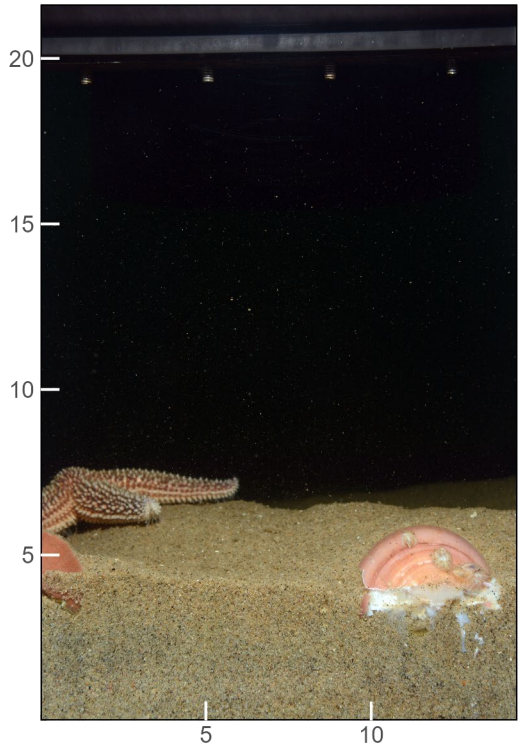

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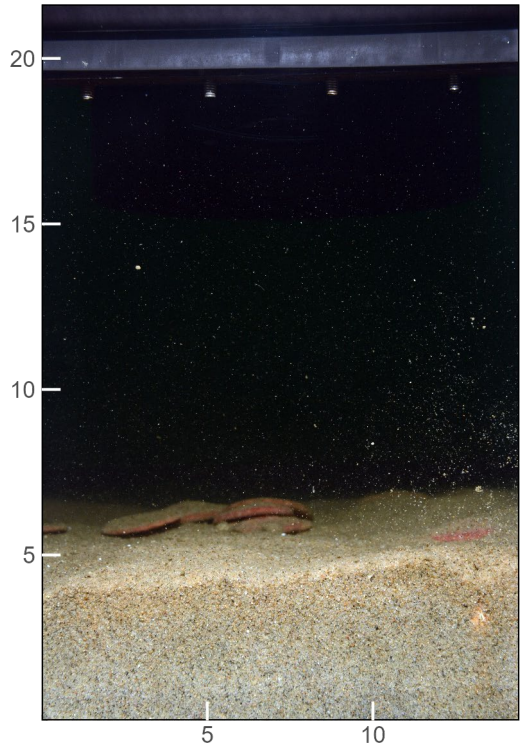

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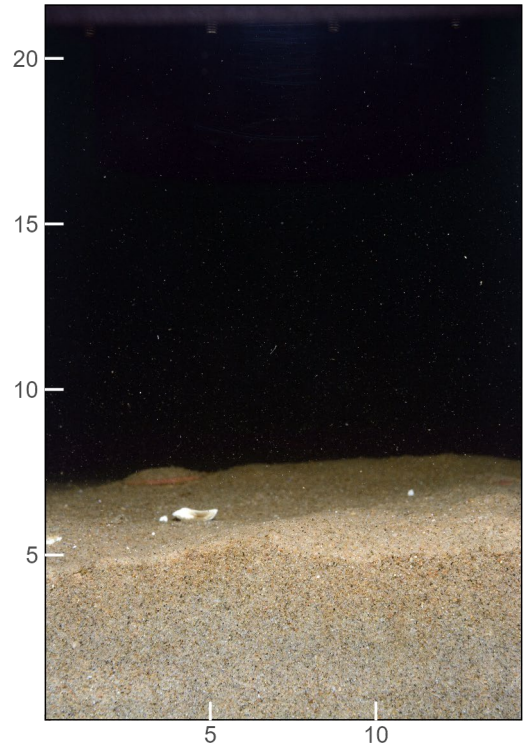

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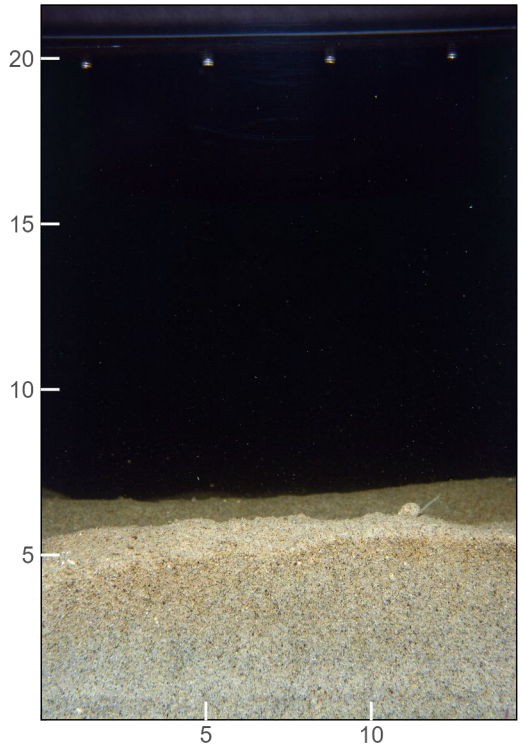

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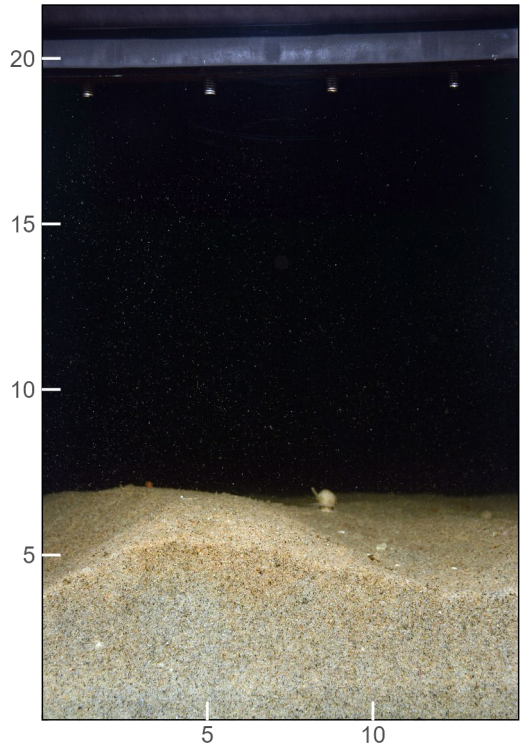

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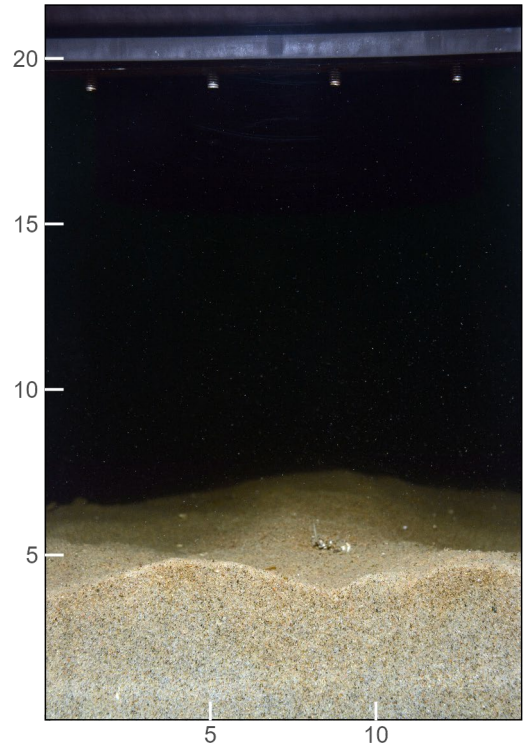
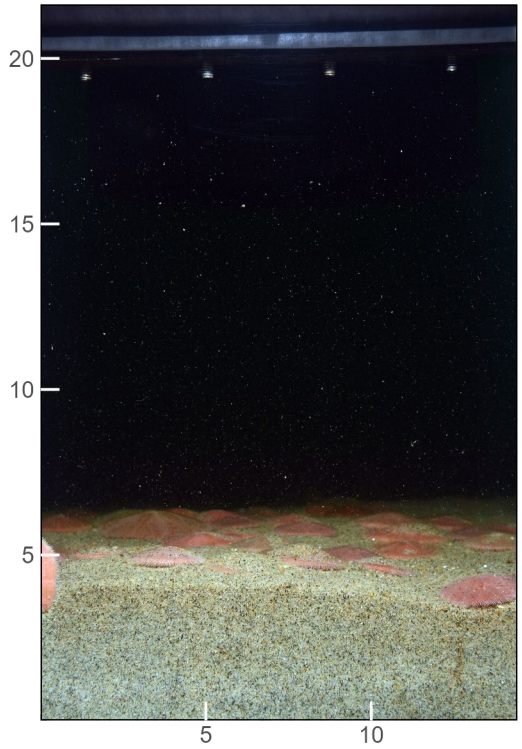
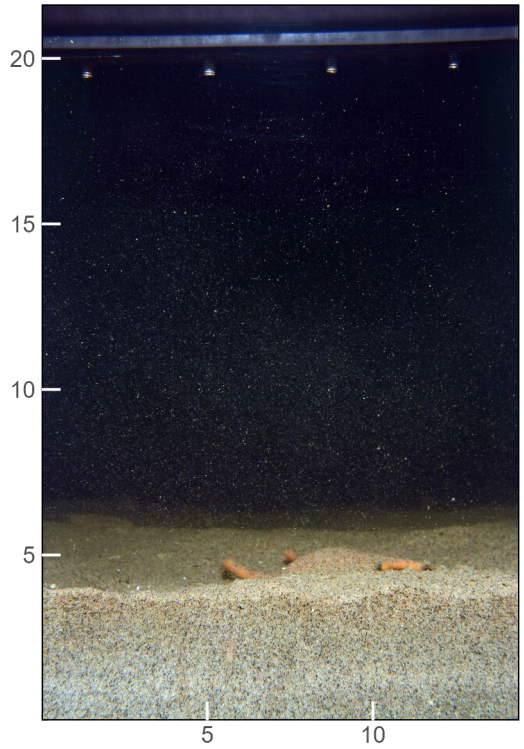


NECCT-SP-597-D



NECCT-SP-598-B



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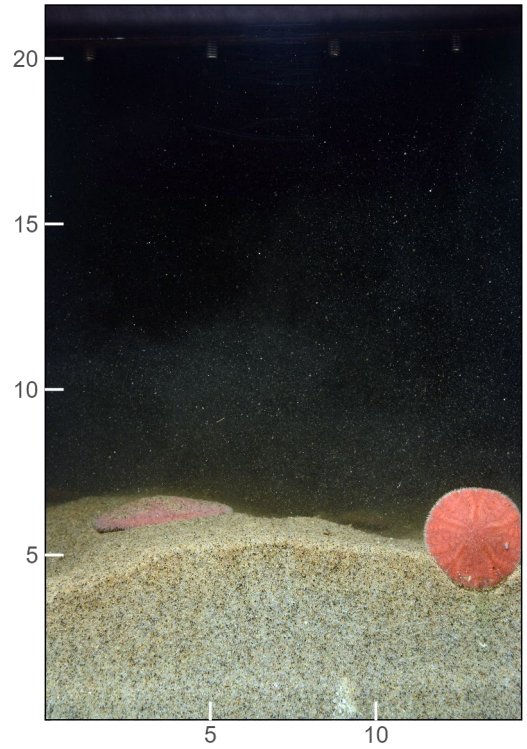

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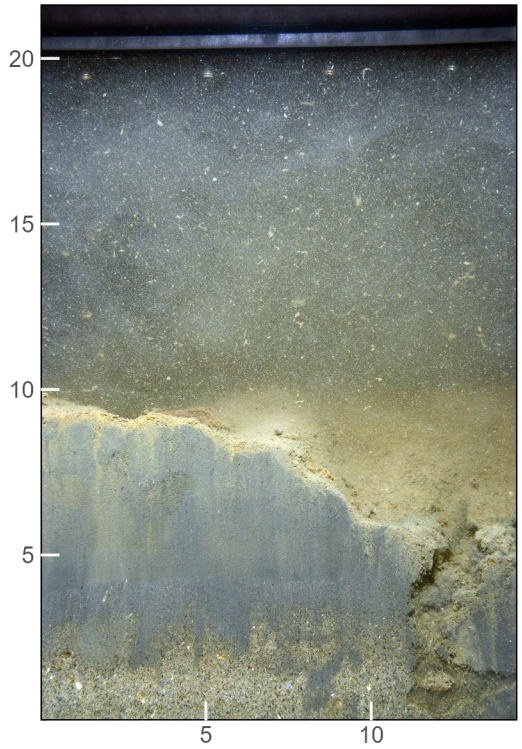

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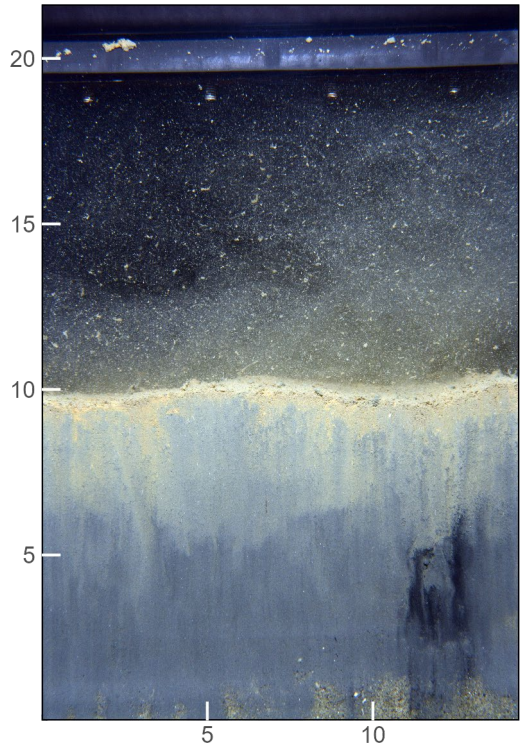

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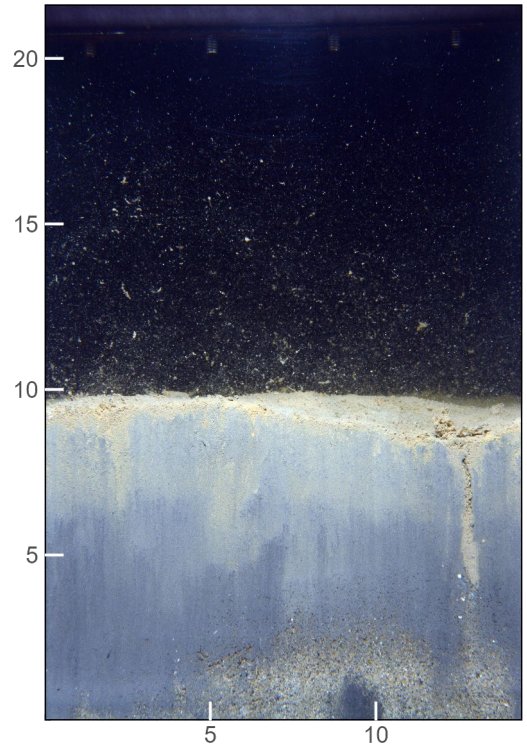

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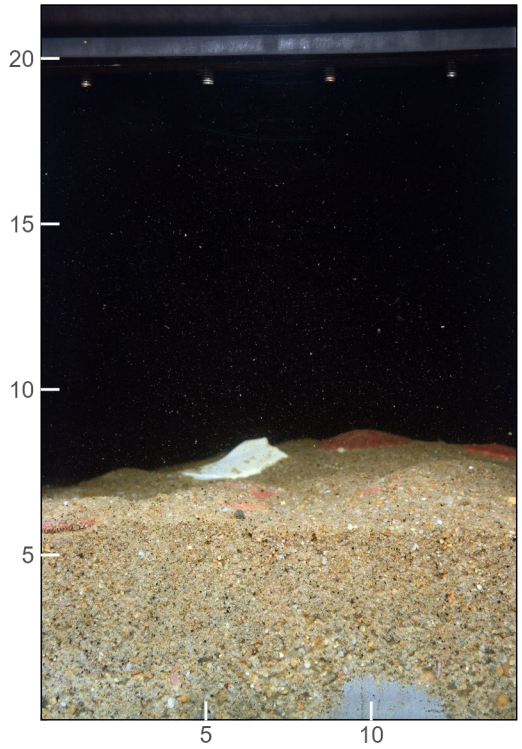
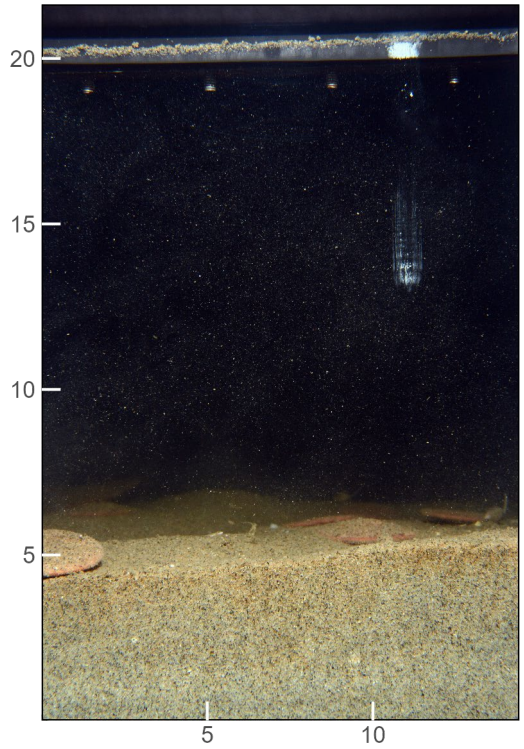


NECCT-SP-600-A



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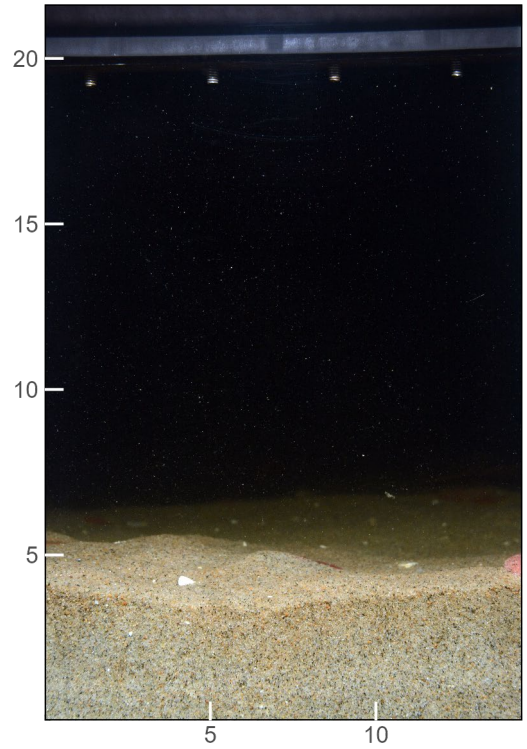

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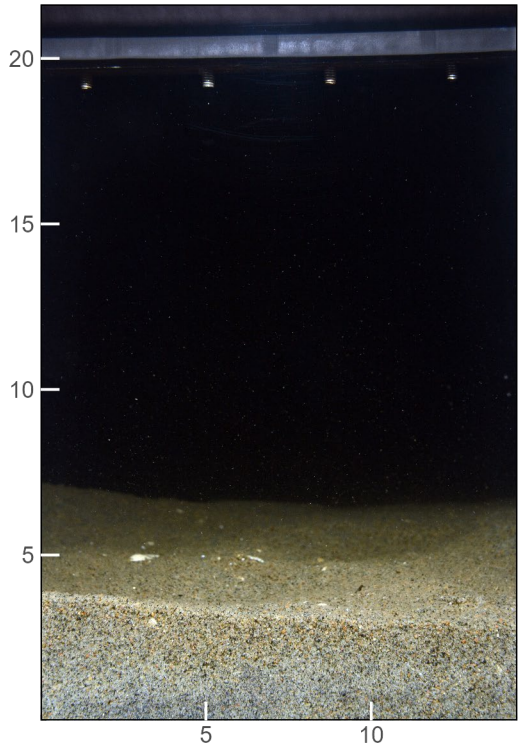

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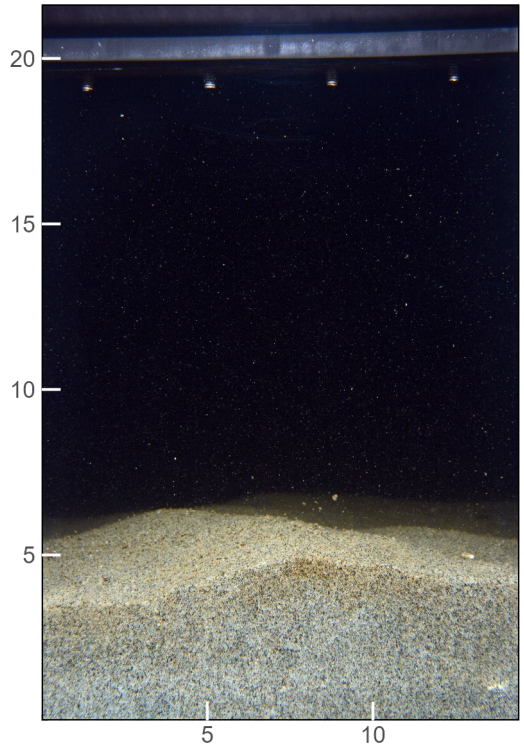

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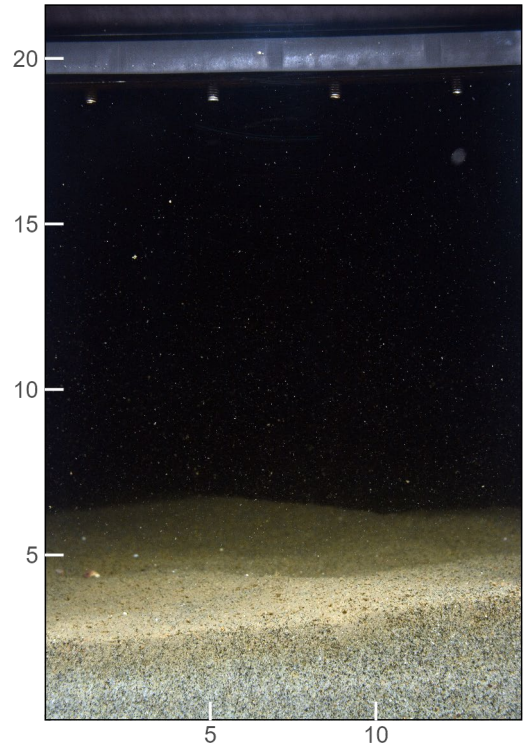

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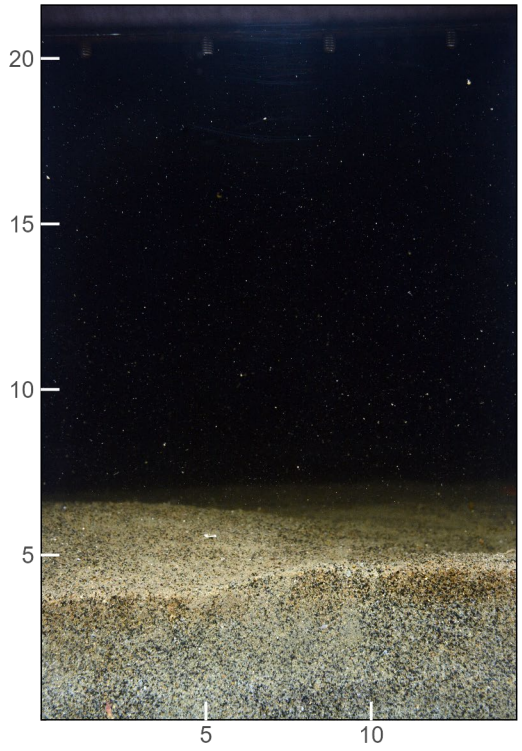
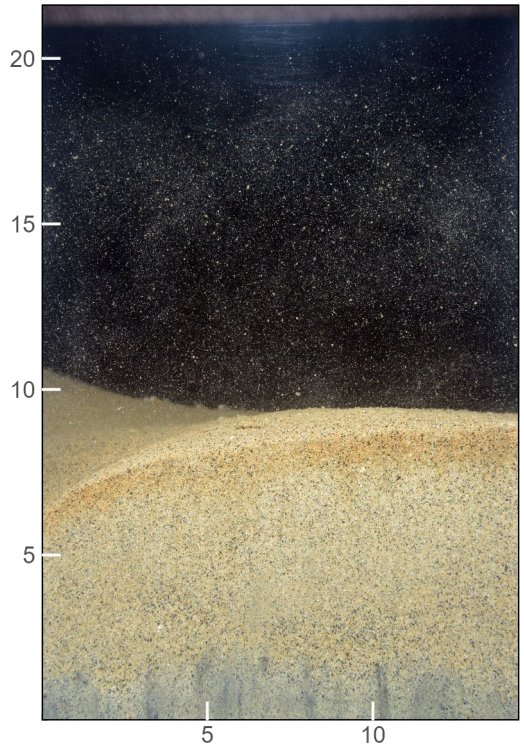
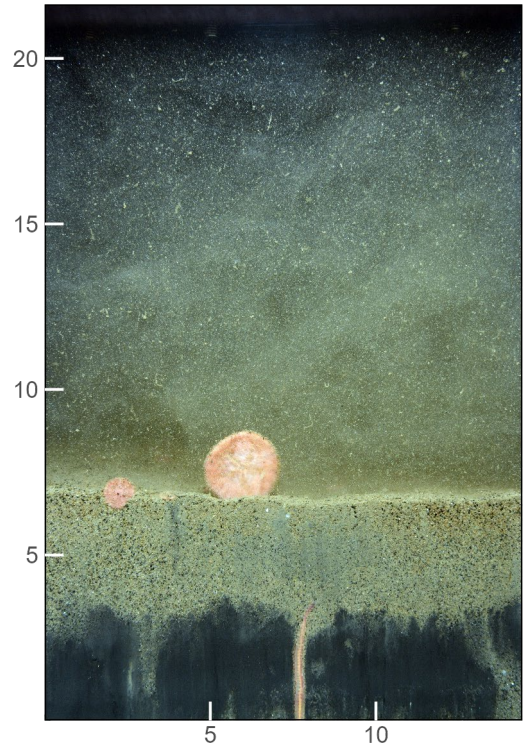


NECCT-SP-602-B



NECCT-SP-602-C



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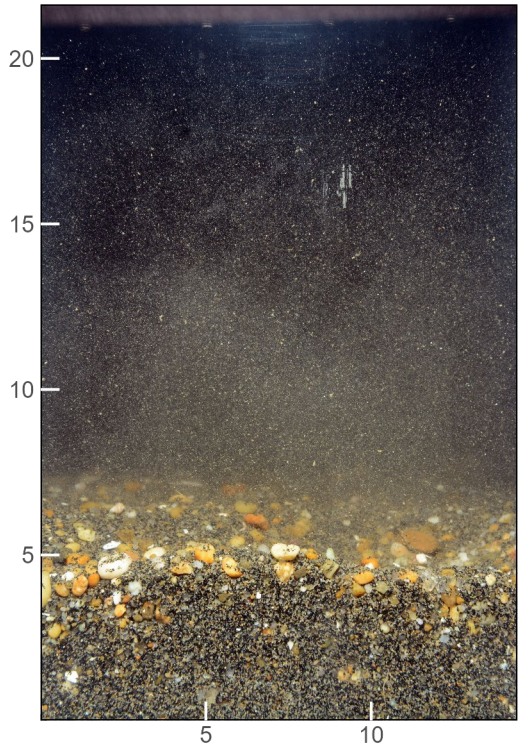
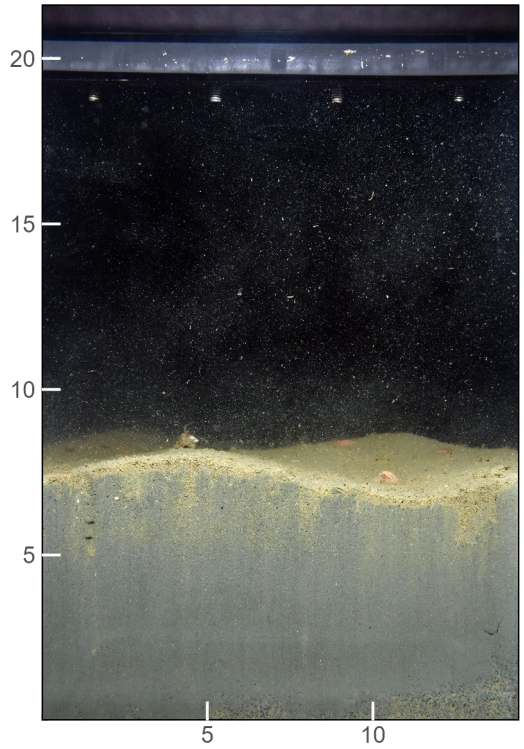
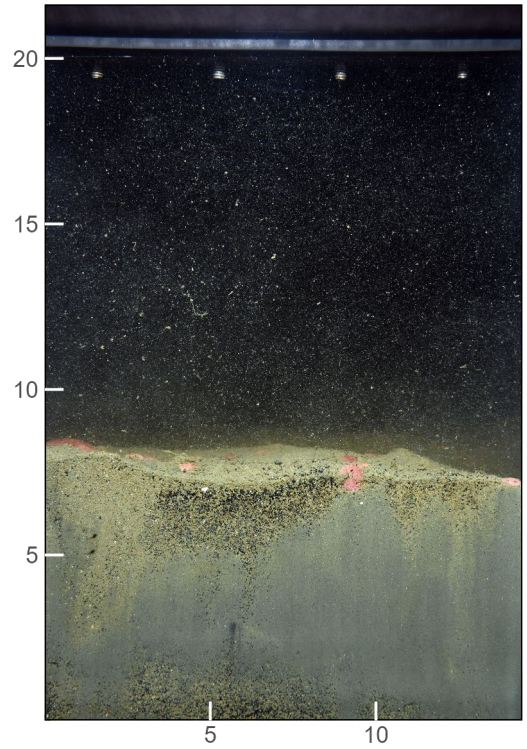


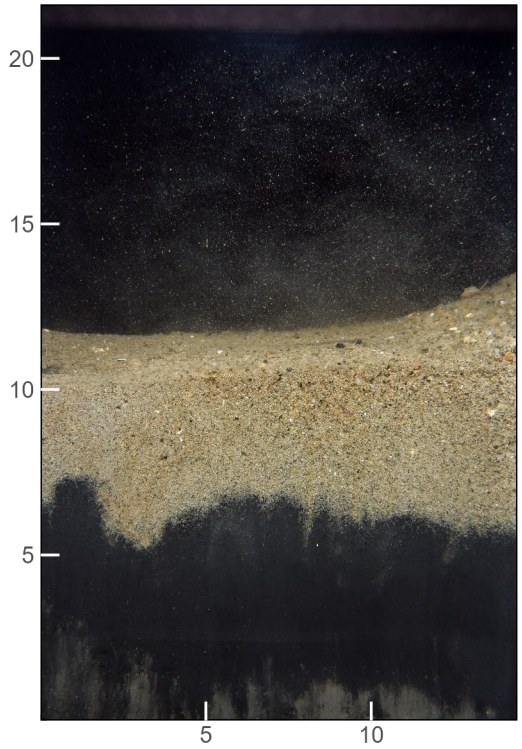
NECCT-SP-603-E



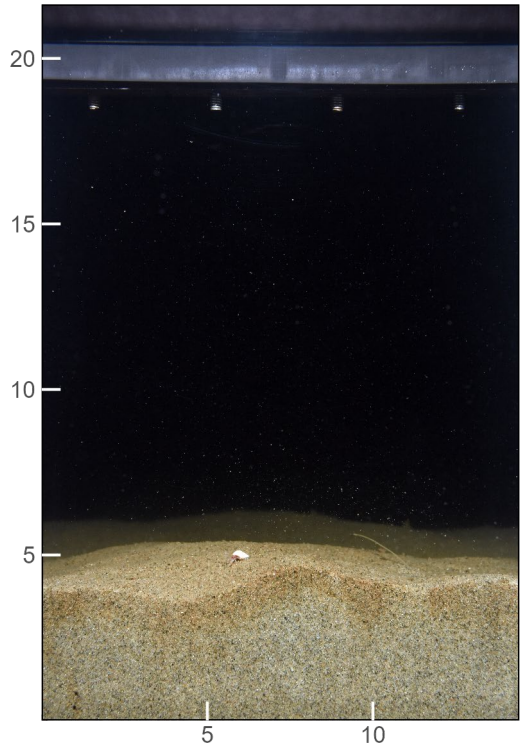
NECCT-SP-603-F



NECCT-SP-603-G



NECCT-SP-604-A



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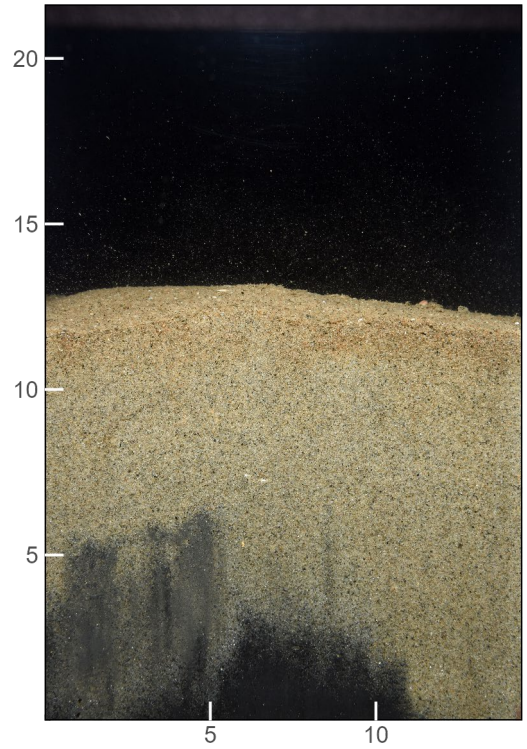
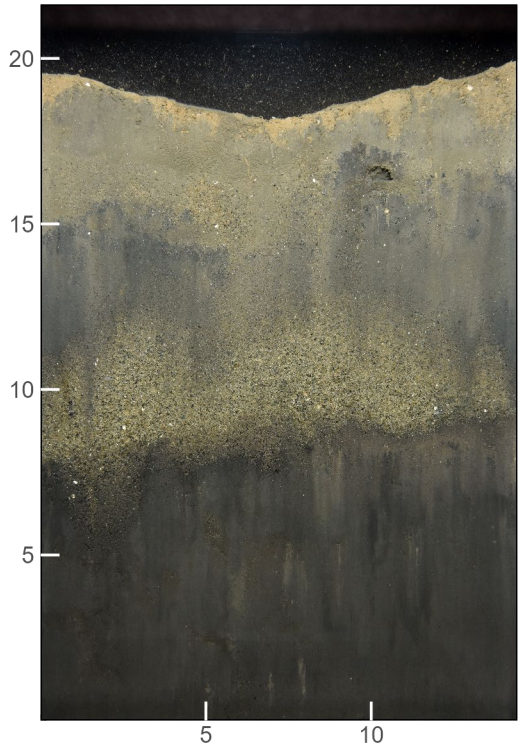


NECCT-SP-604-E



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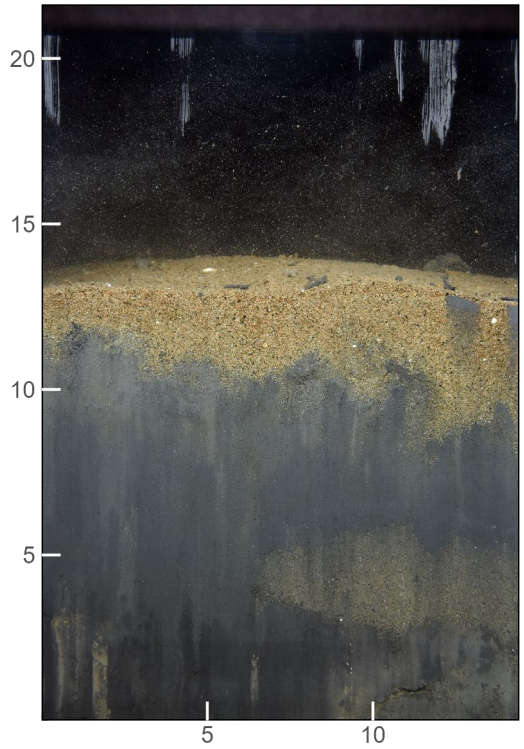

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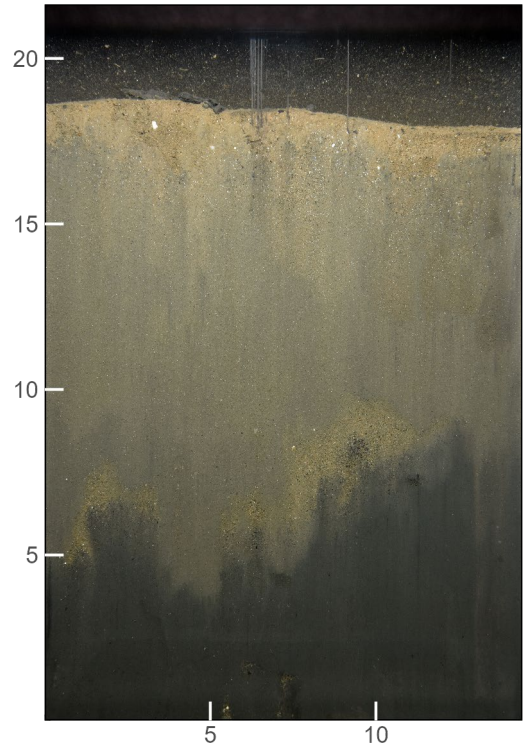

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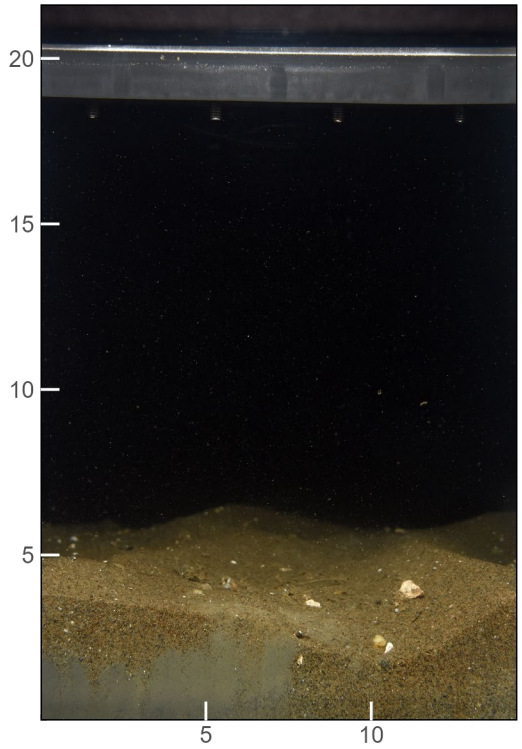

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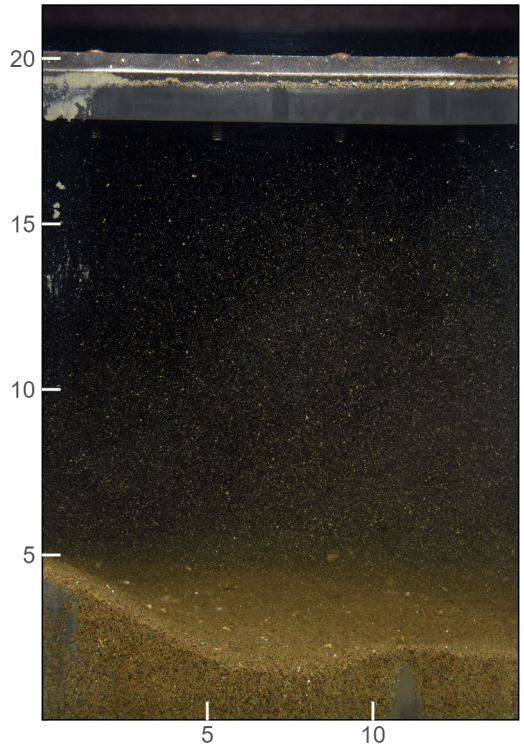

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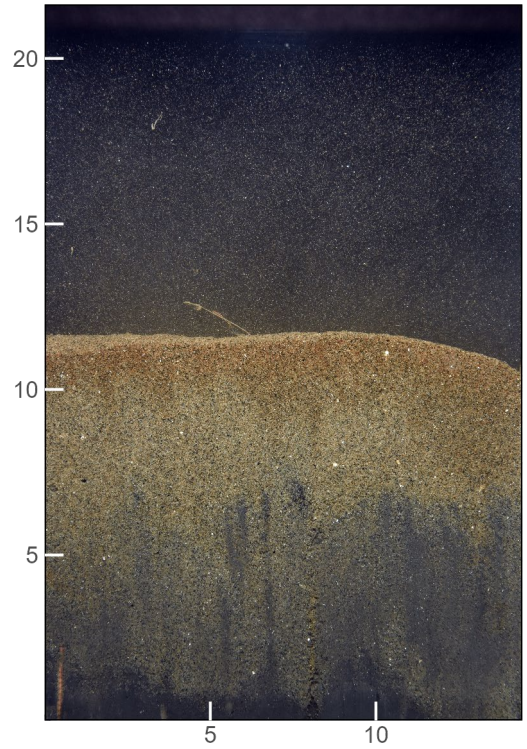

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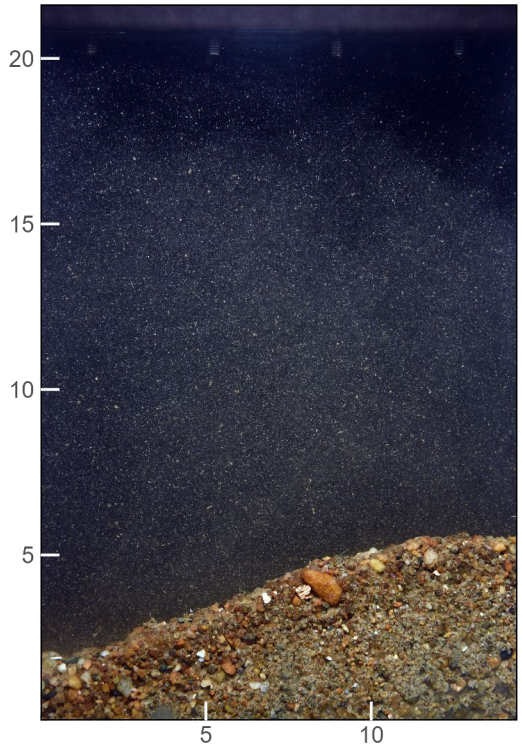

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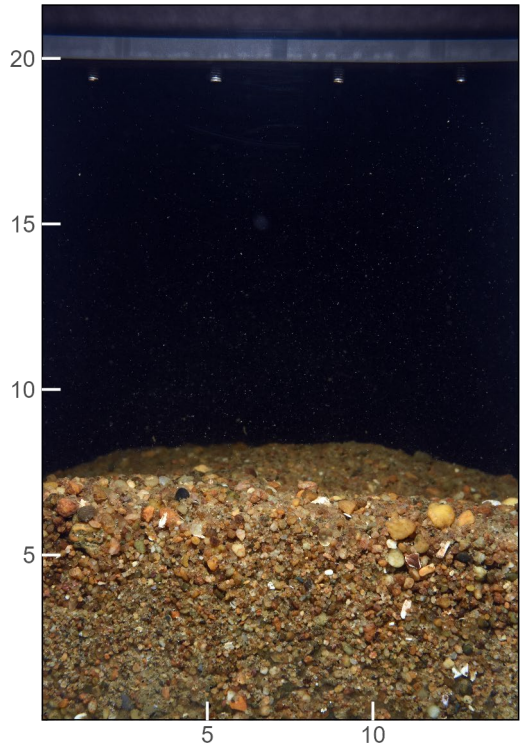

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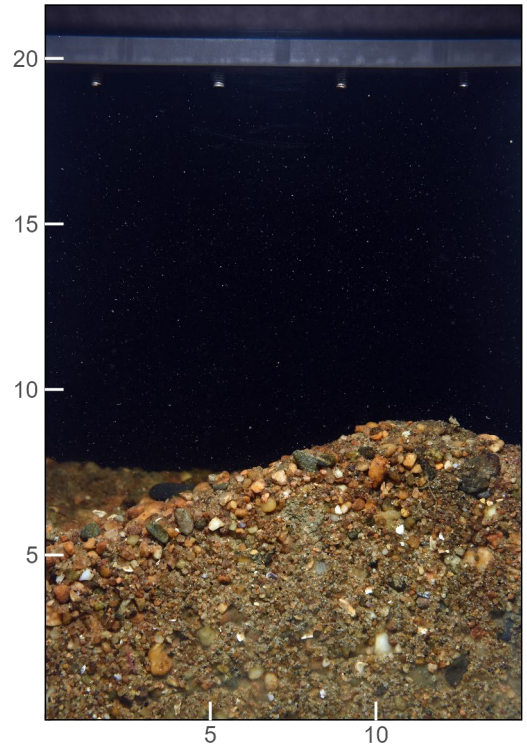

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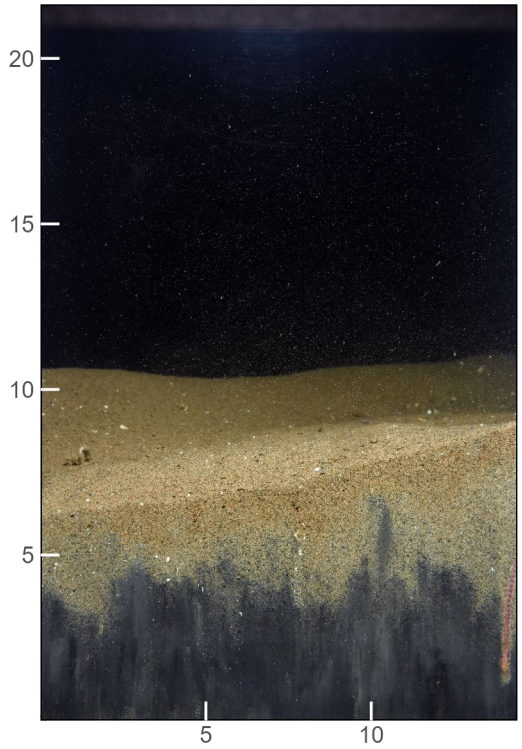

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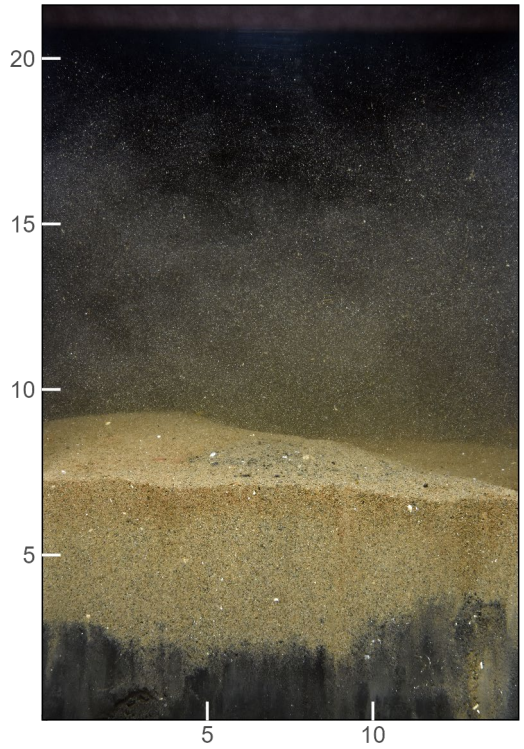

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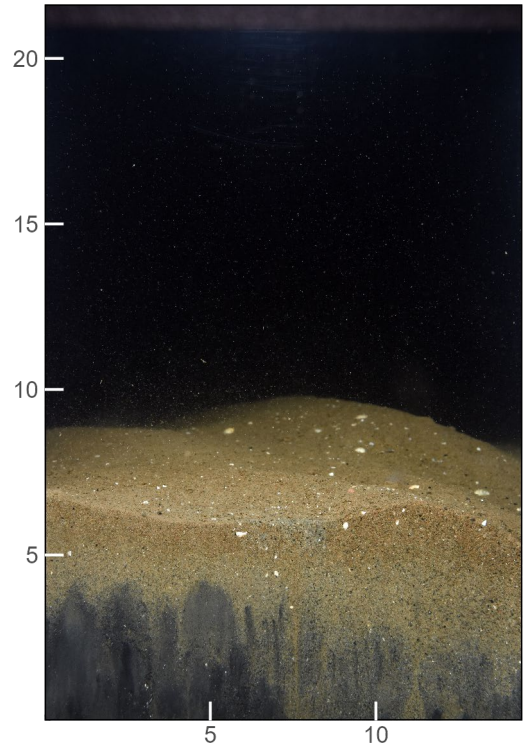

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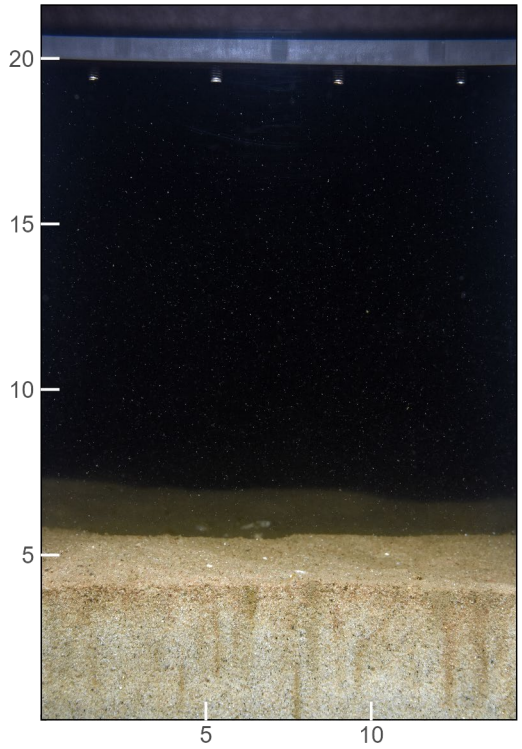

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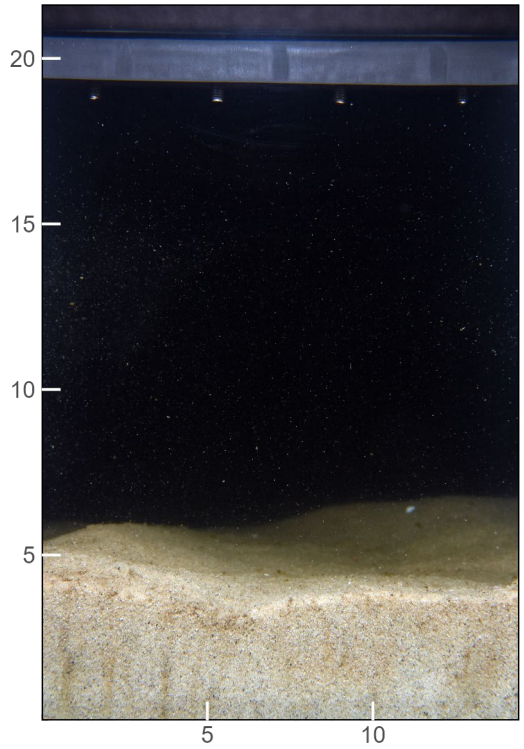

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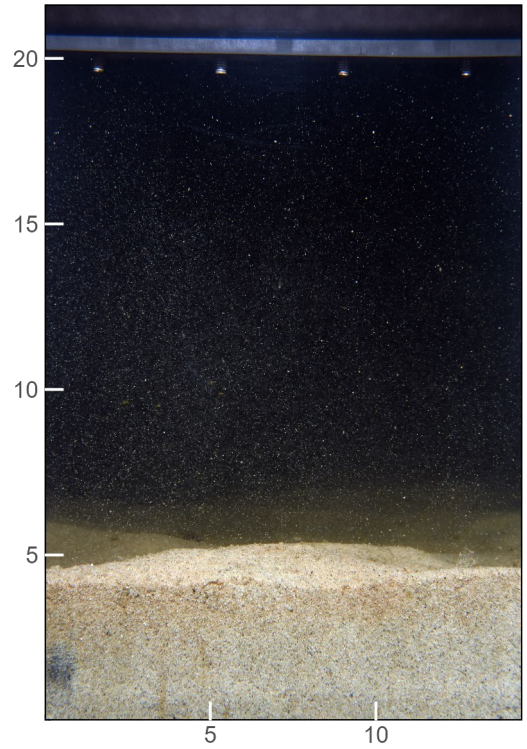

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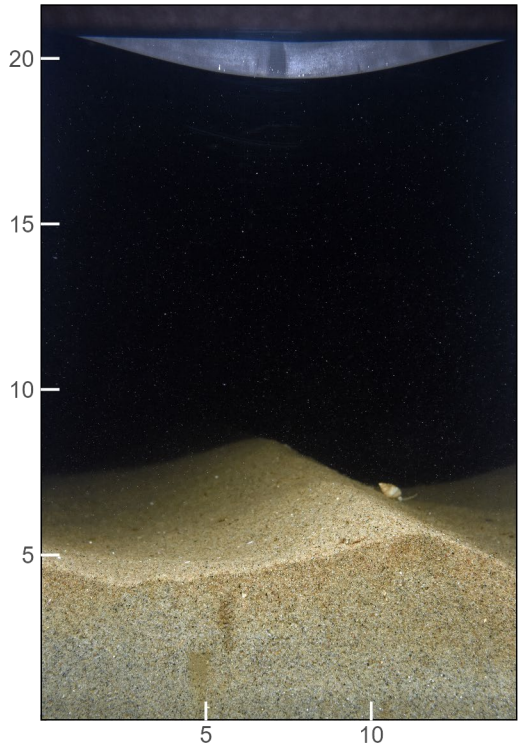

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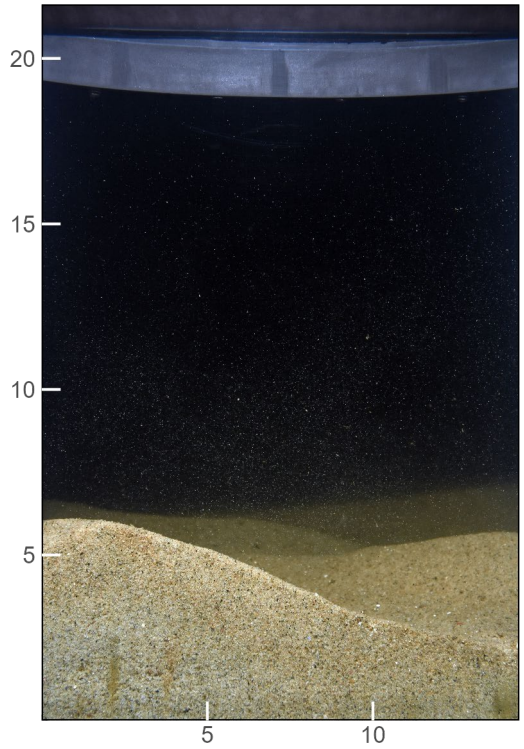

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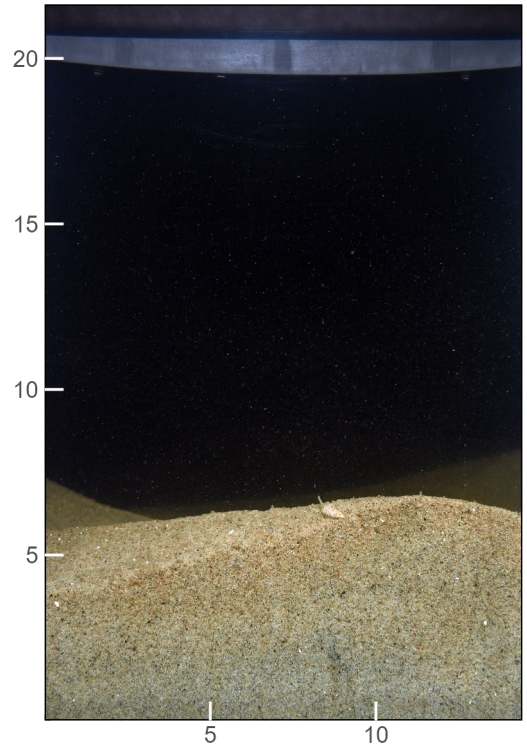

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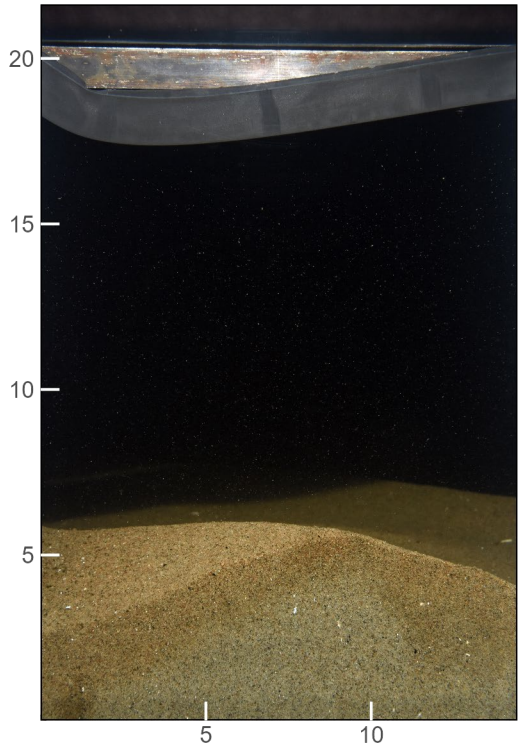

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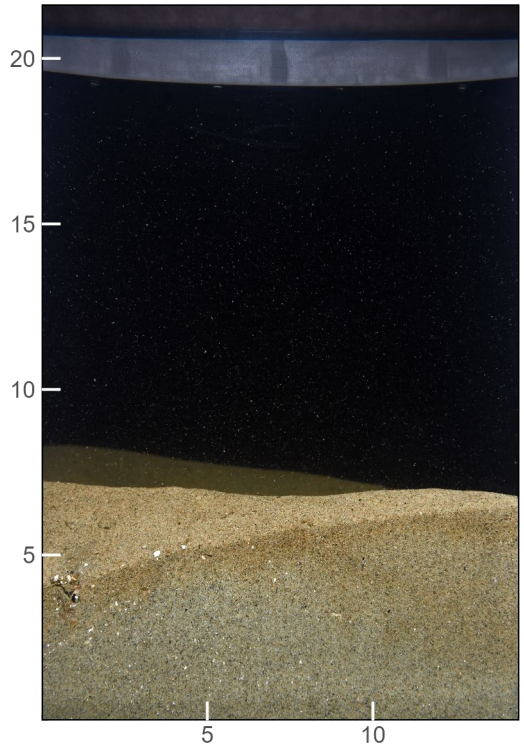

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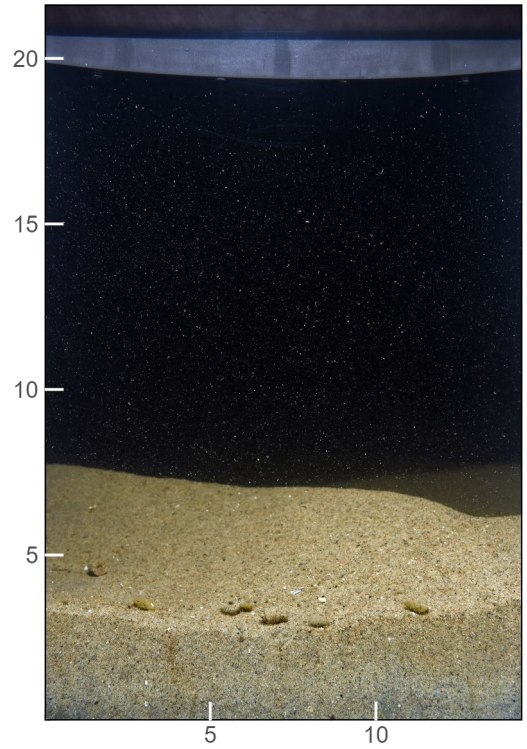

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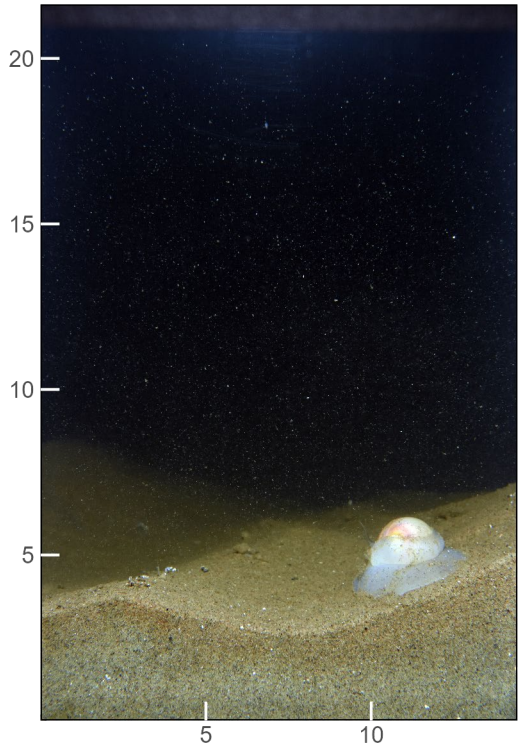

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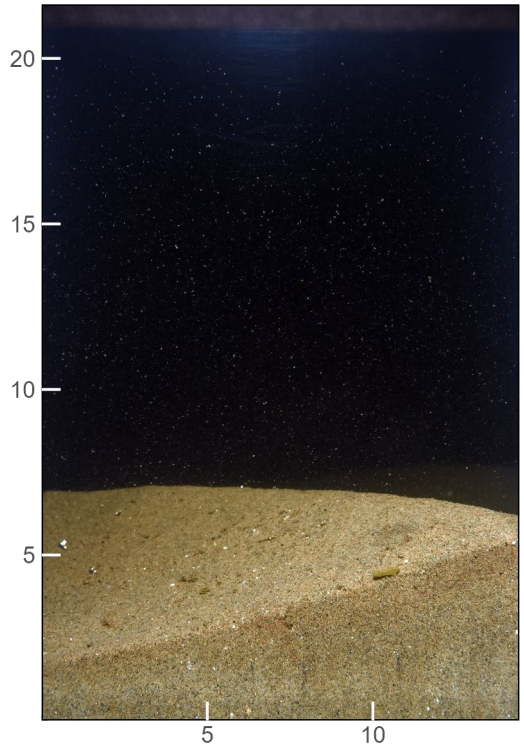

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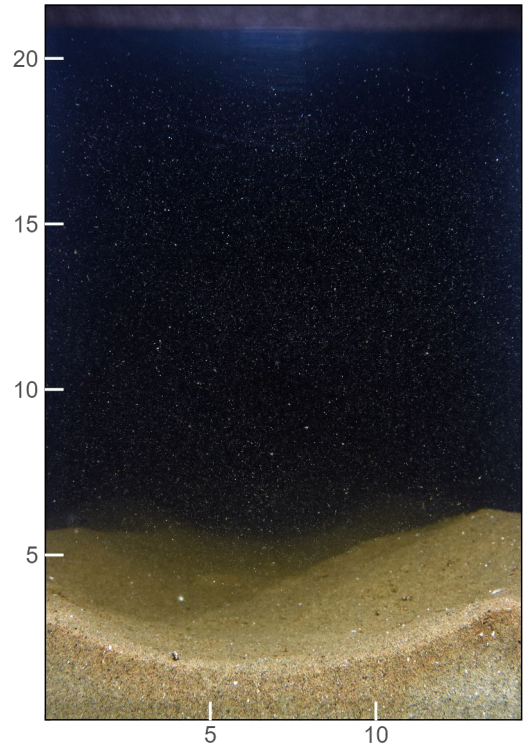

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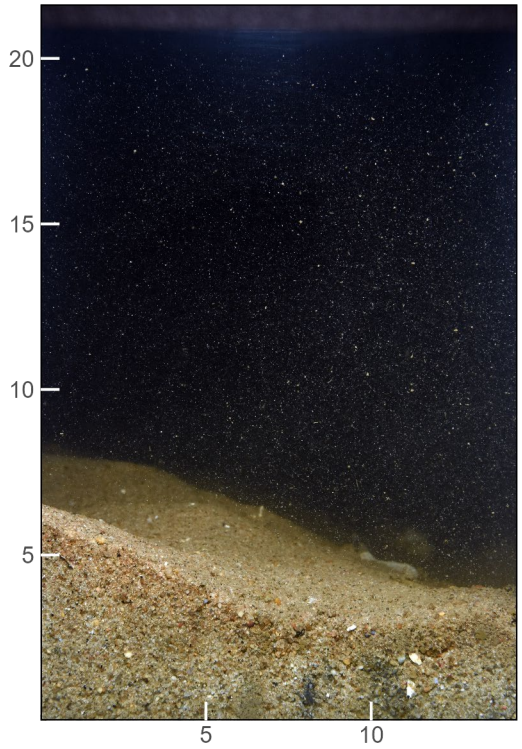

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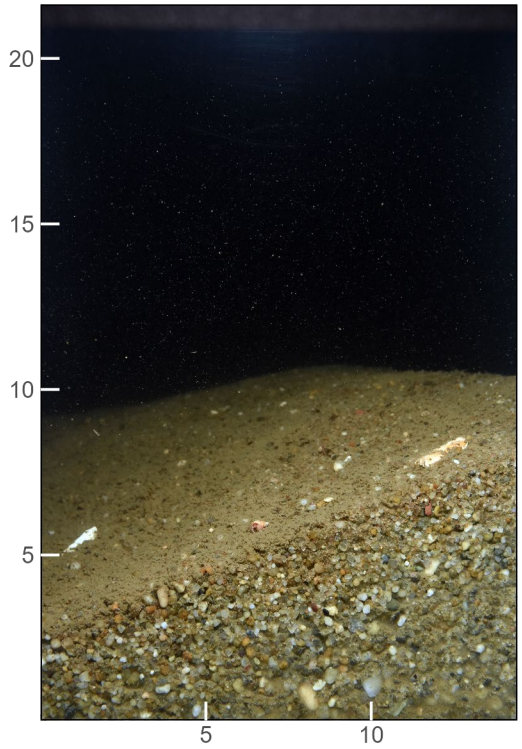

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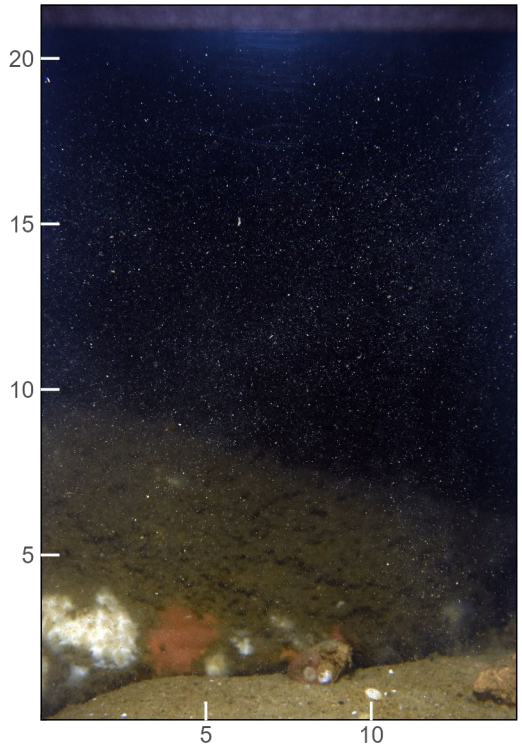

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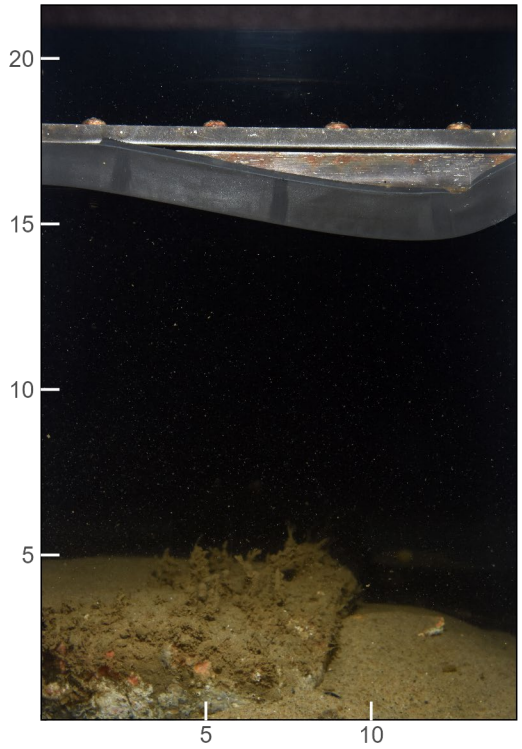

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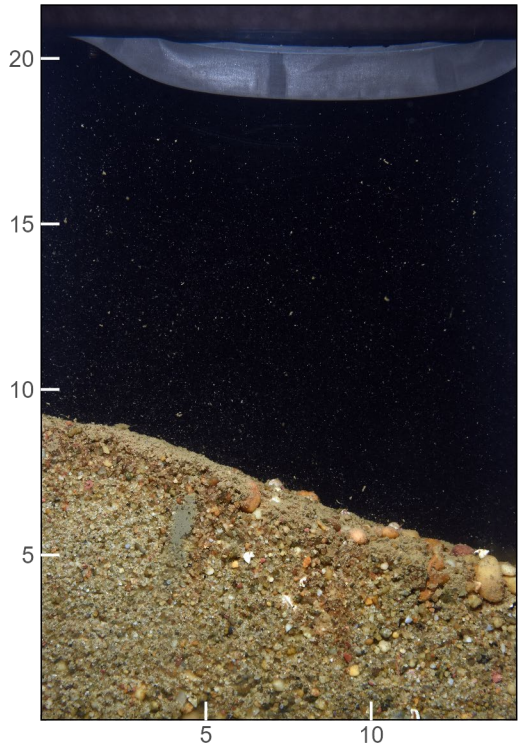

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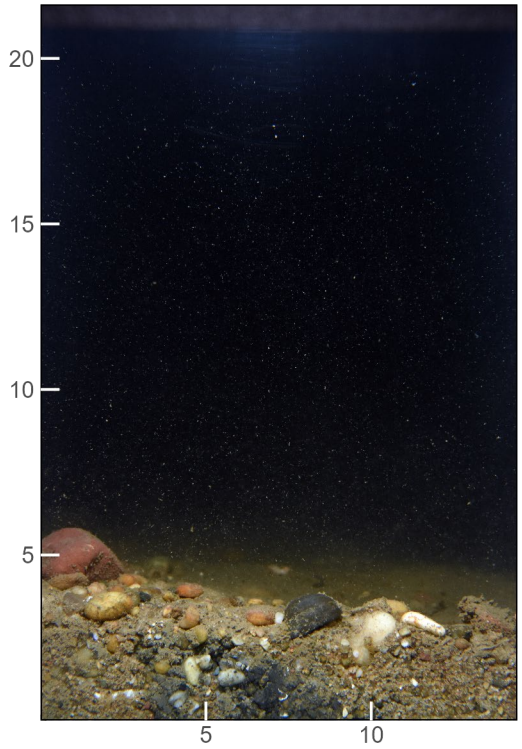

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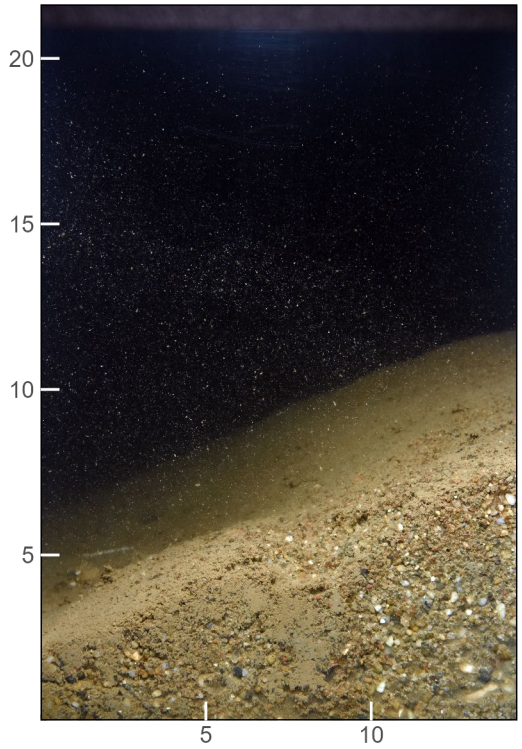

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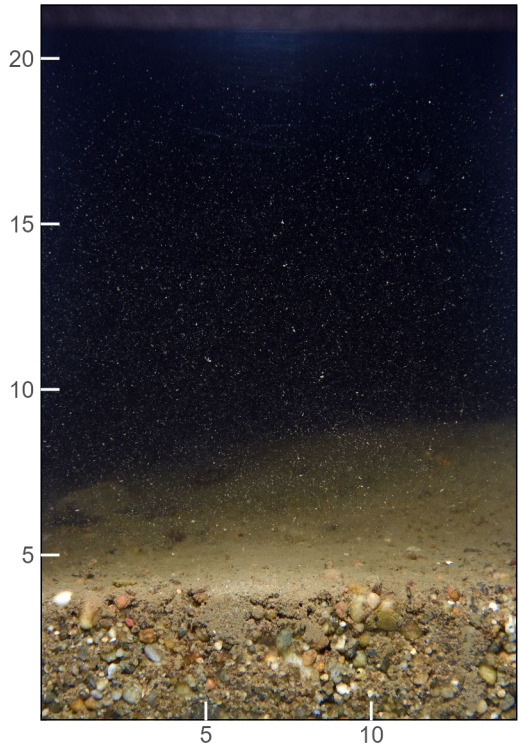

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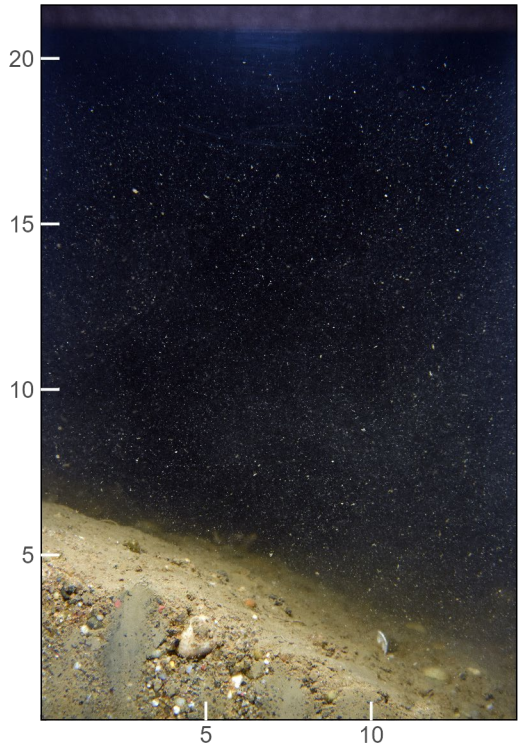

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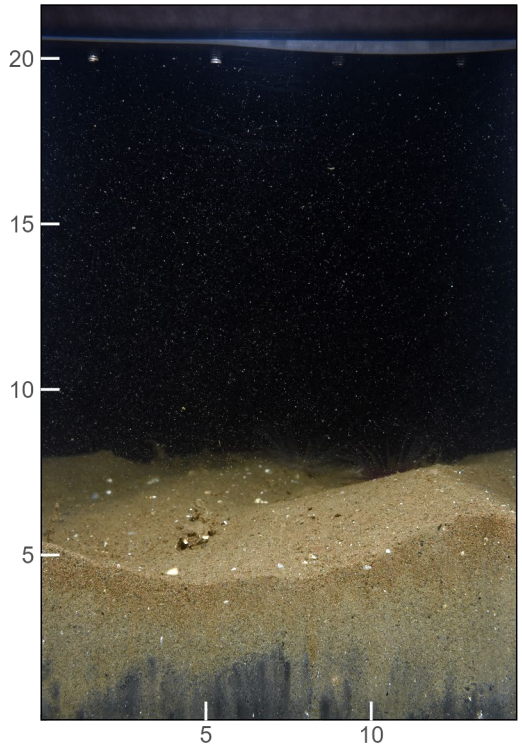

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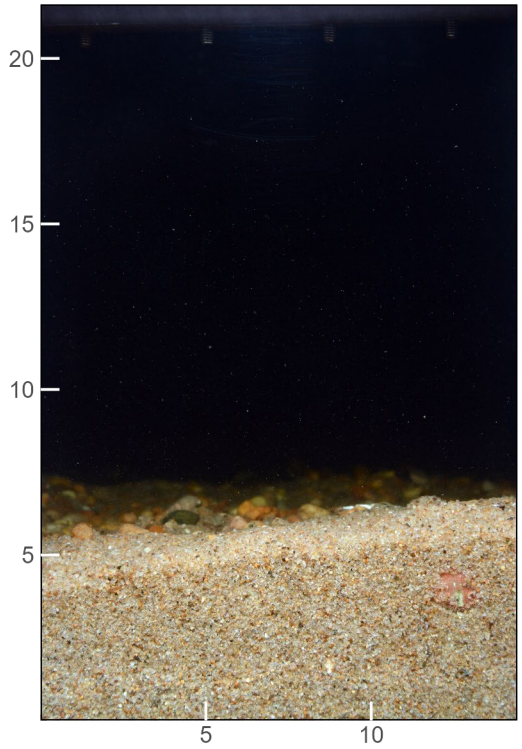

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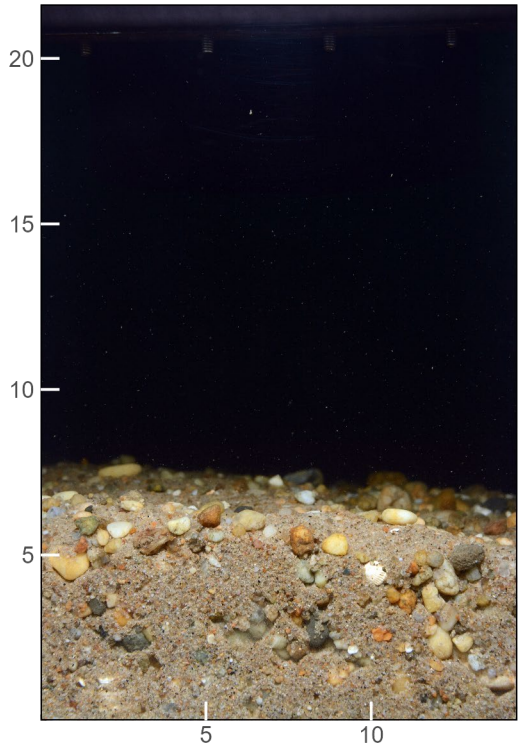

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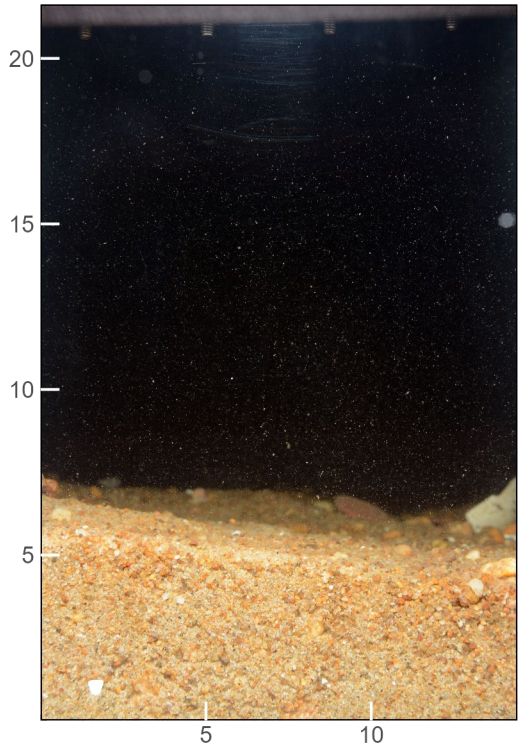

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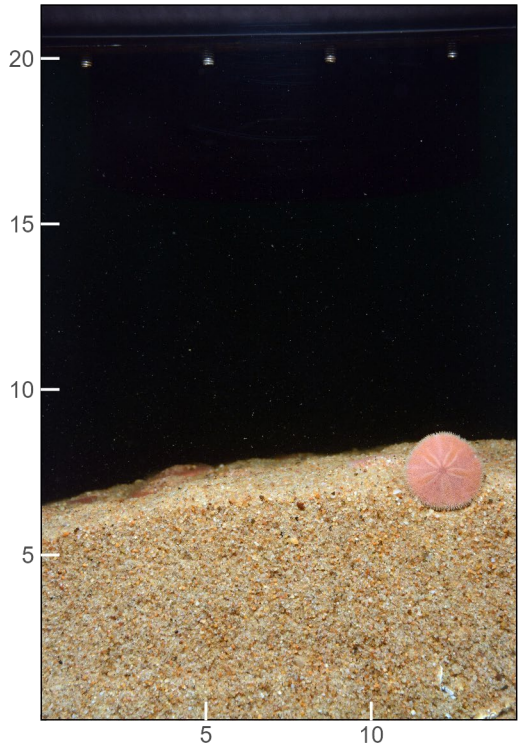

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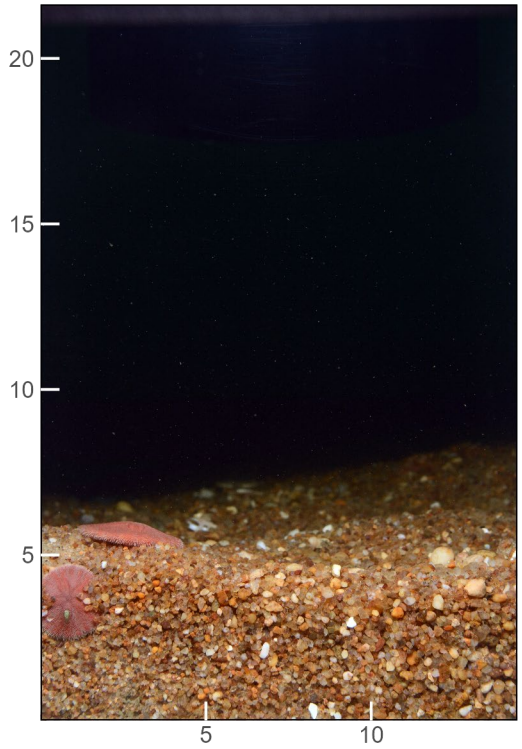

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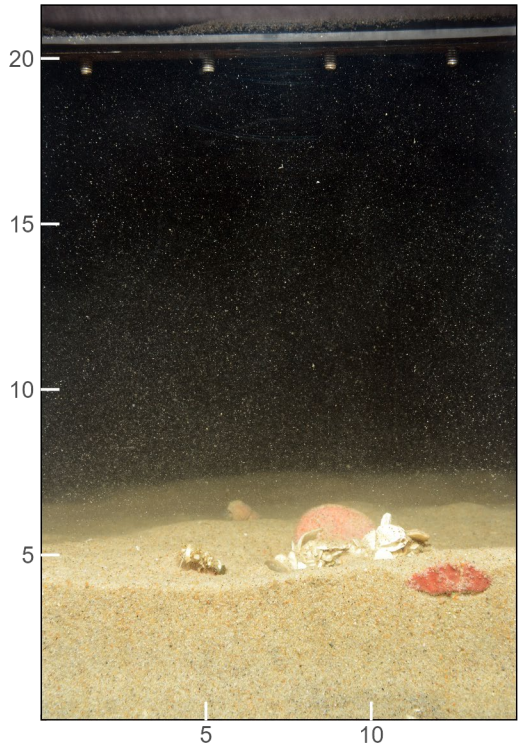

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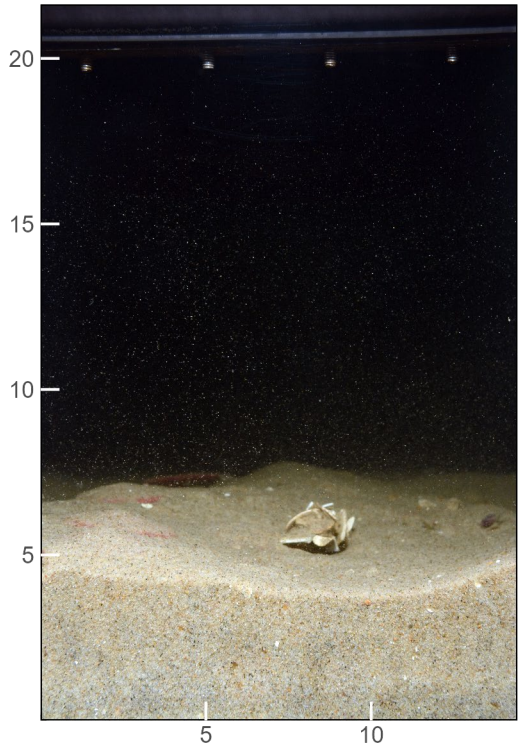

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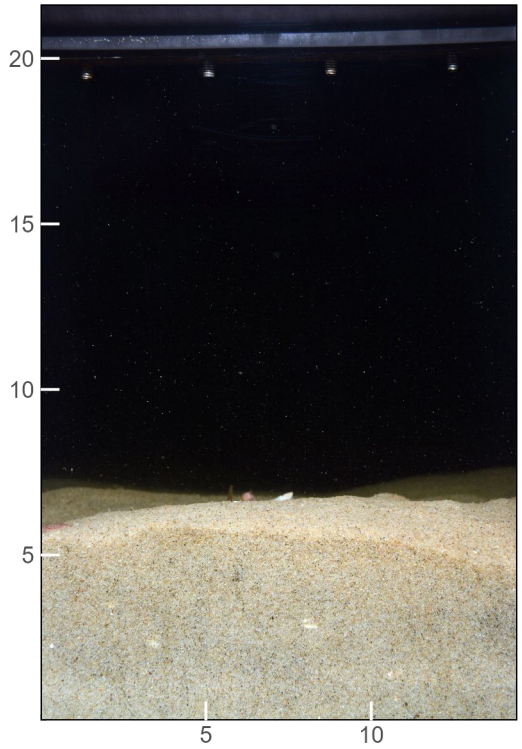

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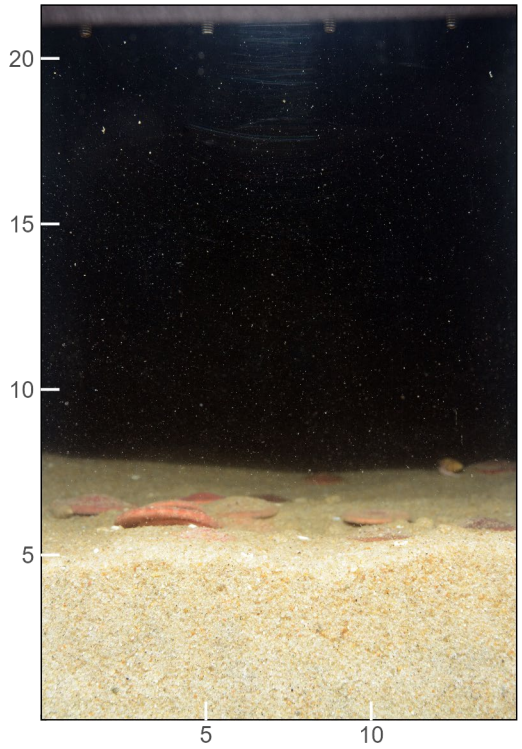

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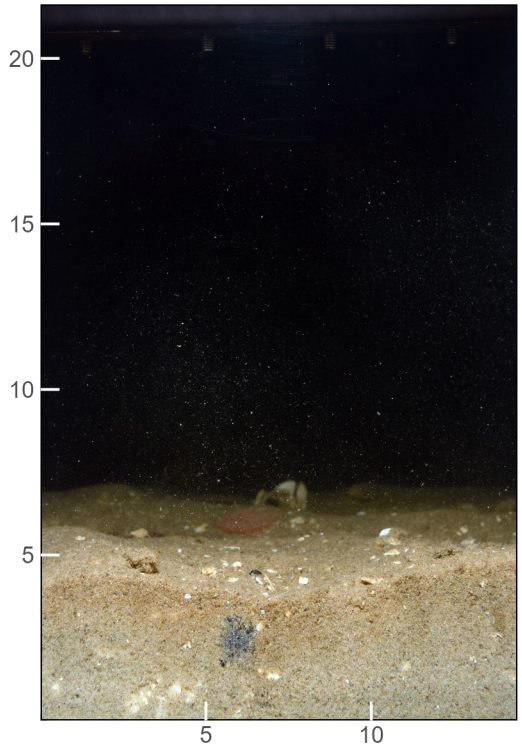

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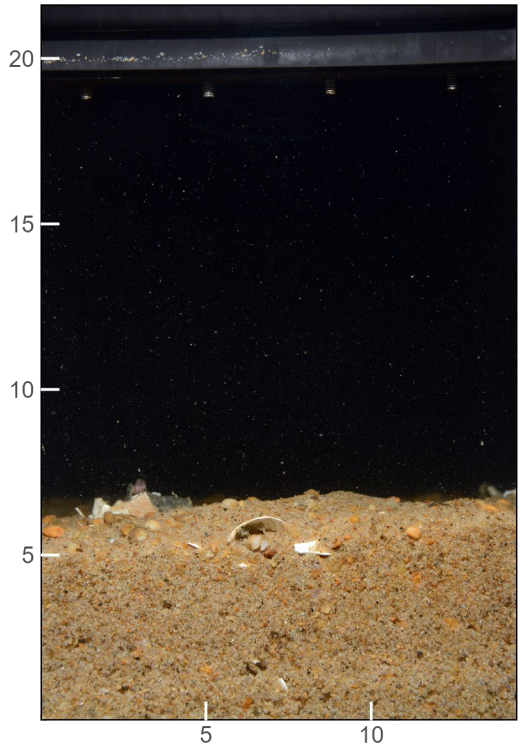

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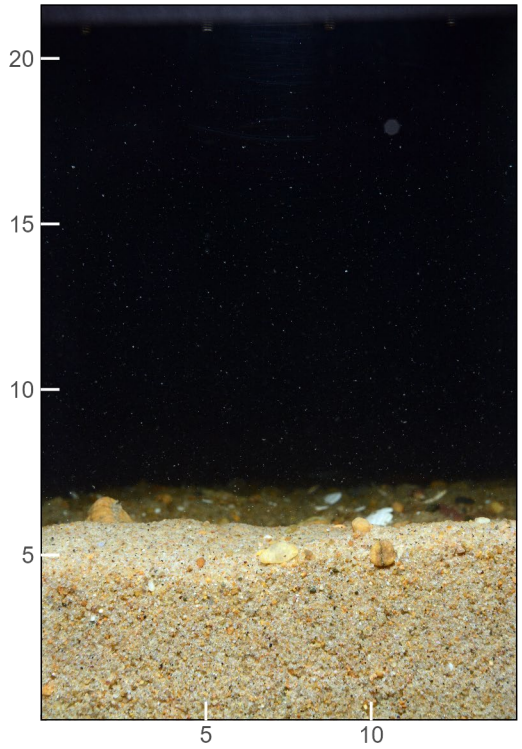

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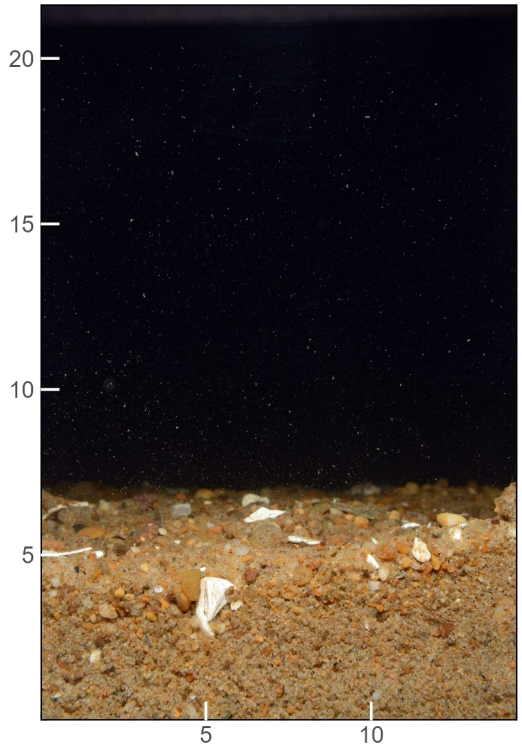

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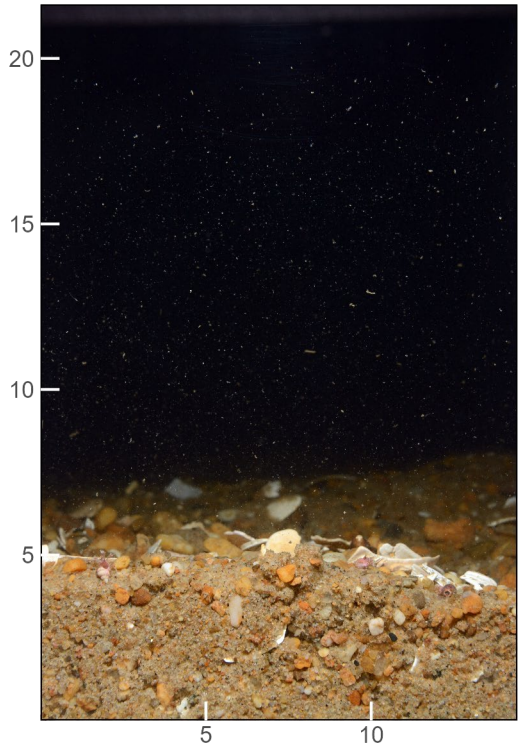

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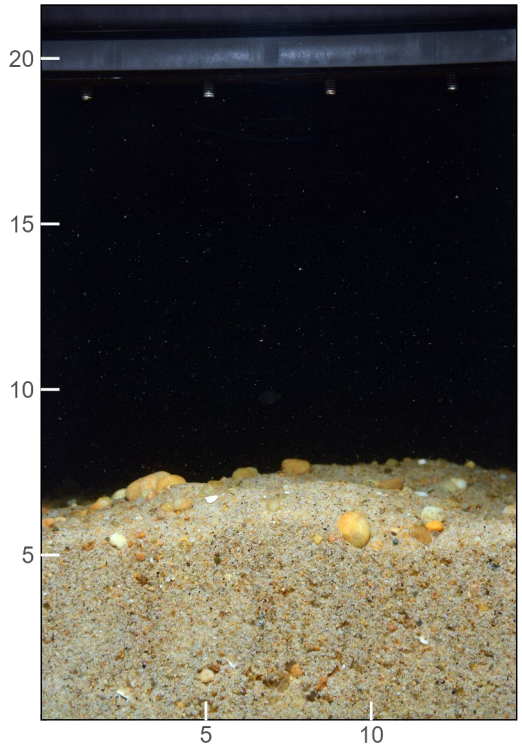

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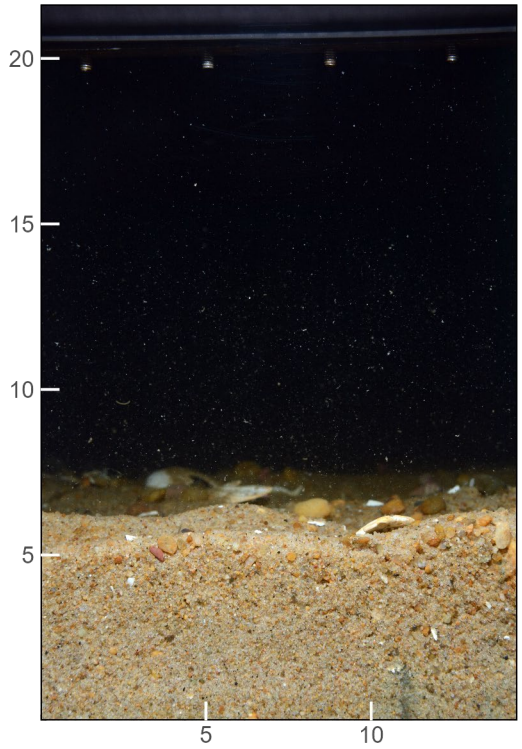

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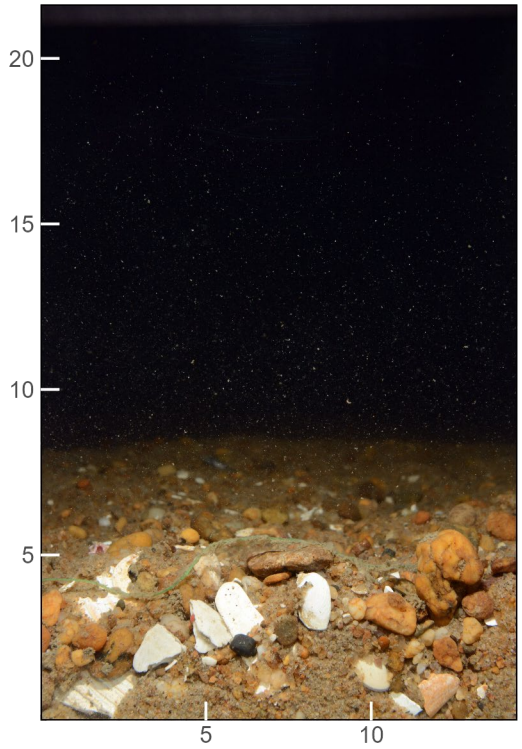

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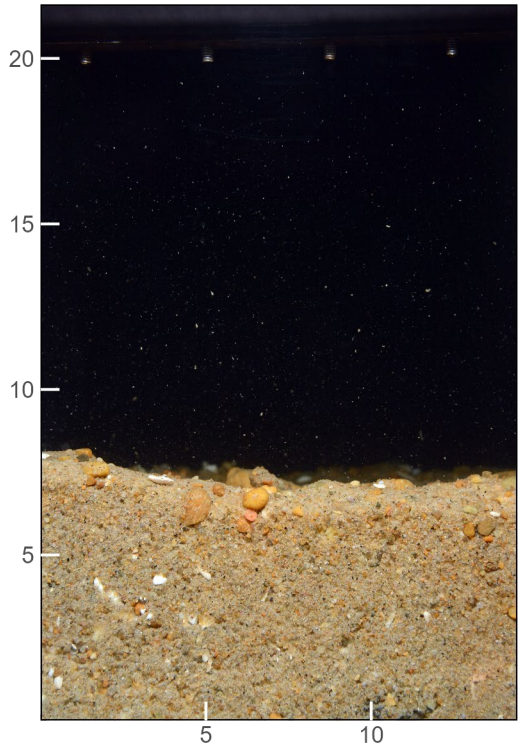

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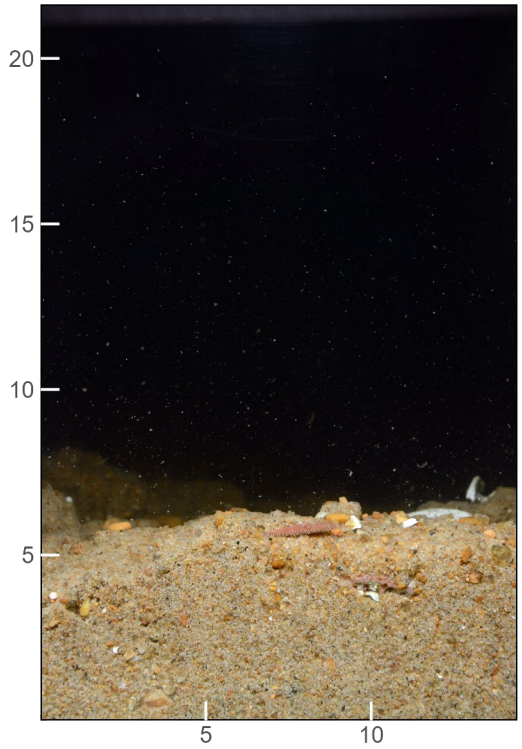

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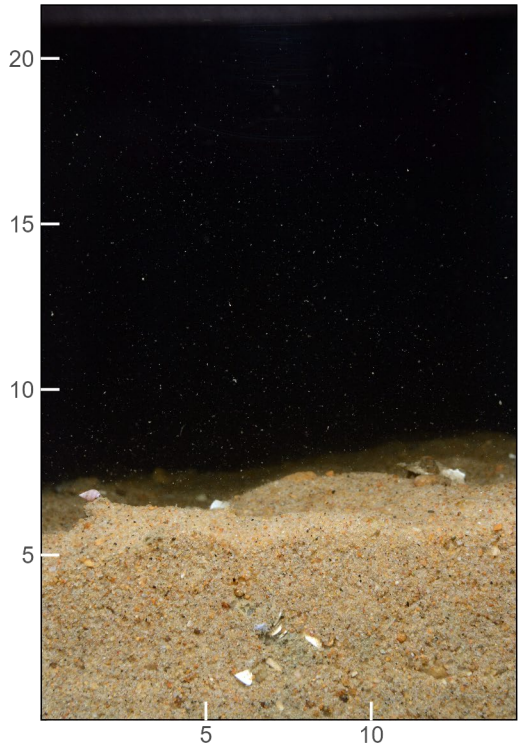
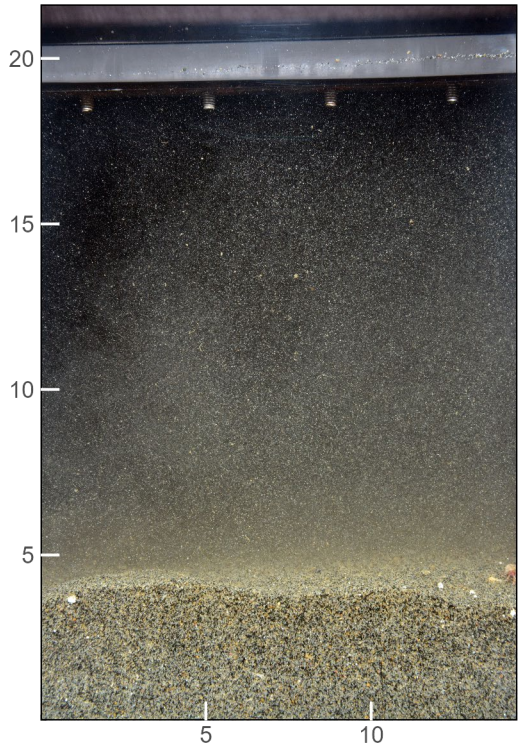
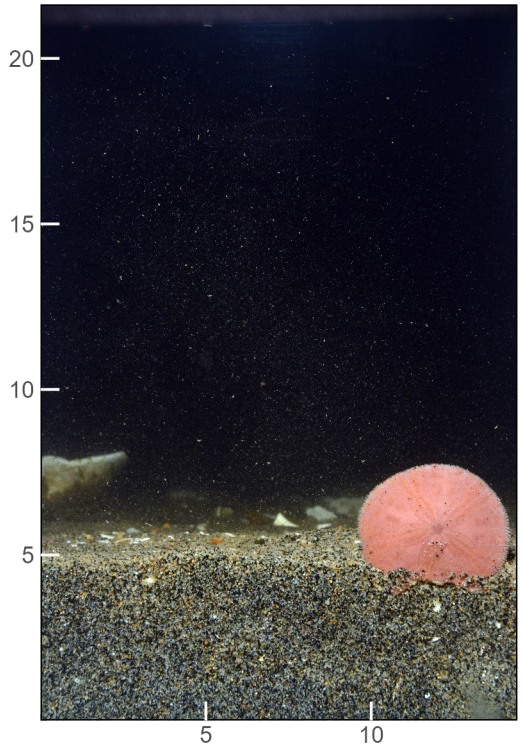


NECCT-SP-642-A



NECCNJ-SP-643-A



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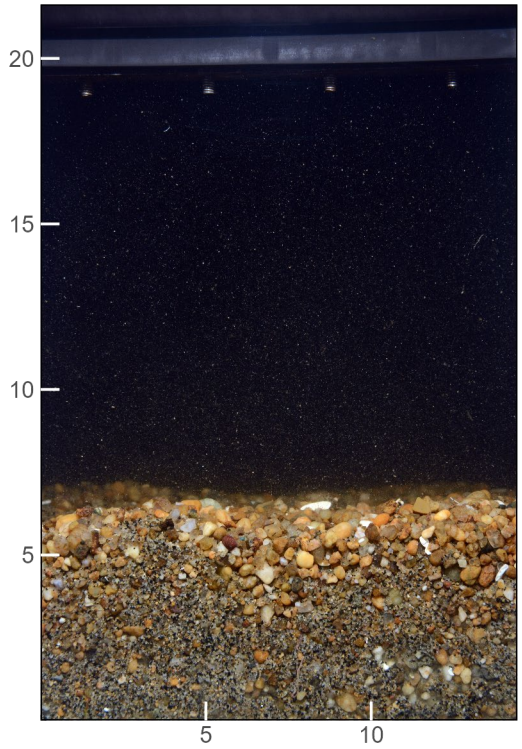

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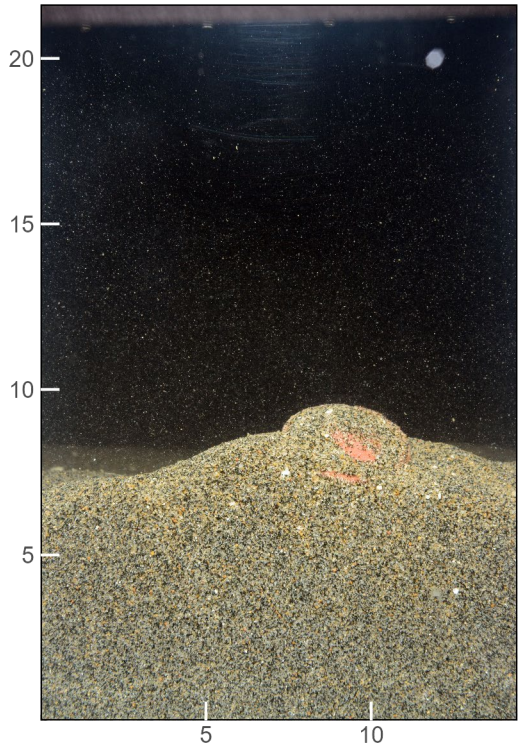

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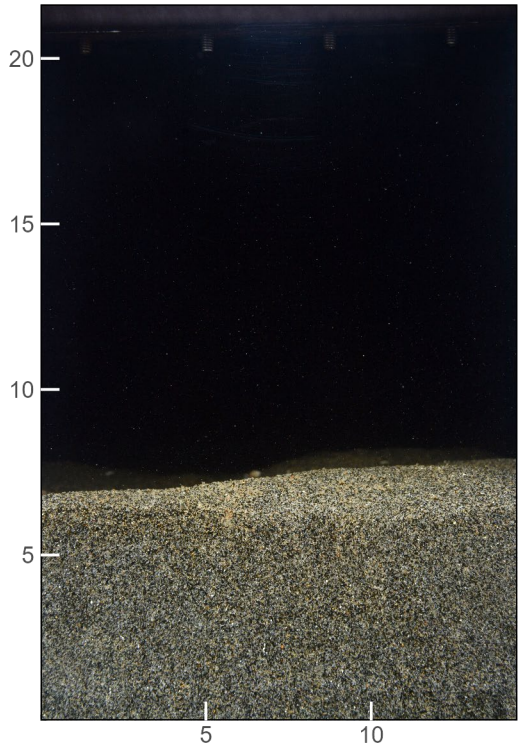

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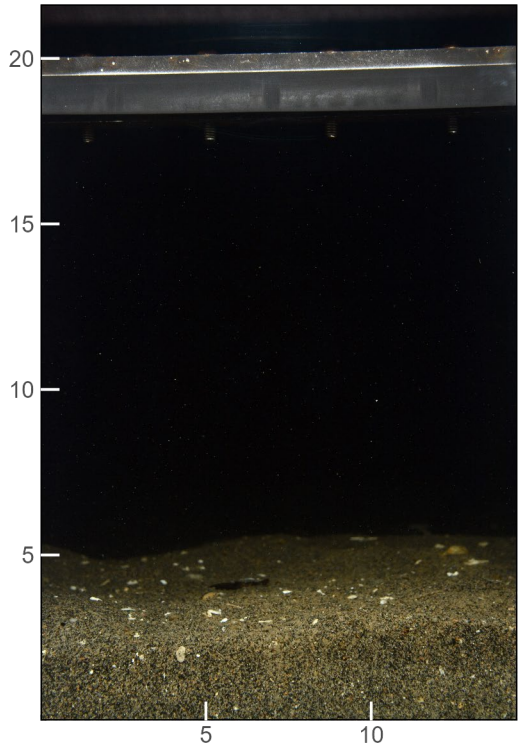

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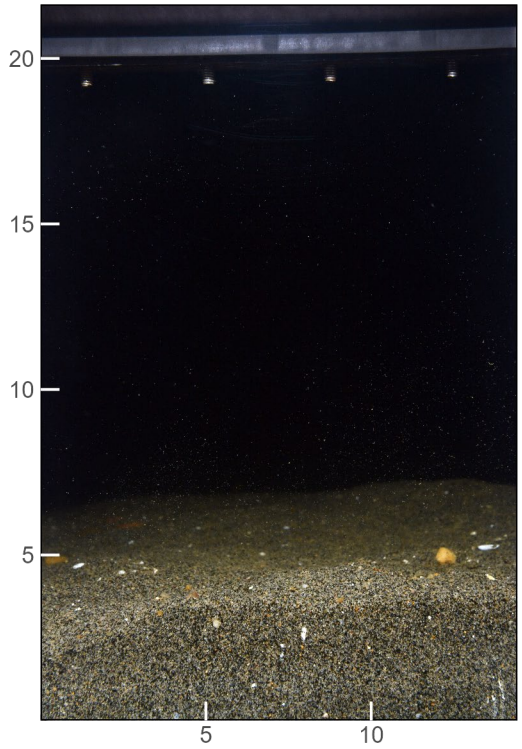

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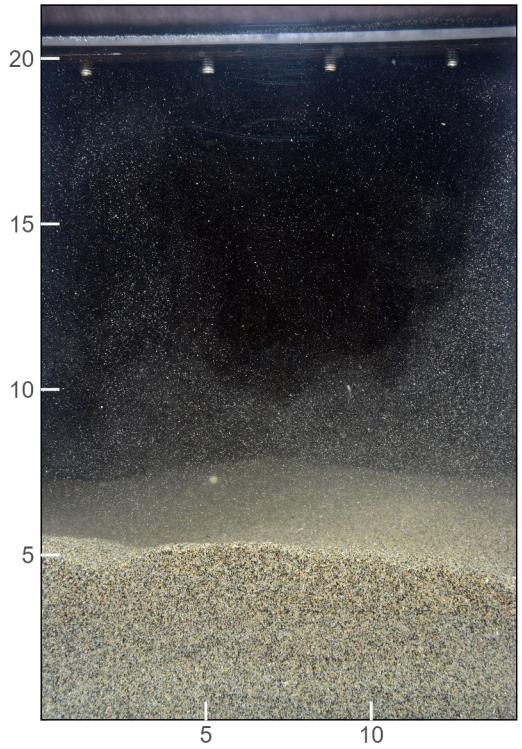

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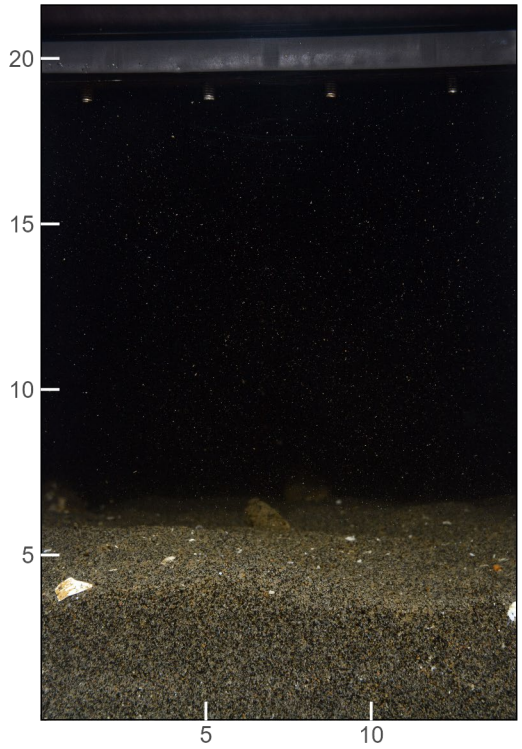

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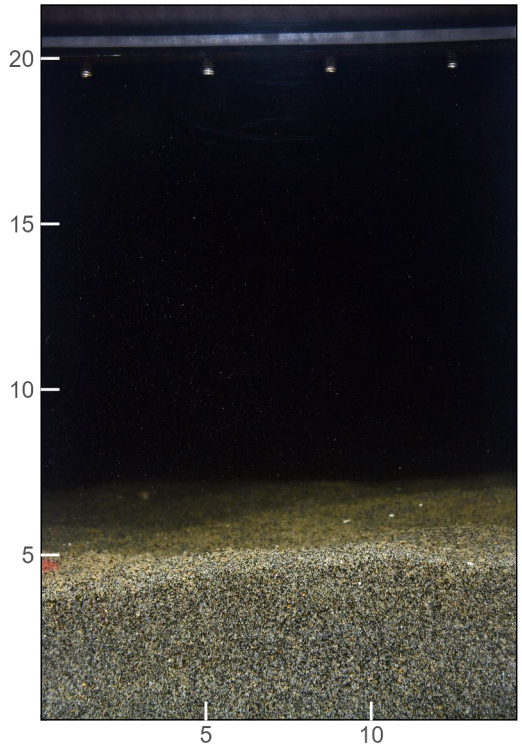
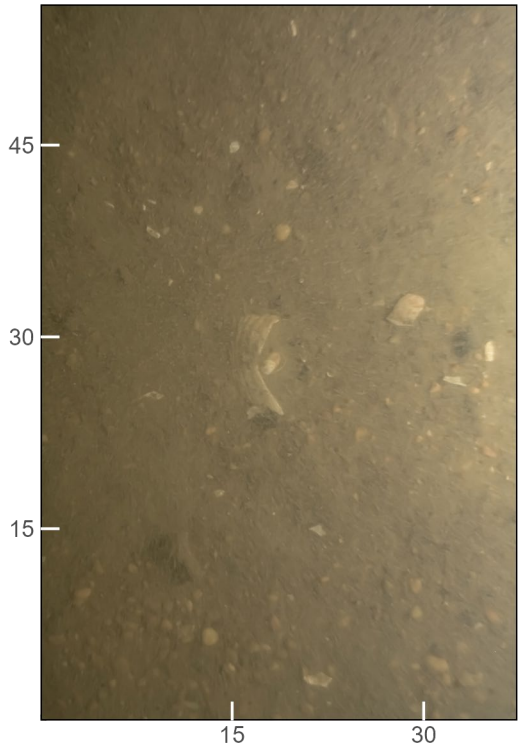


NECCNJ-SP-652-A

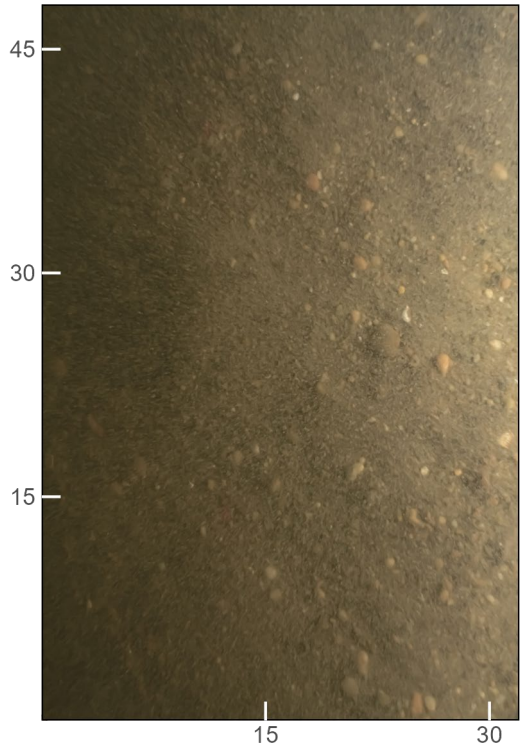
Appendix B4

Plan View Images—
NECCT and NECCNJ

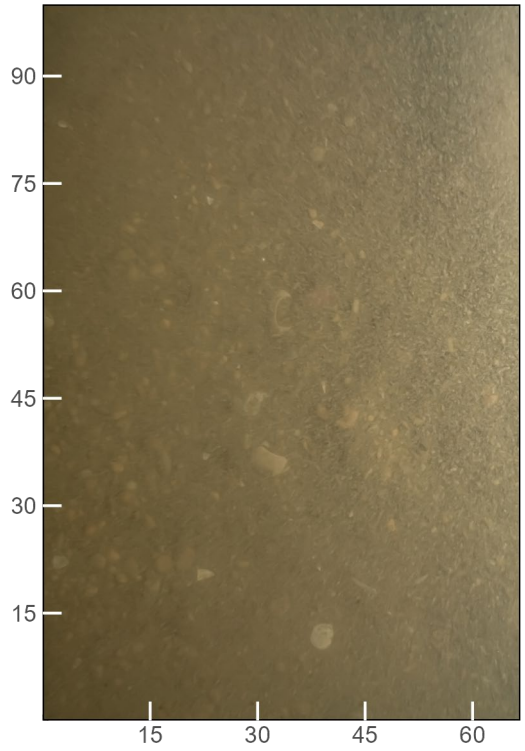
Scale: The width and height of each PV image is provided in Appendix C2 (PV Image Data Set).



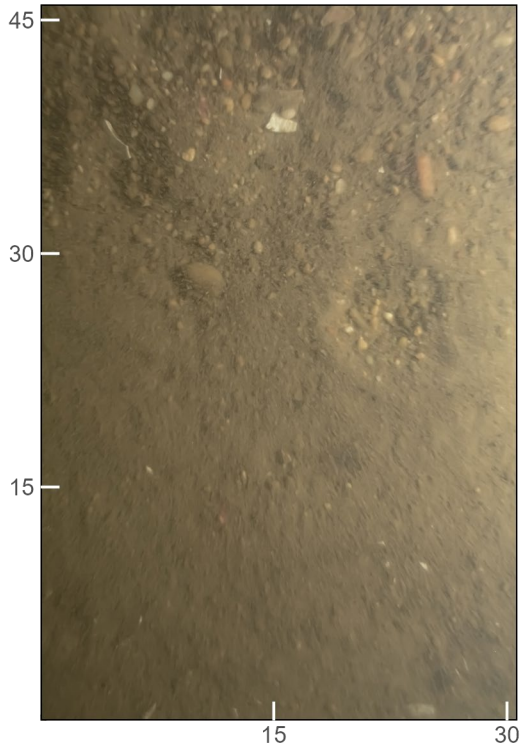
NECCT-SP-346-B



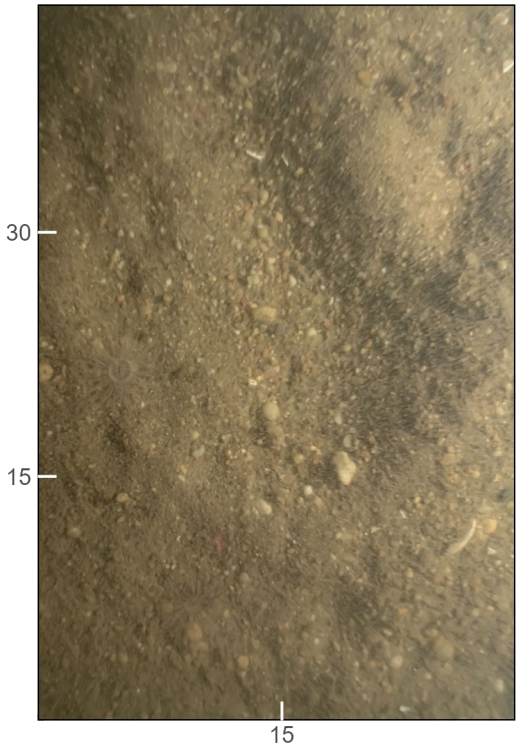
NECCT-SP-346-C



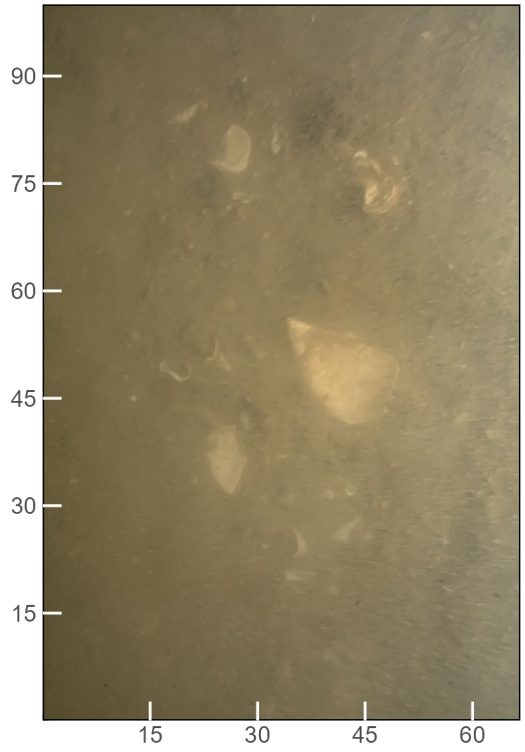
NECCT-SP-346-D



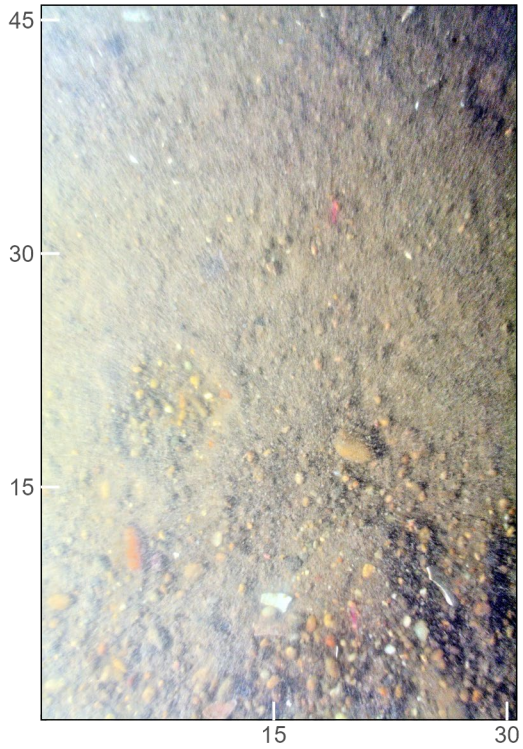
NECCT-SP-347-A



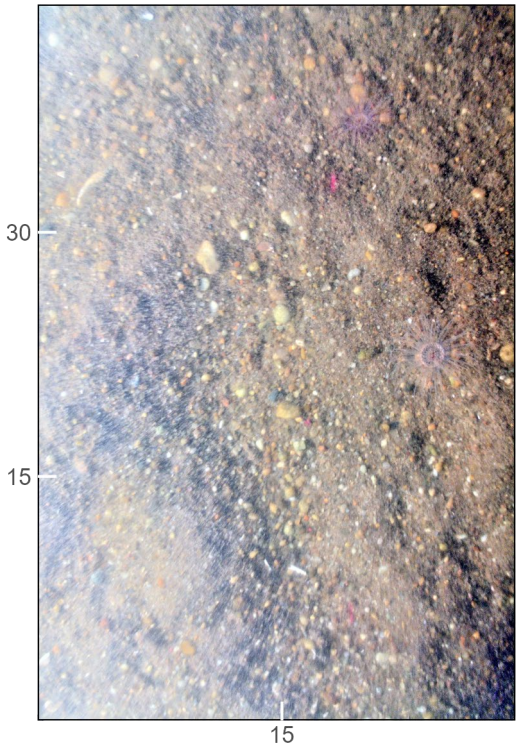
NECCT-SP-347-E



NECCT-SP-347-J



NECCT-SPG-347-A



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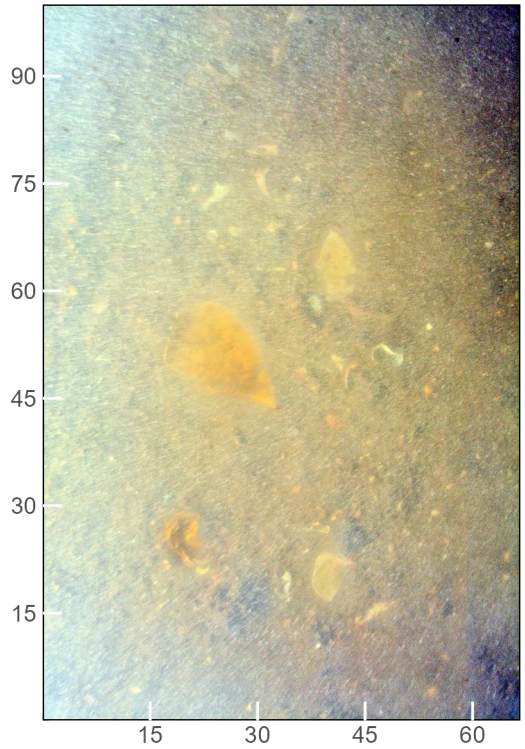

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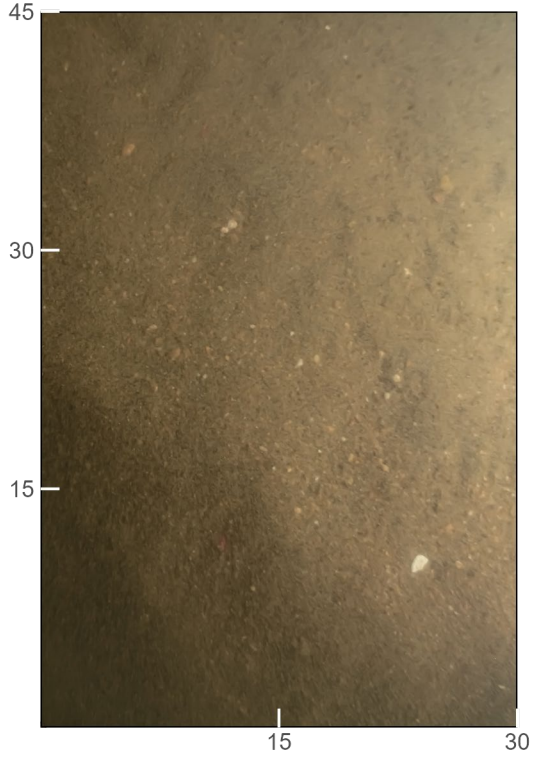
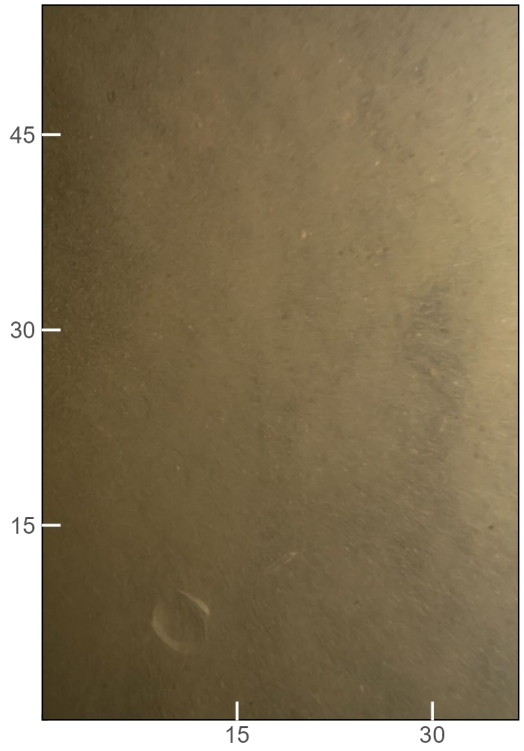
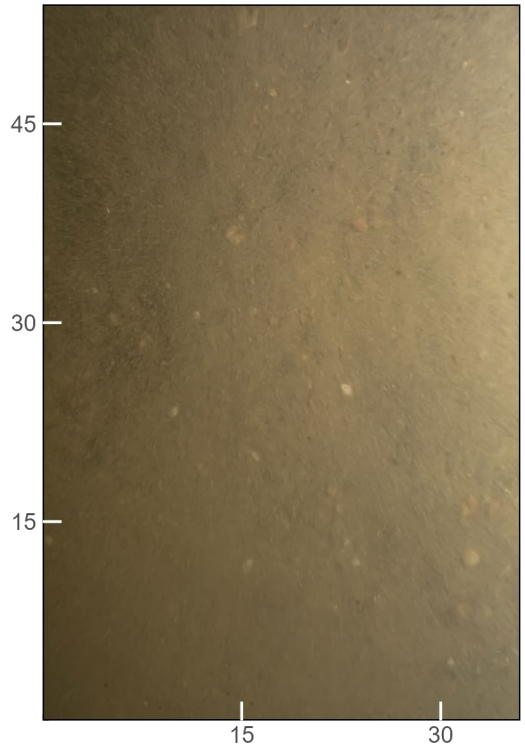


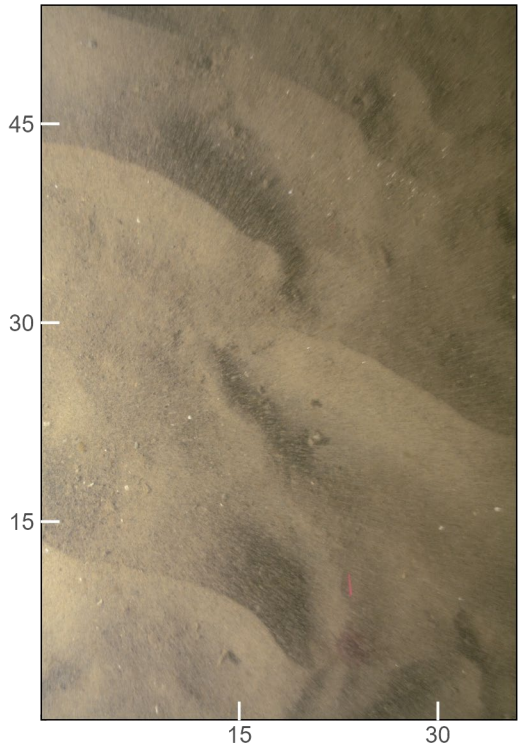
NECCT-SP-349-B



NECCT-SP-349-C



NECCT-SP-349-E



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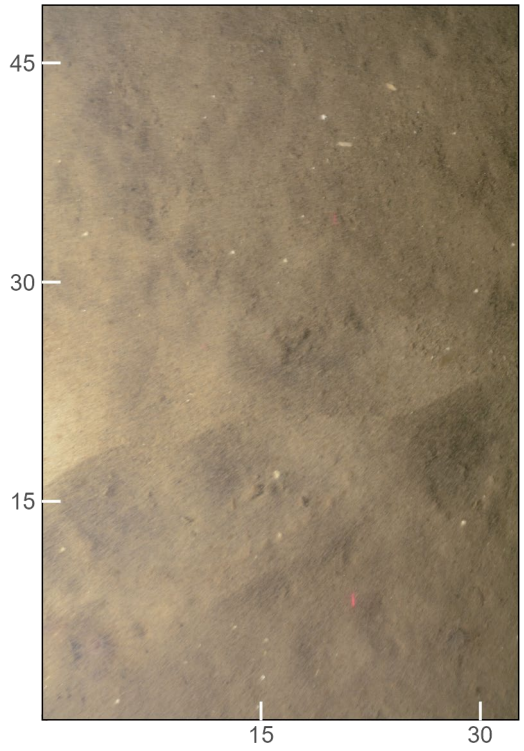
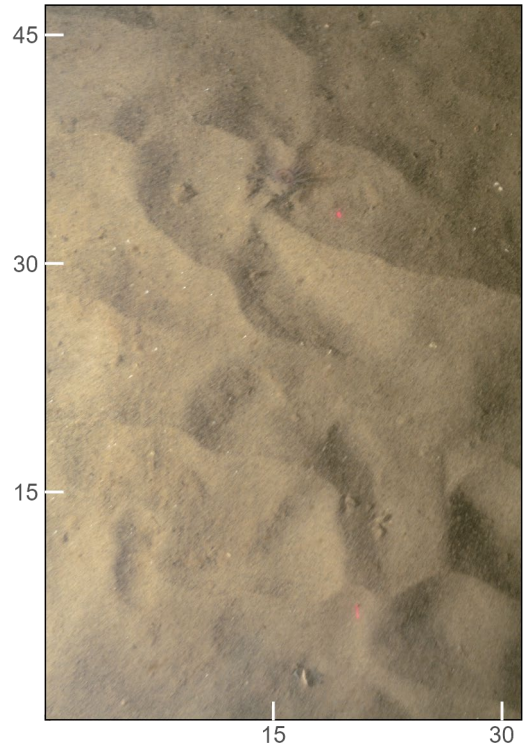


NECCT-SP-351-C



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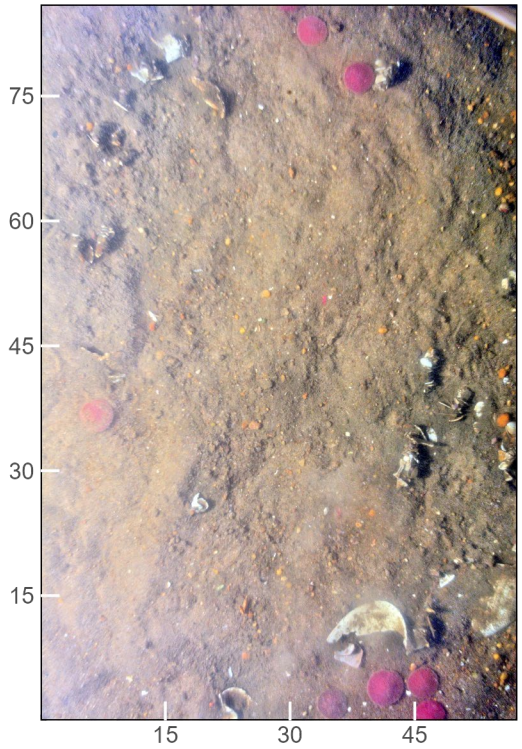

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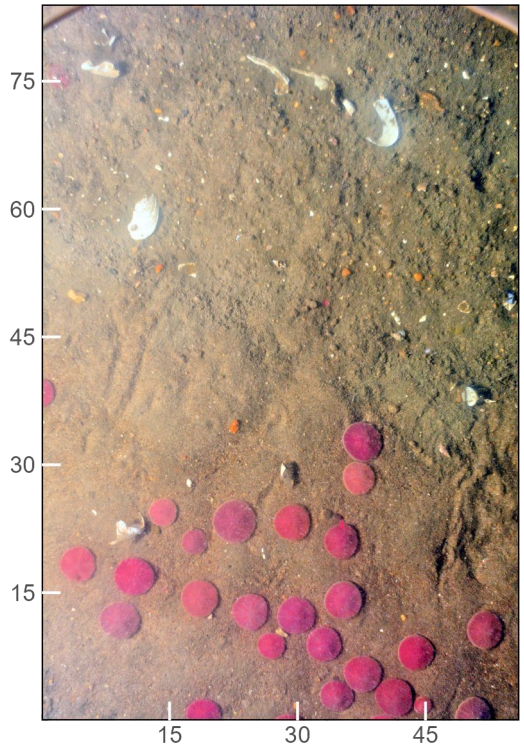

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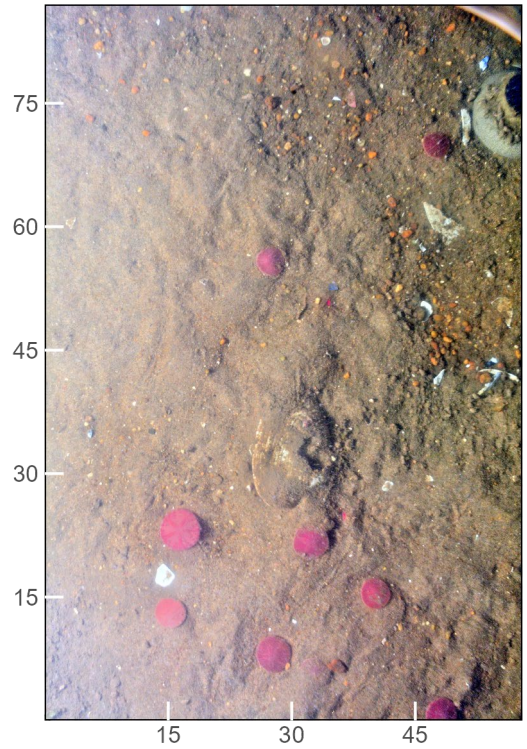

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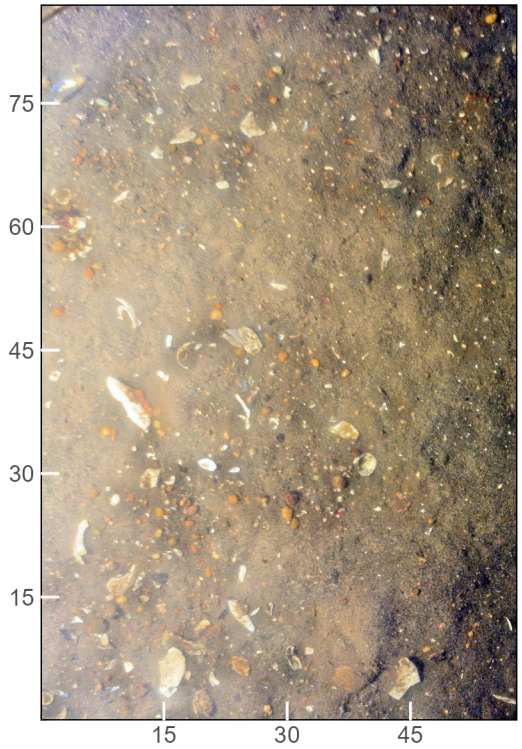

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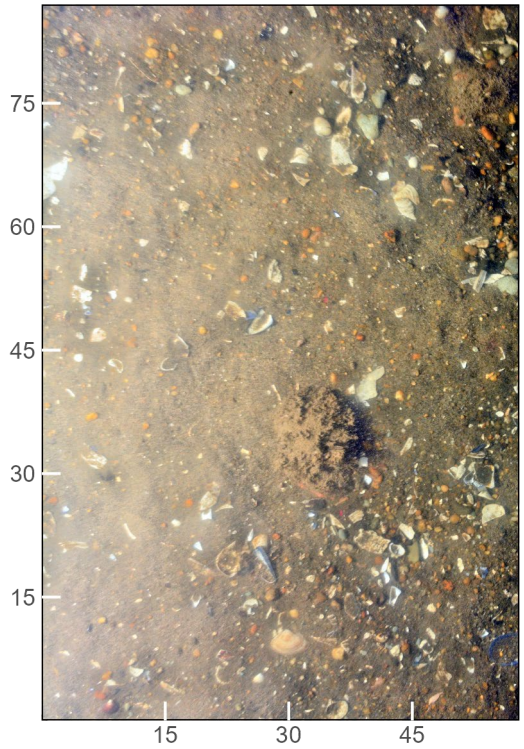

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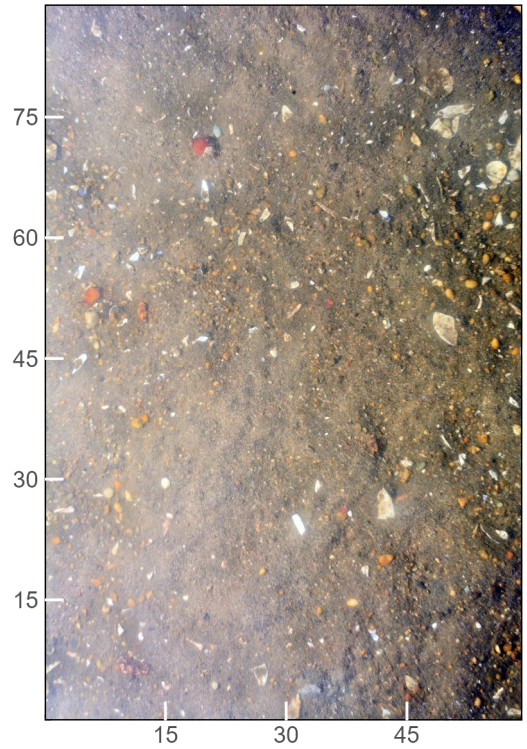

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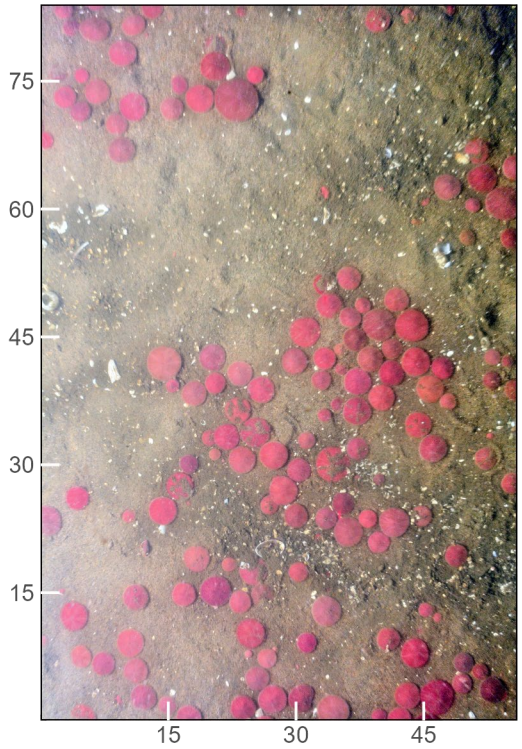
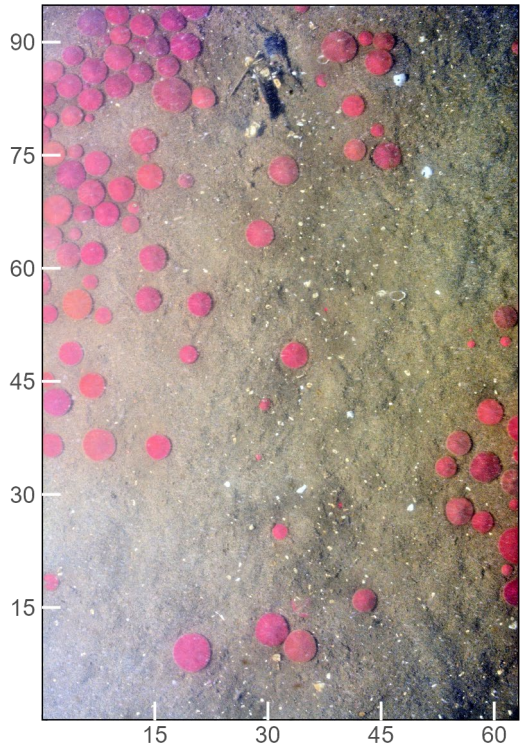
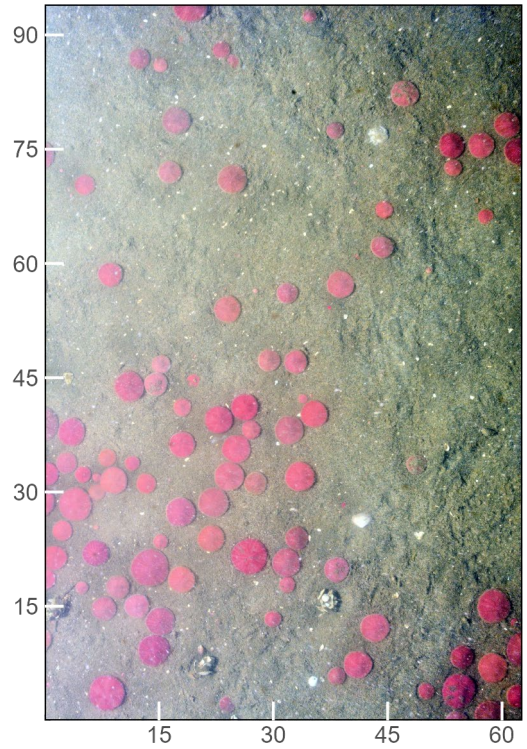


NECCT-SP-356-A



NECCT-SP-356-B



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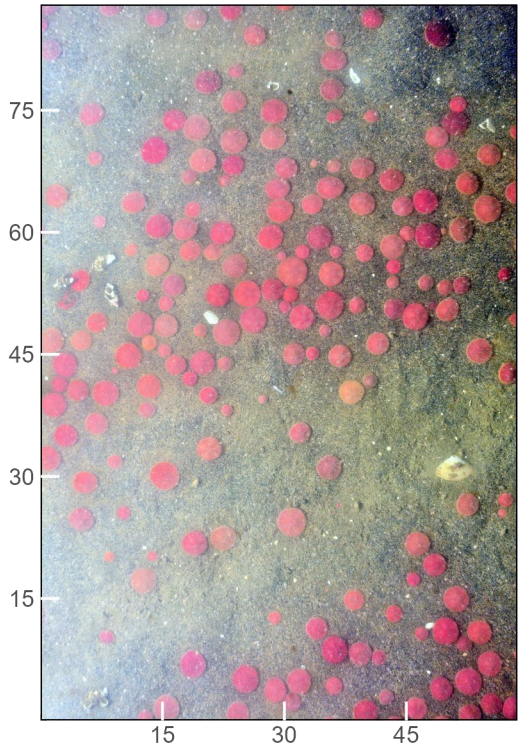

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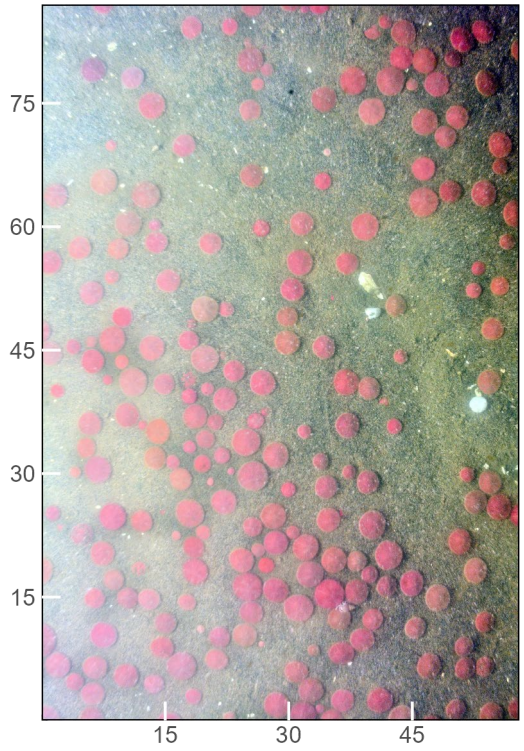

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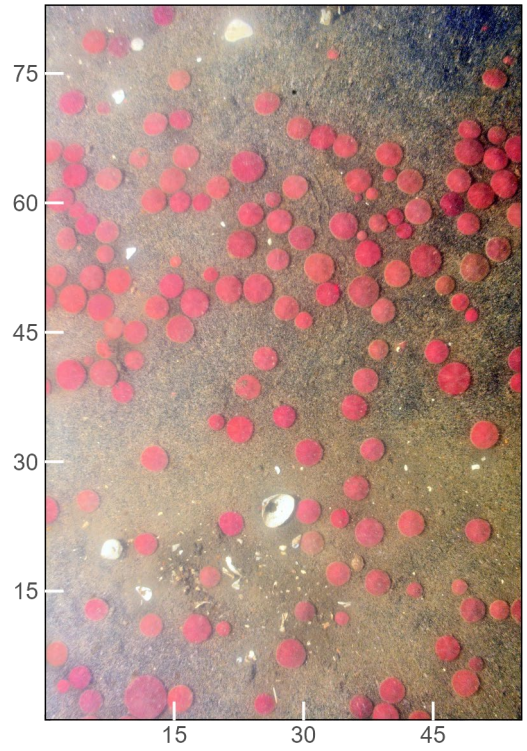

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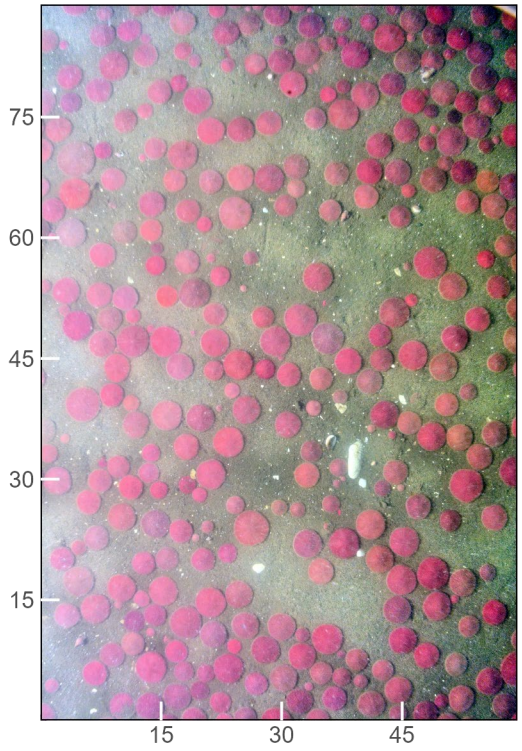

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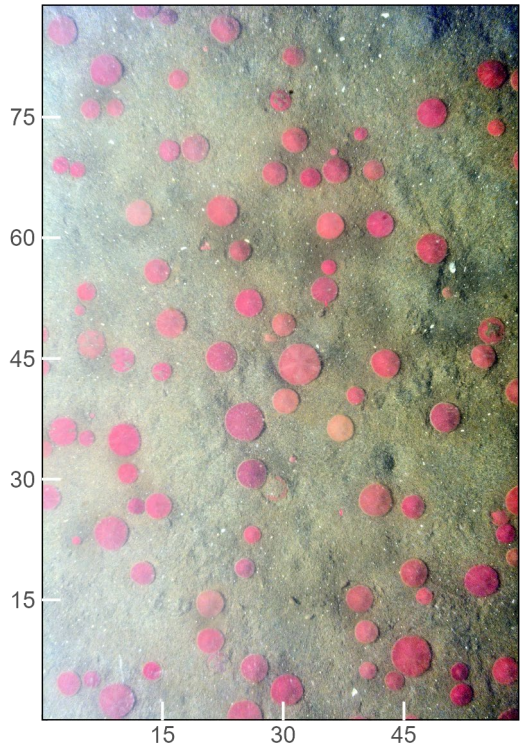

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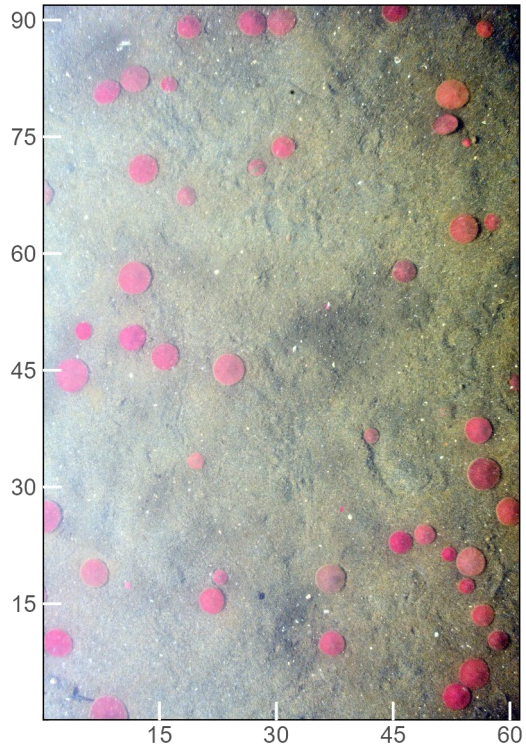
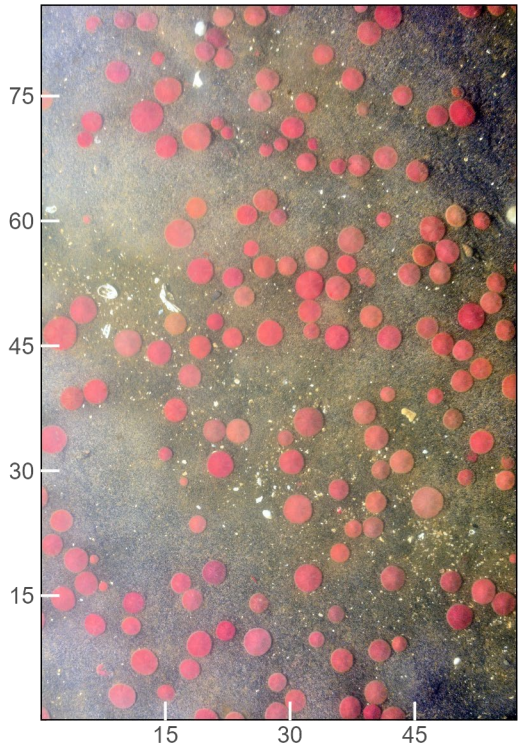


NECCNJ-SP-358-C



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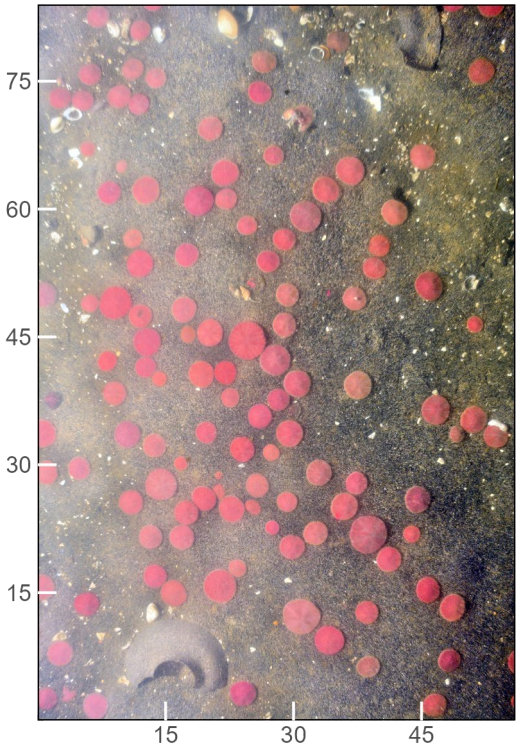
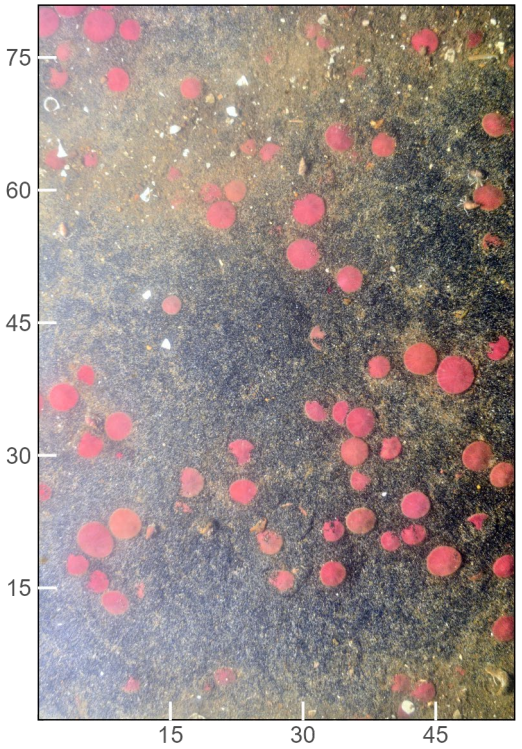


NECCNJ-SP-359-C



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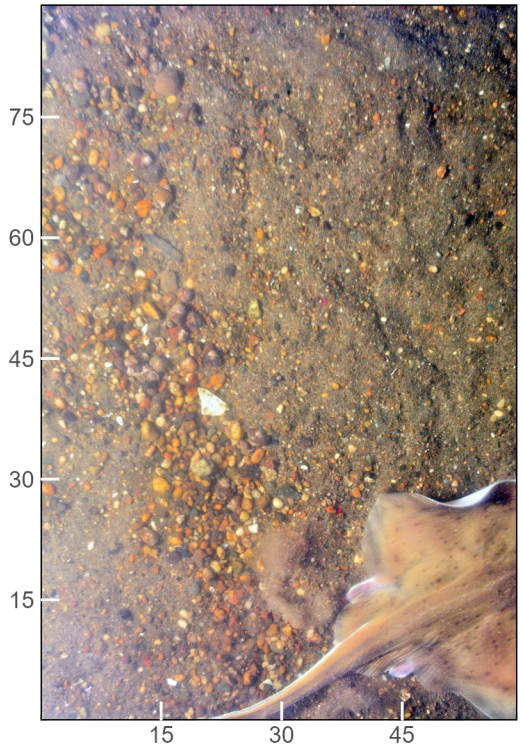

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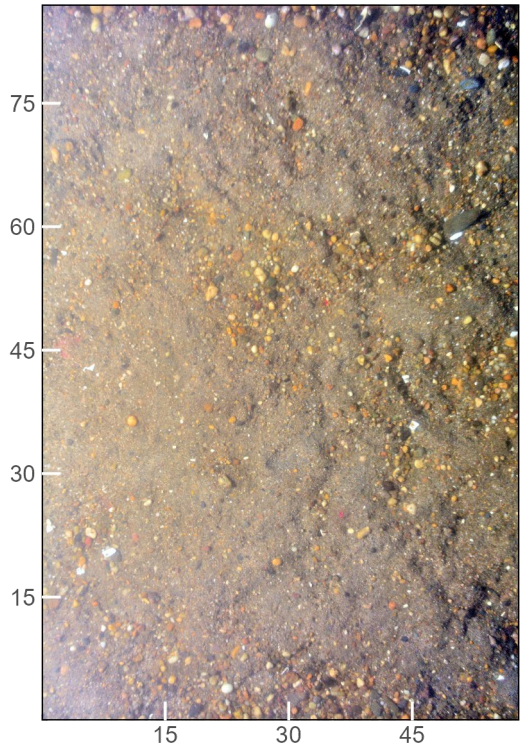
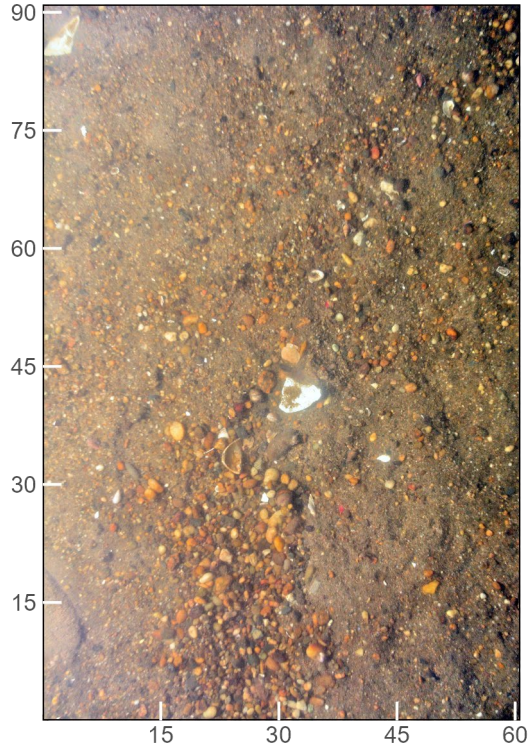


NECCNJ-SPC-362-C



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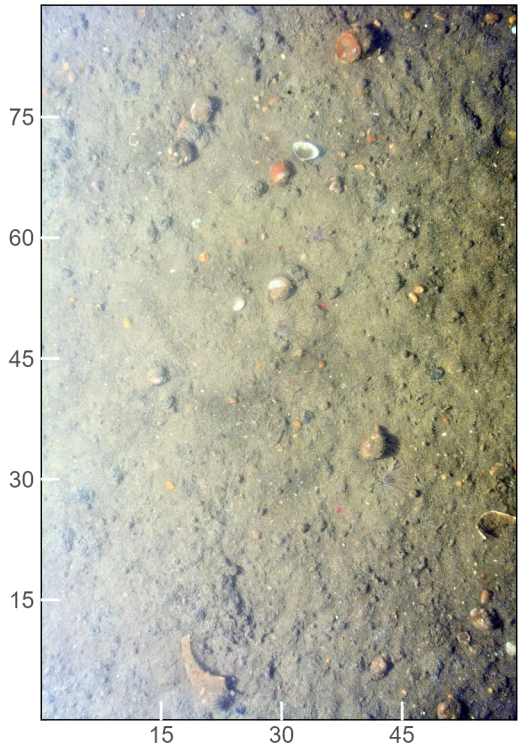

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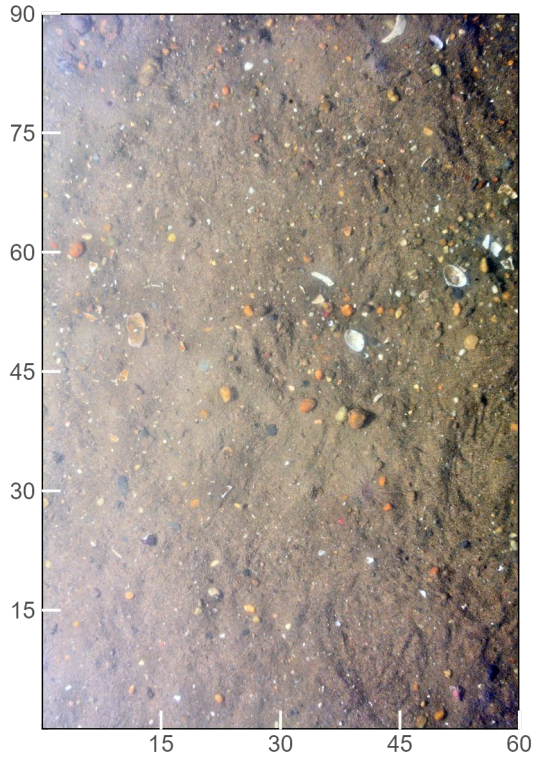

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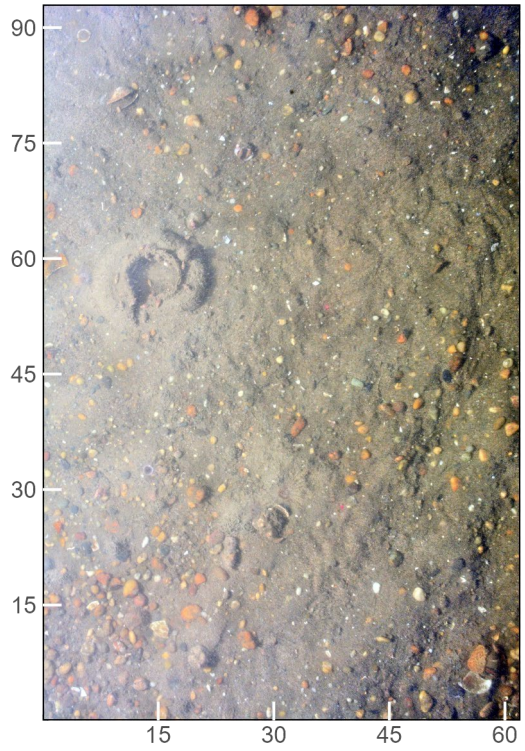
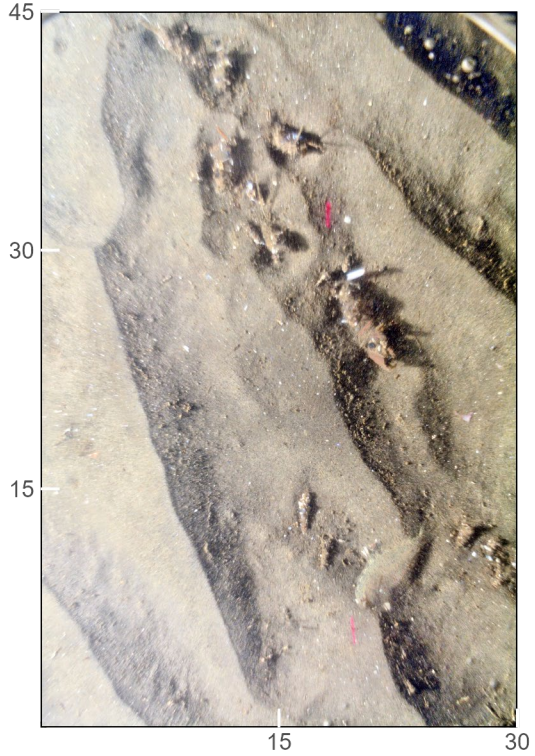


NECCNJ-SPC-363-D



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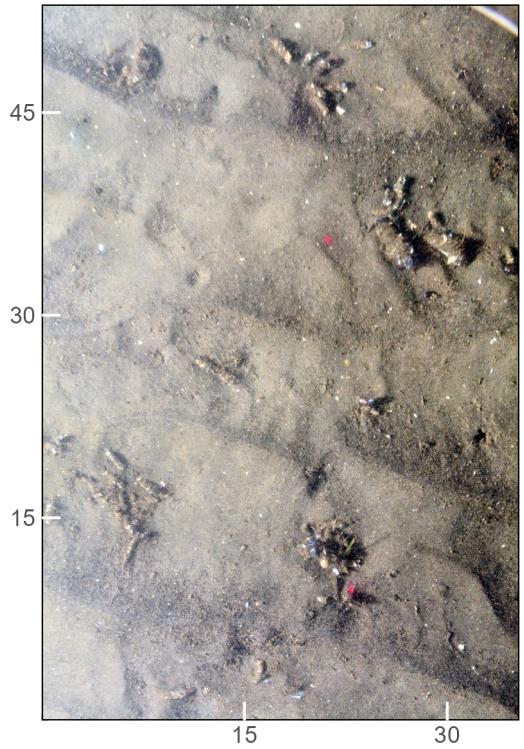

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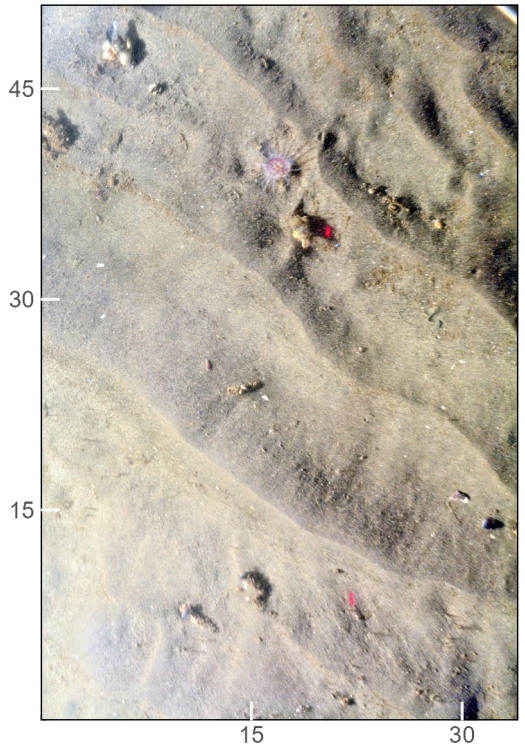

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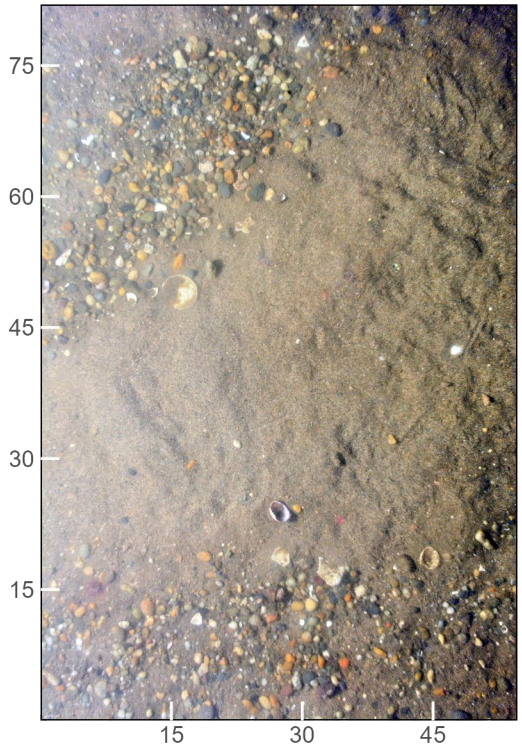
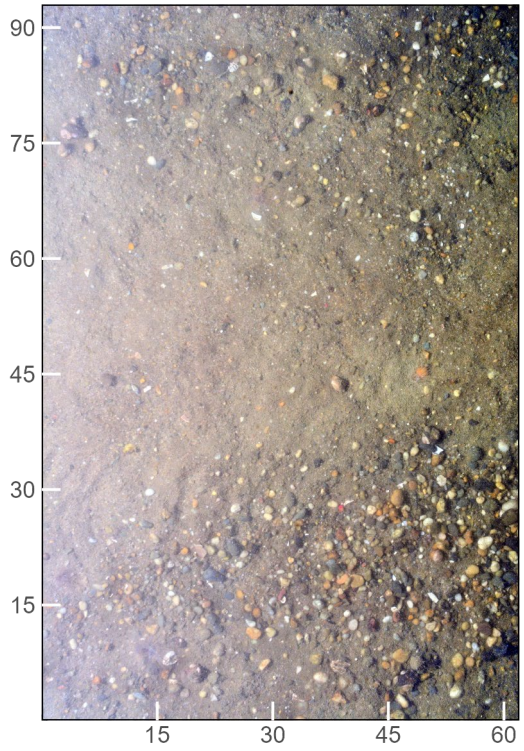
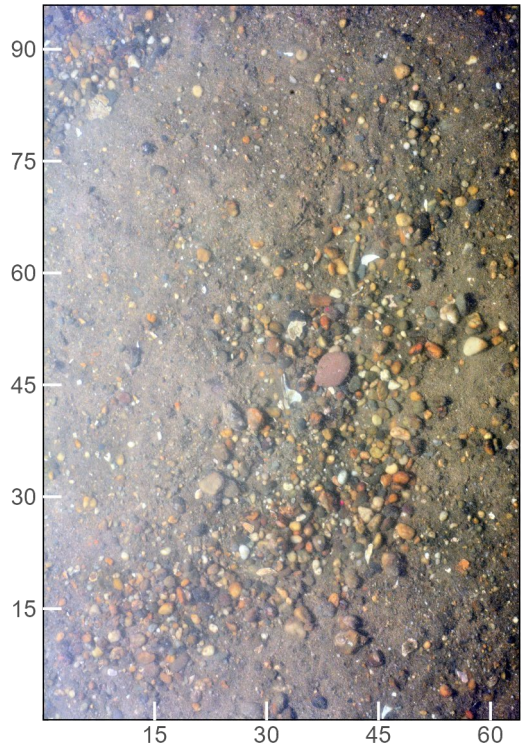


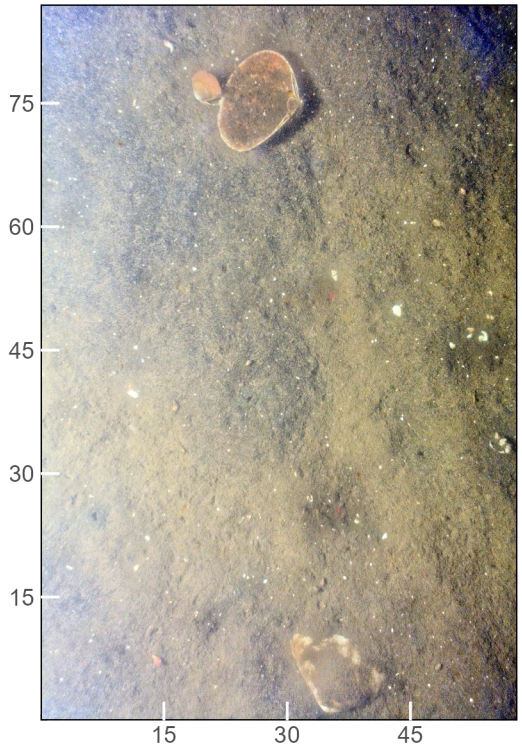
NECCNJ-SPC-365-A



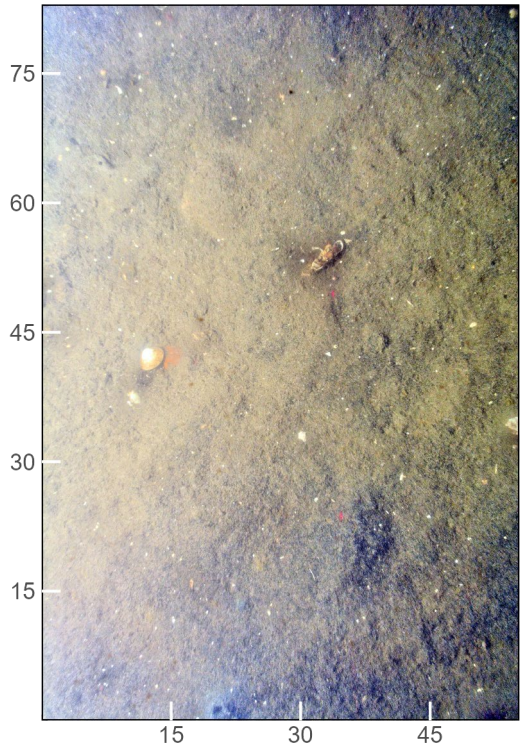
NECCNJ-SPC-365-B



NECCNJ-SPC-365-D



NECCNJ-SP-366-A



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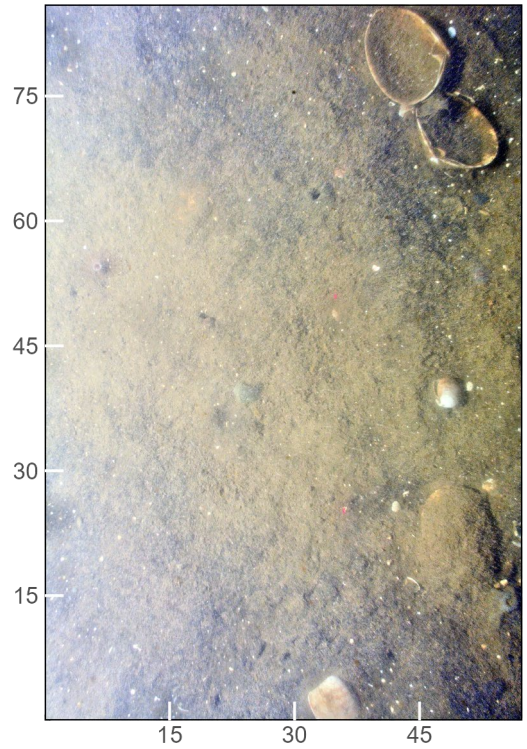

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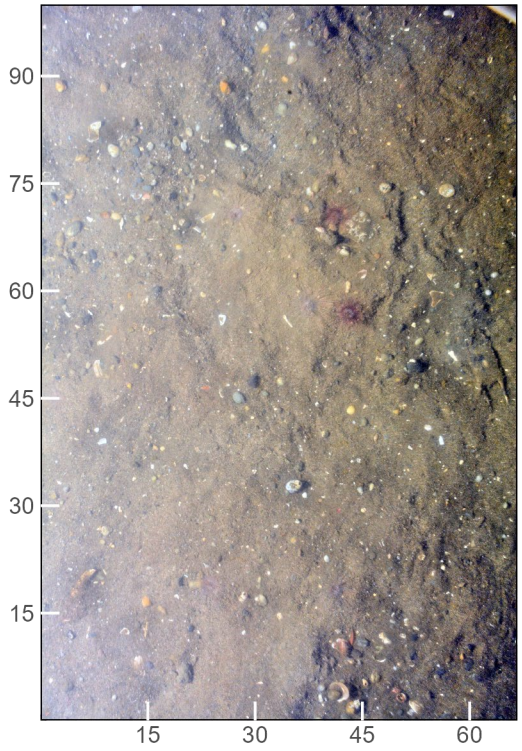
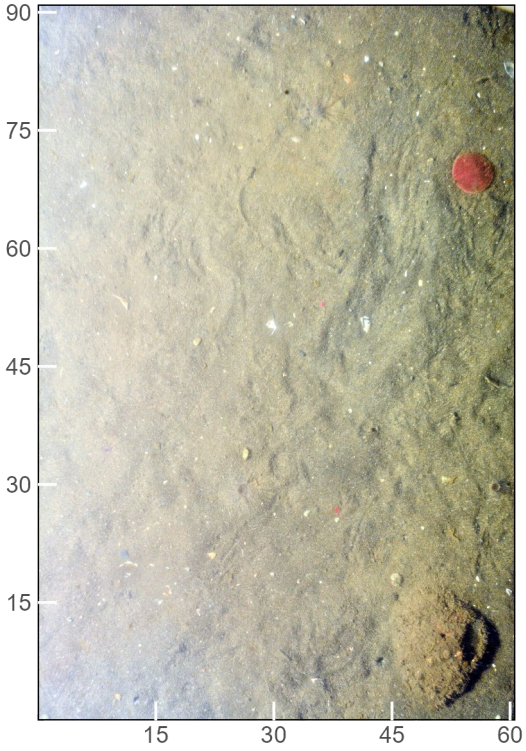


NECCNJ-SPGC-367-A



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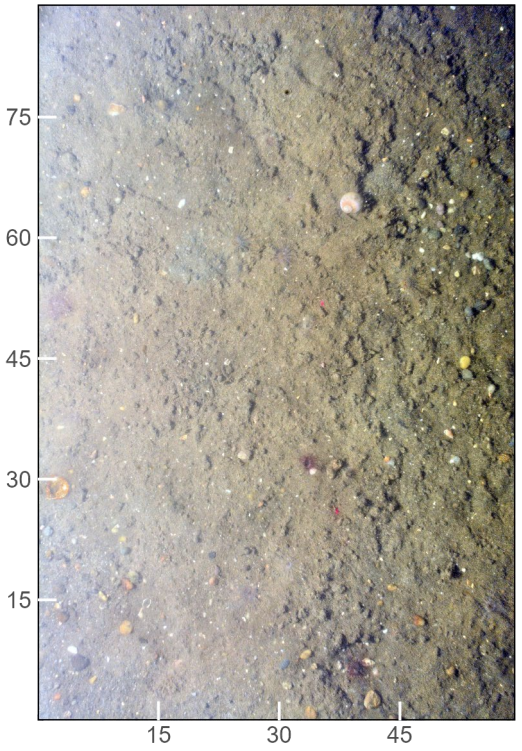
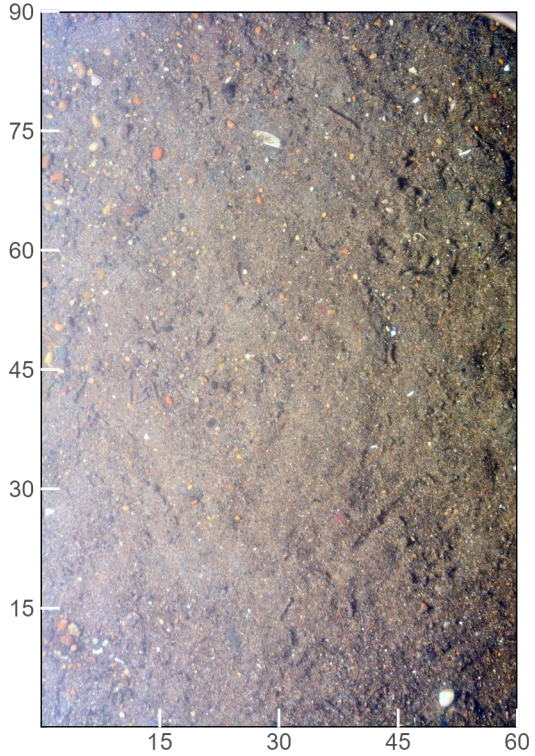


NECCNJ-SPGC-367-C



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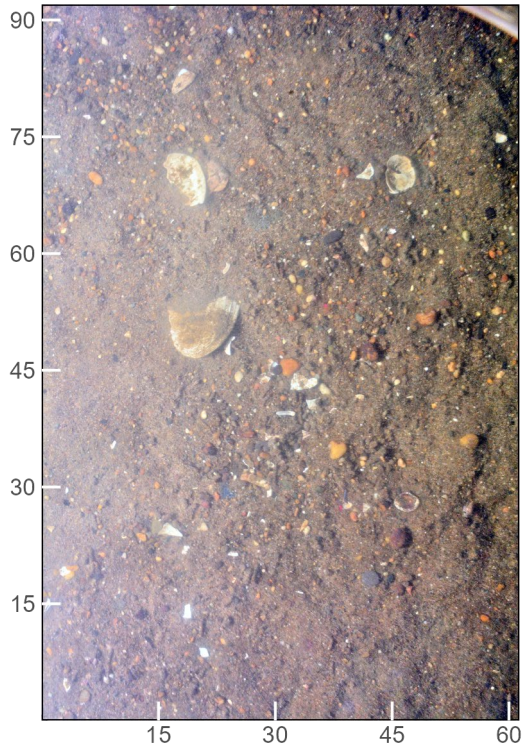

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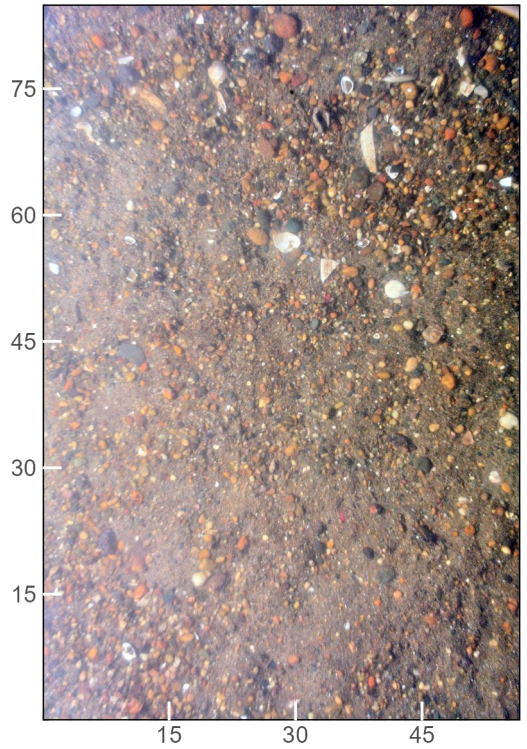

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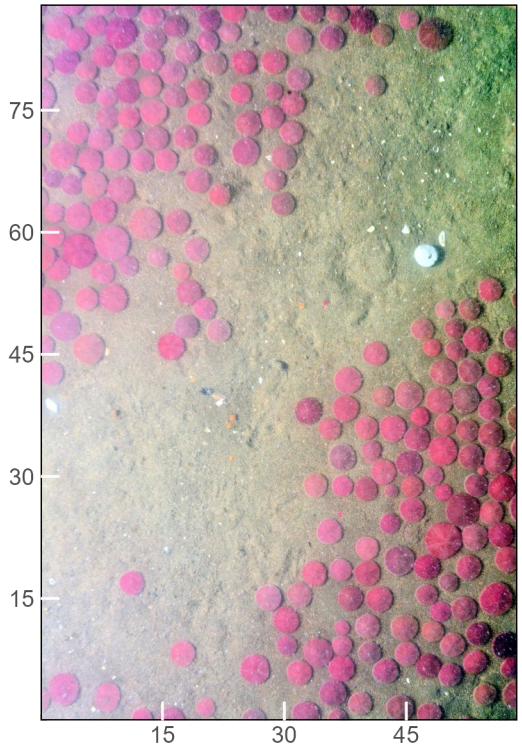
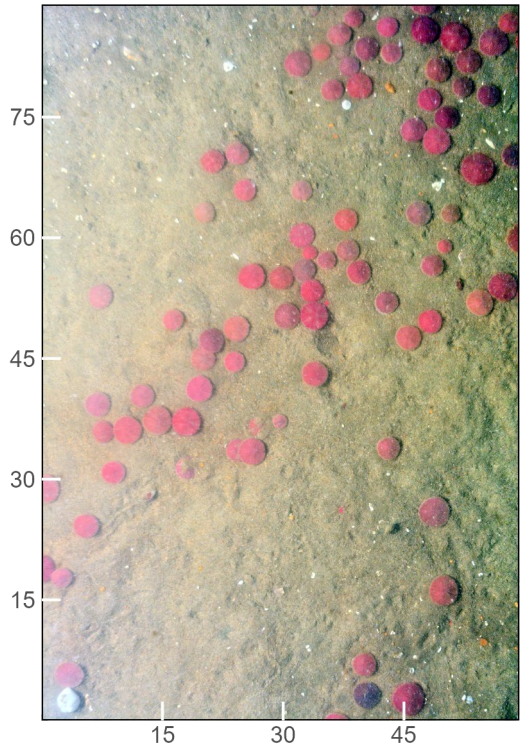
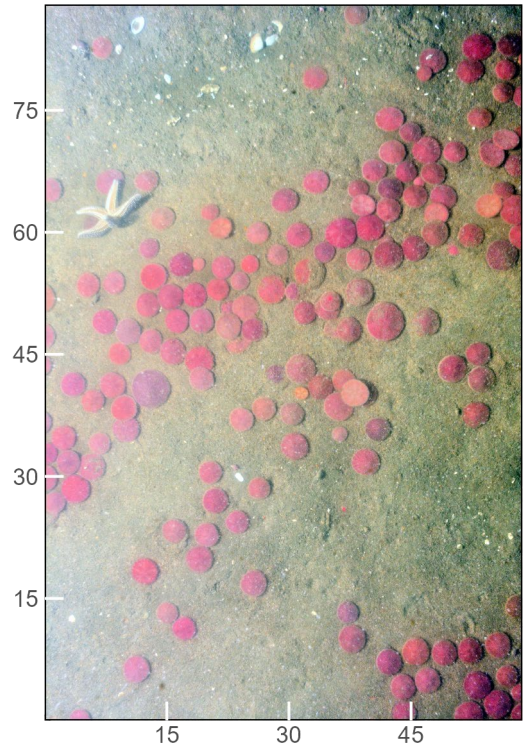


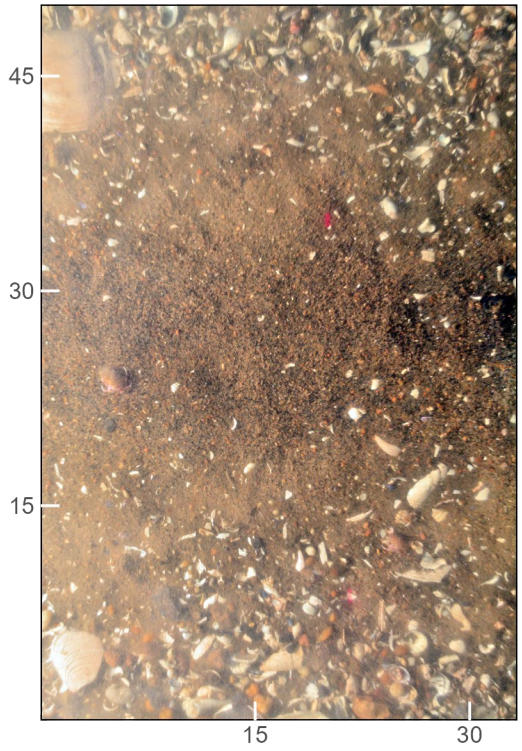
NECCT-SP-370-A



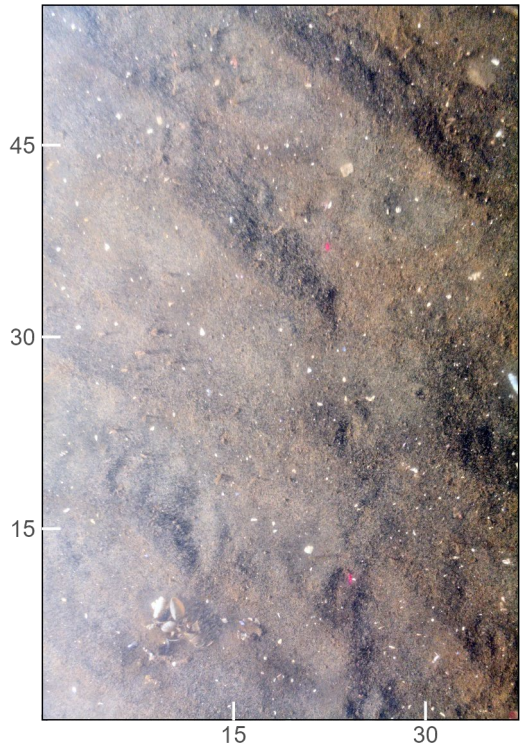
NECCT-SP-370-B



NECCT-SP-370-C



NECCNJ-SPG-371-F



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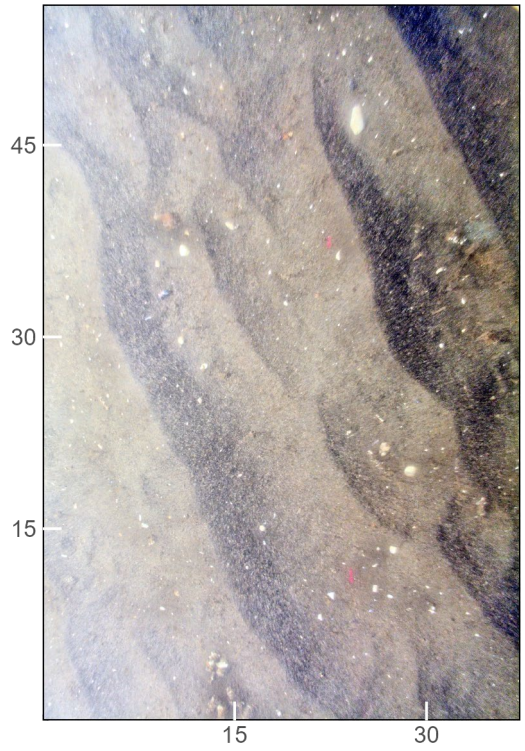

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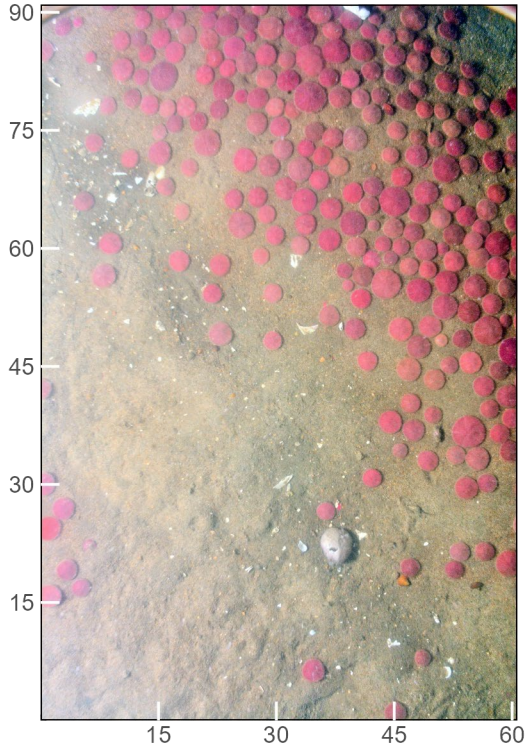
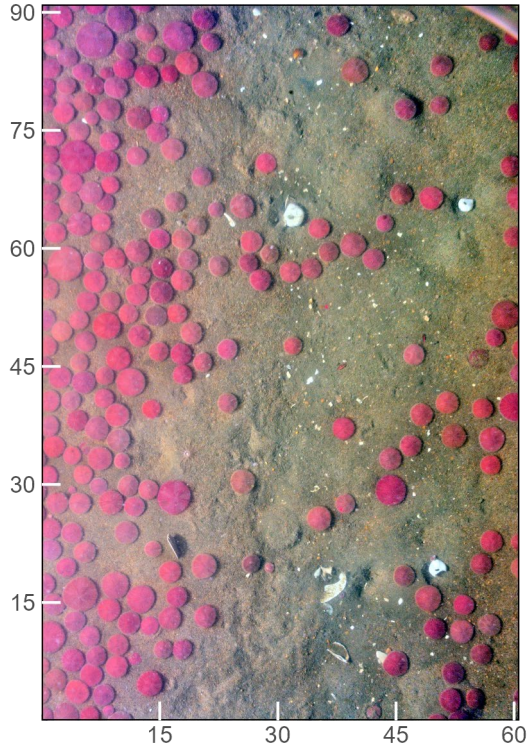
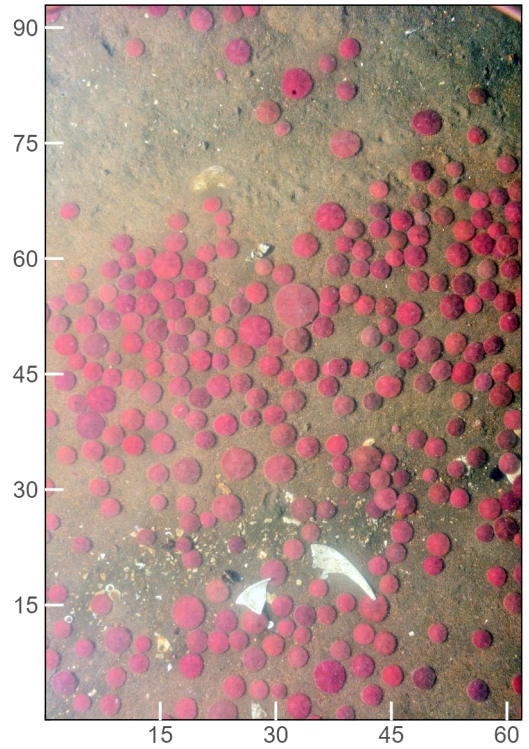


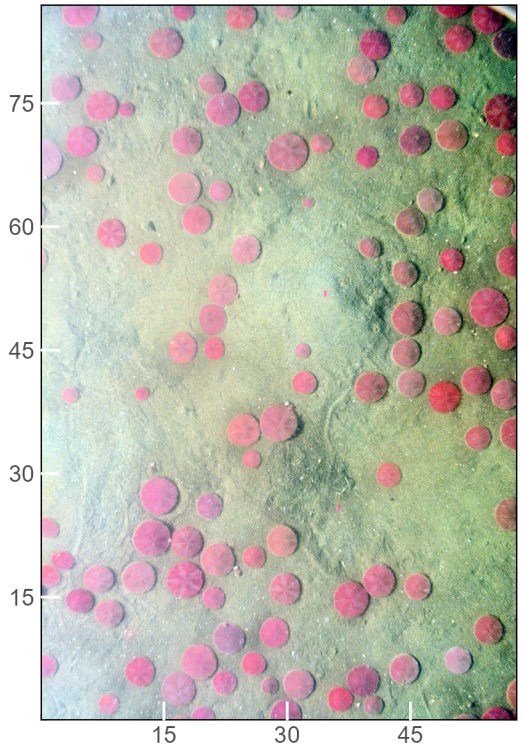
NECCT-SPG-372-A



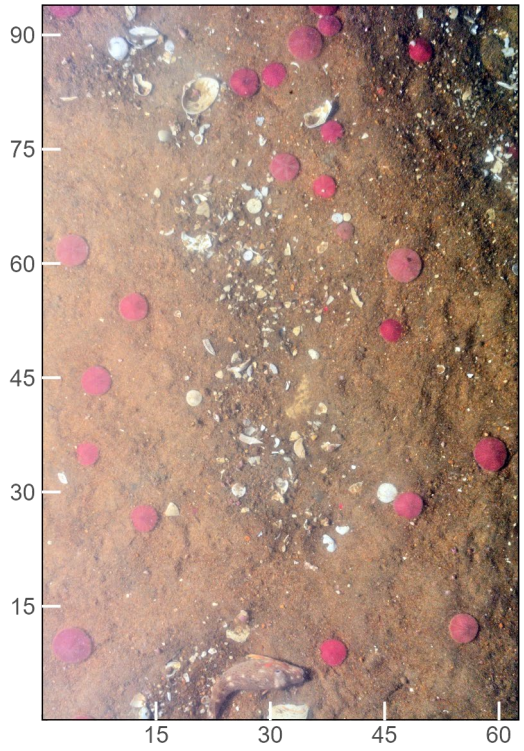
NECCT-SPG-372-B



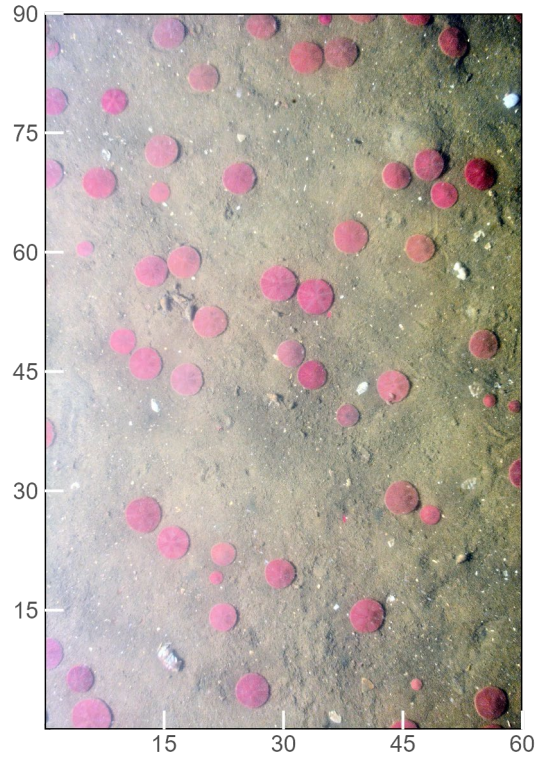
NECCT-SPG-372-C



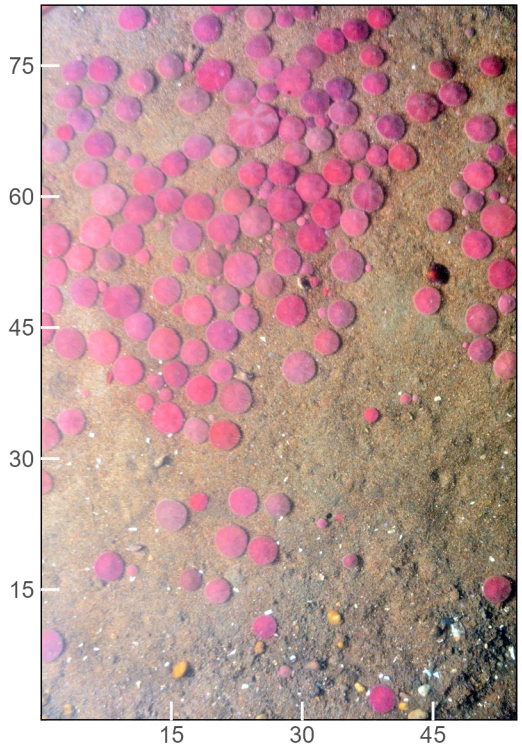
NECCT-SP-374-A



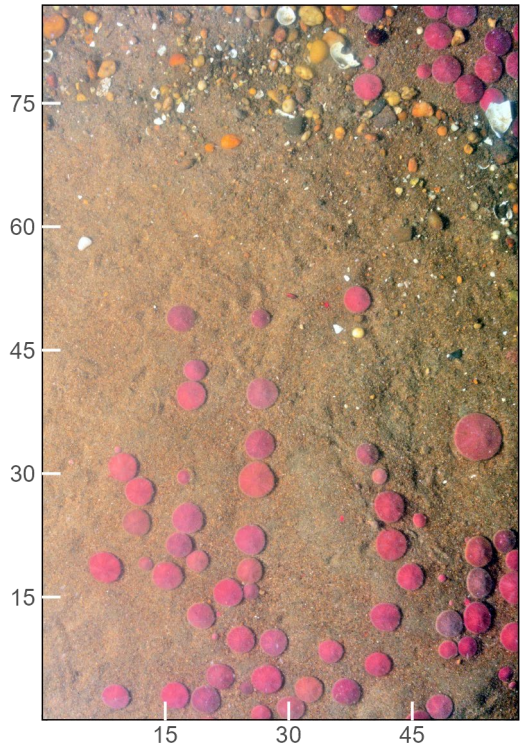
NECCT-SP-374-D



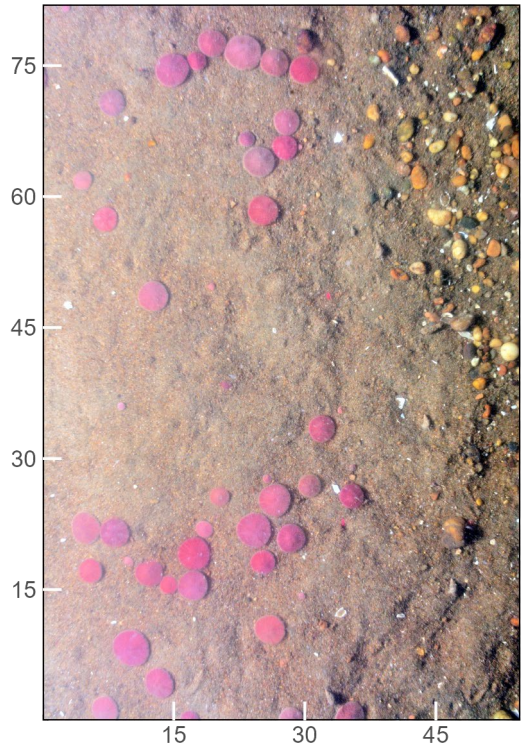
NECCT-SP-374-E



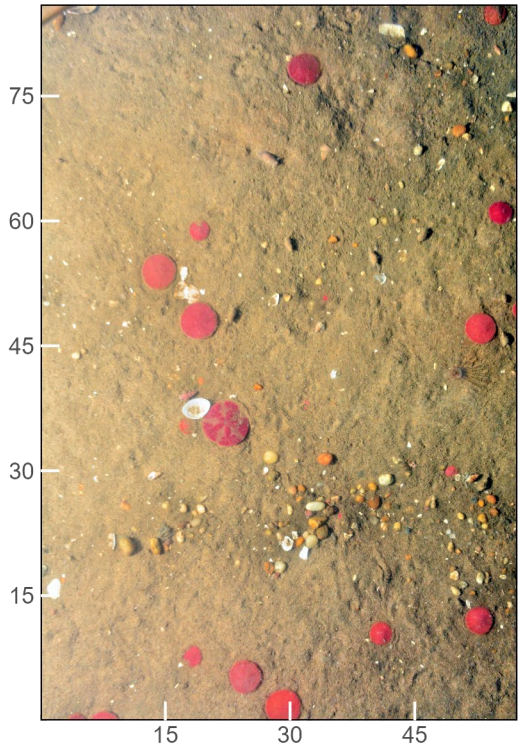
NECCT-SP-376-A



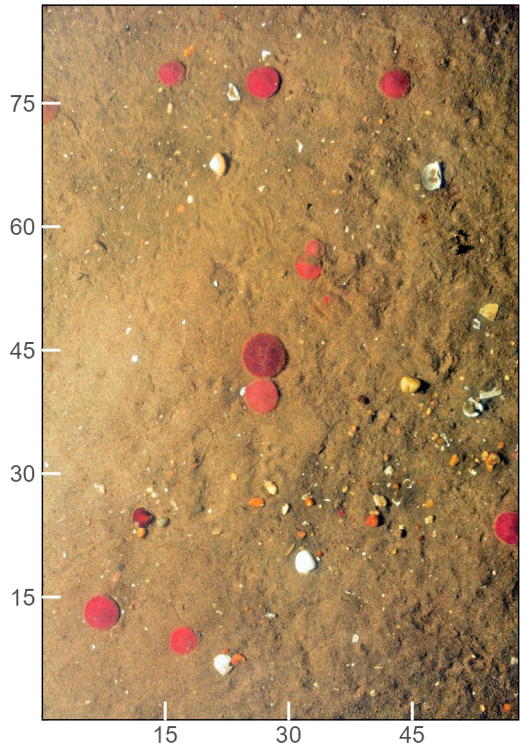
NECCT-SP-376-B



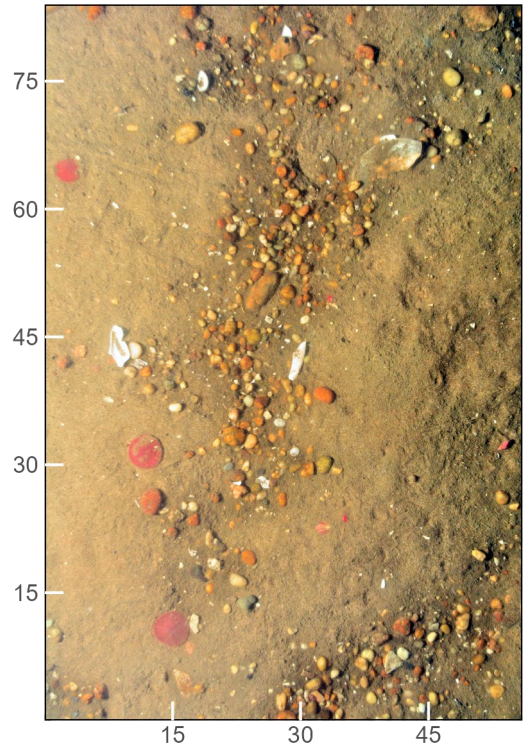
NECCT-SP-376-C



NECCT-SPG-378-A



NECCT-SPG-378-D



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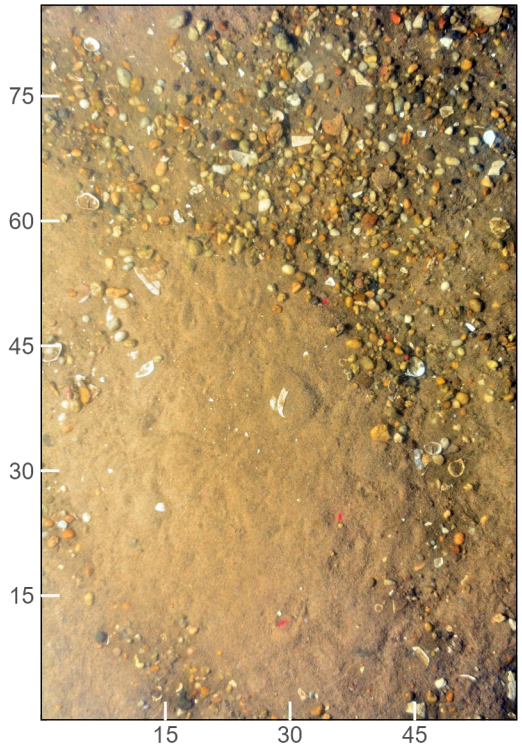
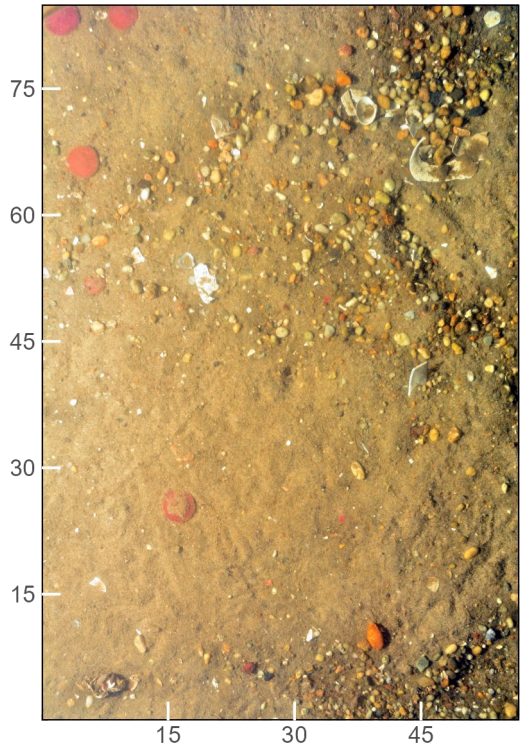
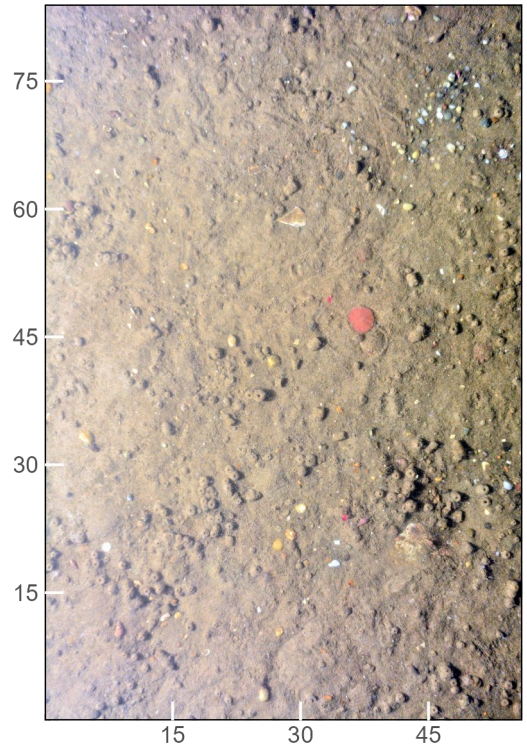


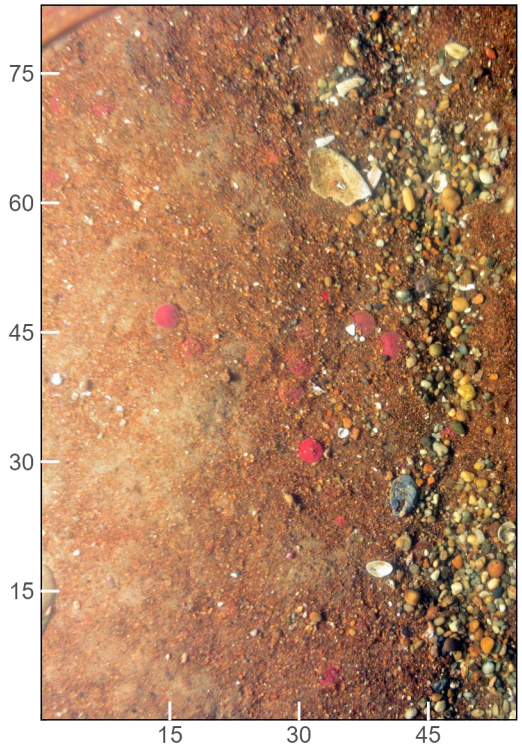
NECCT-SP-379-A



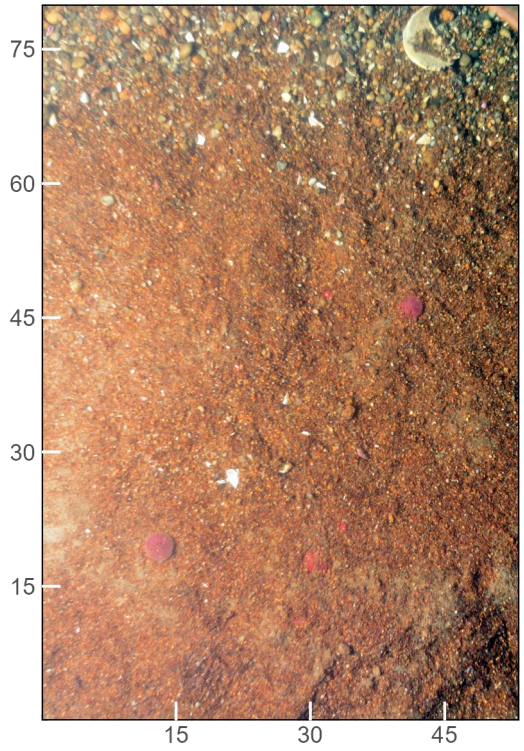
NECCT-SP-379-B



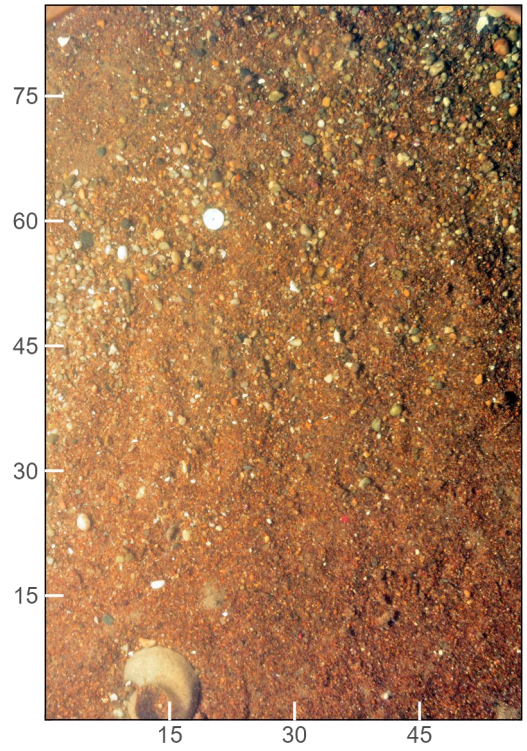
NECCT-SP-379-E



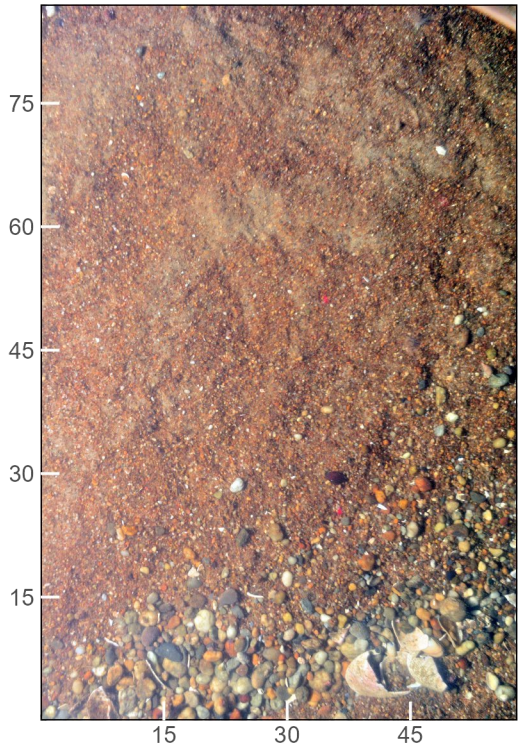
NECCT-SP-381-A



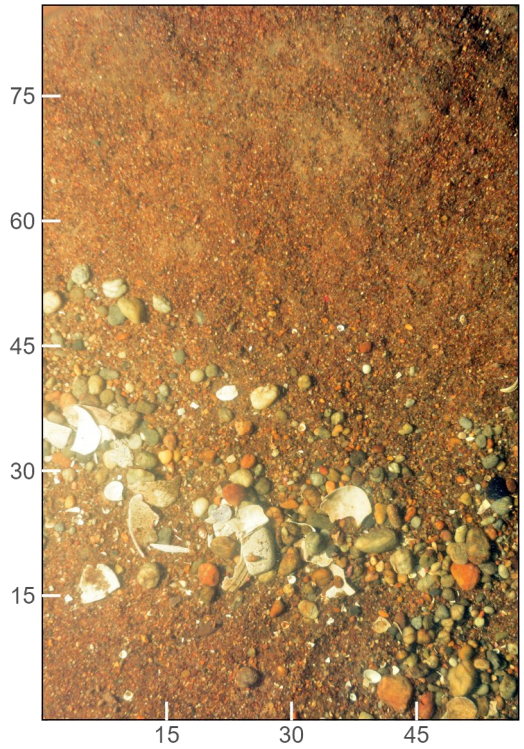
NECCT-SP-381-C



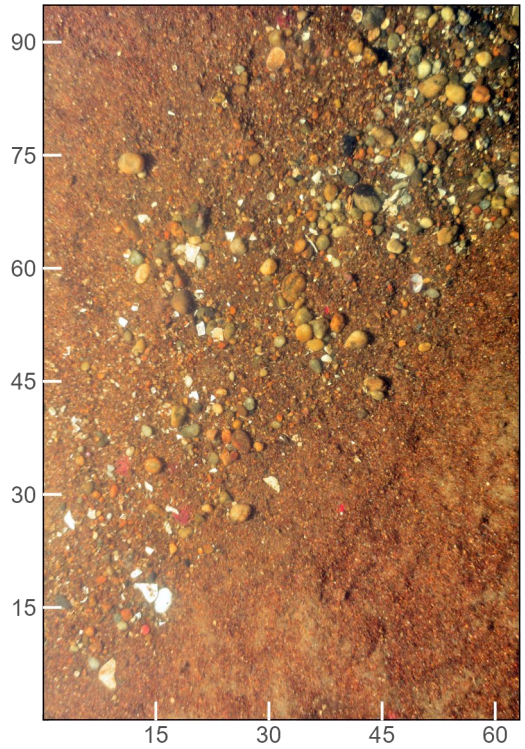
NECCT-SP-381-D



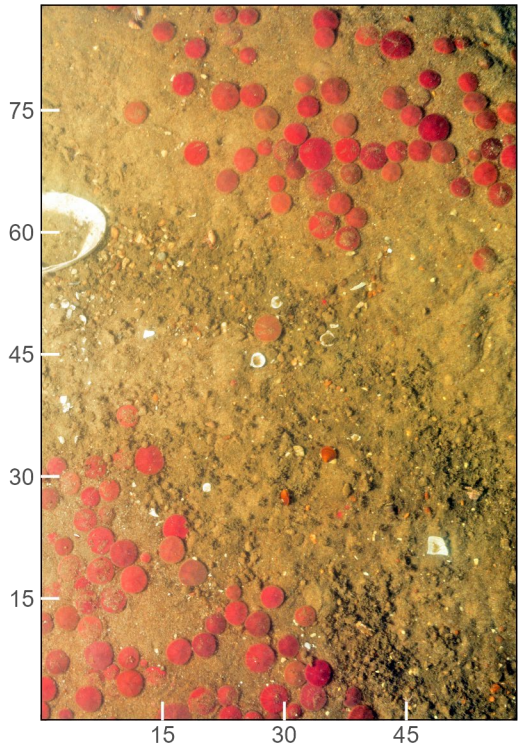
NECCT-SP-384-A



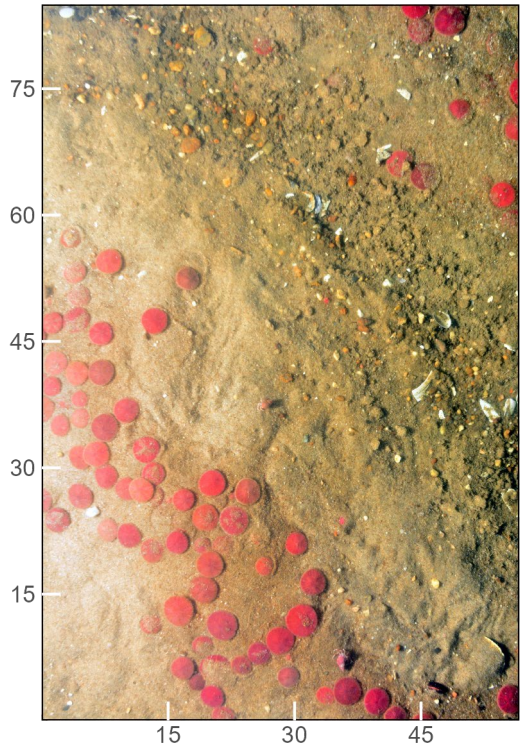
NECCT-SP-384-B



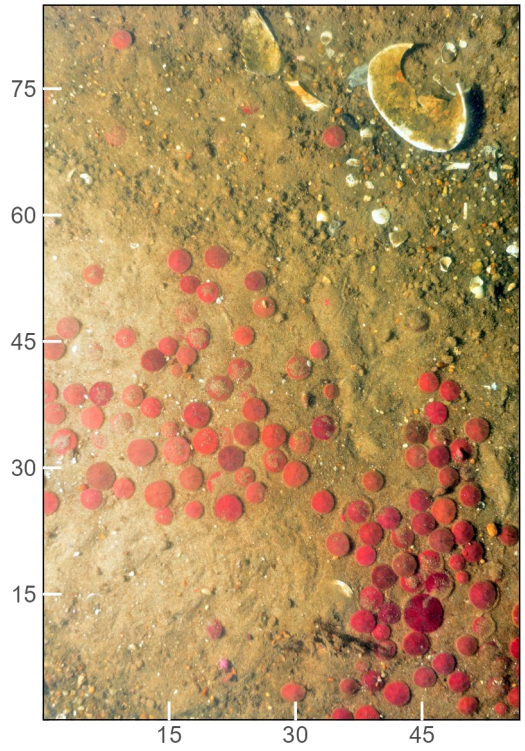
NECCT-SP-384-C



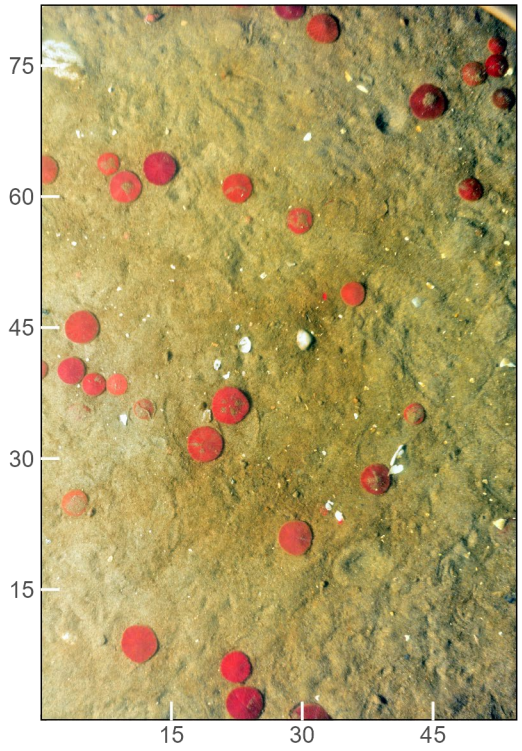
NECCT-SPG-385-B



NECCT-SPG-385-C



NECCT-SPG-385-D



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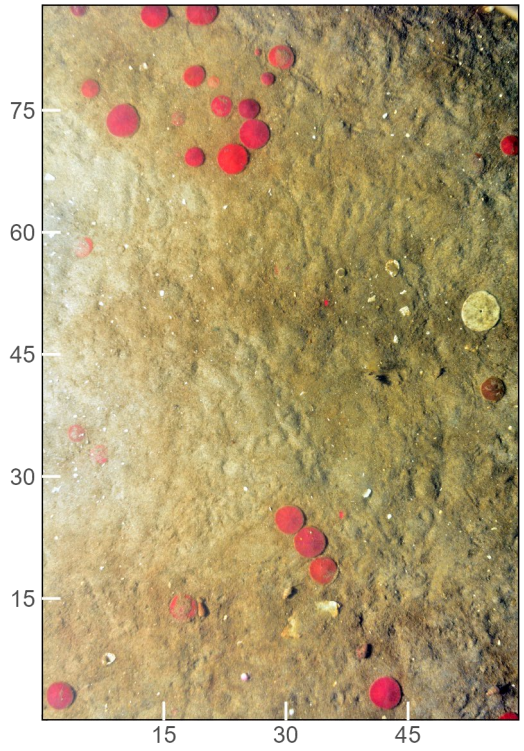
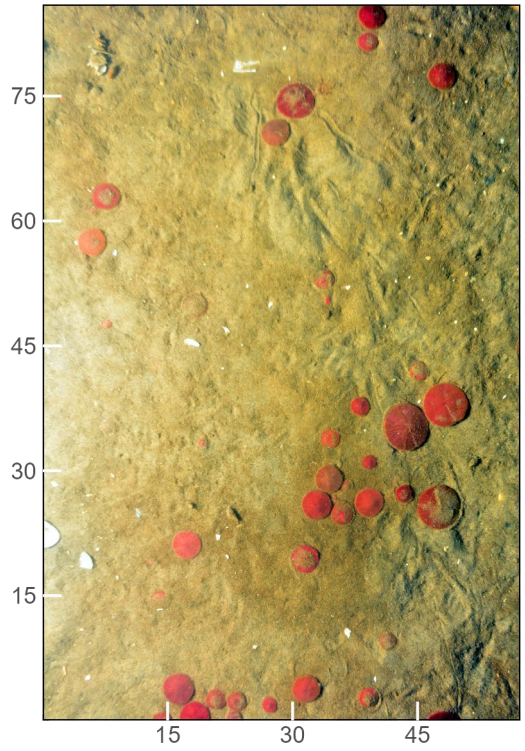
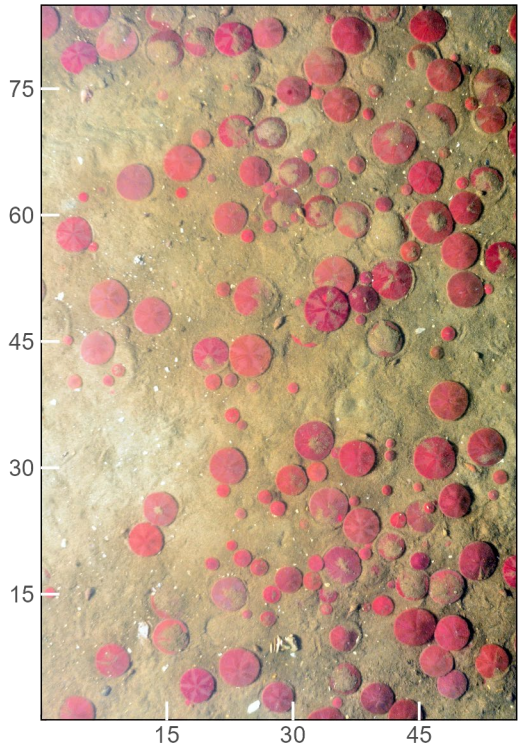


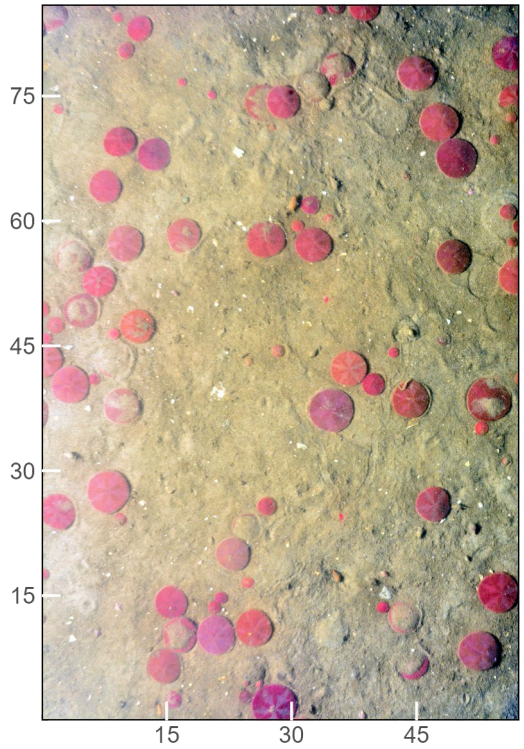
NECCT-SP-386-B



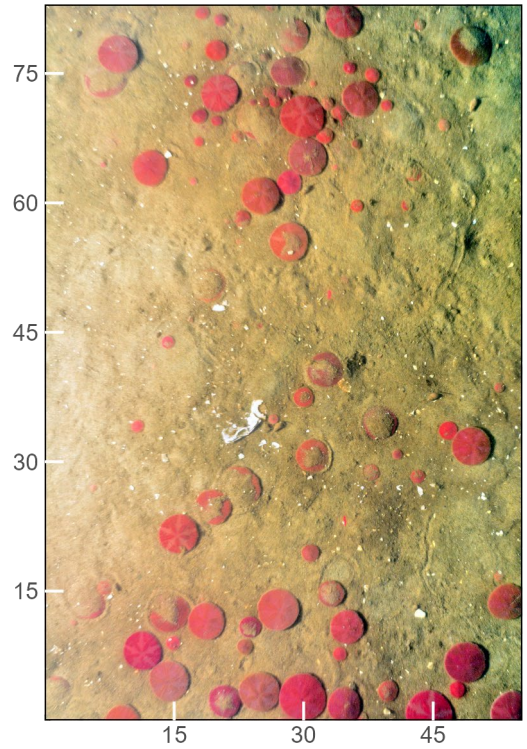
NECCT-SP-386-D



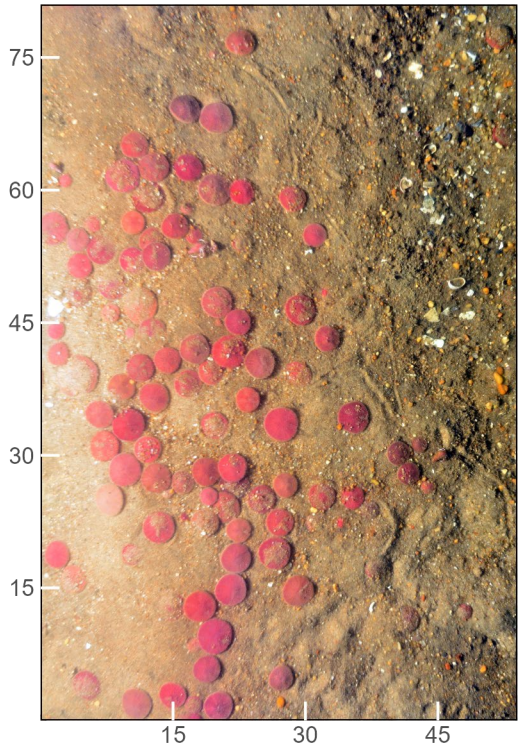
NECCT-SP-388-B



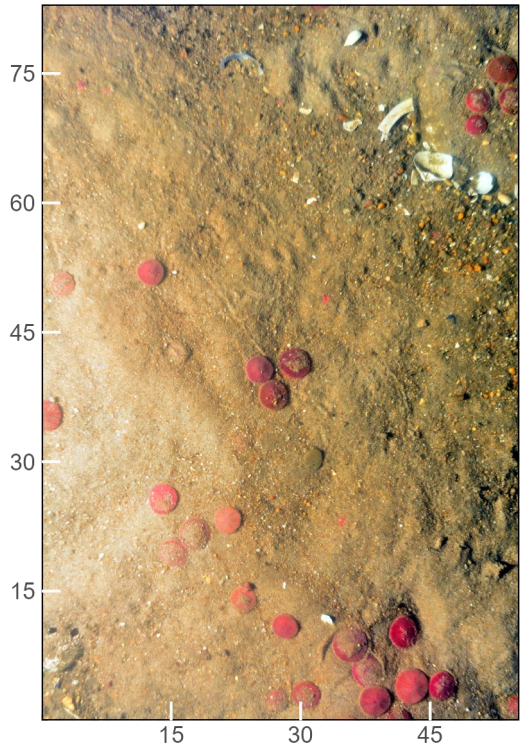
NECCT-SP-388-C



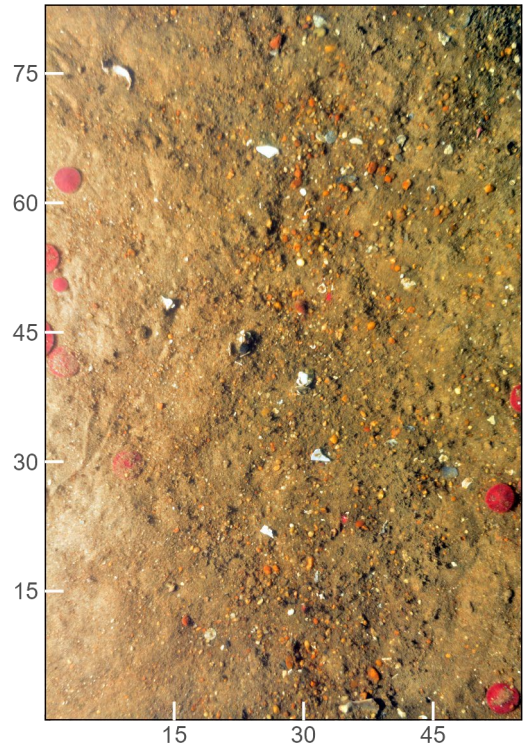
NECCT-SP-388-E



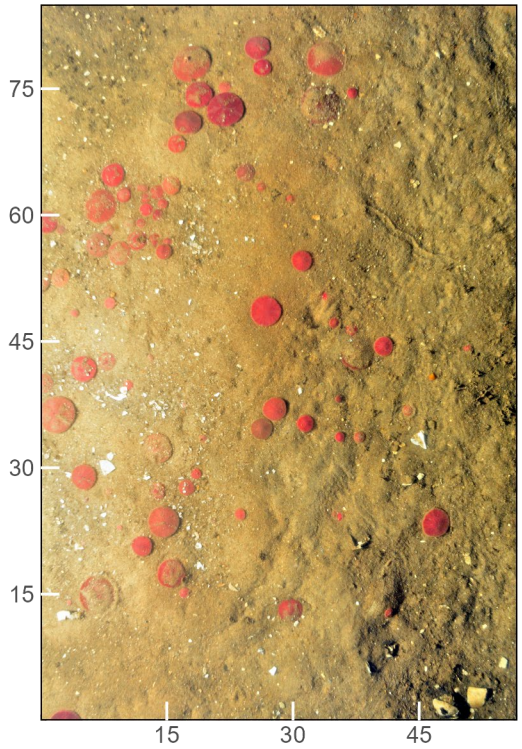
NECCT-SPG-391-A



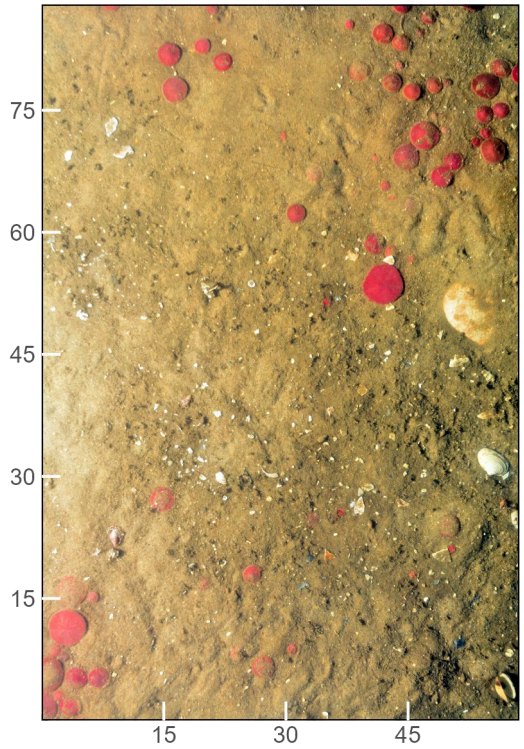
NECCT-SPG-391-B



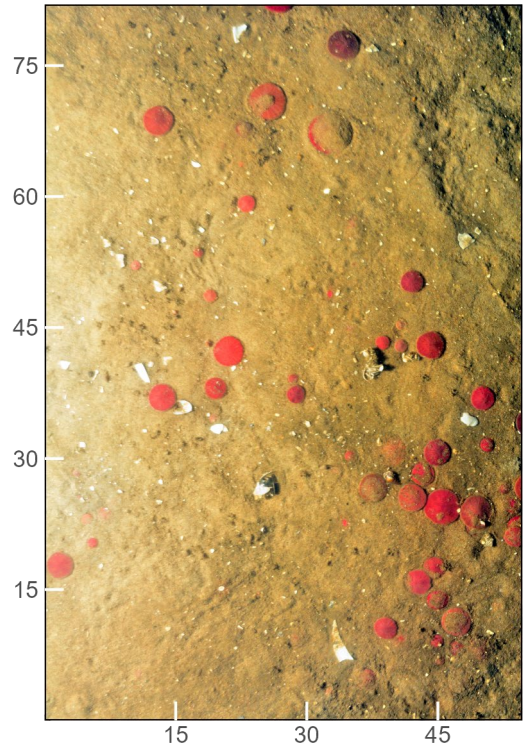
NECCT-SPG-391-C



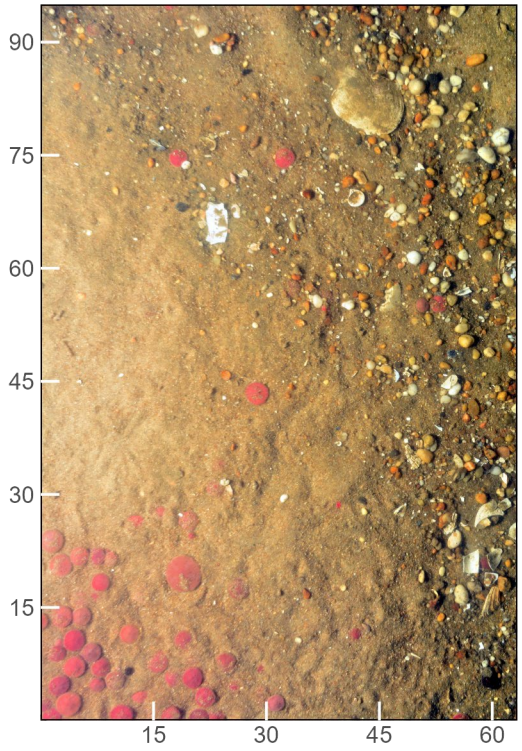
NECCT-SP-395-A



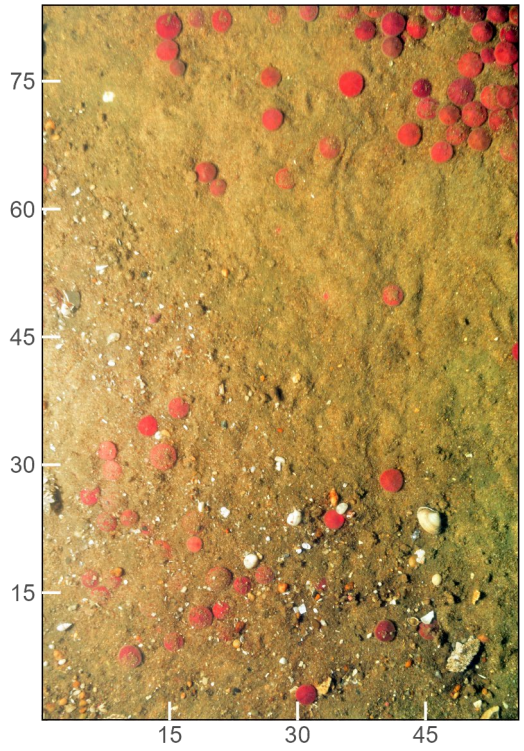
NECCT-SP-395-B



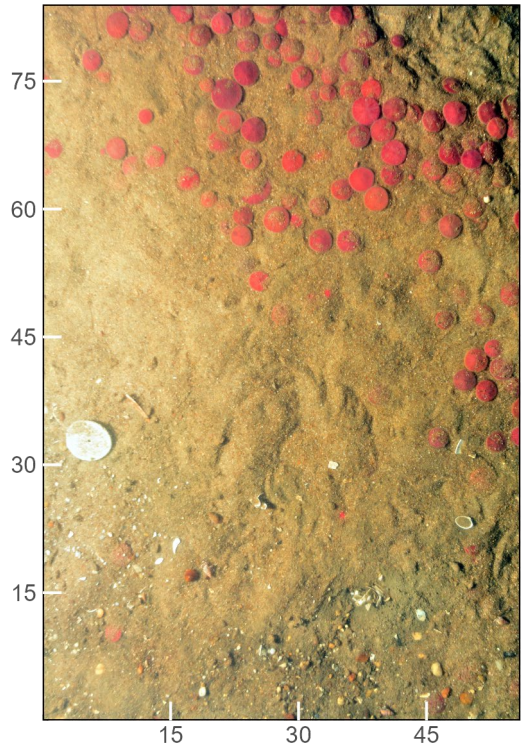
NECCT-SP-395-C



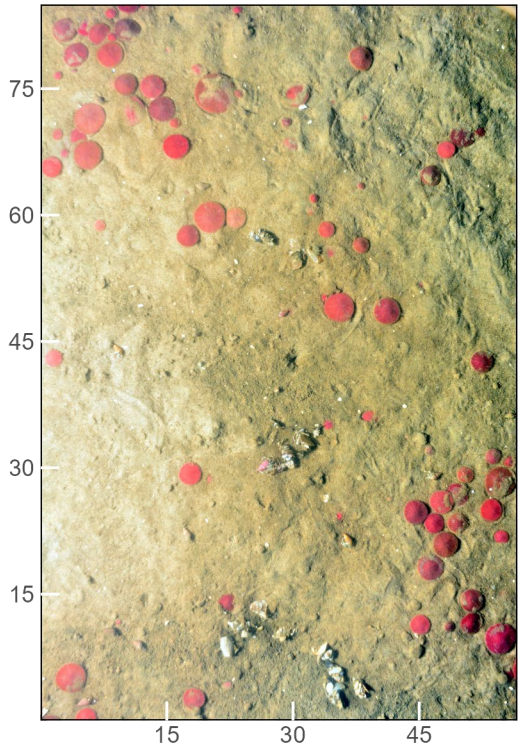
NECCT-SP-396-A



NECCT-SP-396-B



NECCT-SP-396-C



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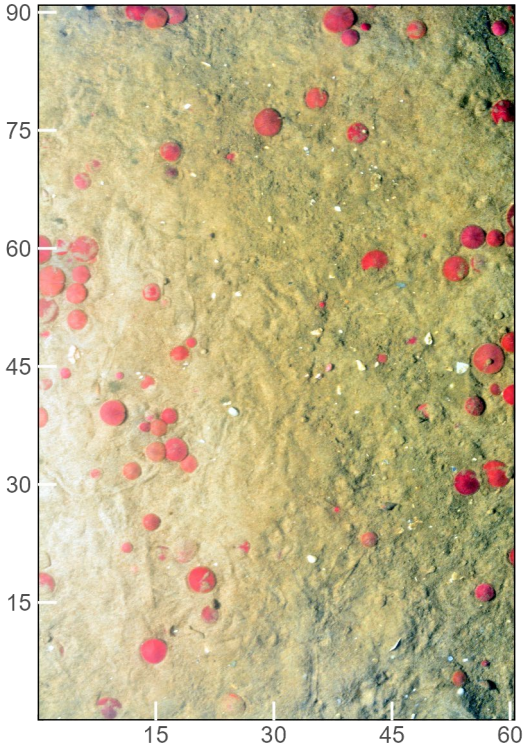

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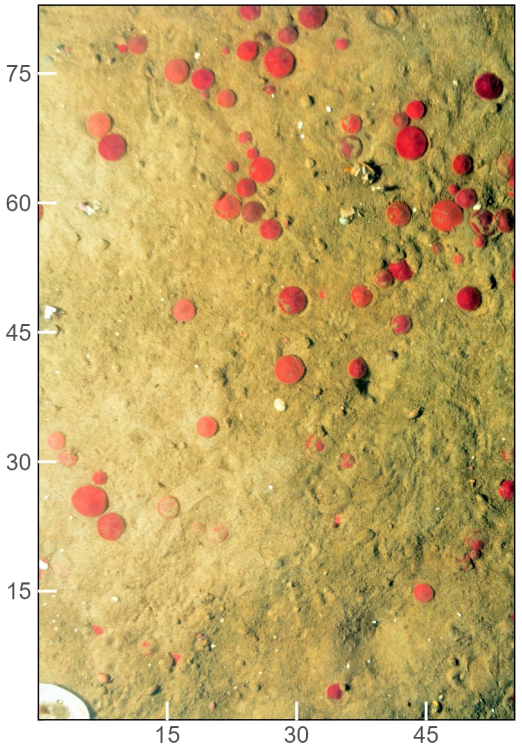

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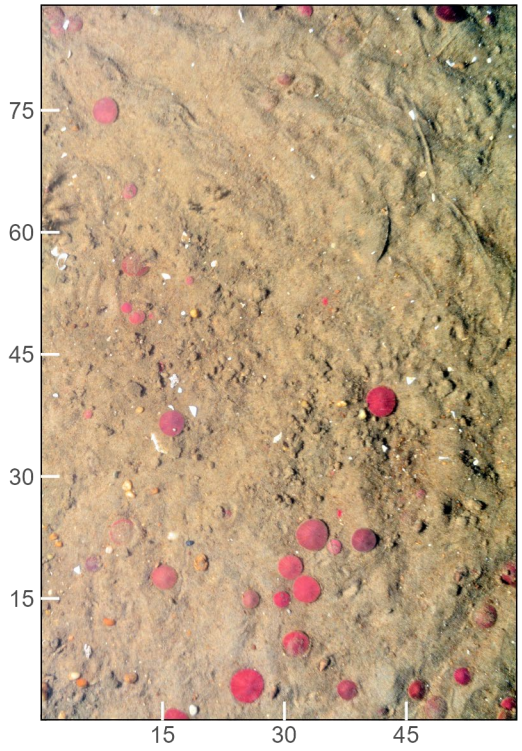
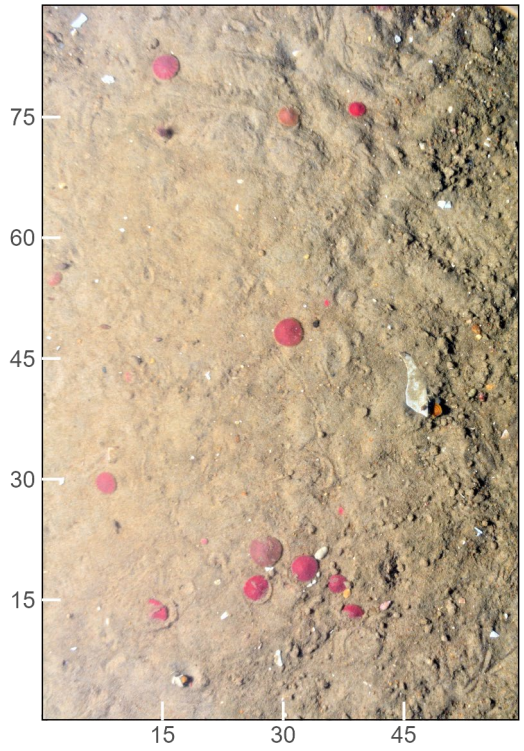


NECCT-SP-405-A



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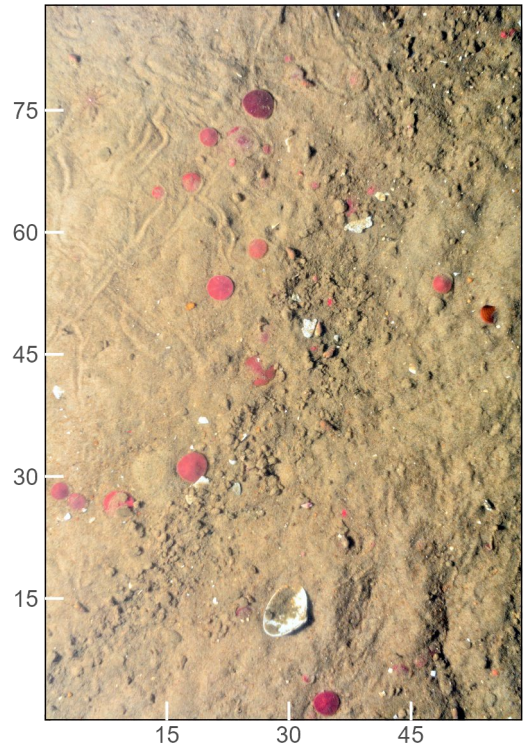
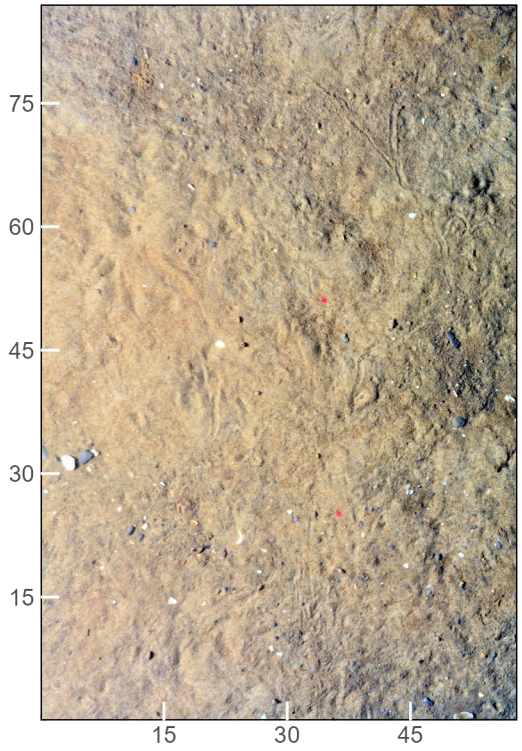
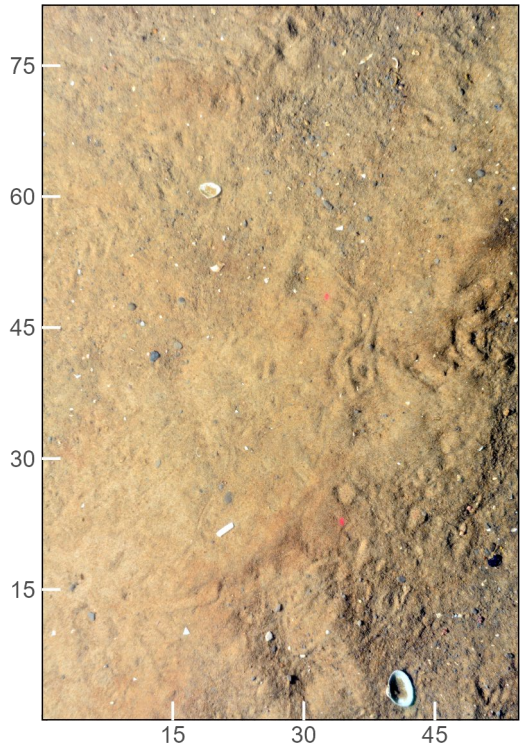


NECCT-SP-405-D



NECCT-SP-407-A



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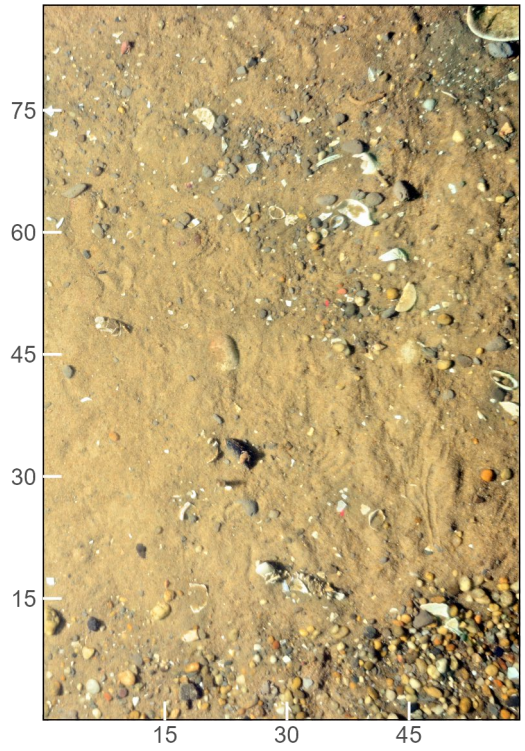

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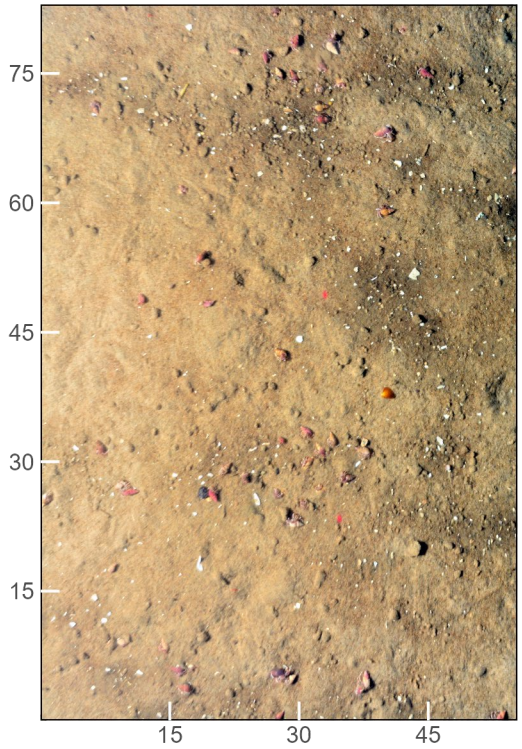
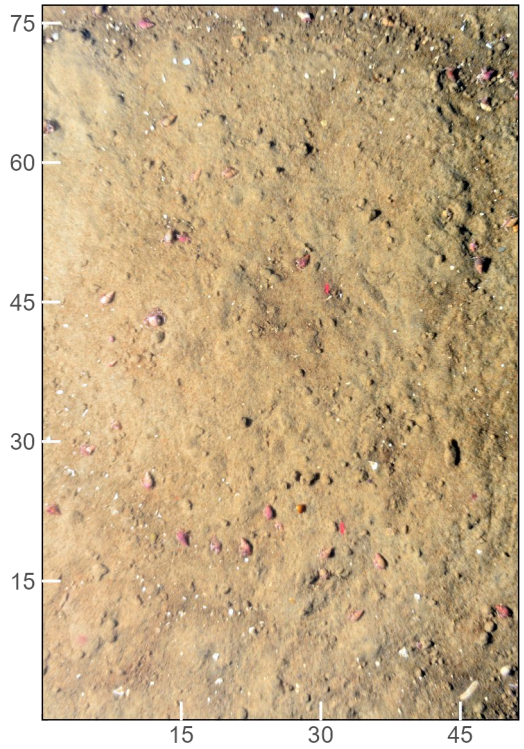


NECCT-SPG-409-A



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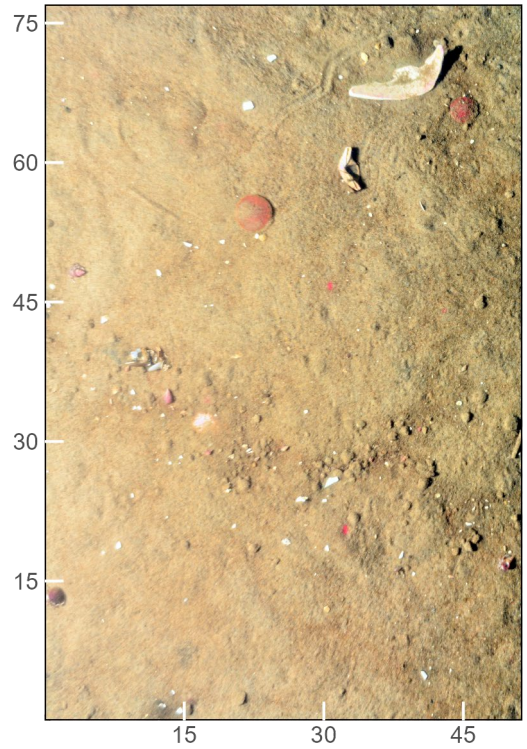

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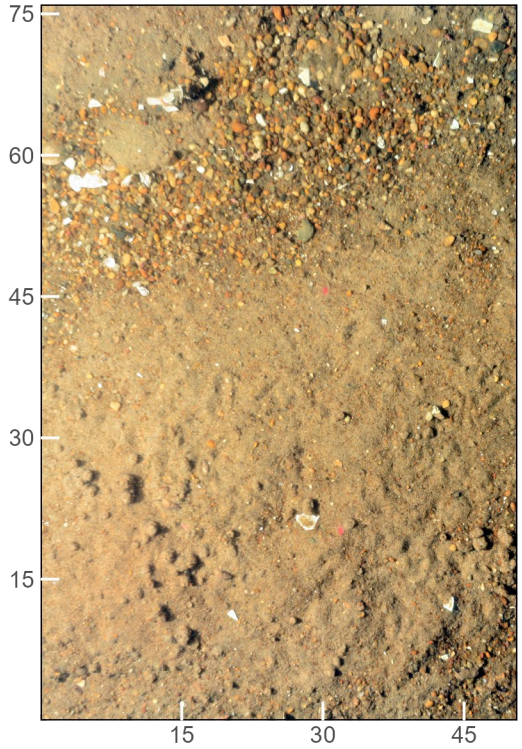

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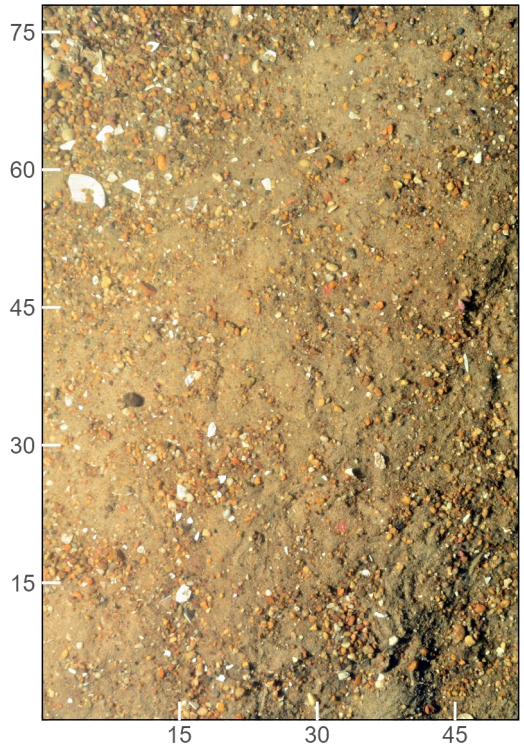

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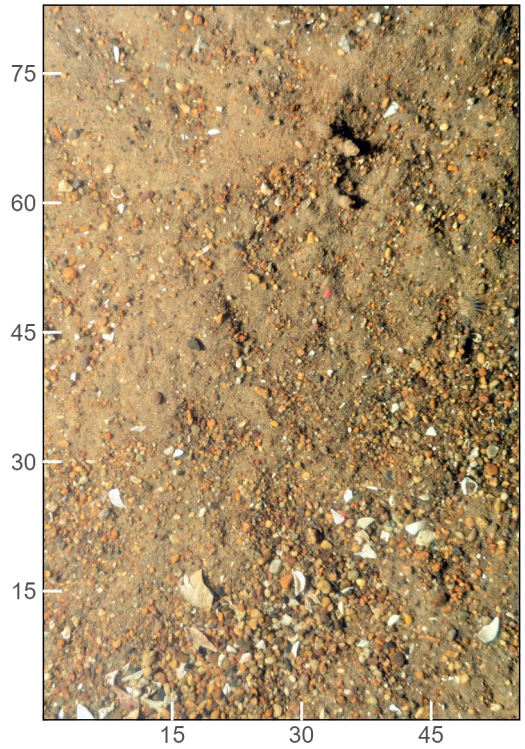

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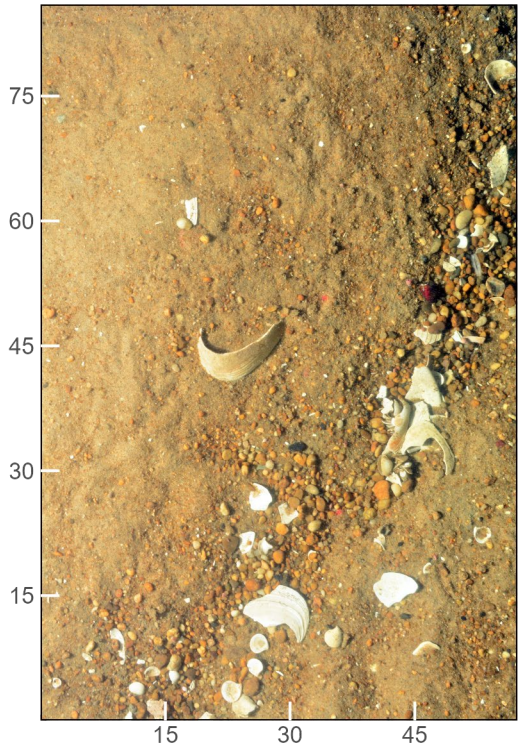
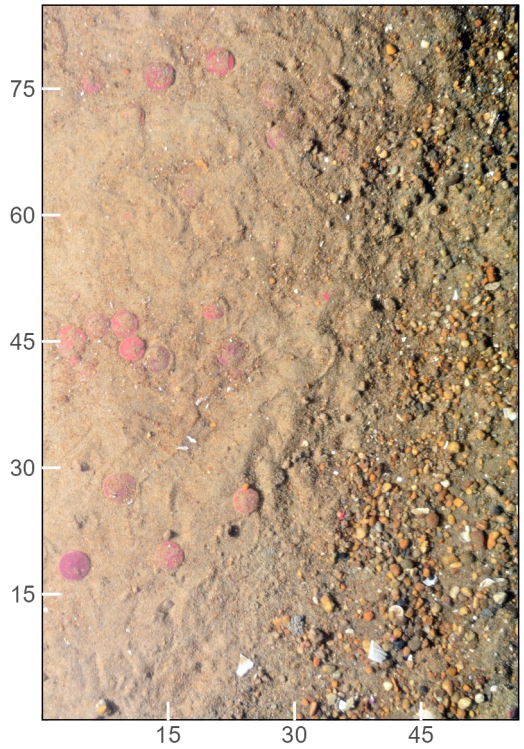


NECCT-SP-413-B



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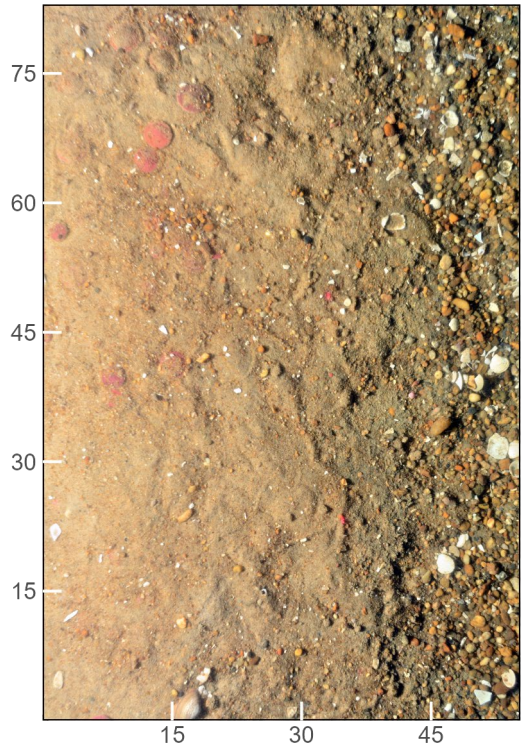

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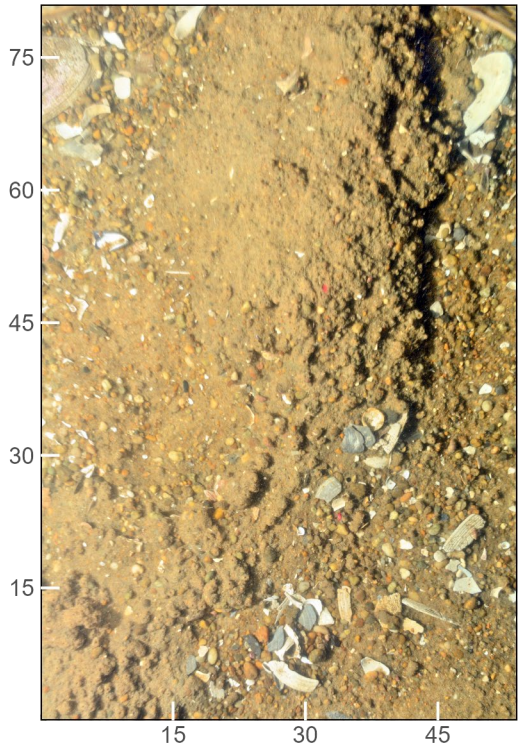
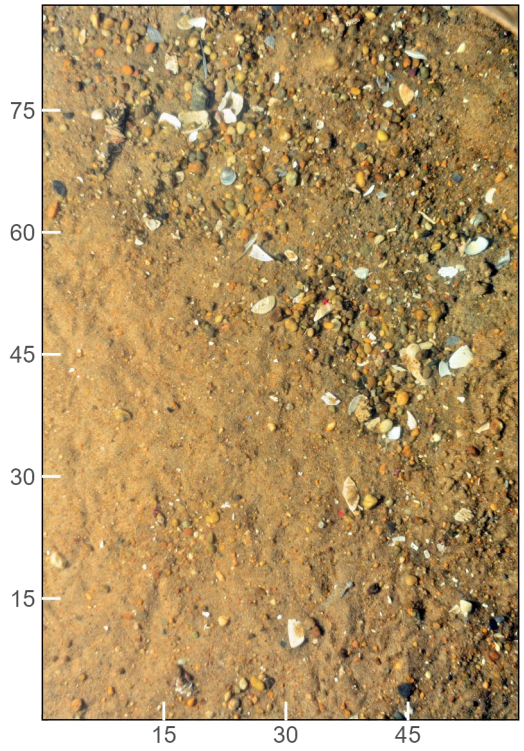
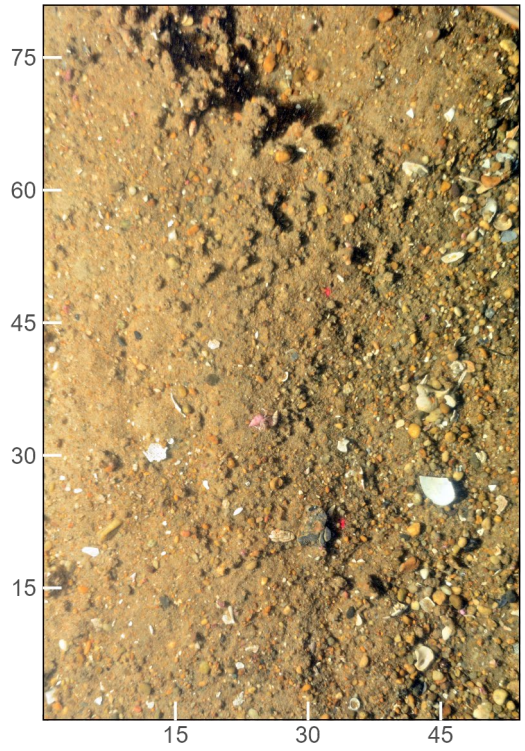


NECCT-SP-416-A



NECCT-SP-416-B



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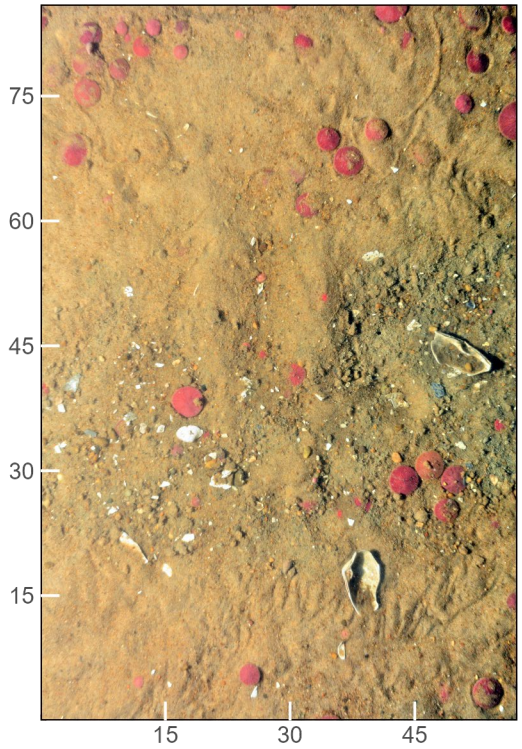
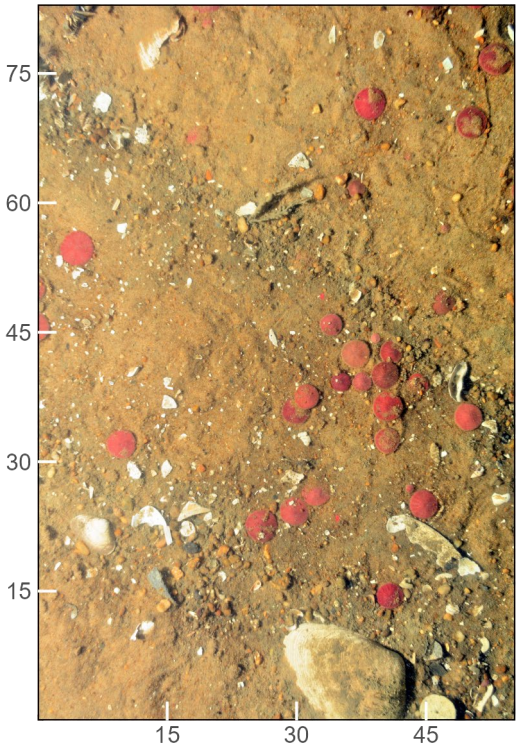


NECCT-SPG-417-A



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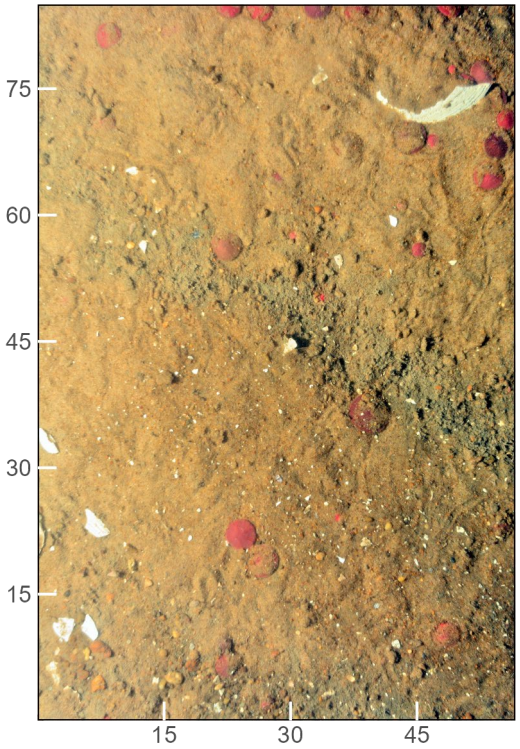

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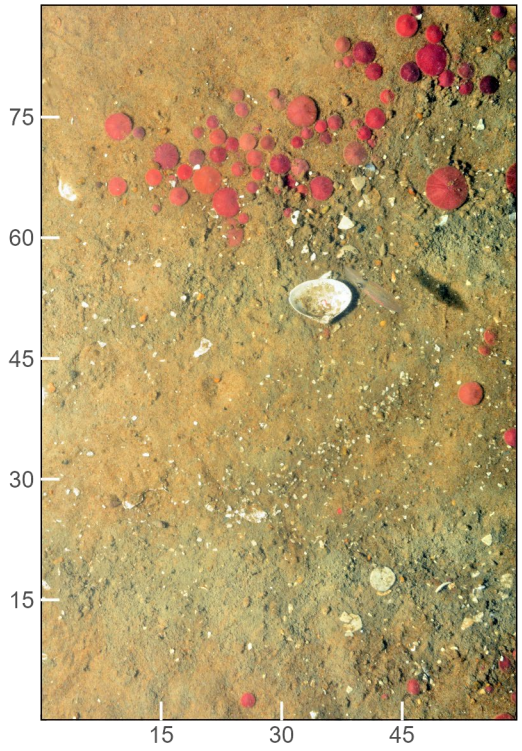
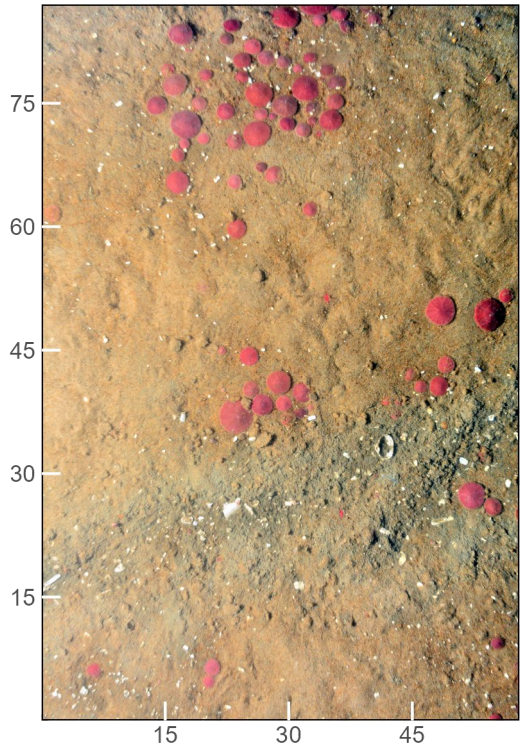
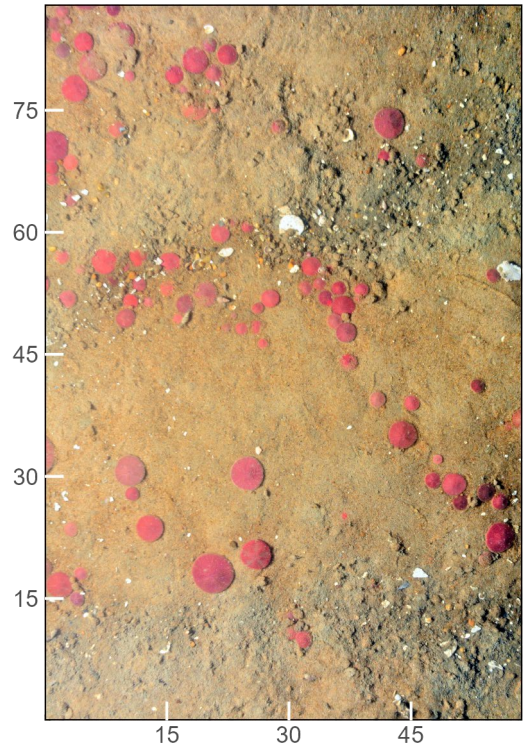


NECCT-SP-426-C



NECCT-SP-426-D



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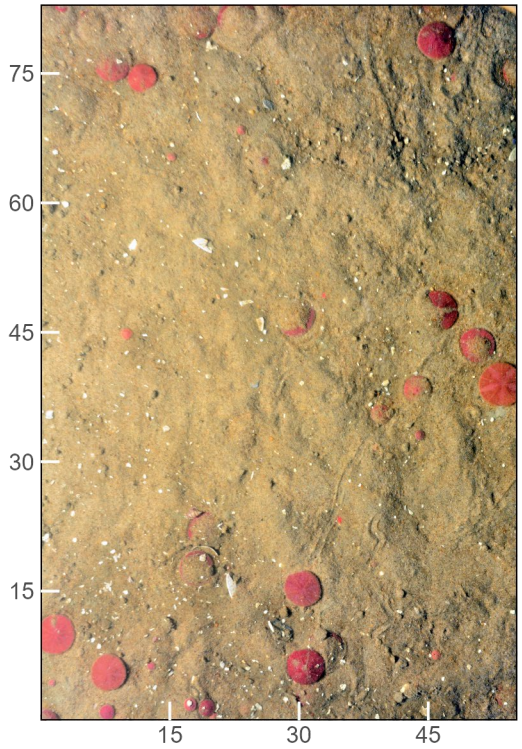
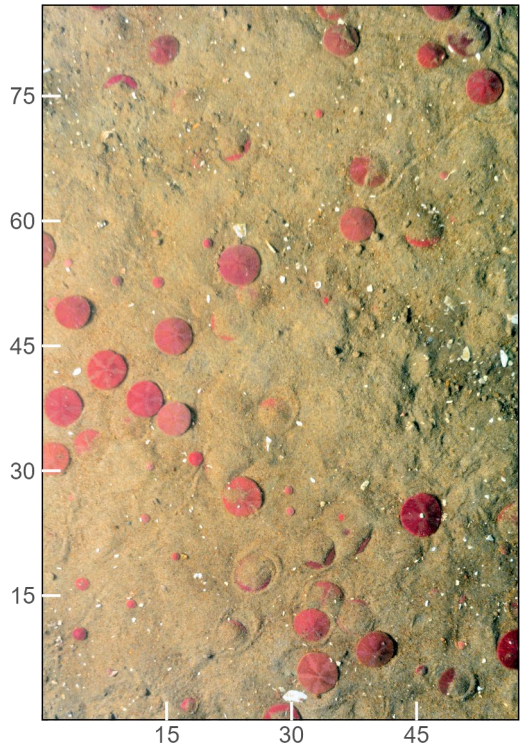
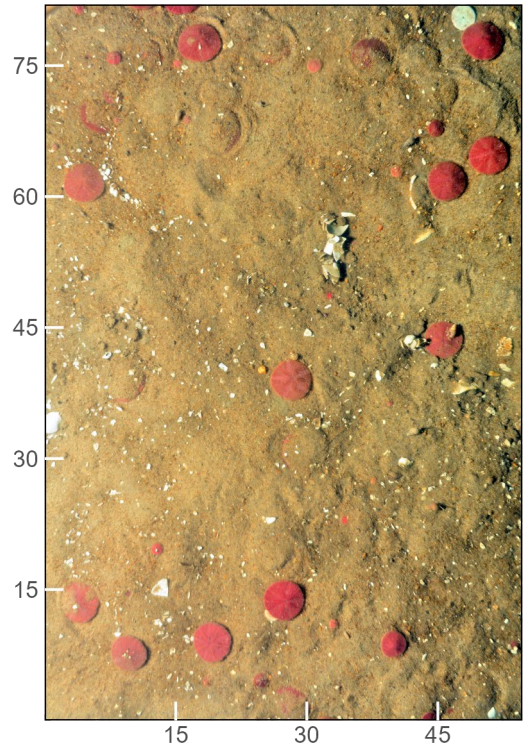


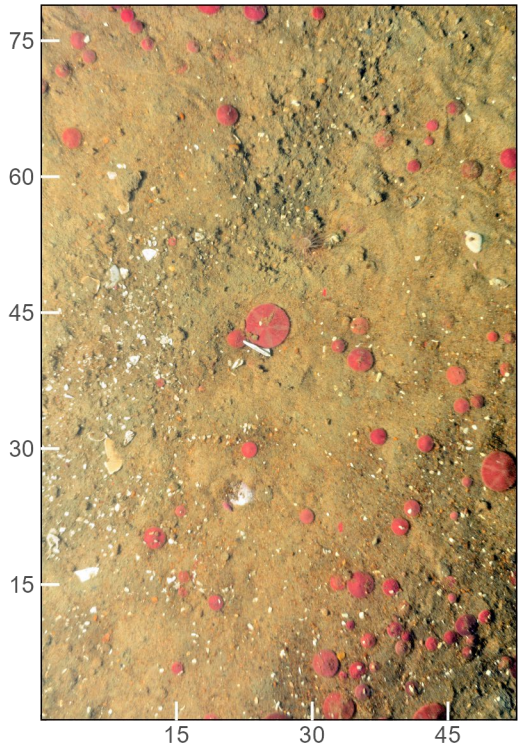
NECCT-SP-432-A



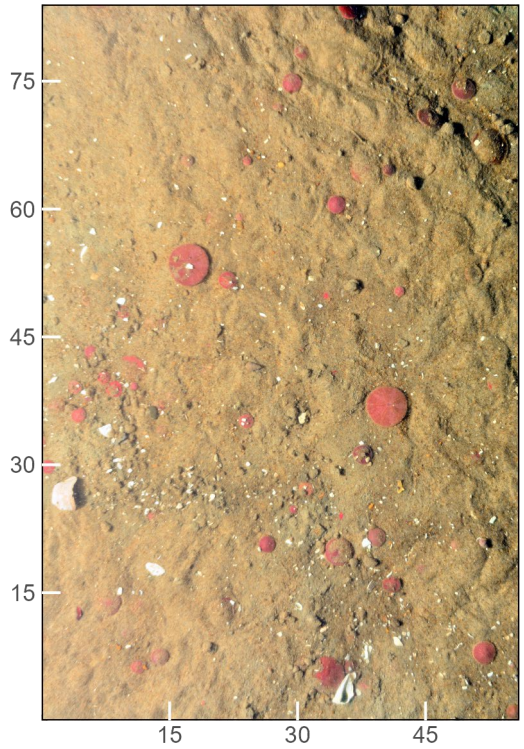
NECCT-SP-432-C



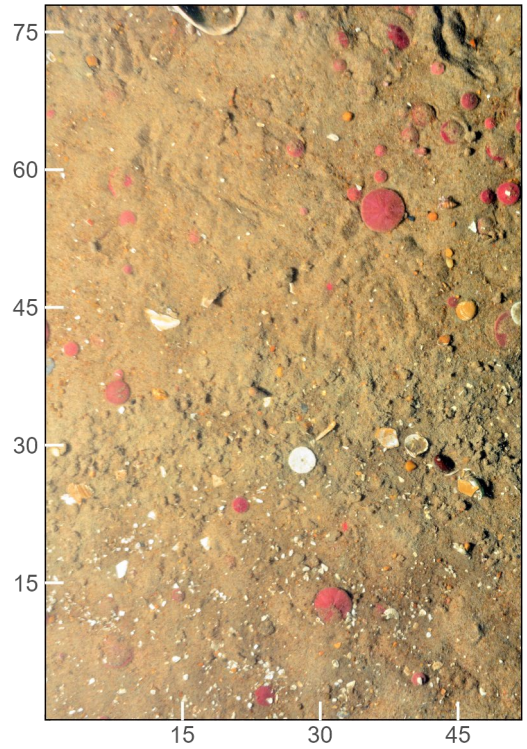
NECCT-SP-432-E



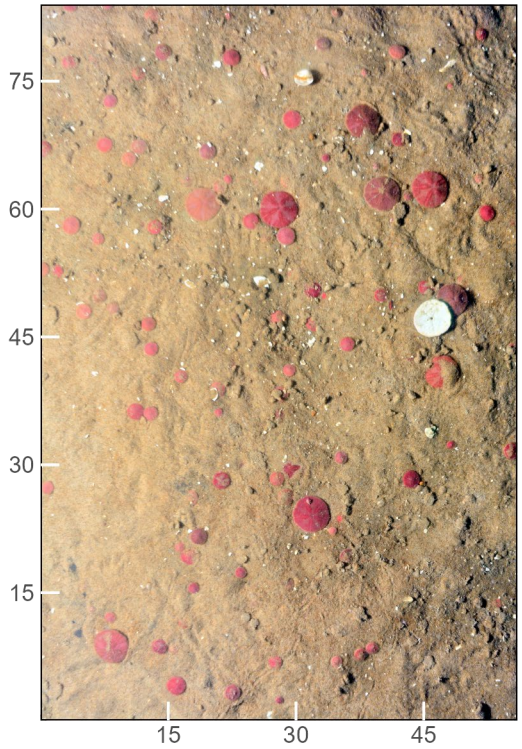
NECCT-SPG-435-A



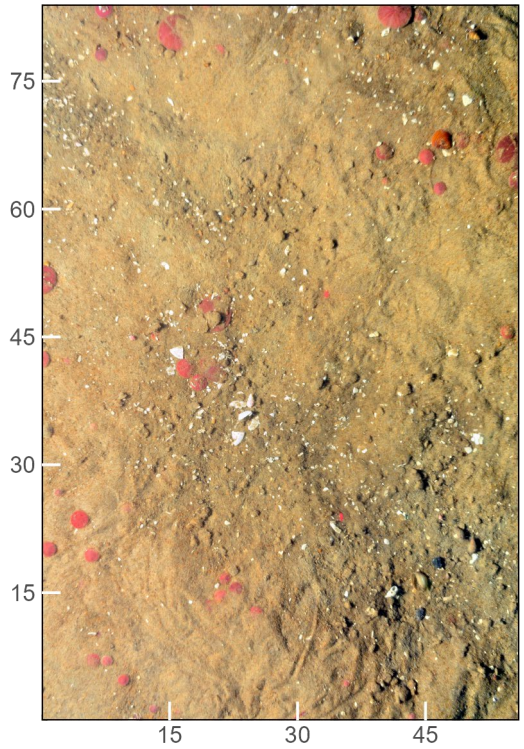
NECCT-SPG-435-B



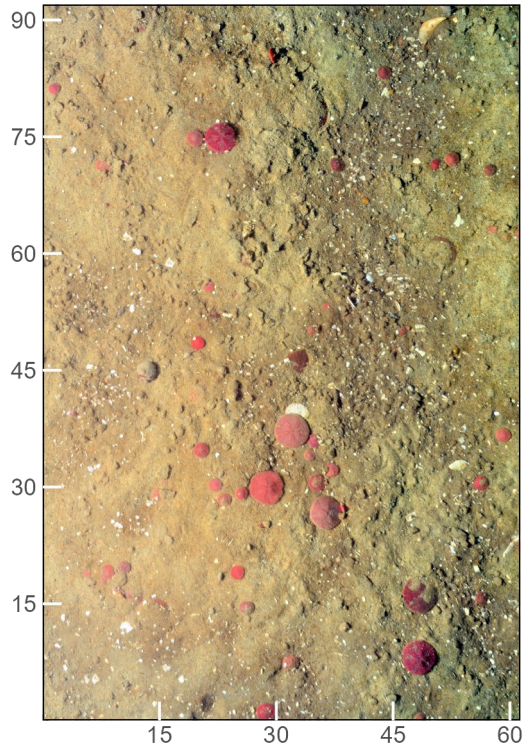
NECCT-SPG-435-C



NECCT-SP-441-A



NECCT-SP-441-B



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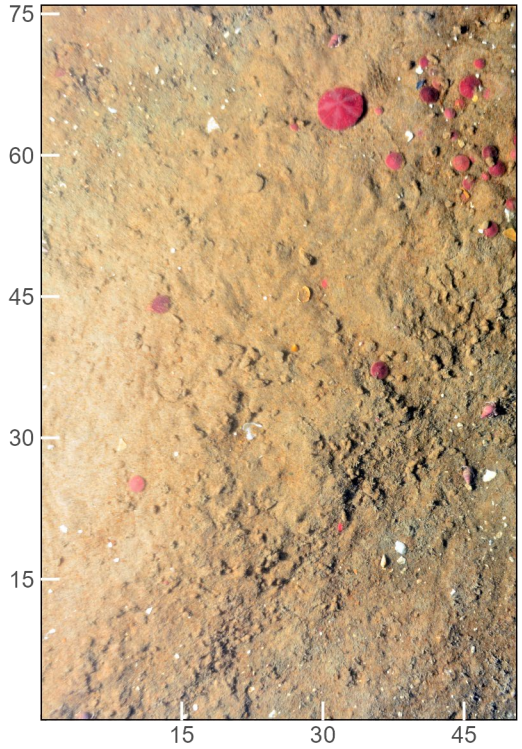
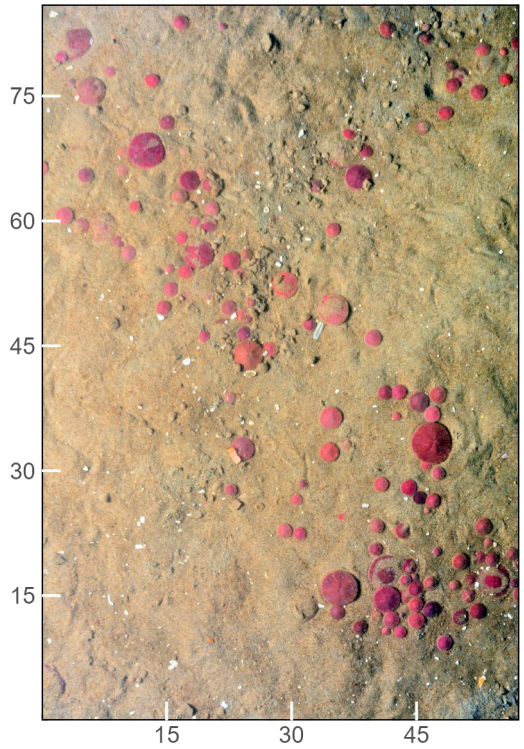
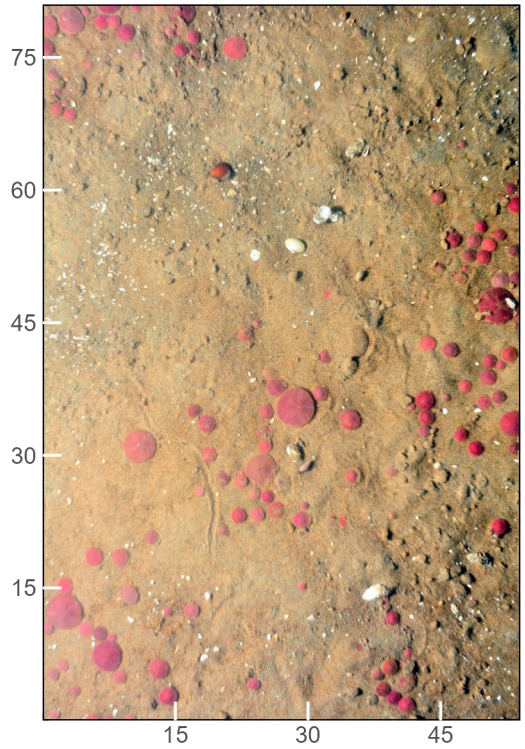


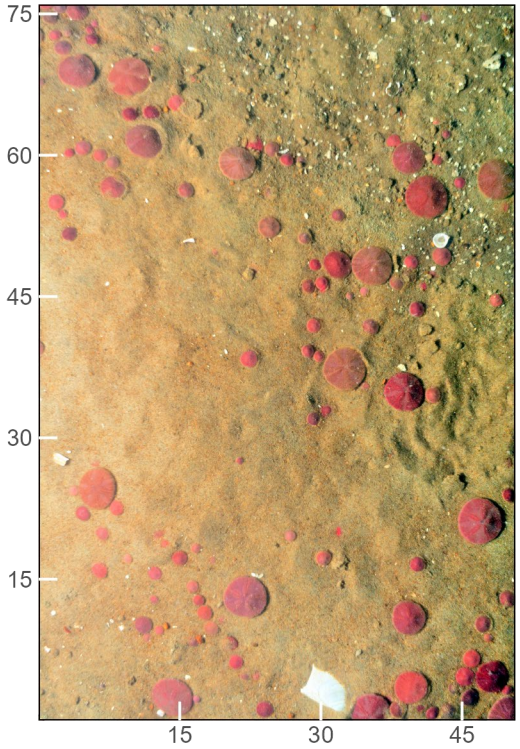
NECCT-SP-451-A



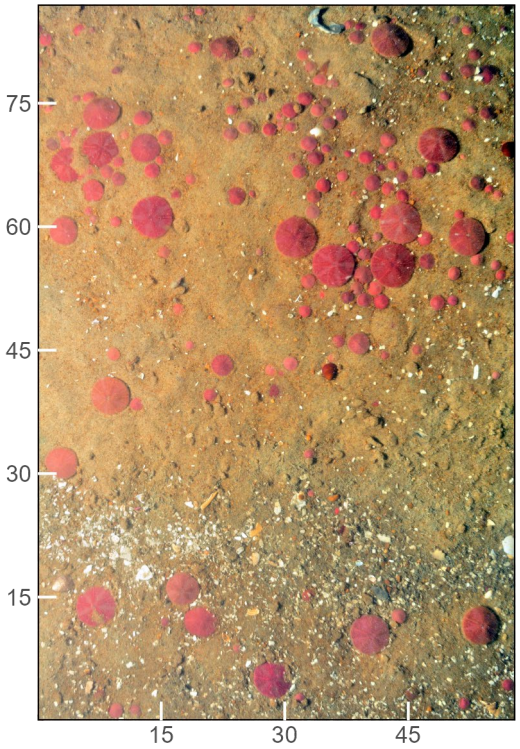
NECCT-SP-451-B



NECCT-SP-451-D



NECCT-SP-458-A



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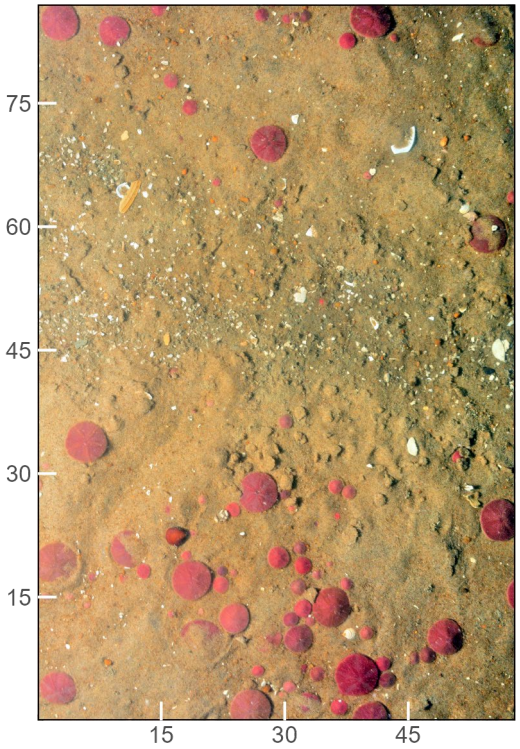
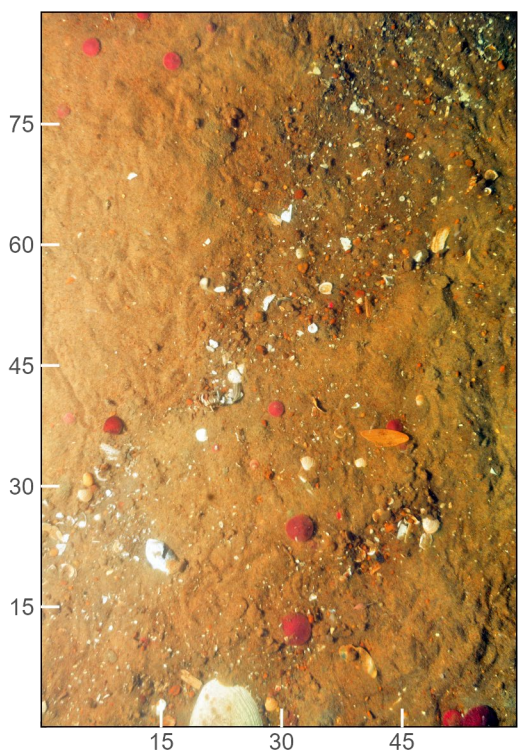
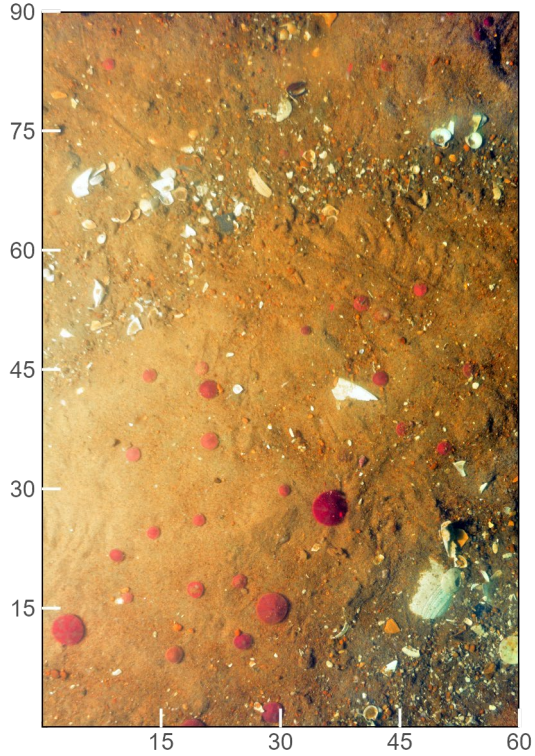


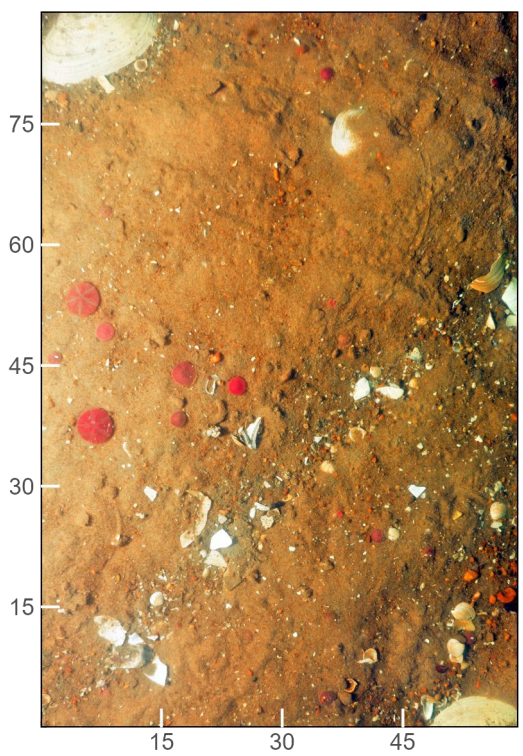
NECCT-SP-458-C



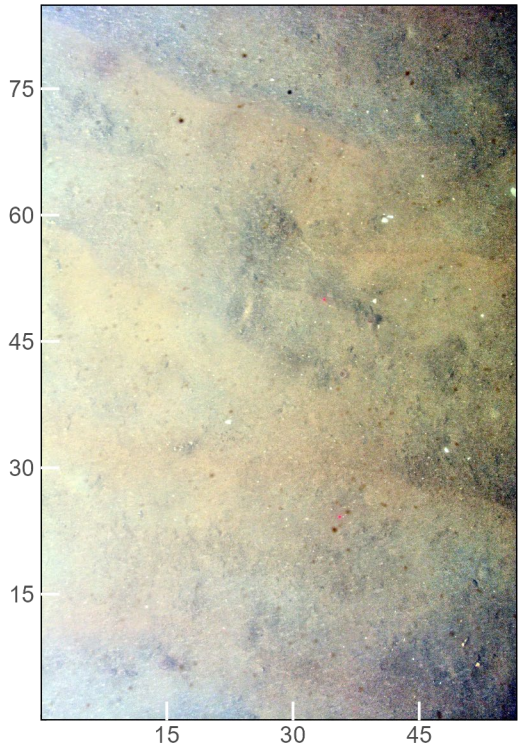
NECCT-SPG-461-A



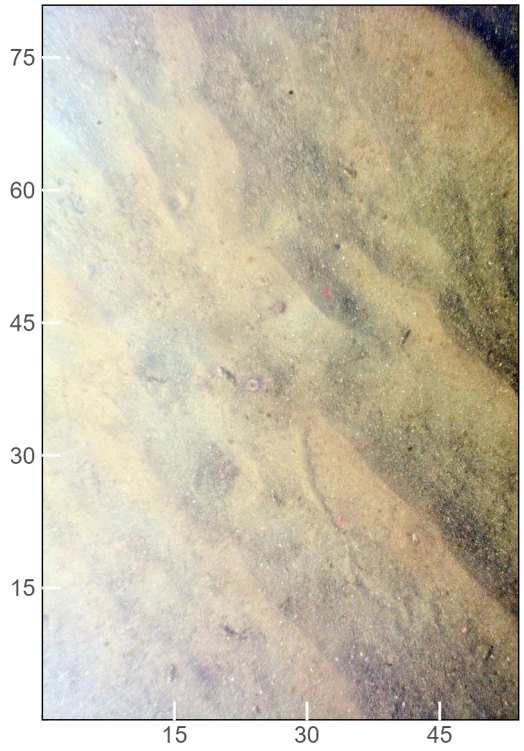
NECCT-SPG-461-D



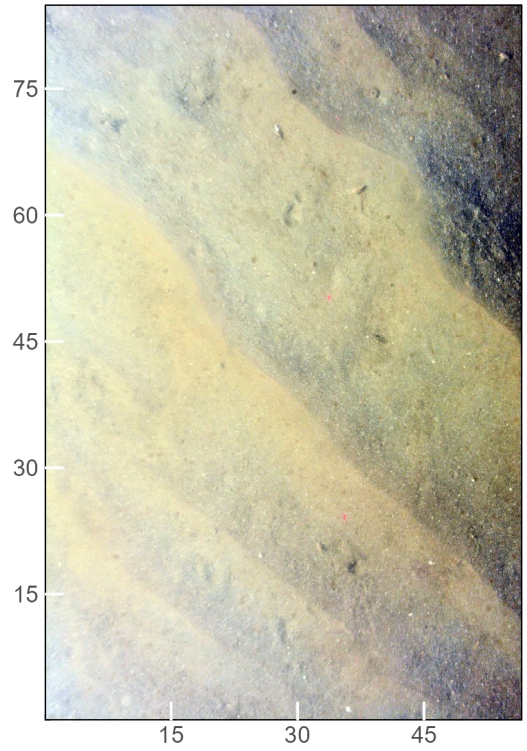
NECCT-SPG-461-E



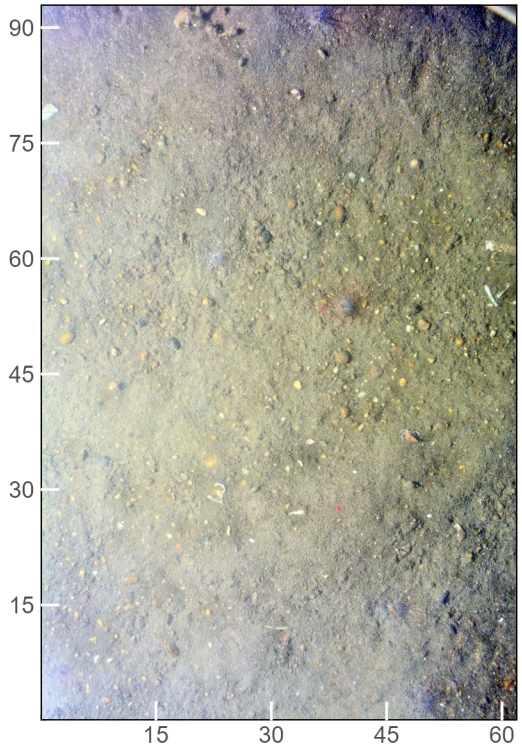
NECCT-SP-543-C



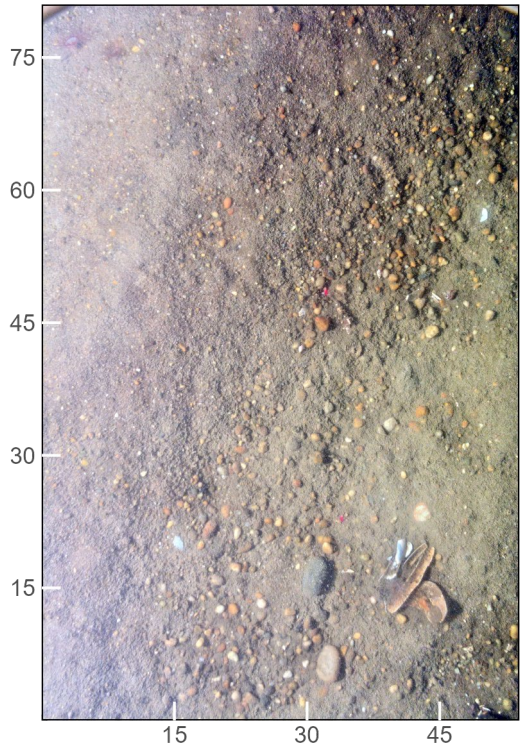
NECCT-SP-543-D



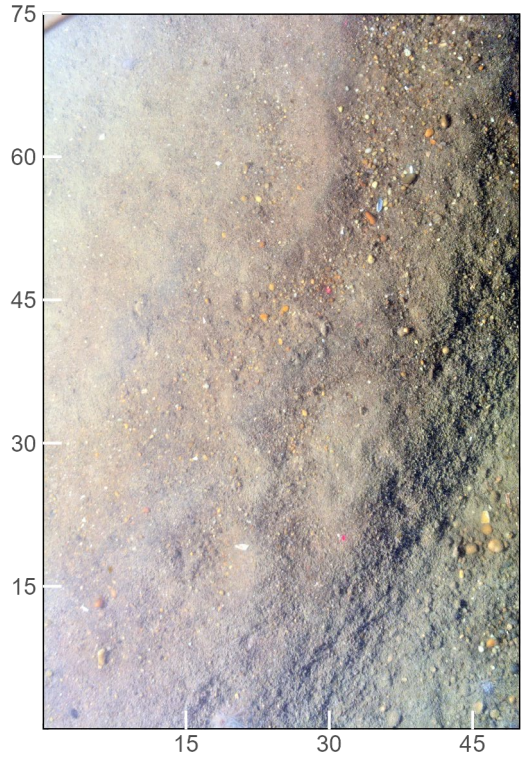
NECCT-SP-543-E



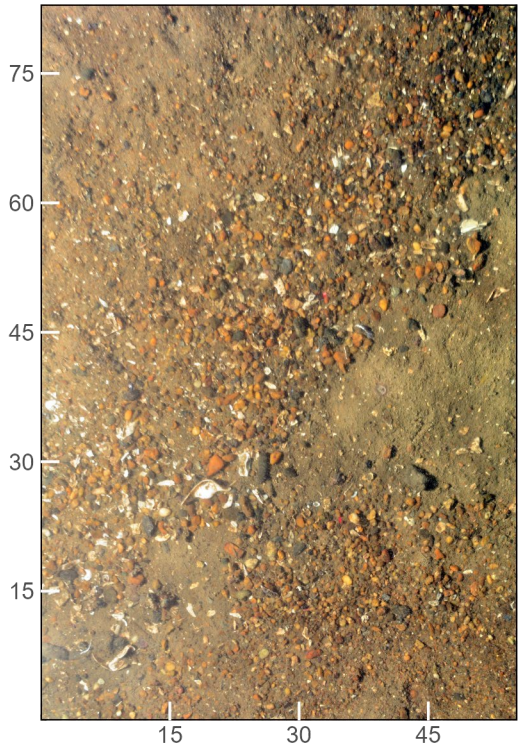
NECCT-SP-544-A



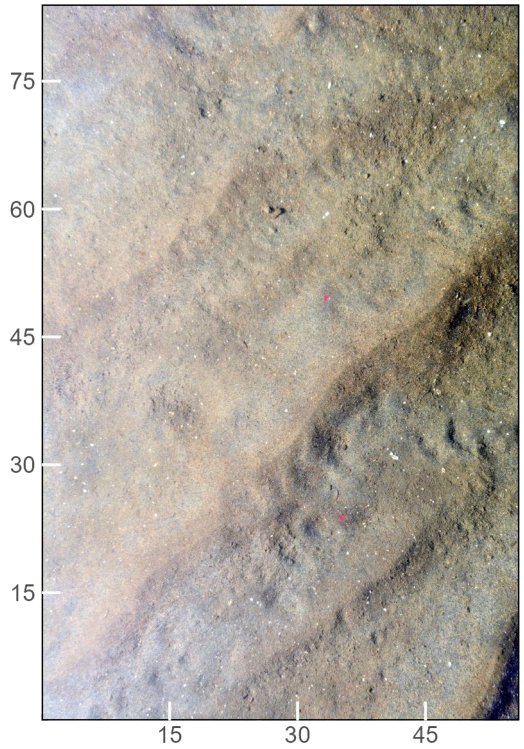
NECCT-SP-544-C



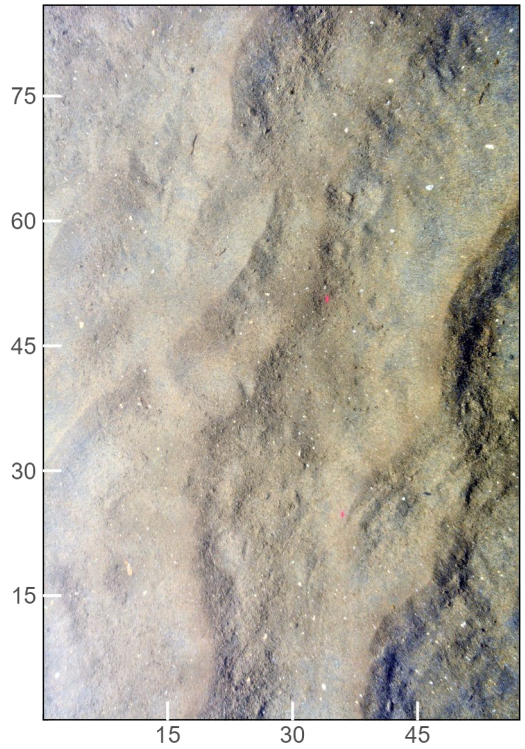
NECCT-SP-544-E



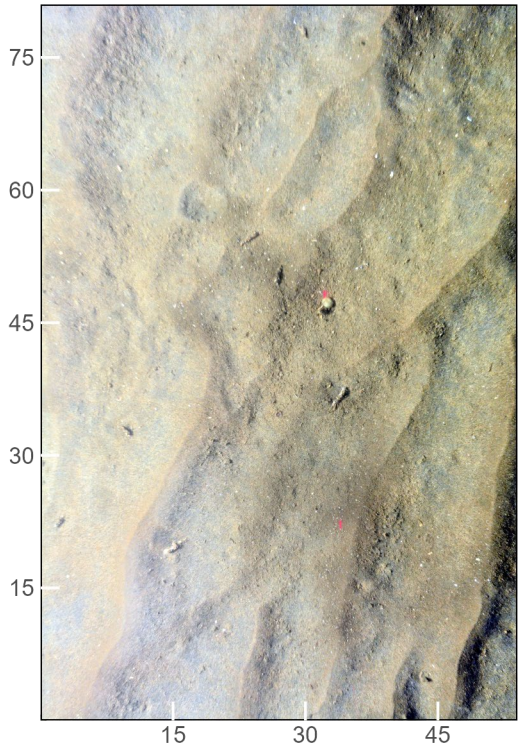
NECCT-SP-545-A



NECCT-SP-545-B



NECCT-SP-545-D



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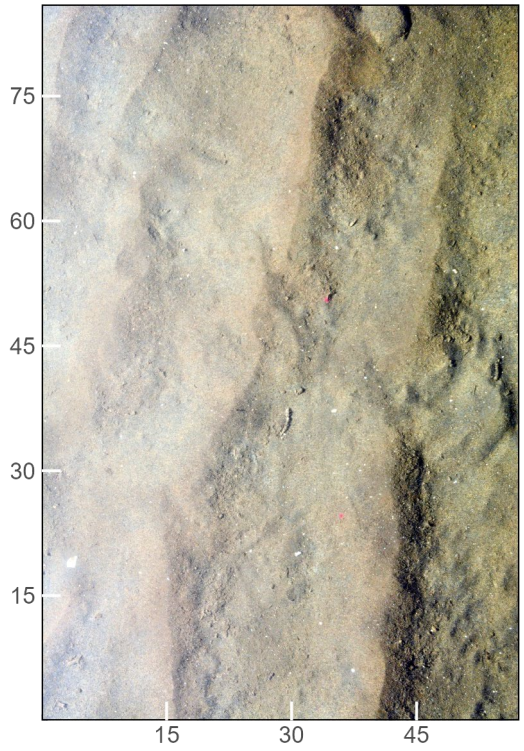

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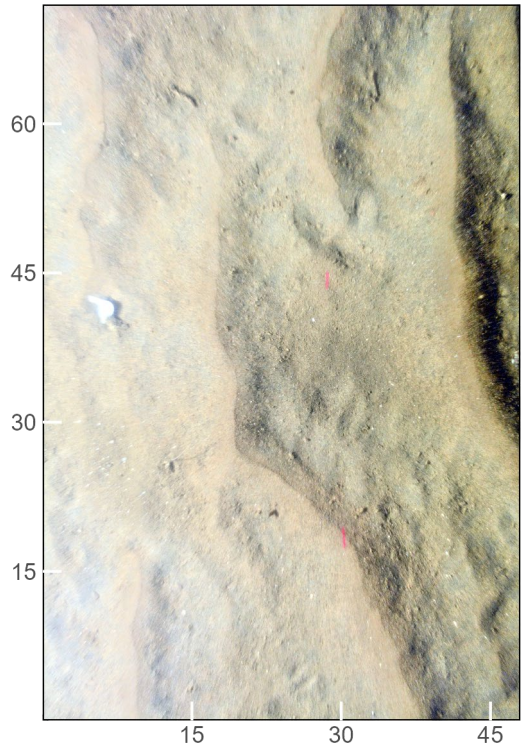

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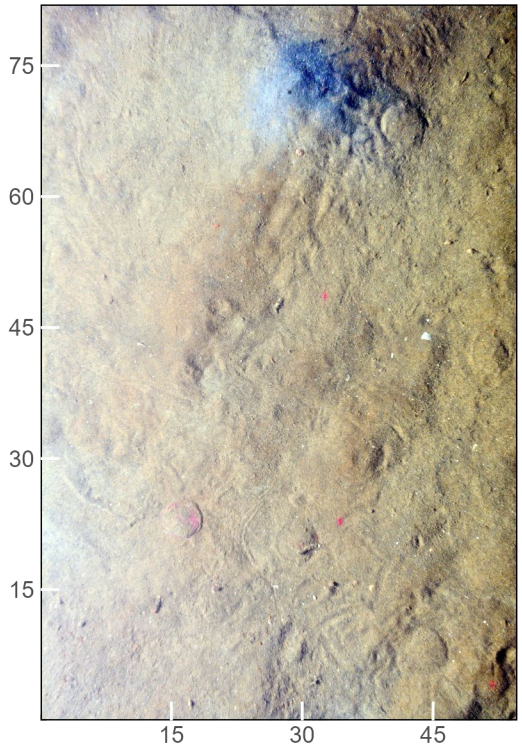

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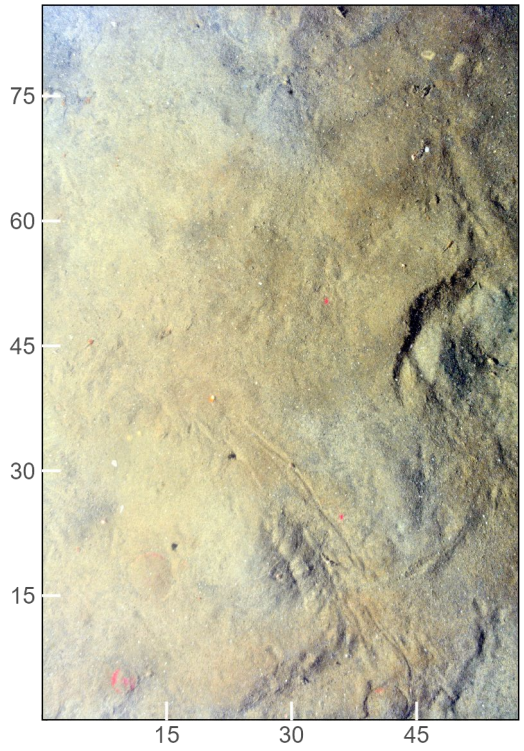

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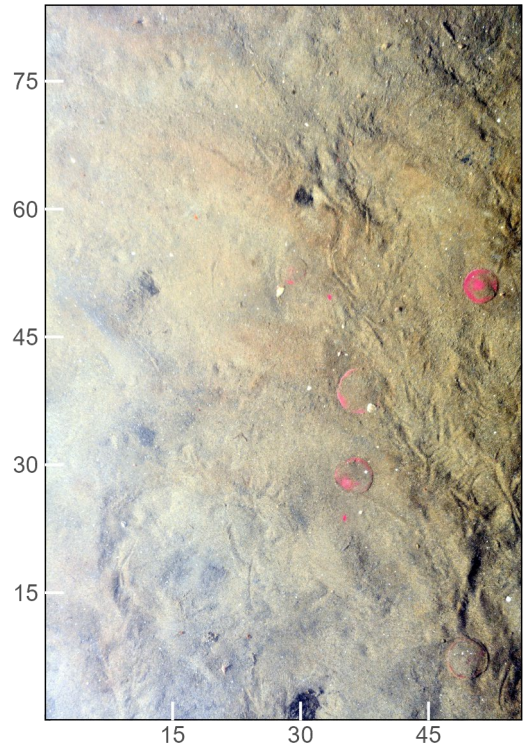

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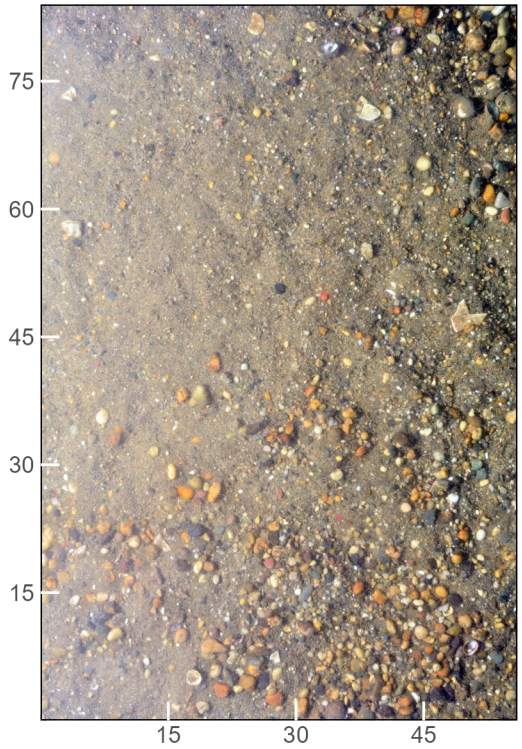

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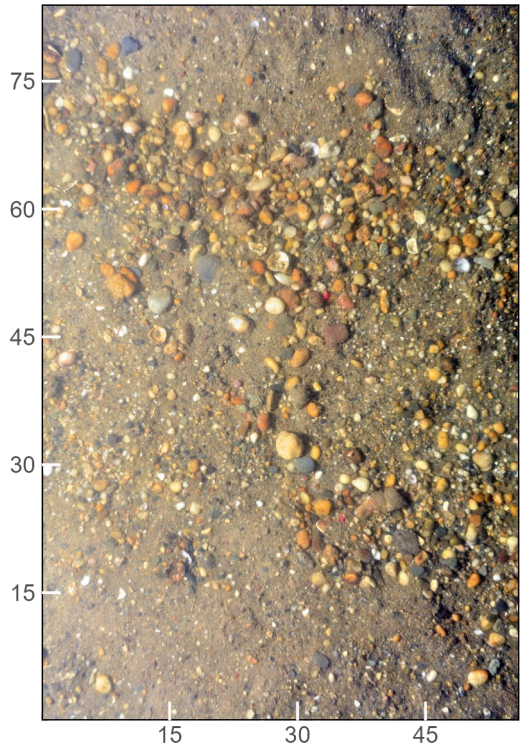

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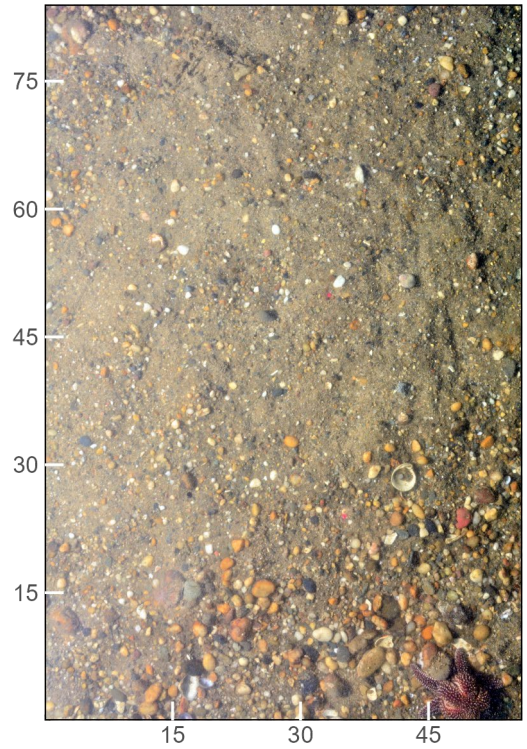

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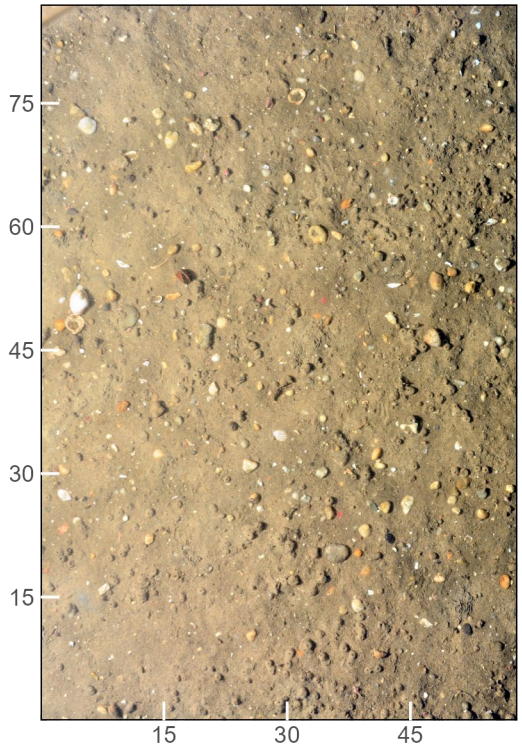

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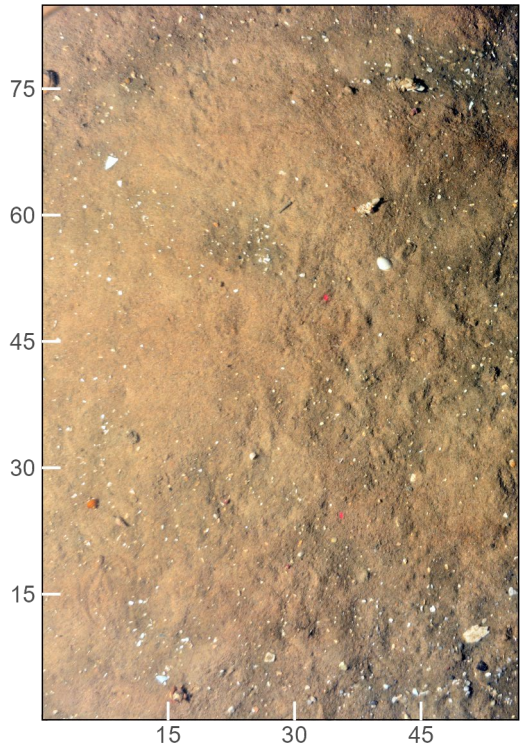
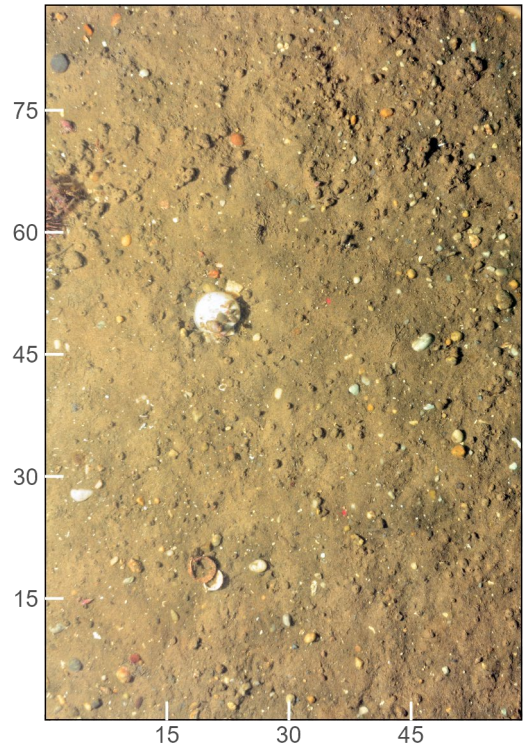


NECCT-SP-550-C



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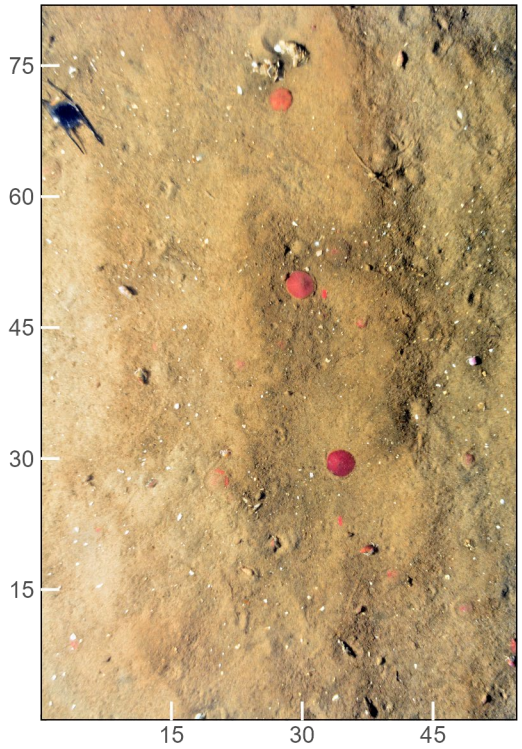

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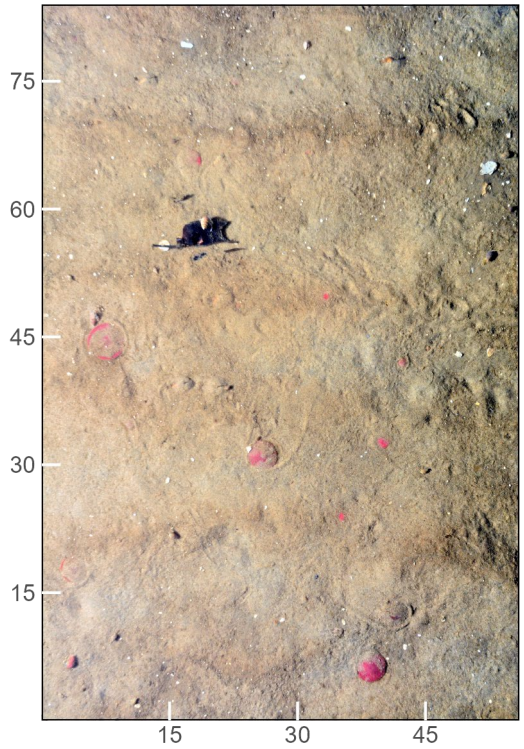

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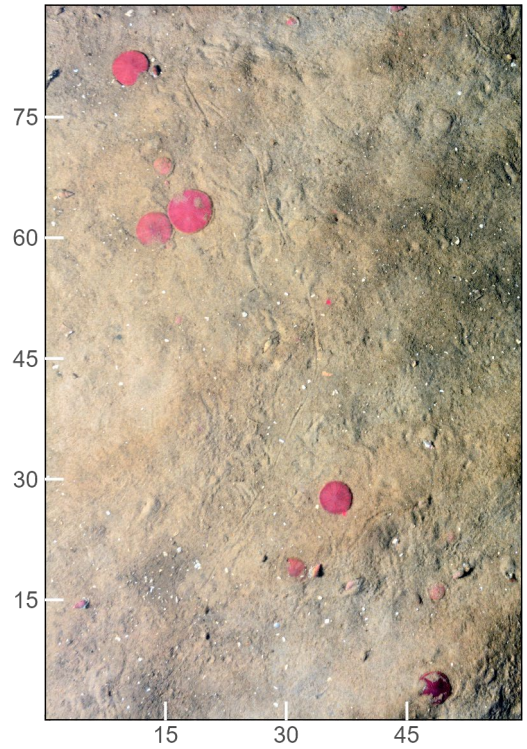

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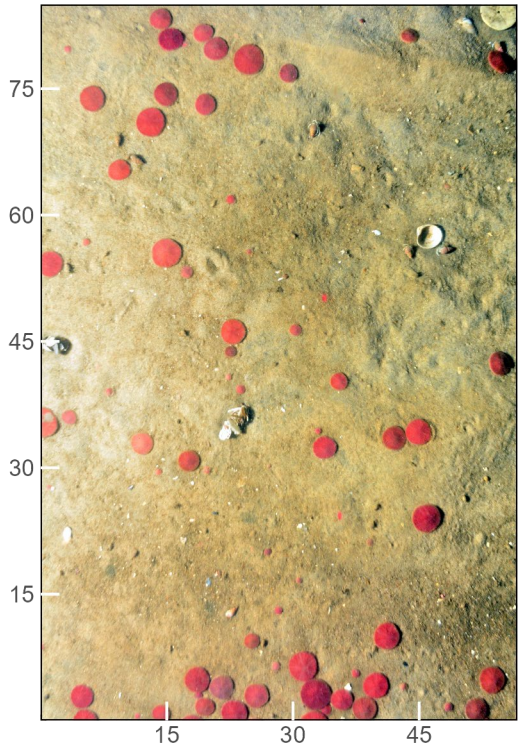

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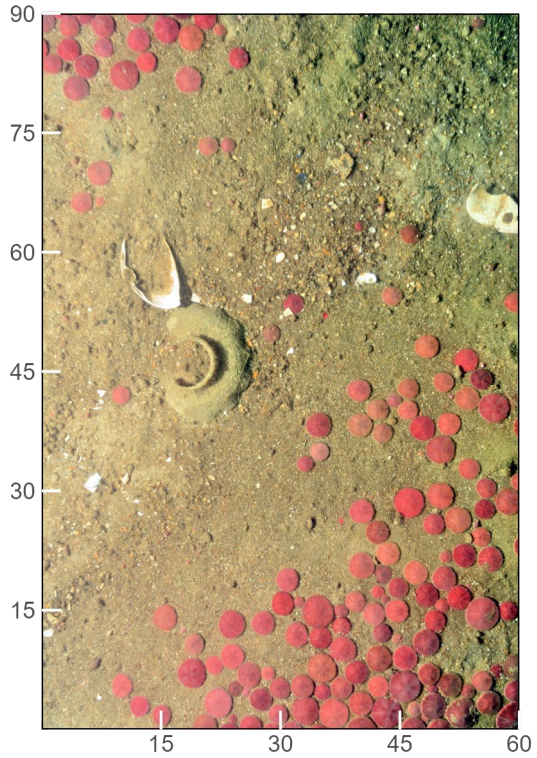

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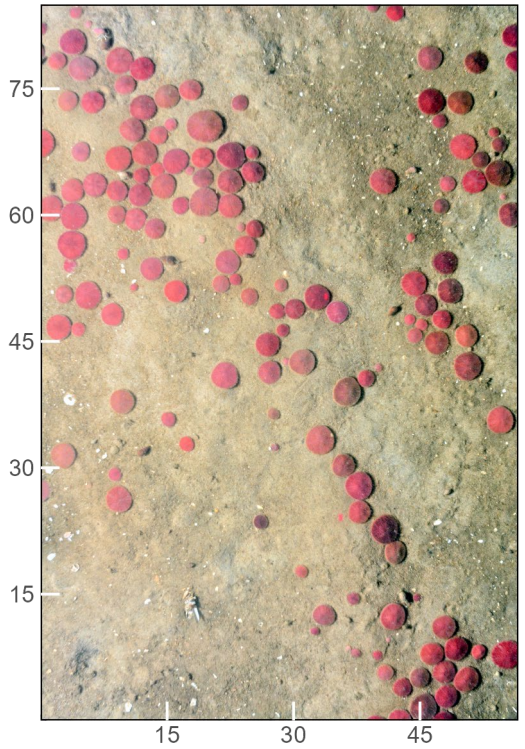

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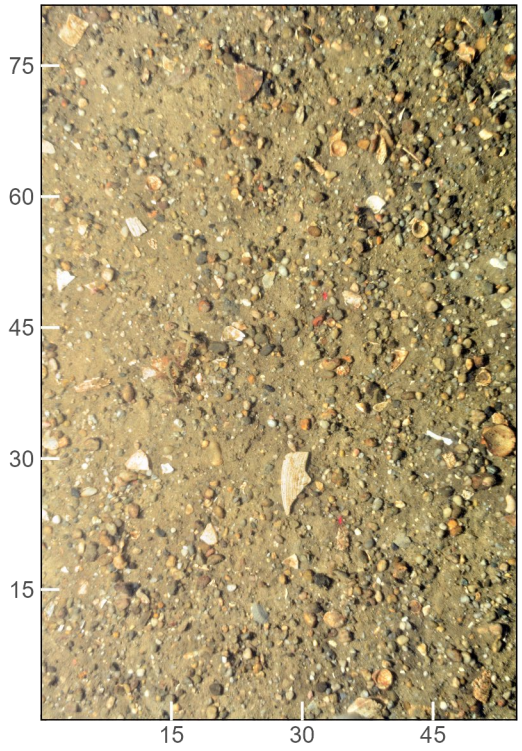

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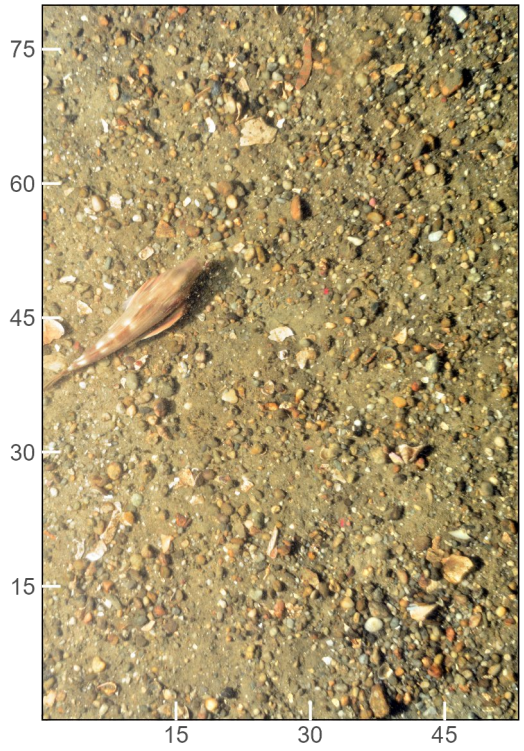

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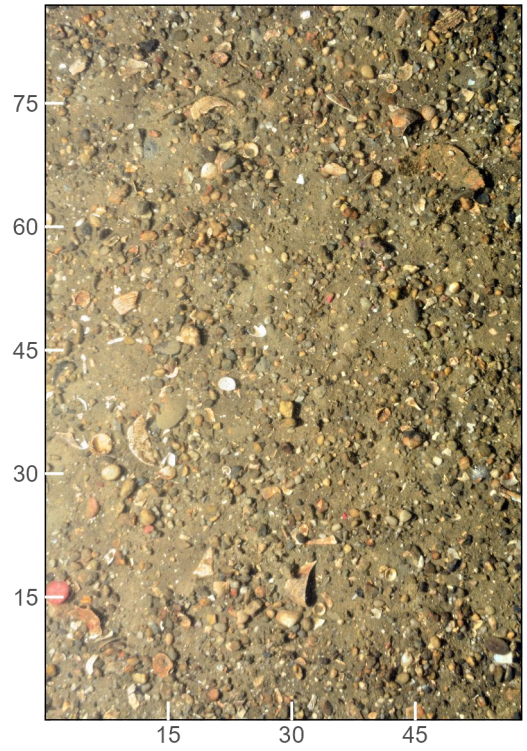

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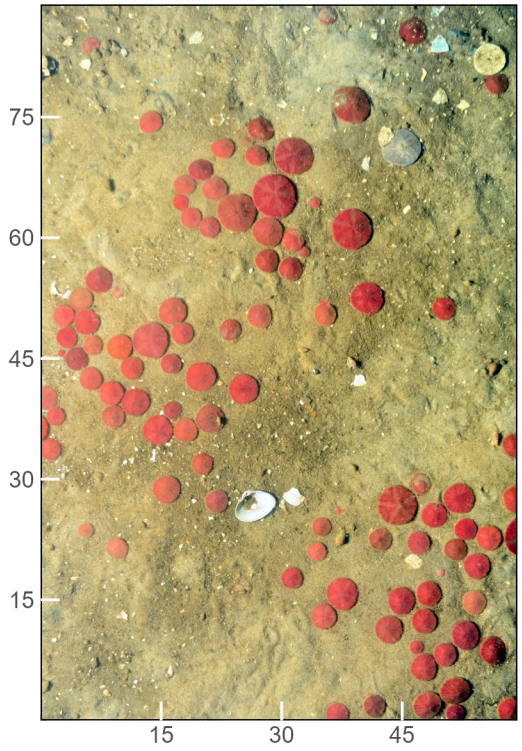
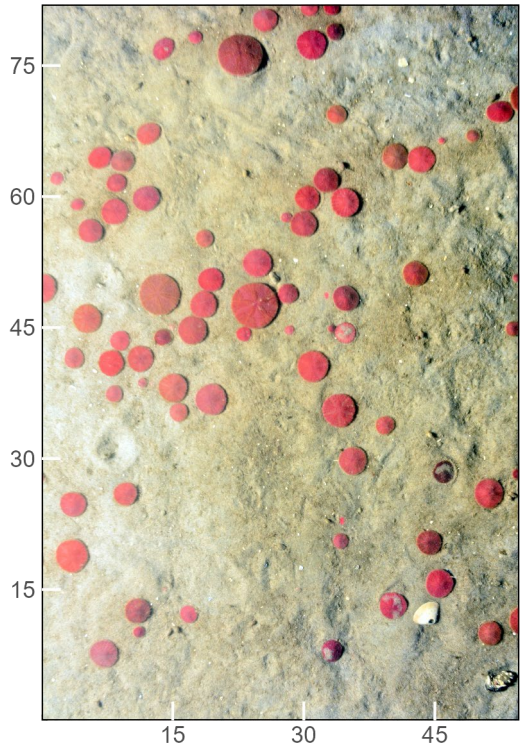
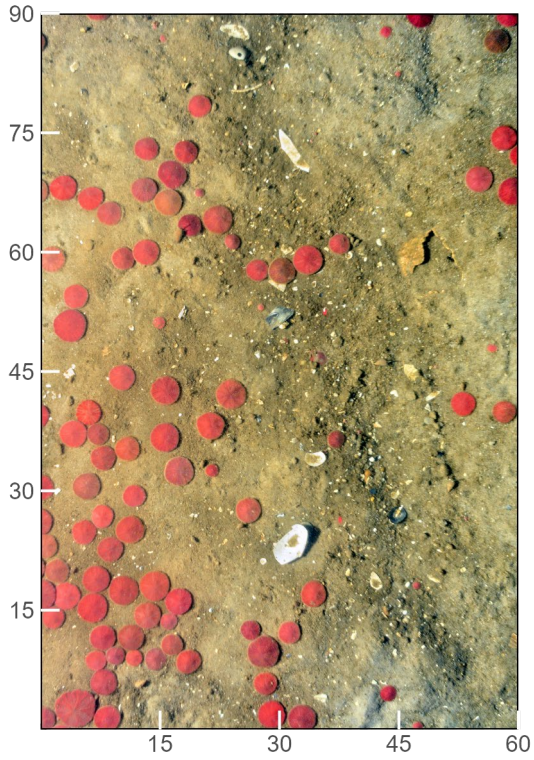


NECCT-SP-560-B



NECCT-SP-560-C



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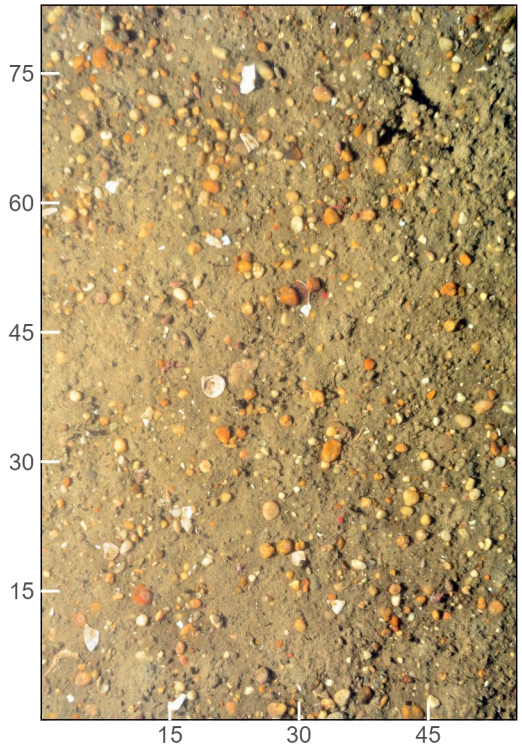

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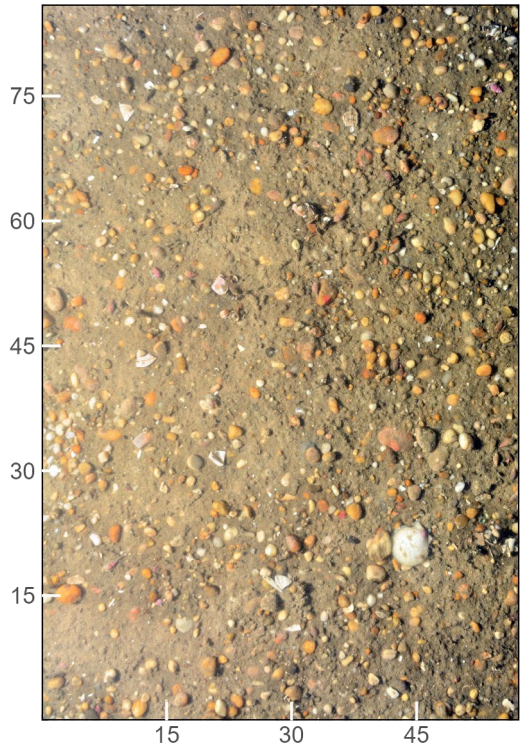

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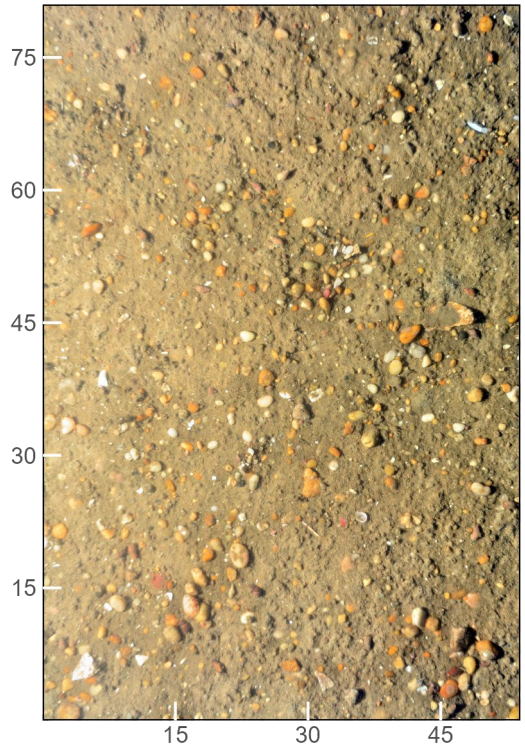

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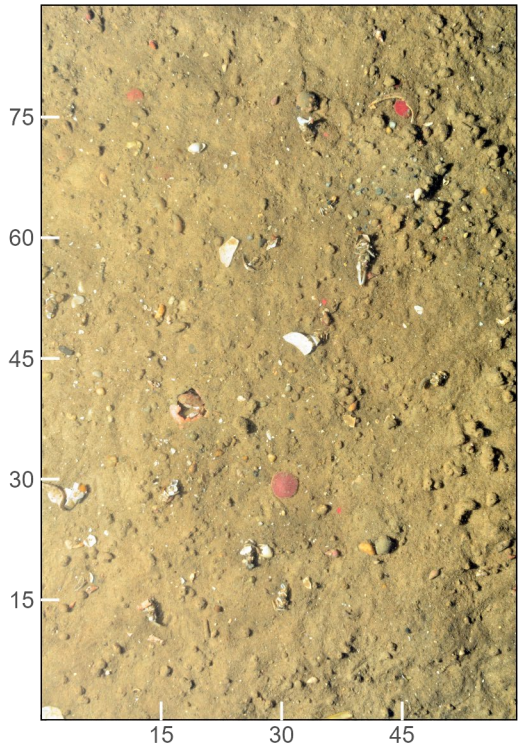

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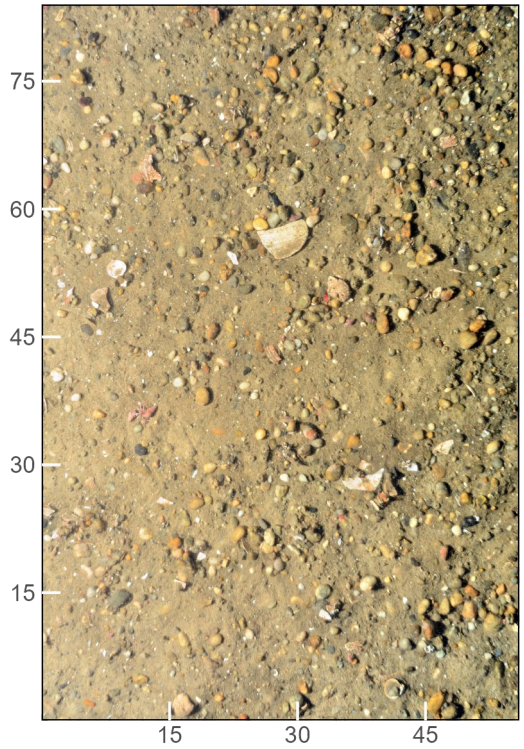
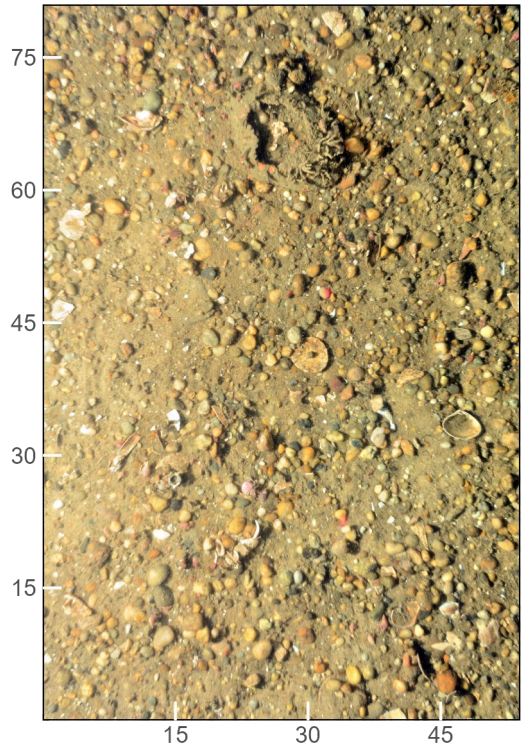
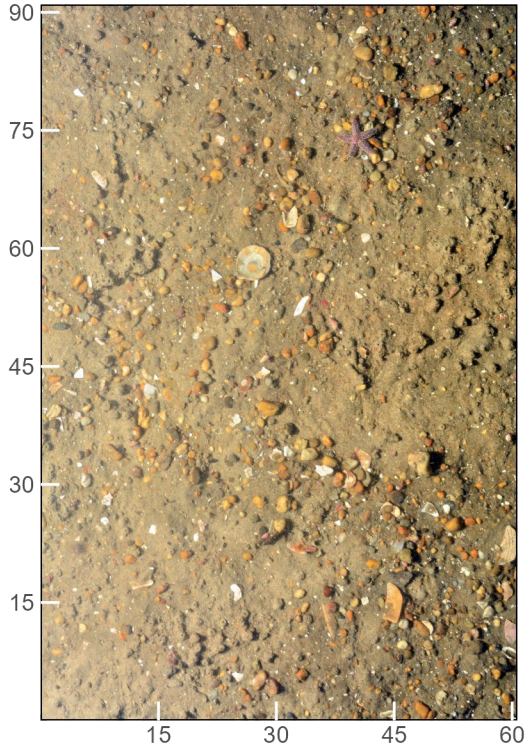


NECCT-SP-568-B



NECCT-SP-568-D



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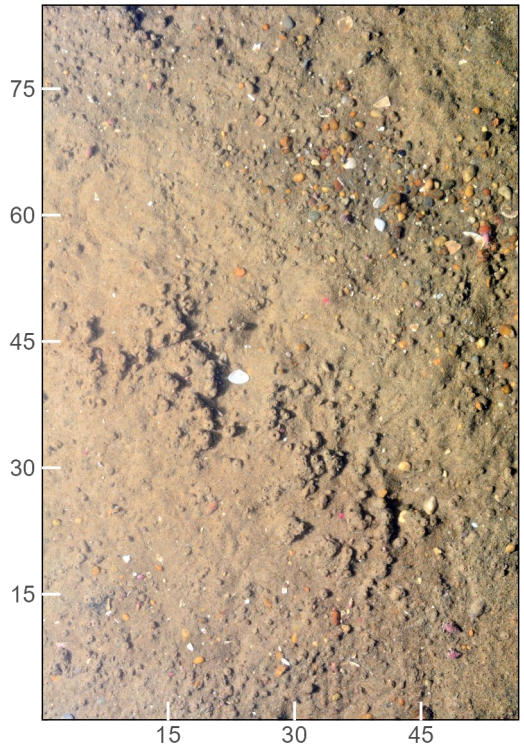
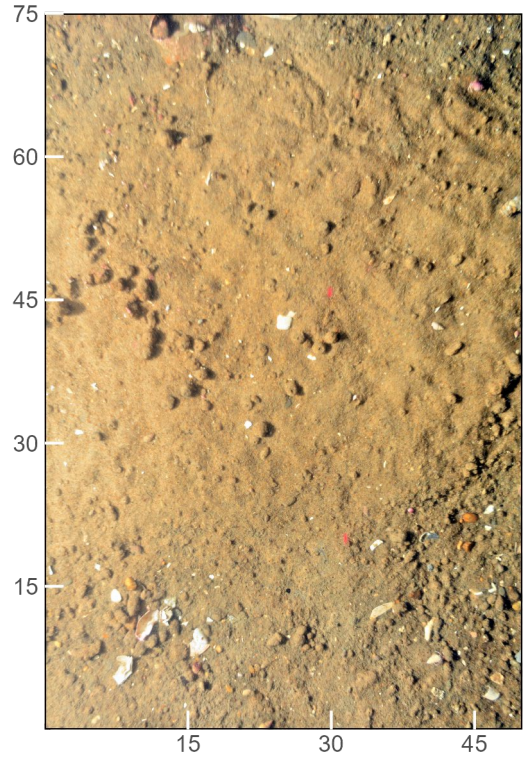


NECCT-SPG-569-C



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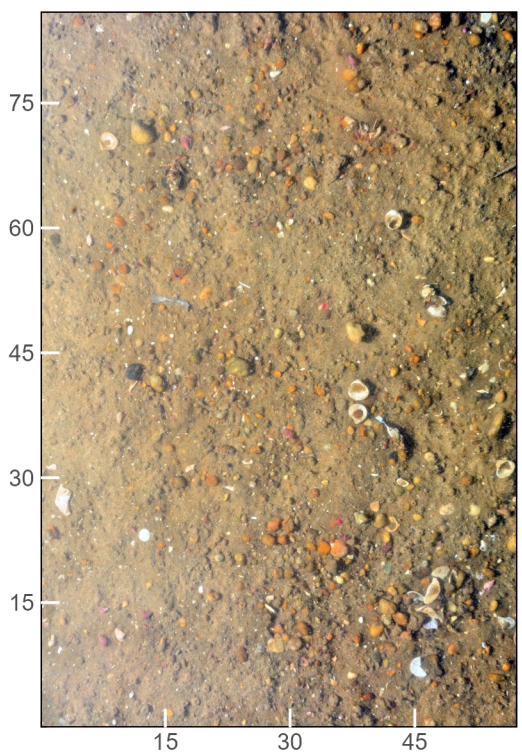
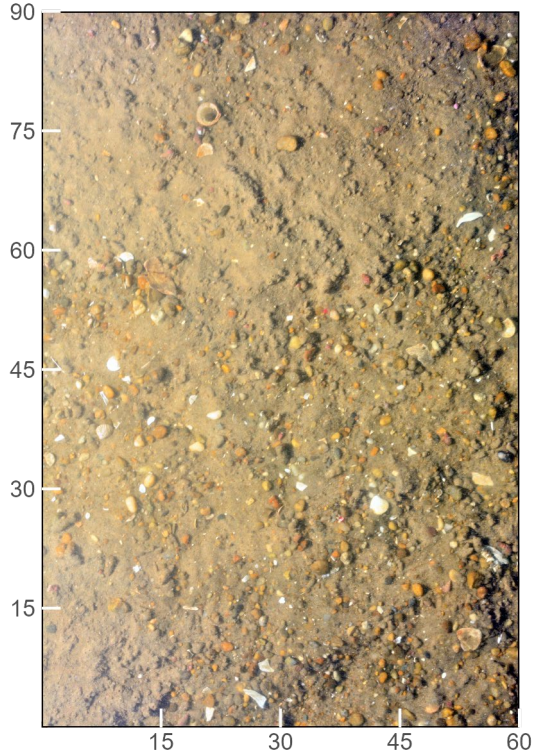
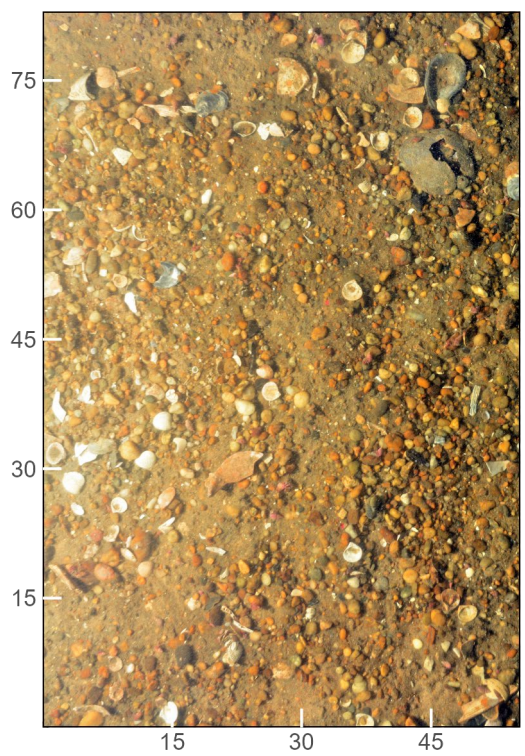


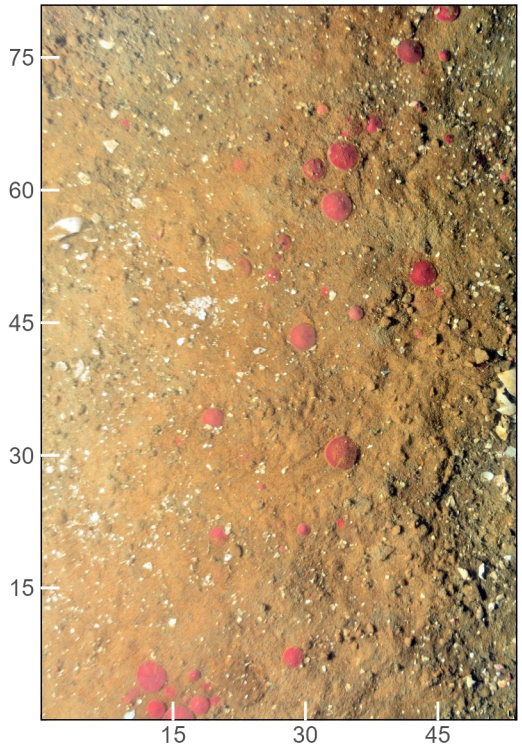
NECCT-SP-572-B



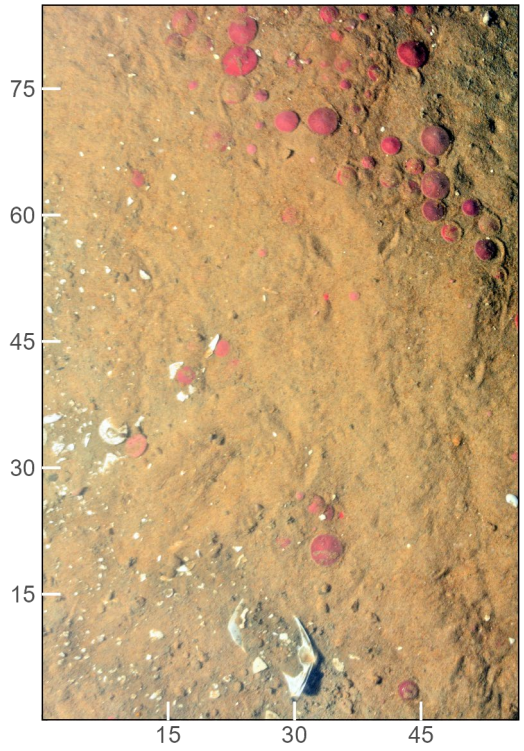
NECCT-SP-572-C



NECCT-SP-572-D



NECCT-SP-573-A



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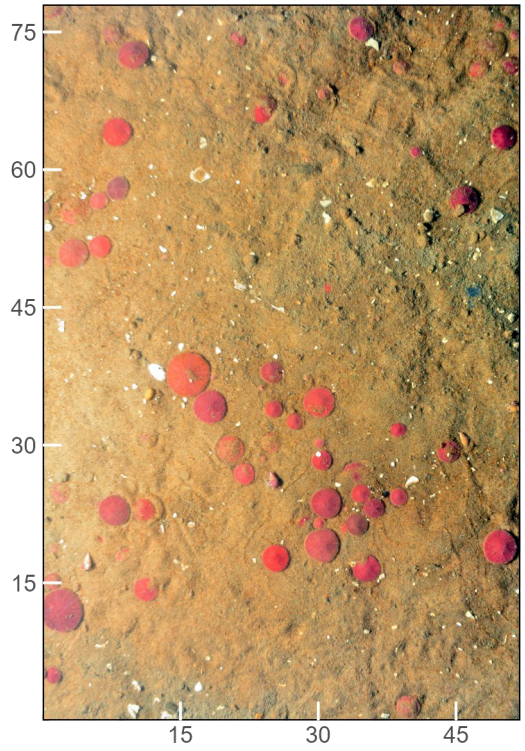
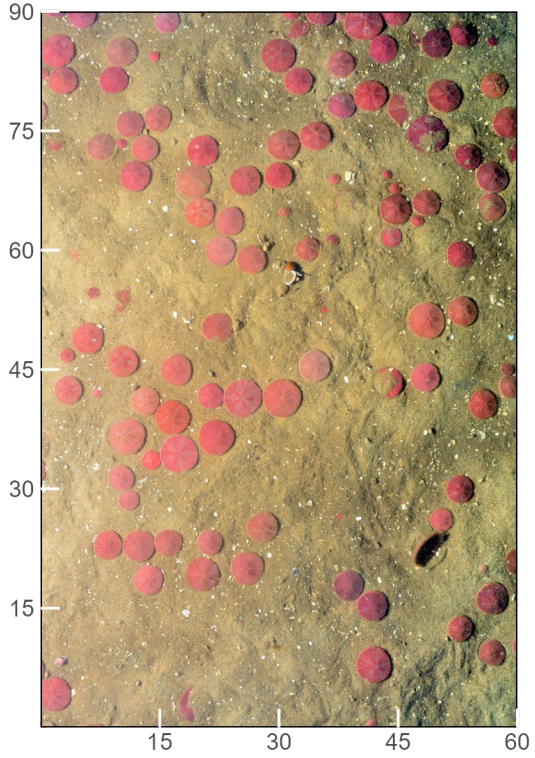
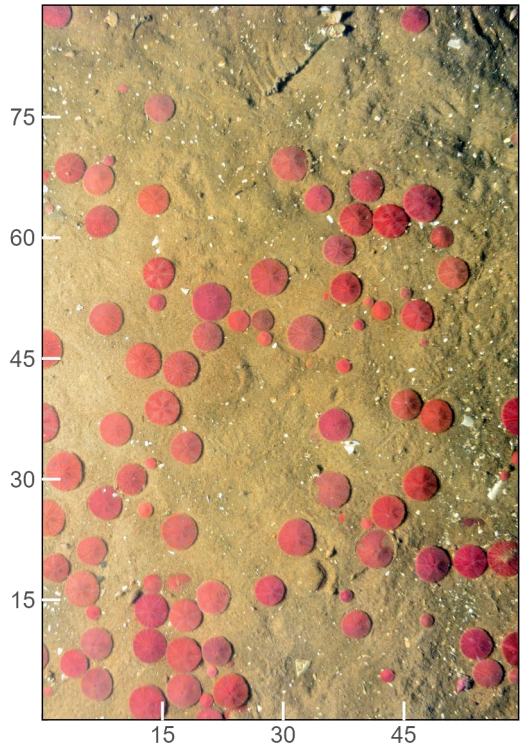


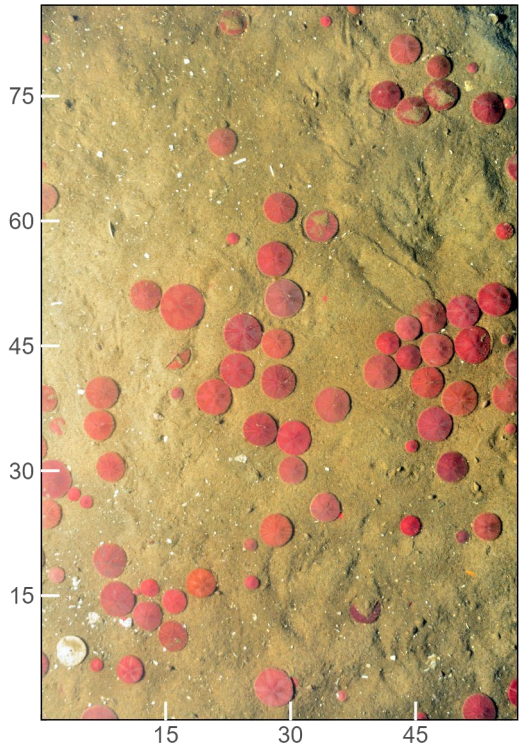
NECCT-SP-573-D



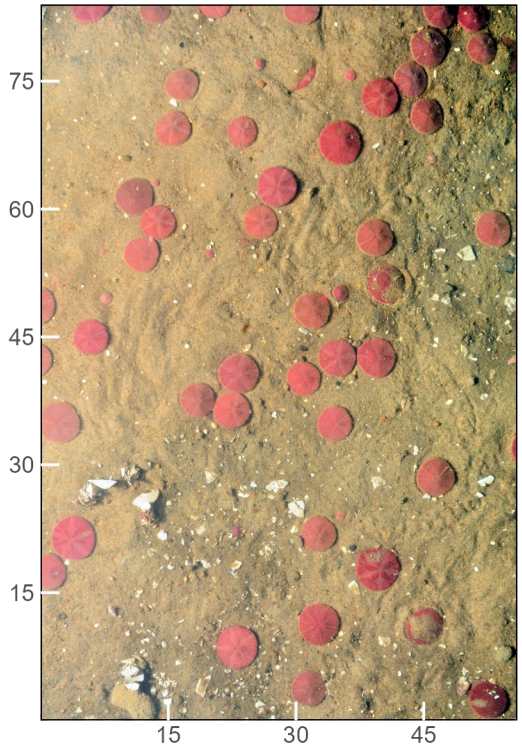
NECCT-SP-574-B



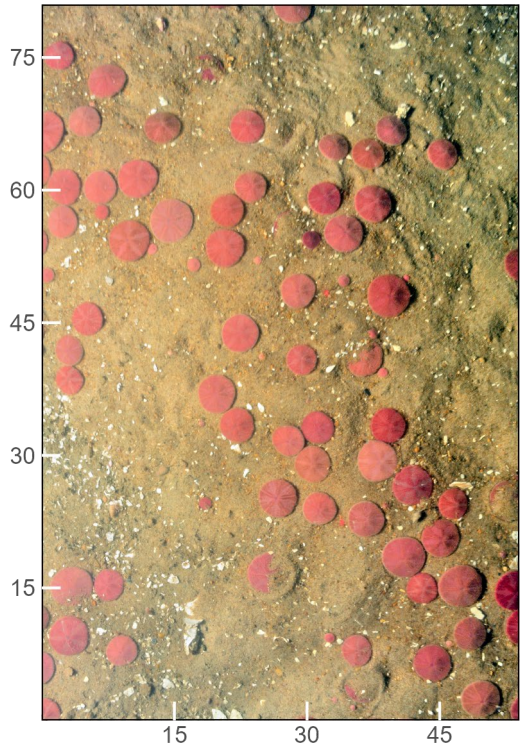
NECCT-SP-574-C



NECCT-SP-574-D



NECCT-SP-575-A



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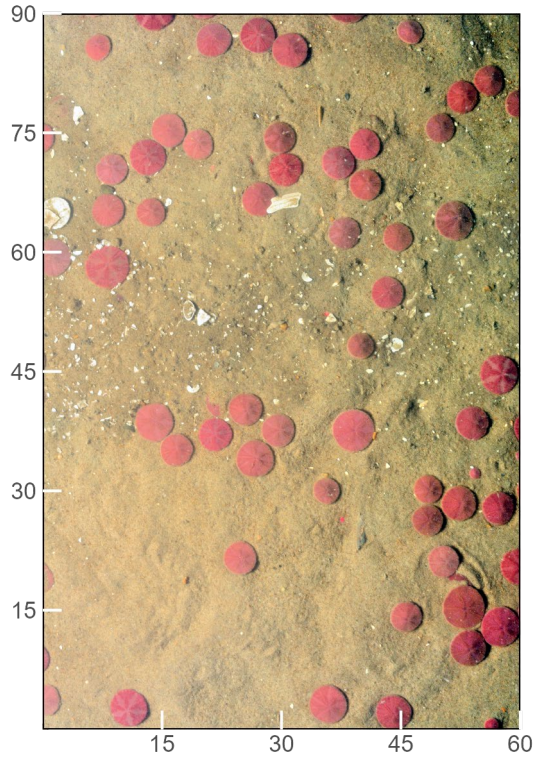

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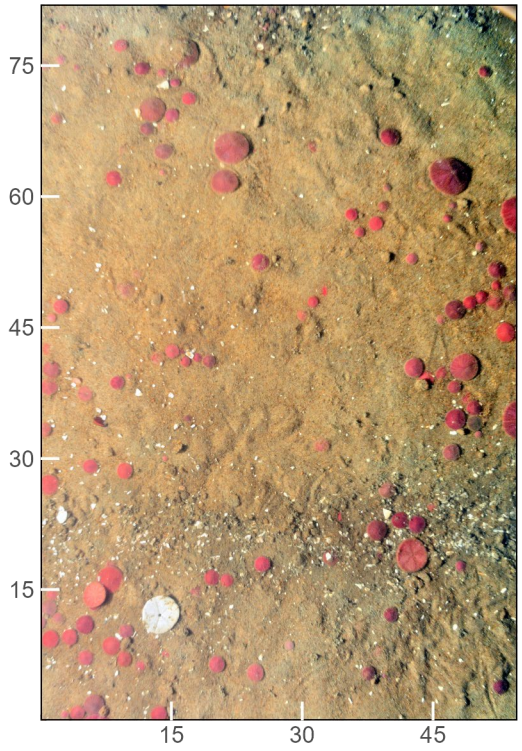

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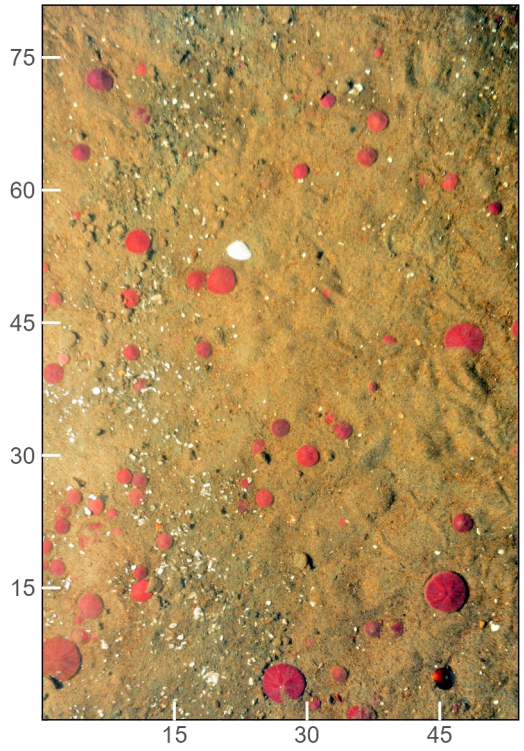

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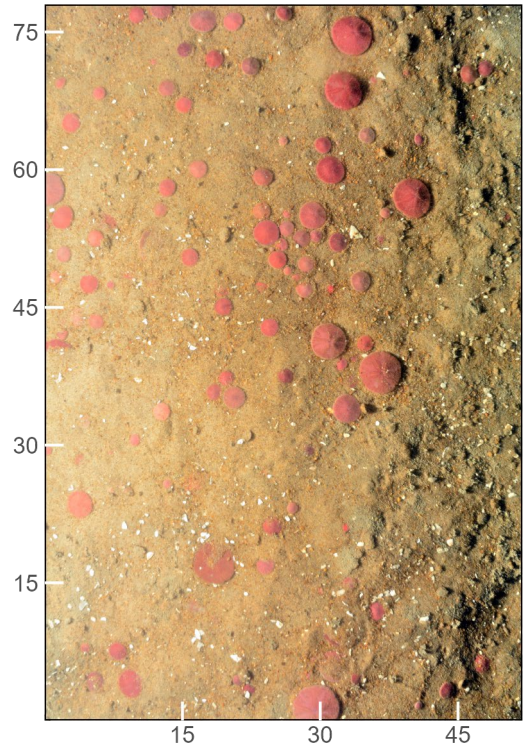

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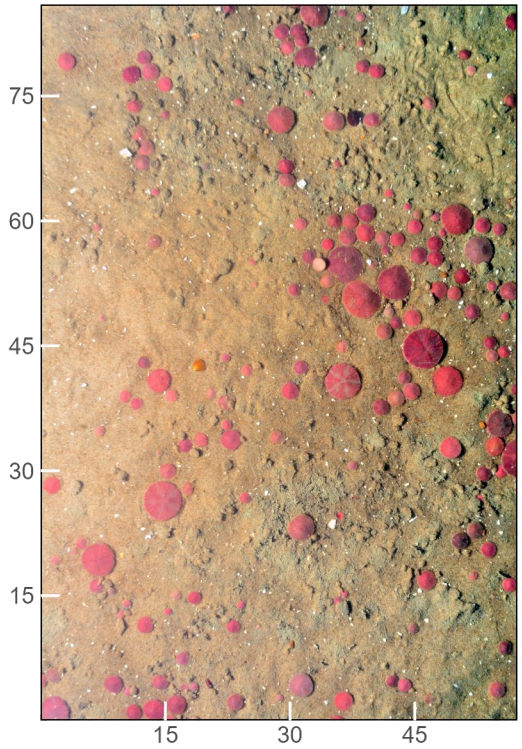
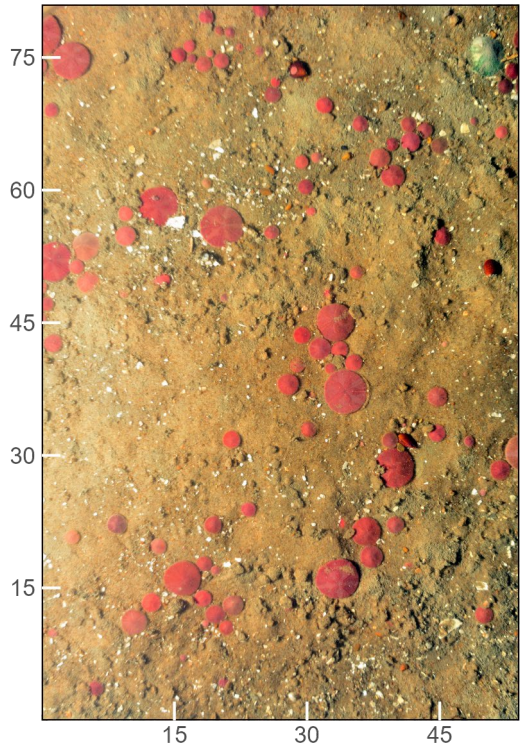
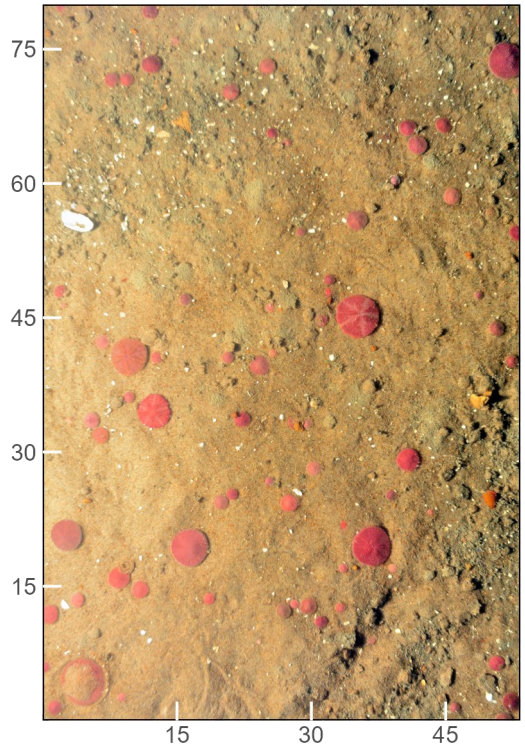


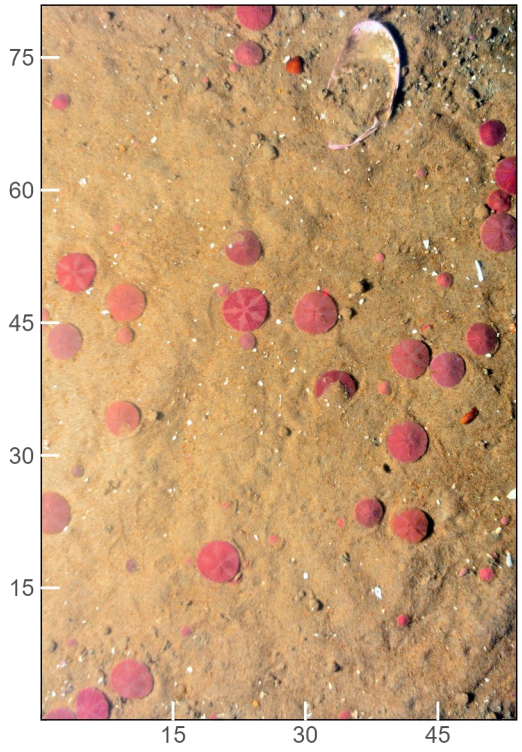
NECCT-SP-577-A



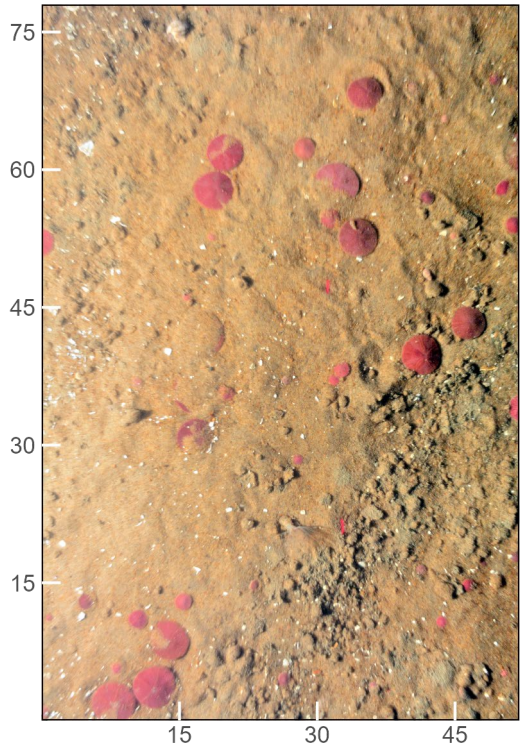
NECCT-SP-577-C



NECCT-SP-577-D



NECCT-SP-578-B



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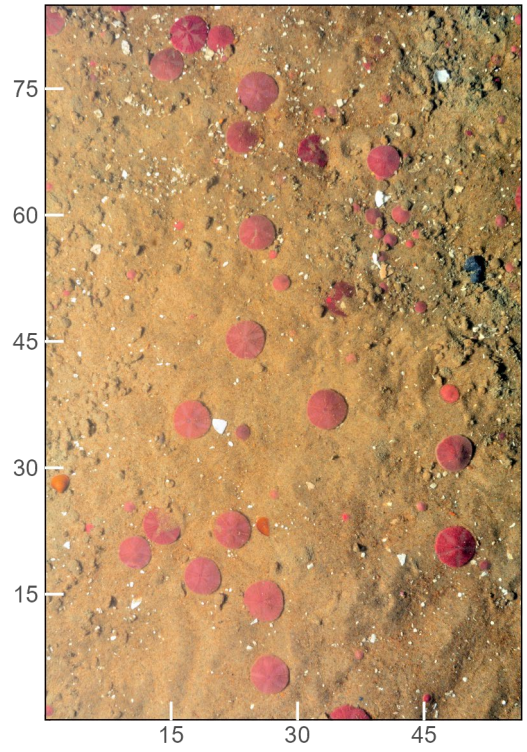
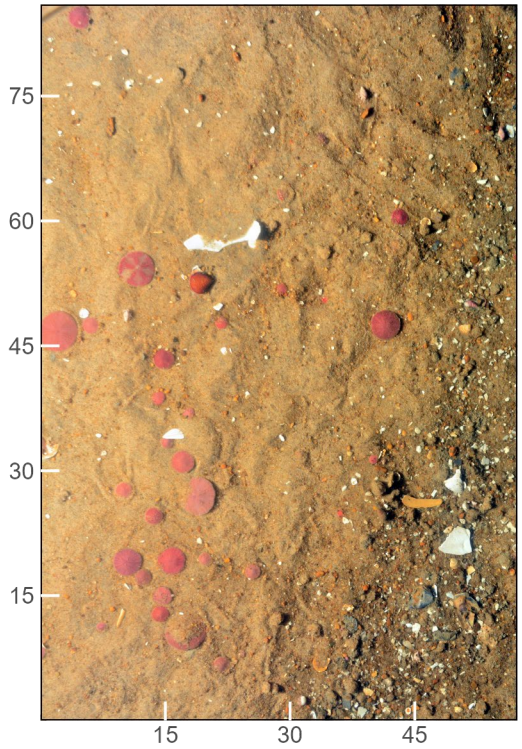
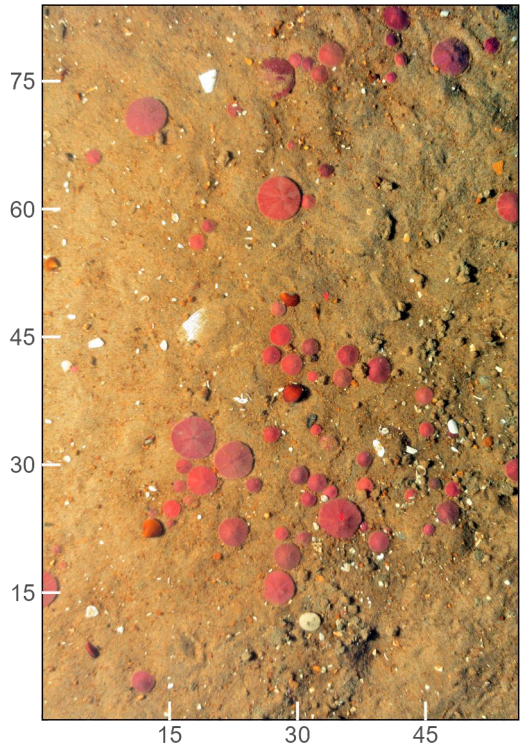


NECCT-SP-578-D



NECCT-SP-579-B



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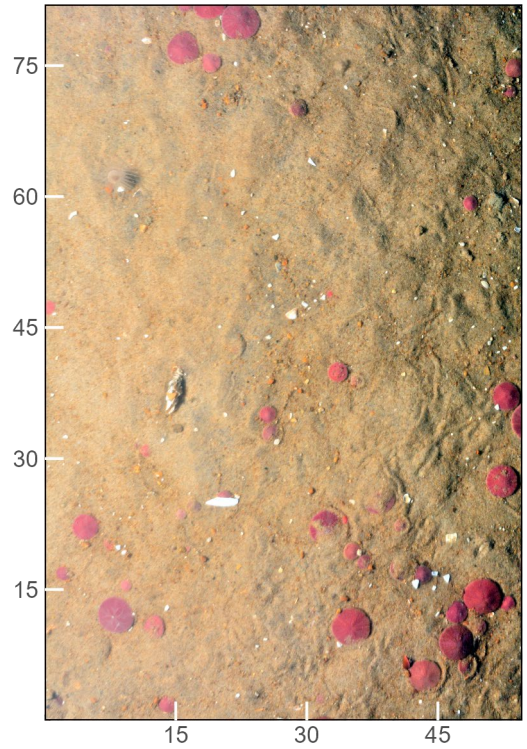

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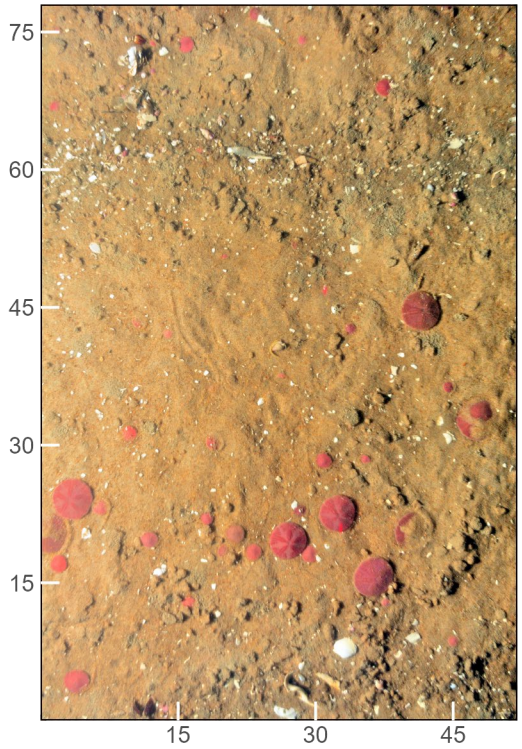
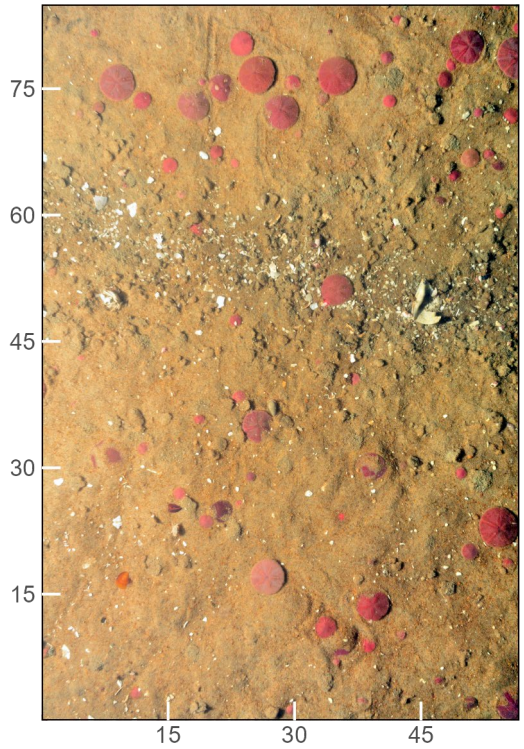


NECCT-SP-580-A



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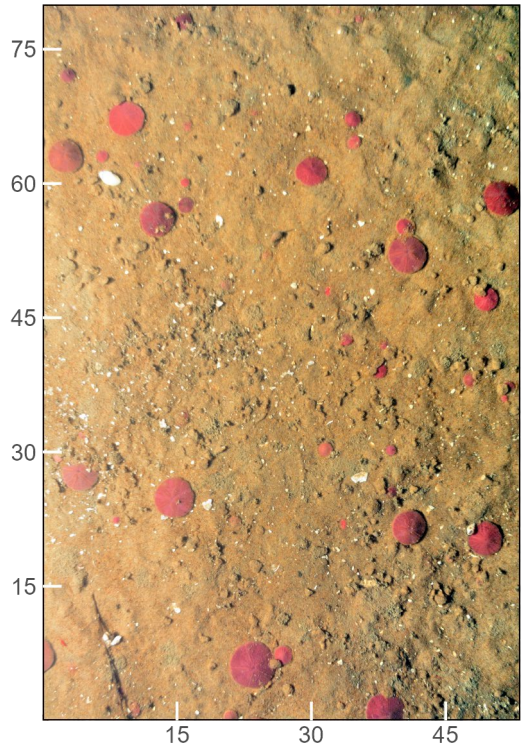

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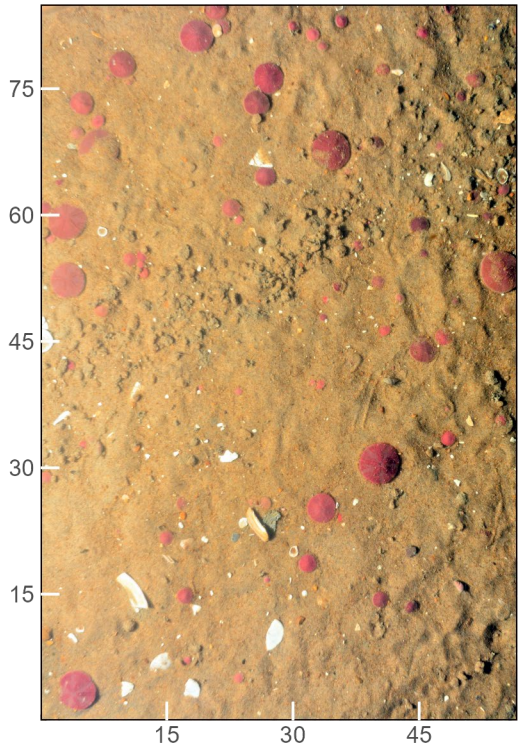
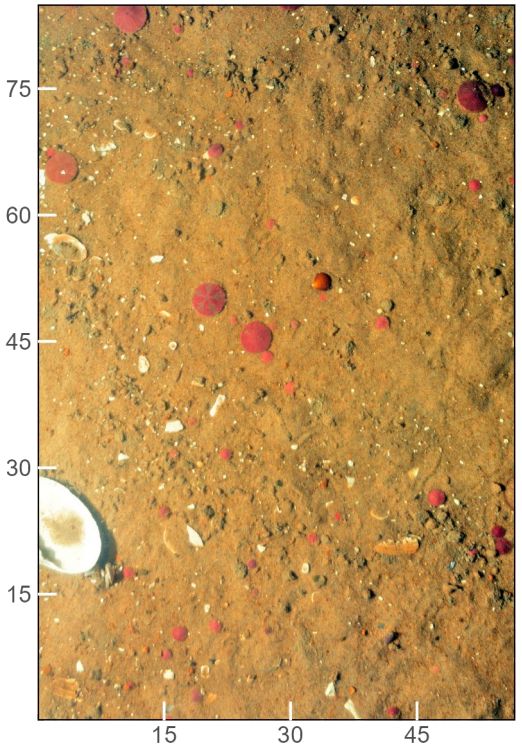


NECCT-SP-581-B



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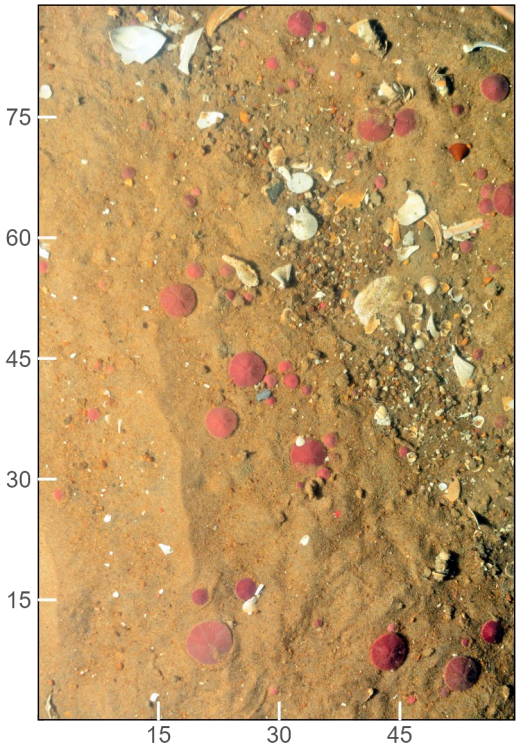

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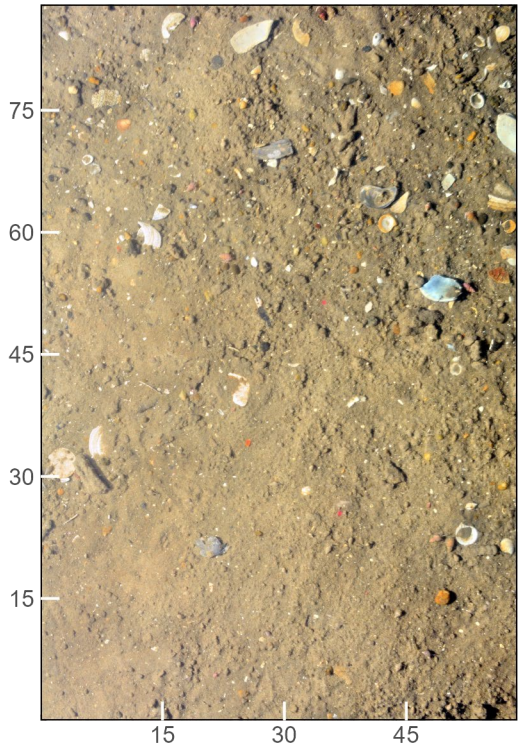
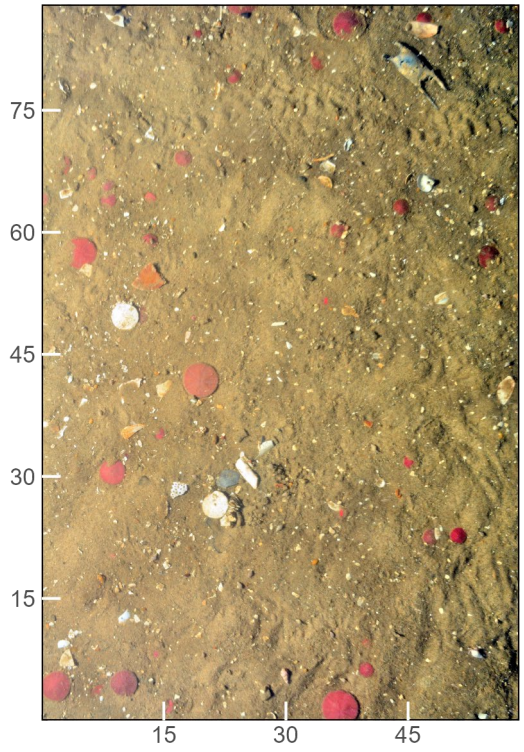


NECCT-SP-582-C



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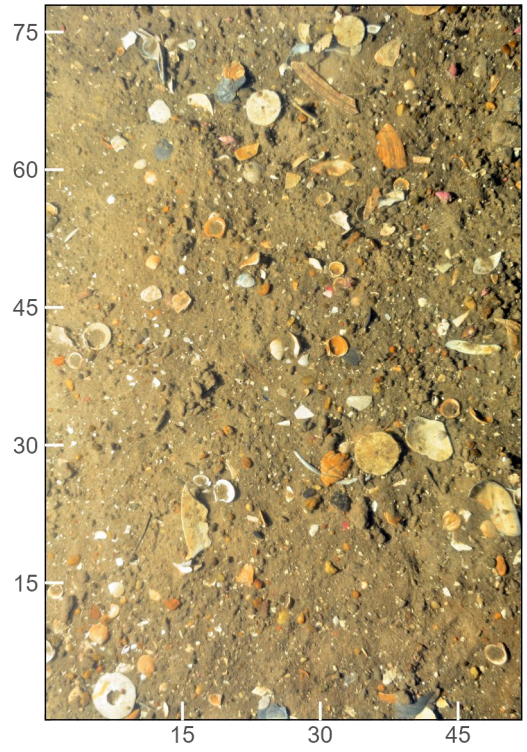
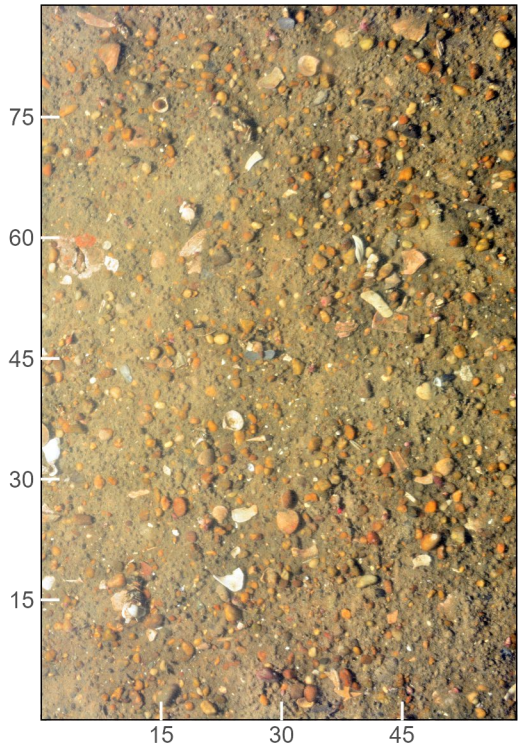
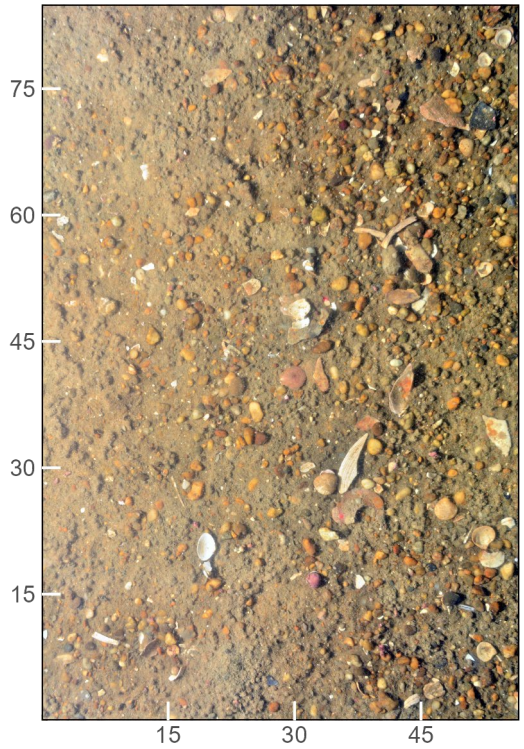


NECCT-SP-582-E



NECCT-SP-583-A



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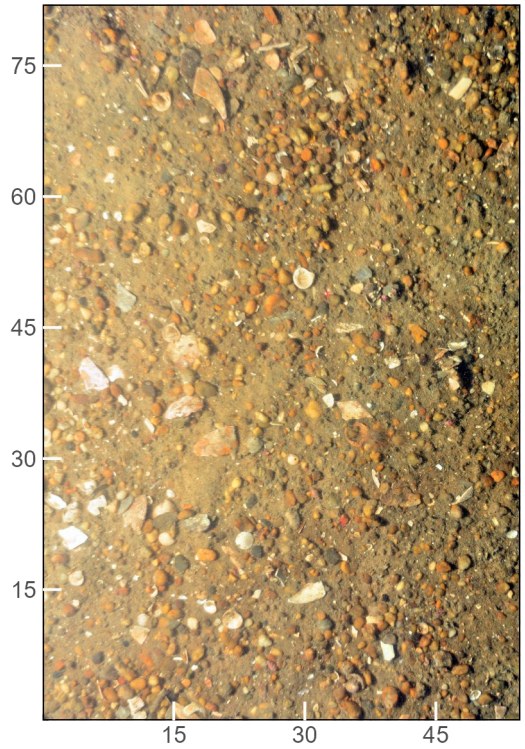

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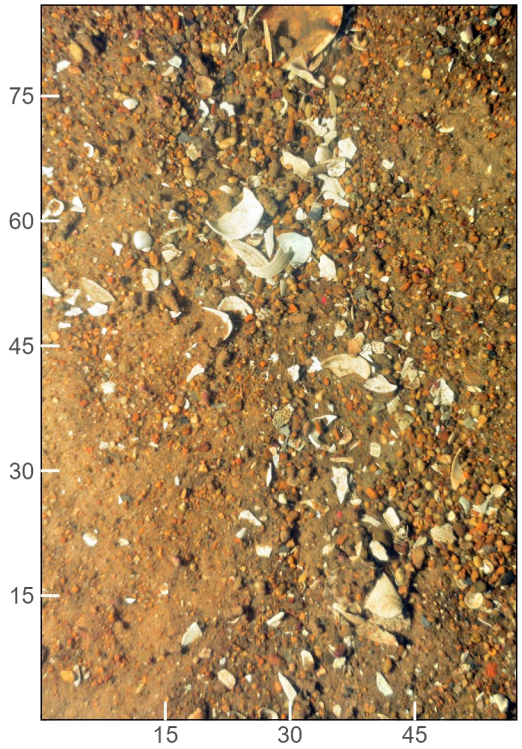
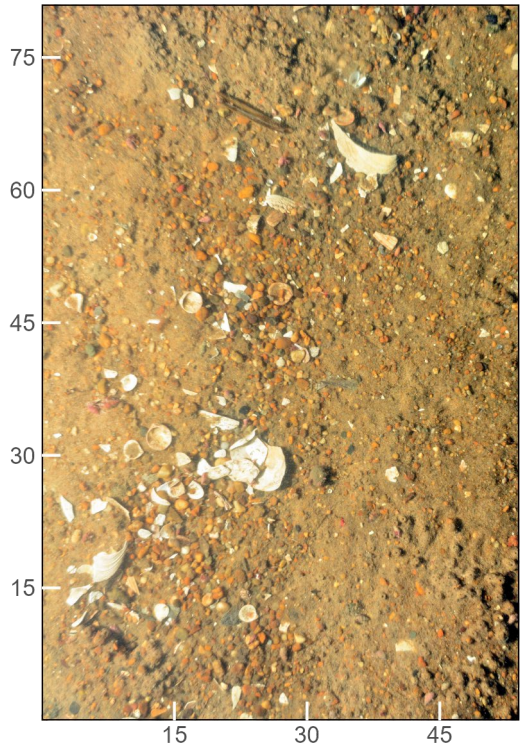


NECCT-SP-584-A



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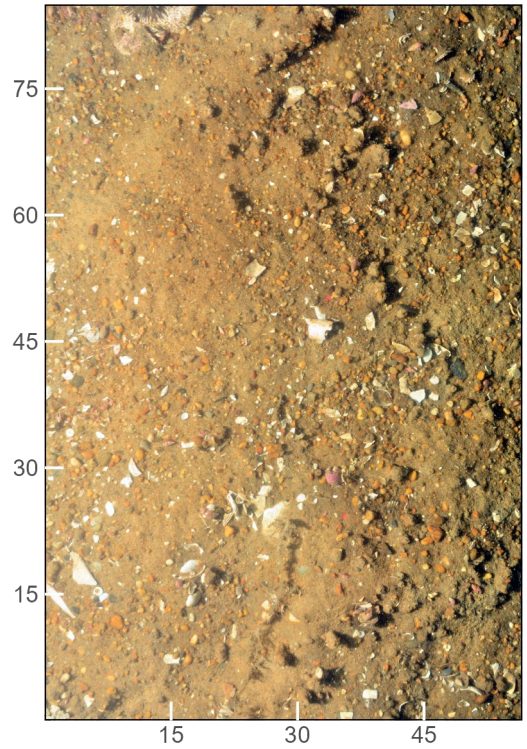

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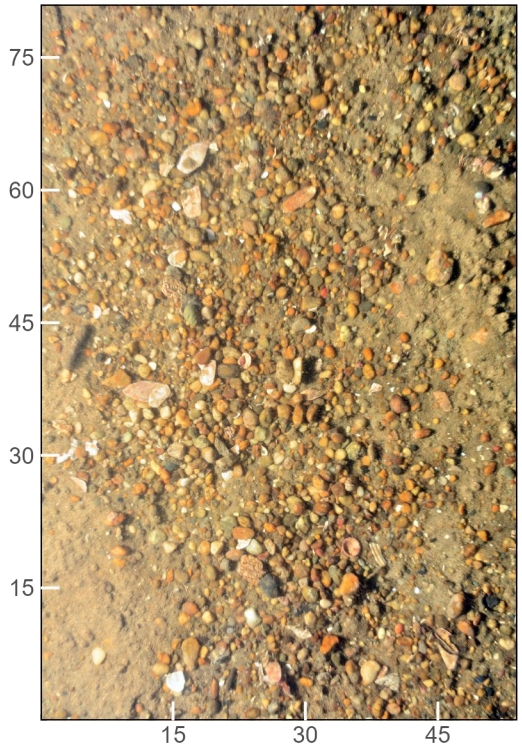
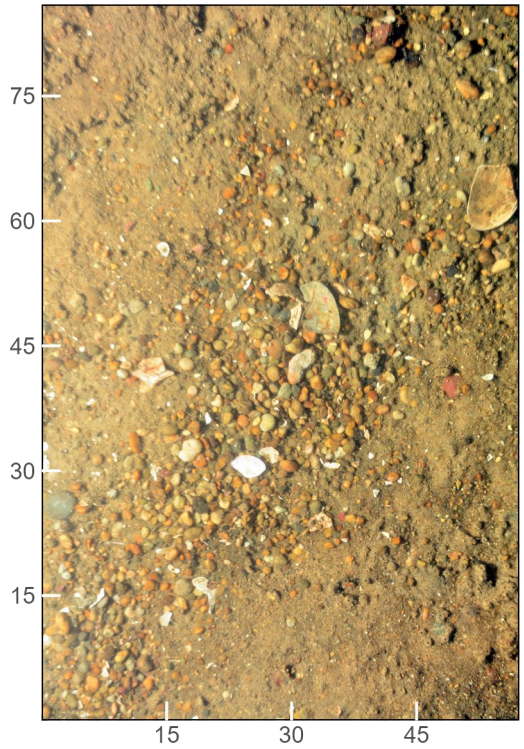


NECCT-SP-586-A



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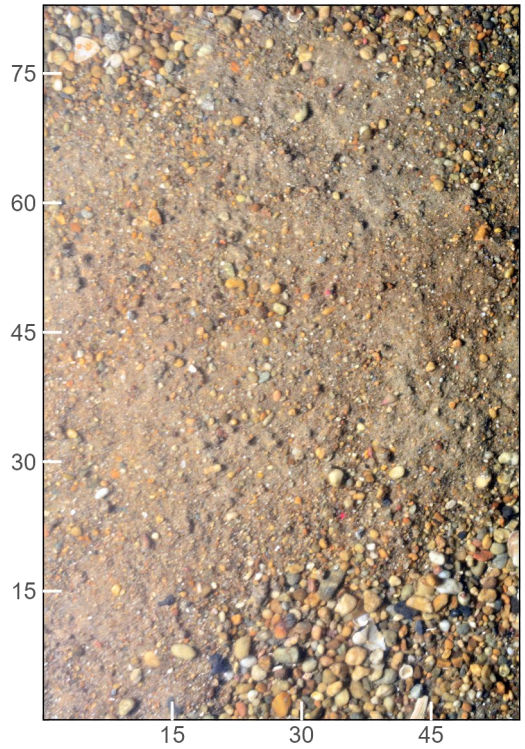

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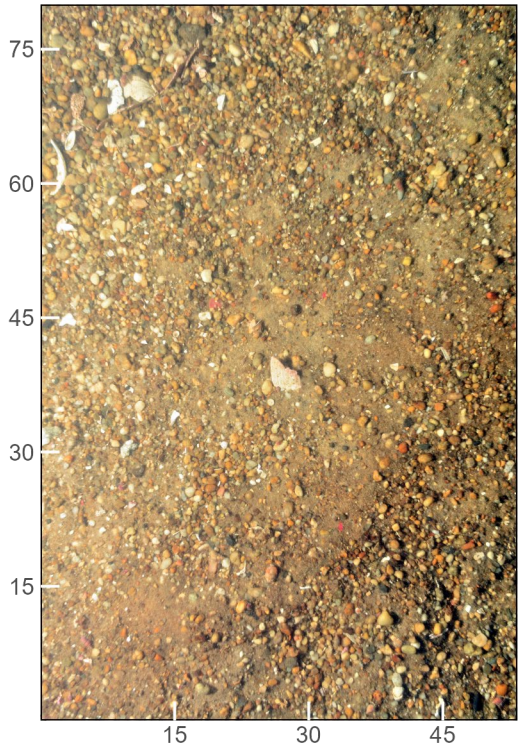

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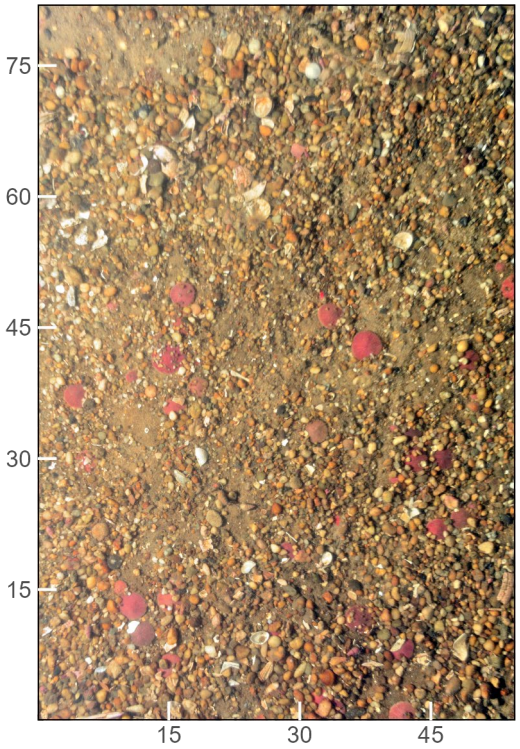

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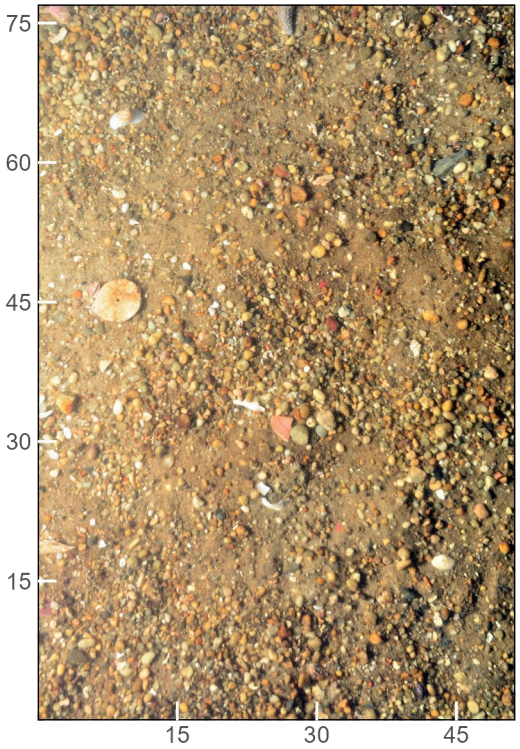

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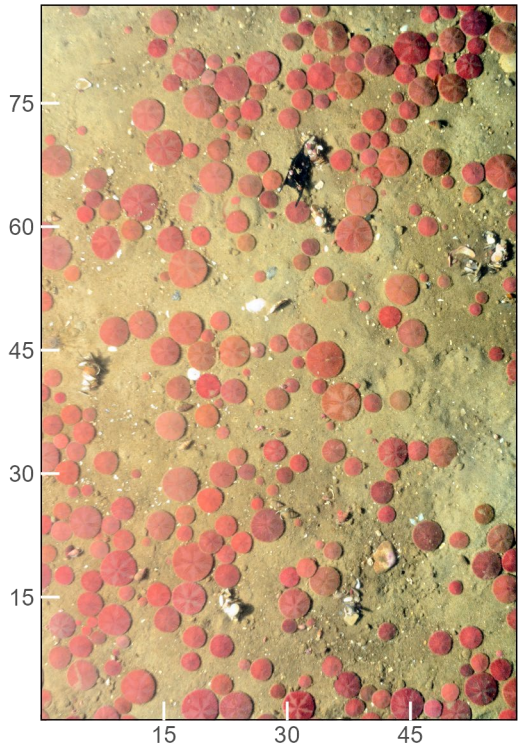

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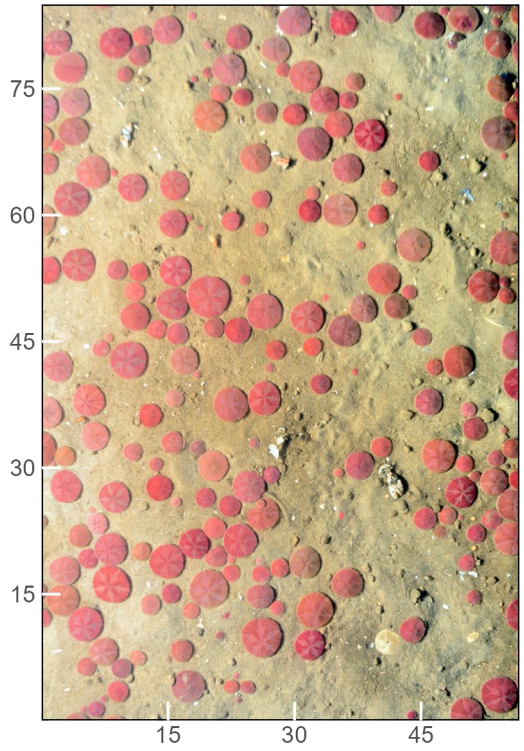

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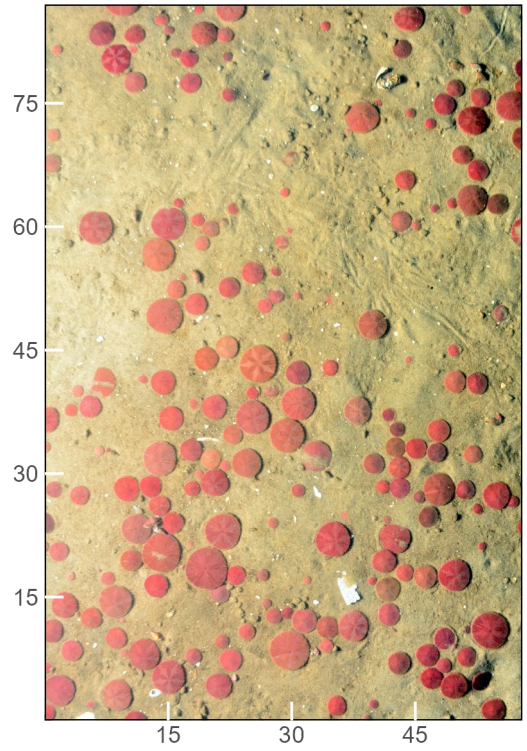

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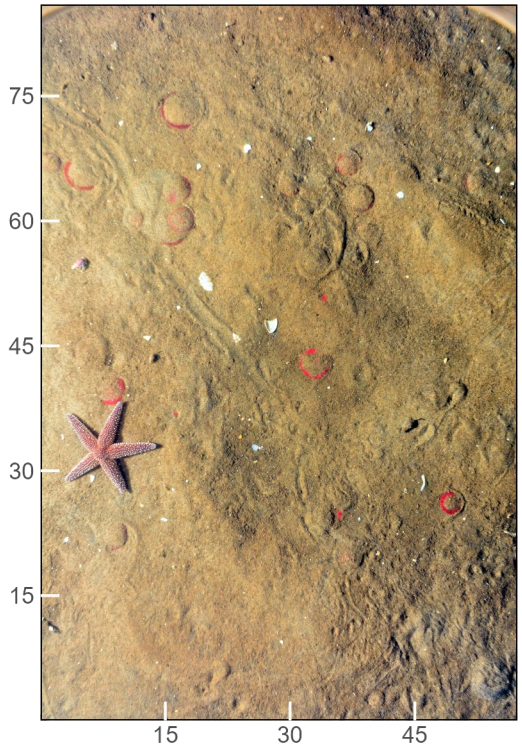

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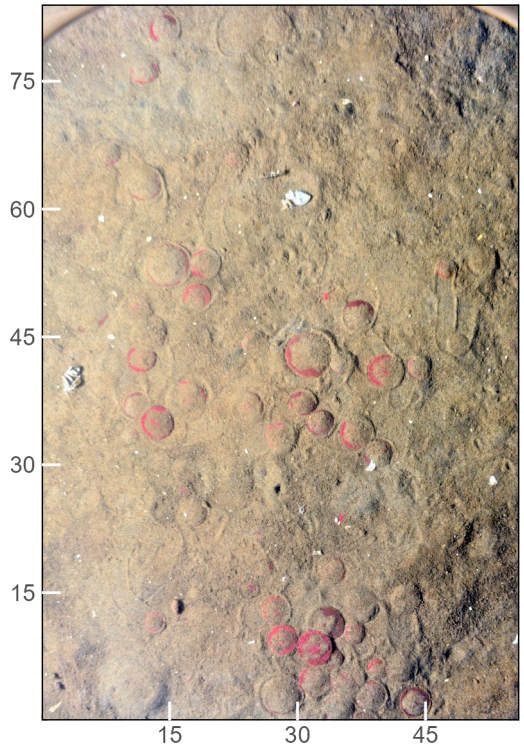

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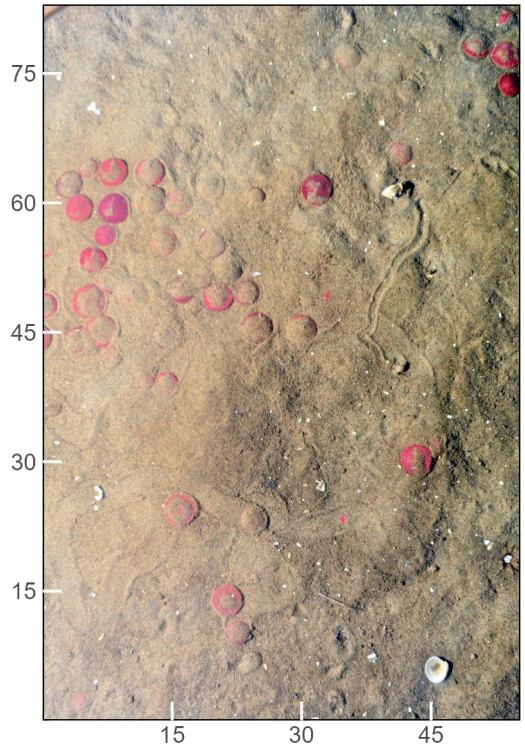

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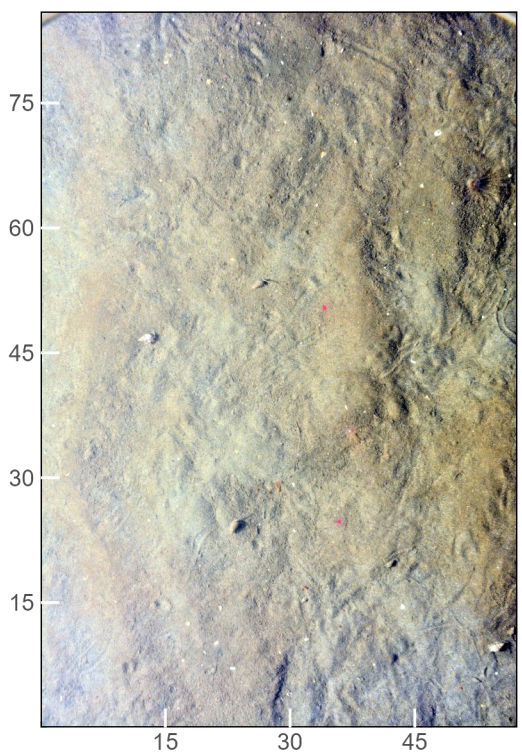

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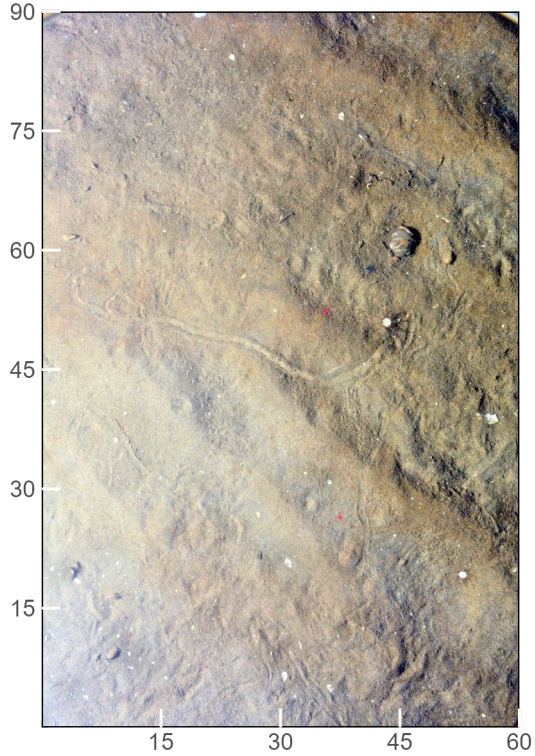

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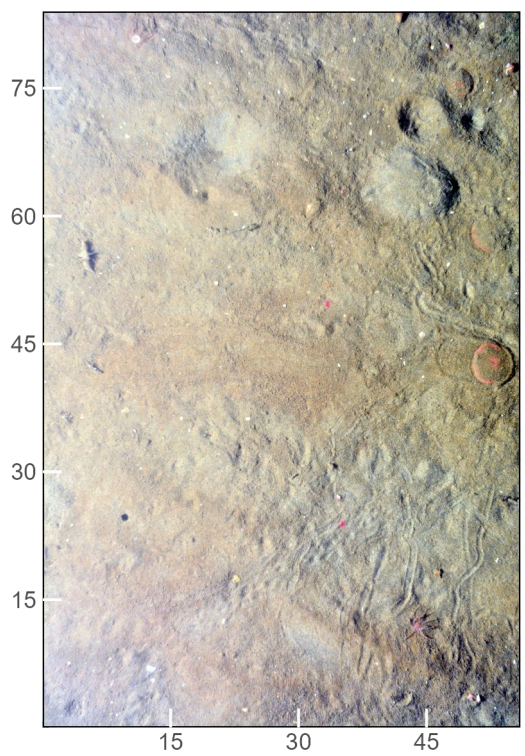

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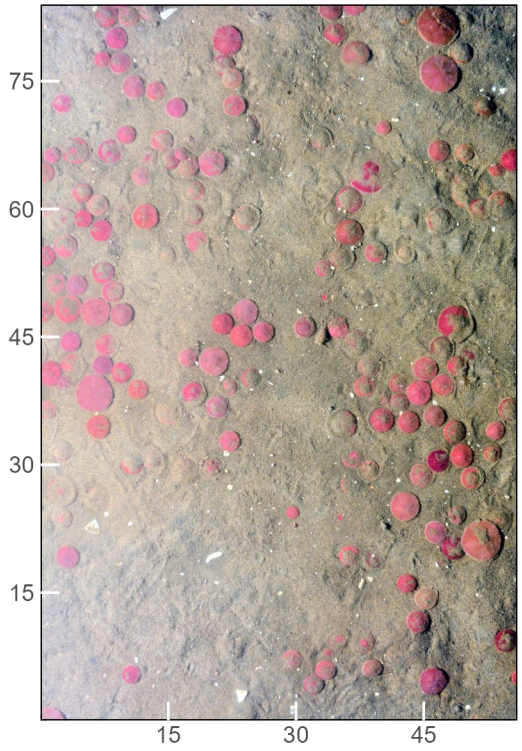

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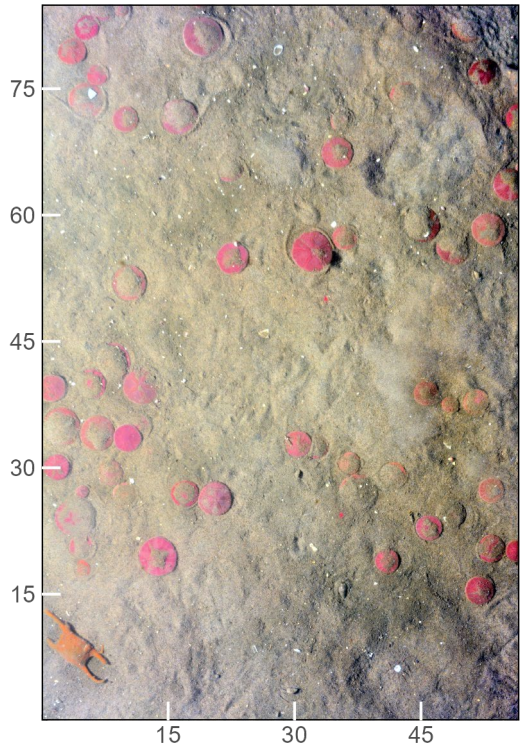

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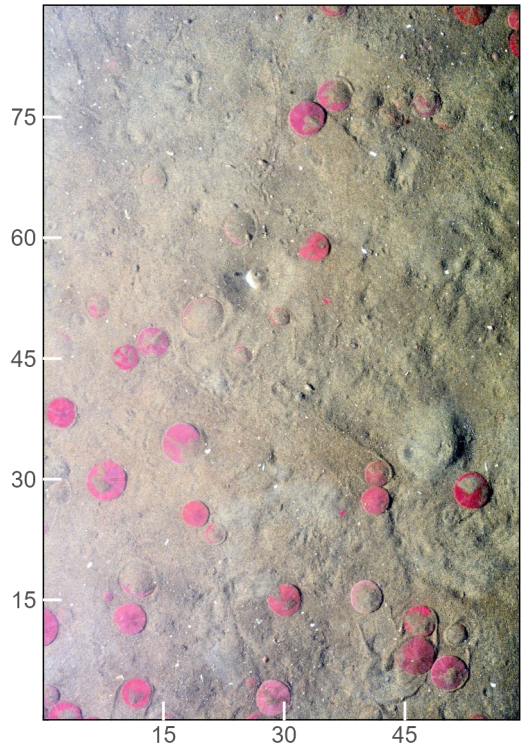

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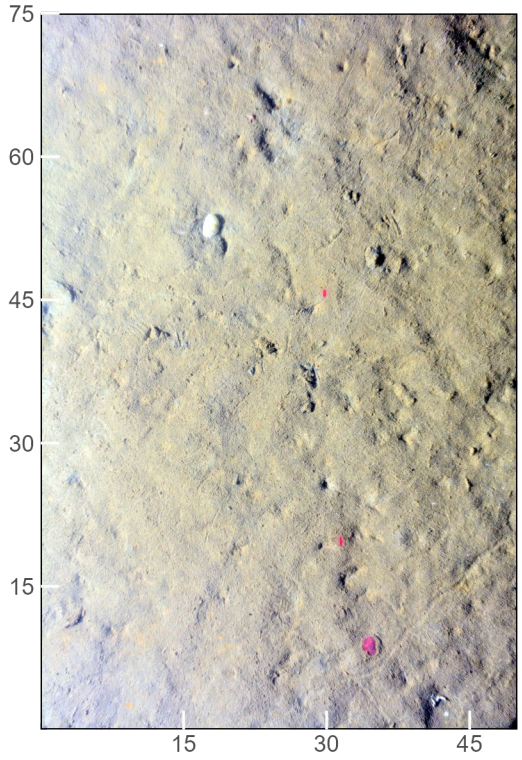

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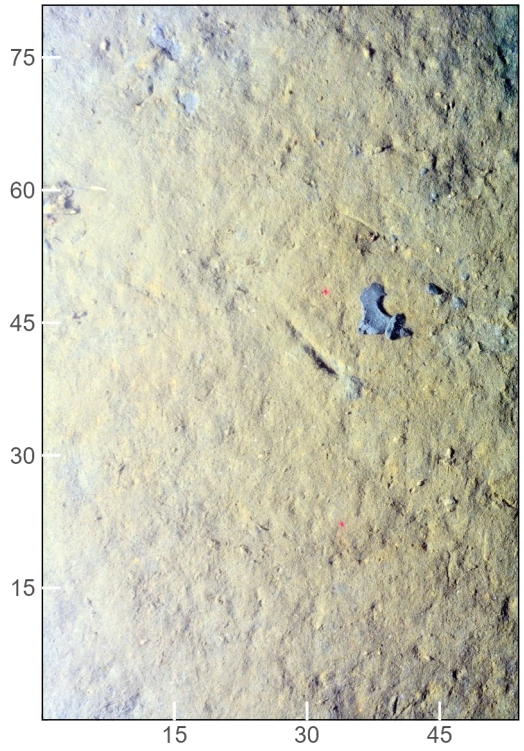

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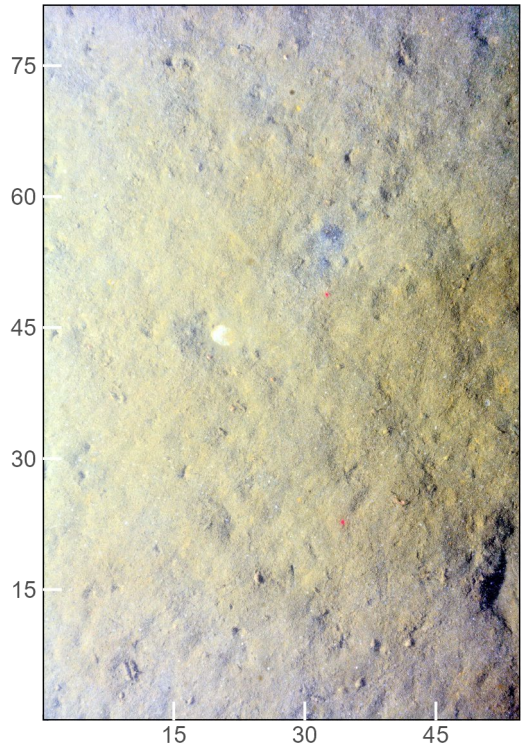

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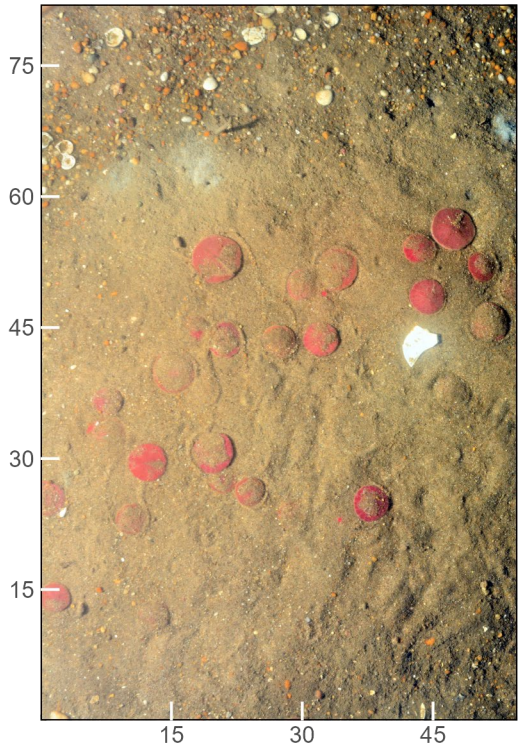

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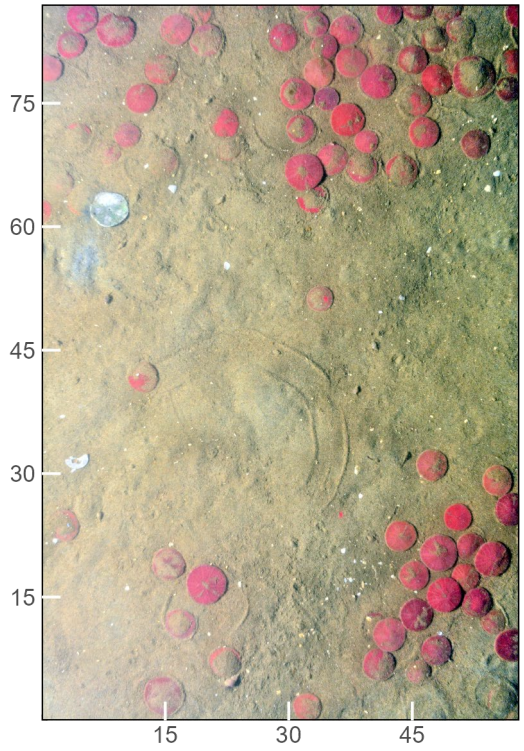

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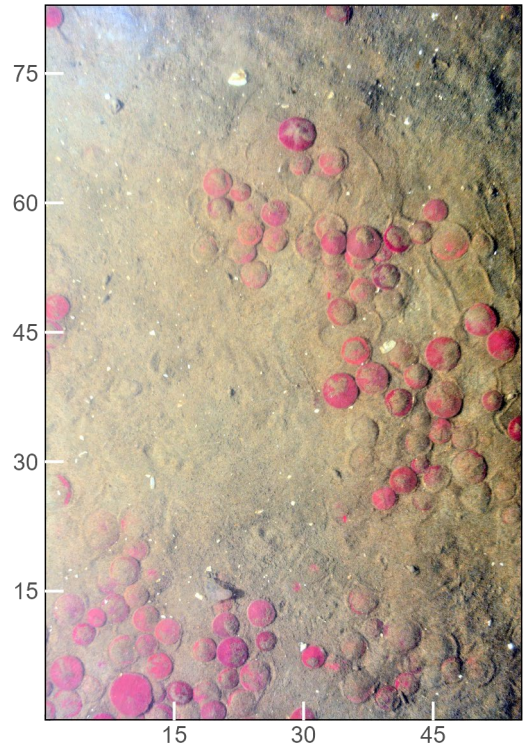
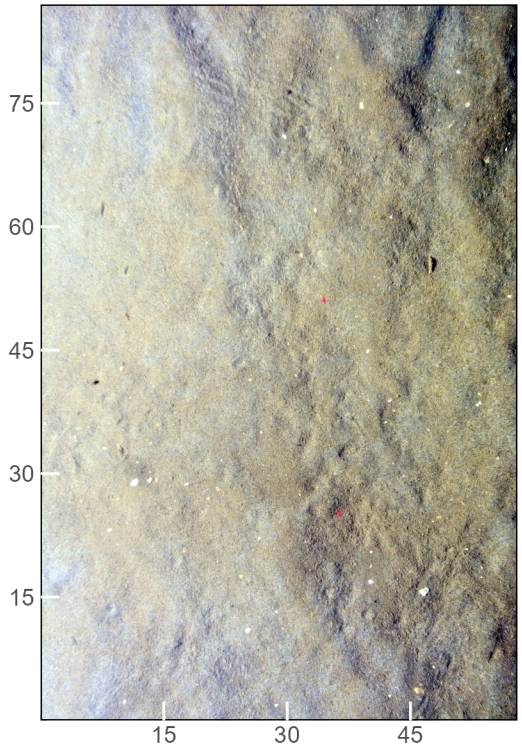
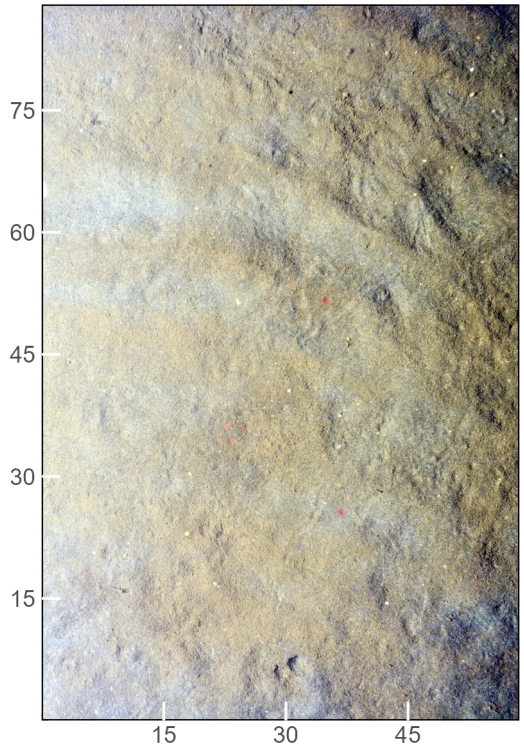


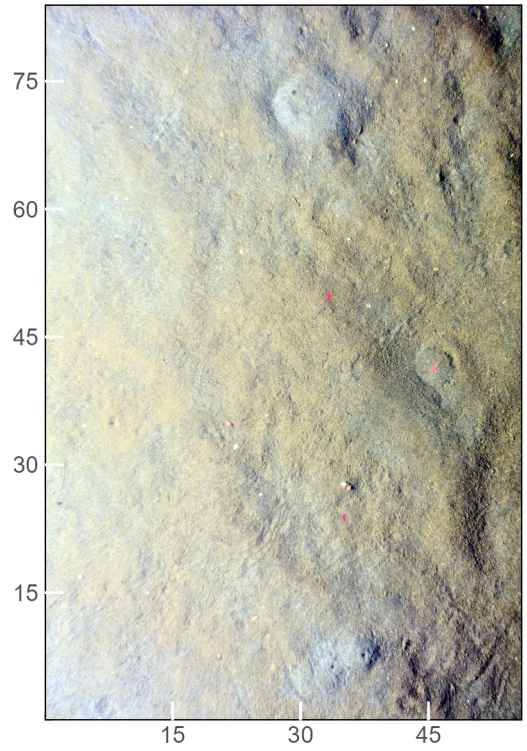
NECCT-SP-600-D



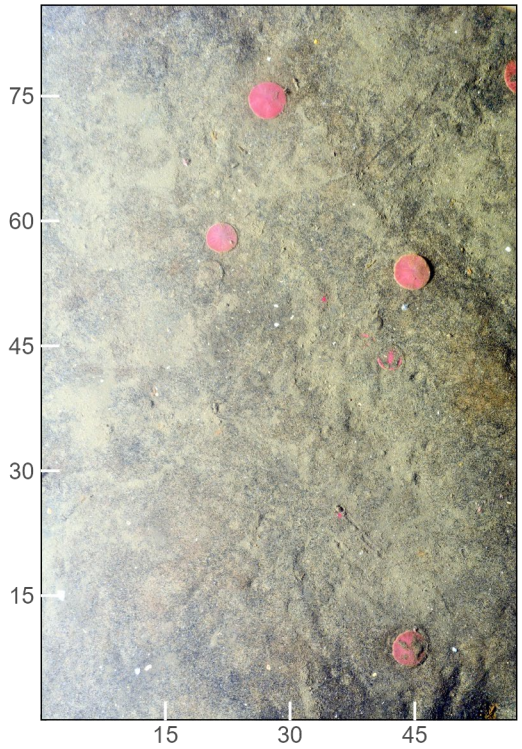
NECCT-SP-601-A



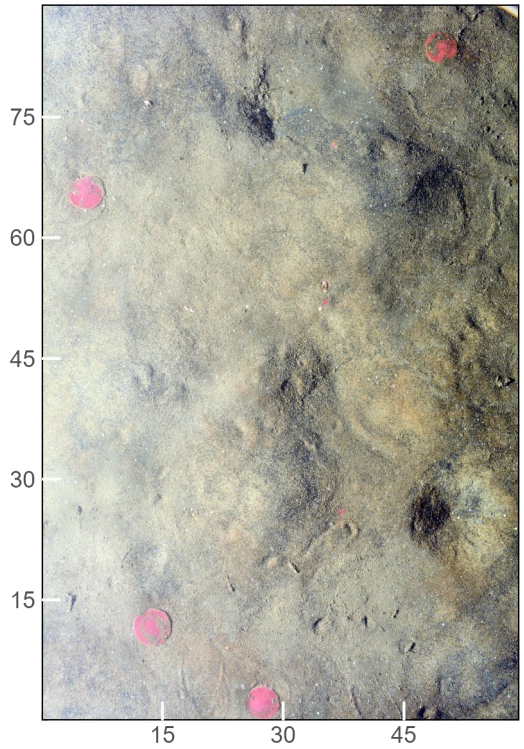
NECCT-SP-601-C



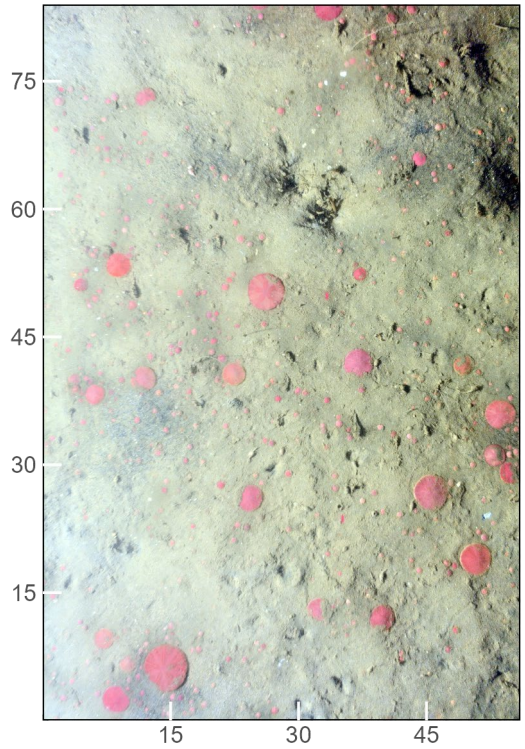
NECCT-SP-601-D



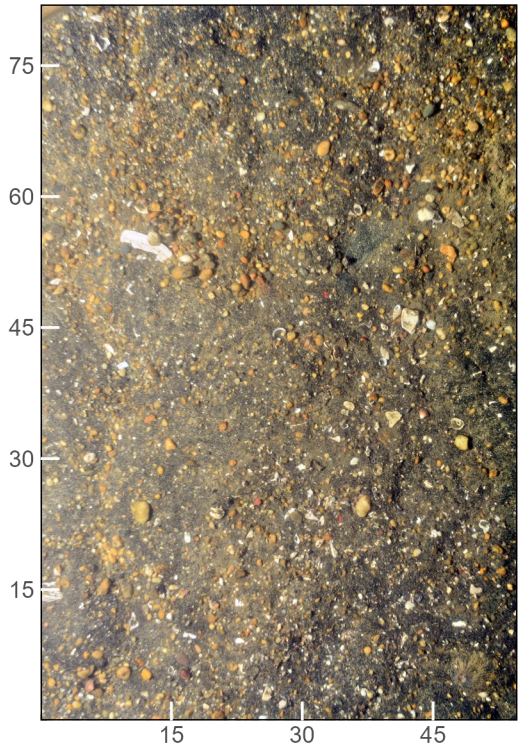
NECCT-SP-602-B



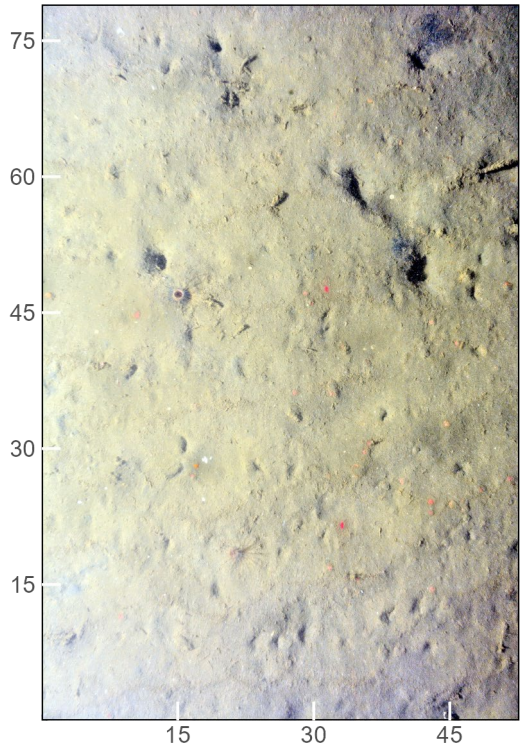
NECCT-SP-602-C



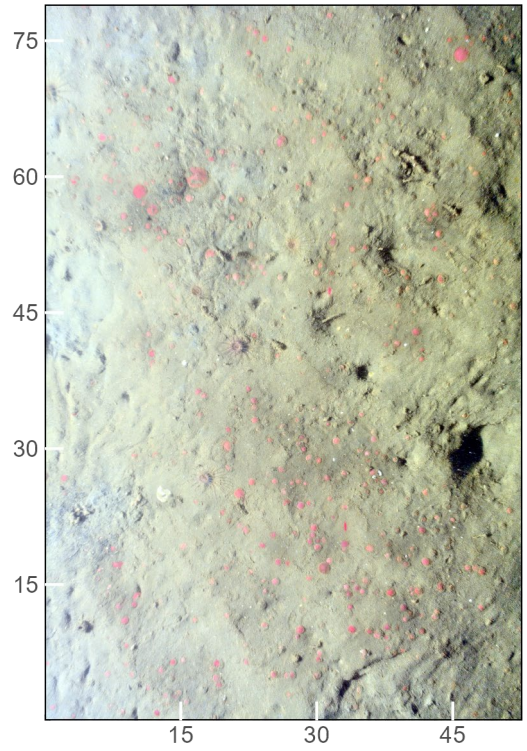
NECCT-SP-602-D



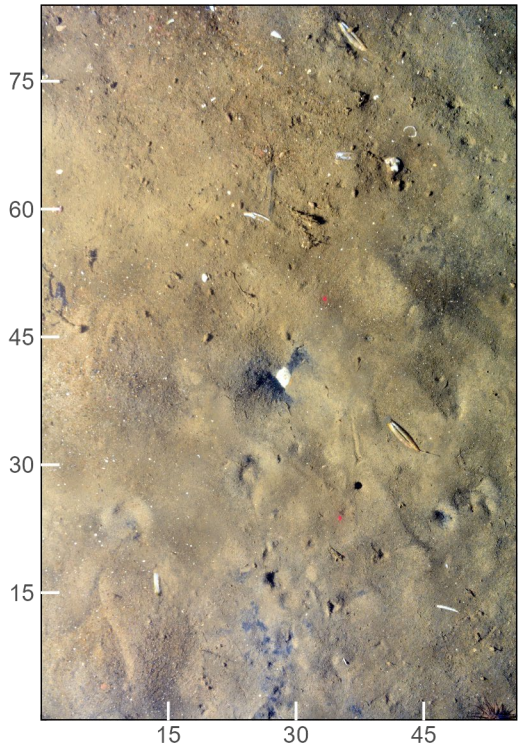
NECCT-SP-603-E



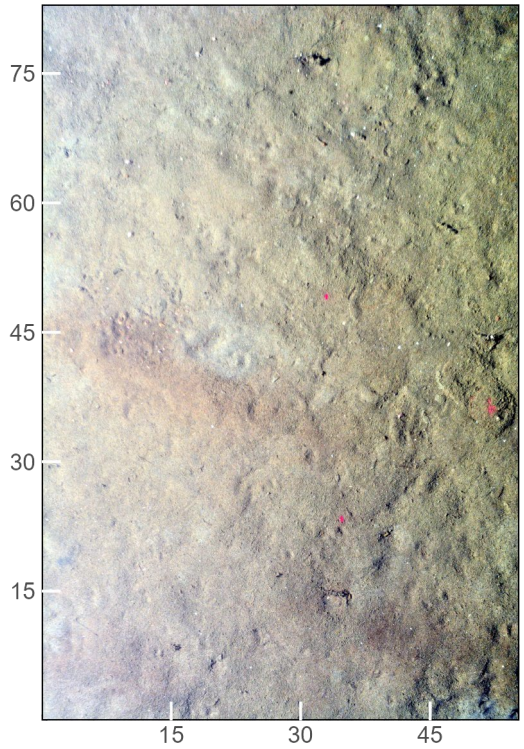
NECCT-SP-603-F



NECCT-SP-603-G



NECCT-SP-604-A



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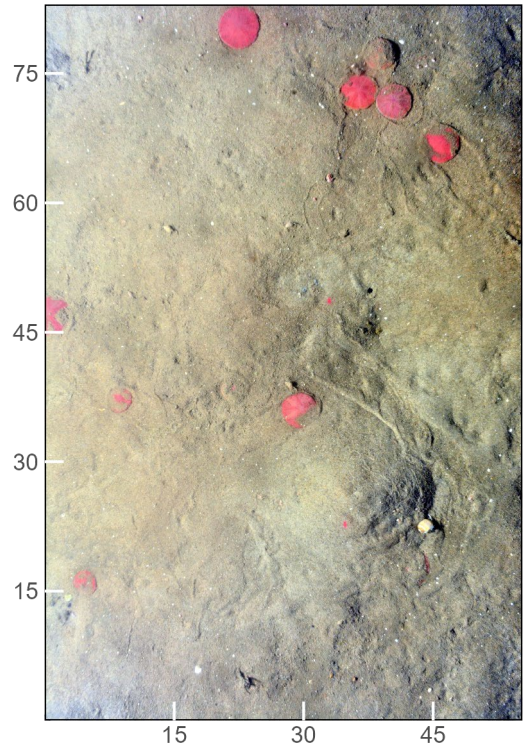

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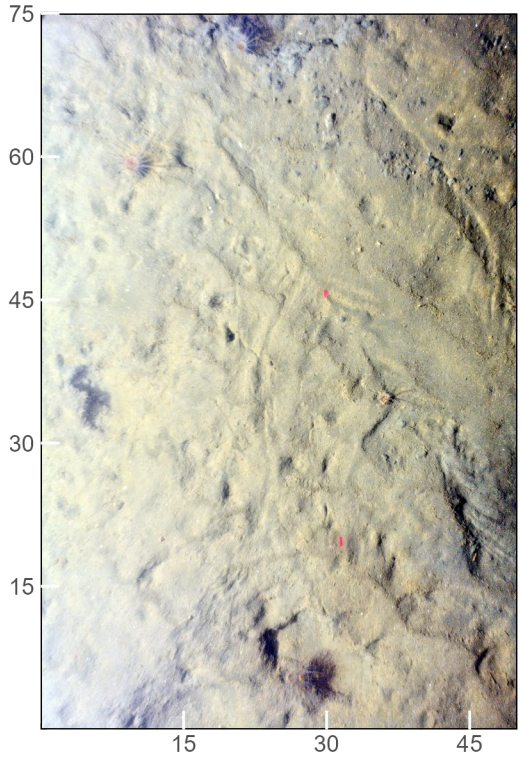

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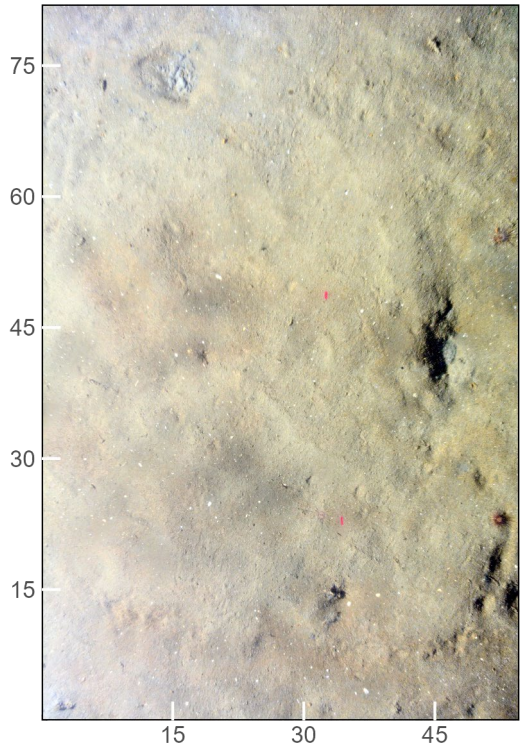

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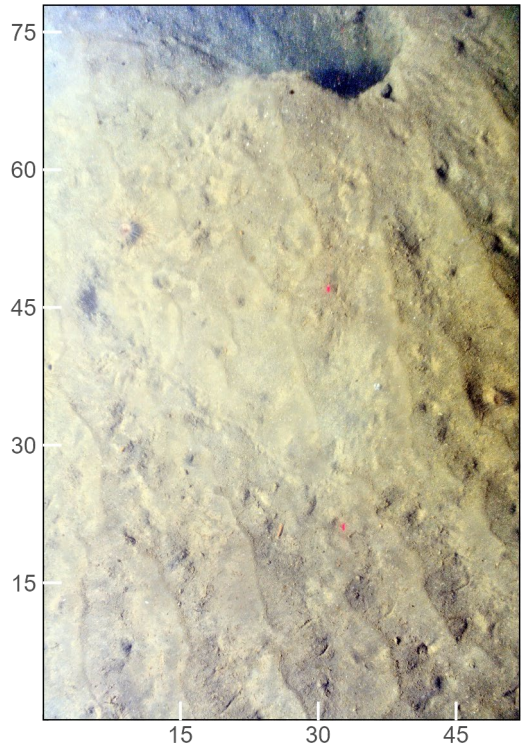

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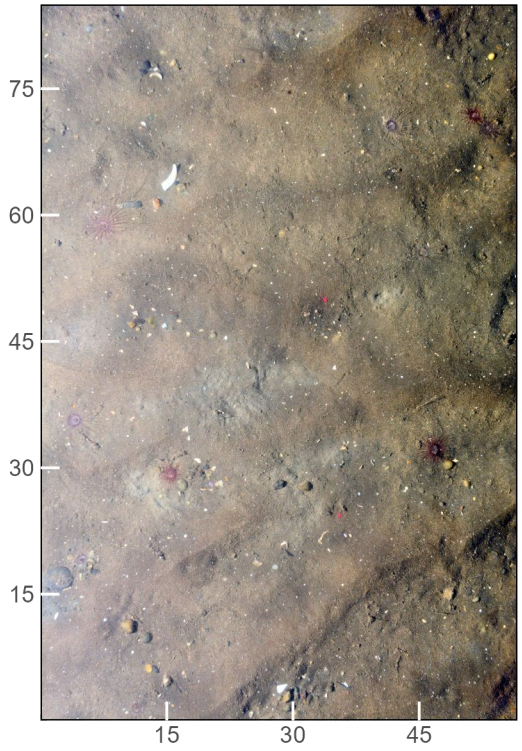

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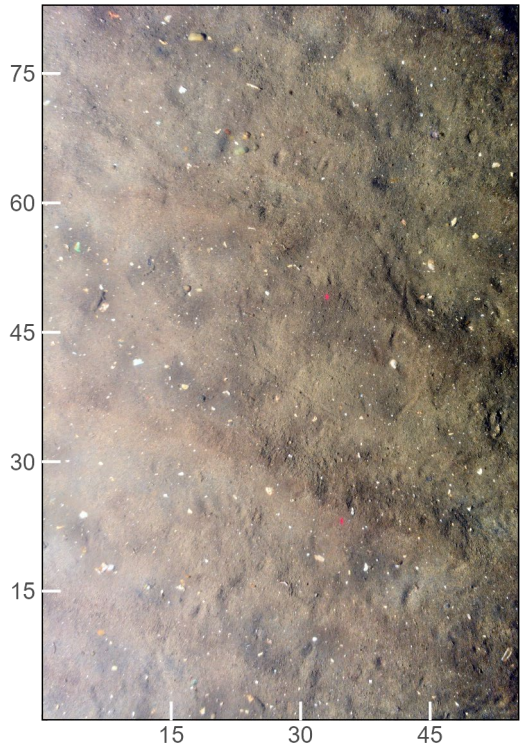

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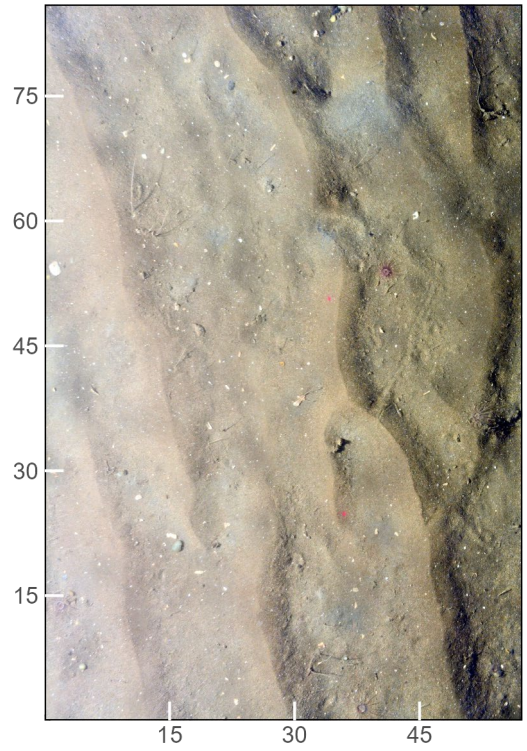

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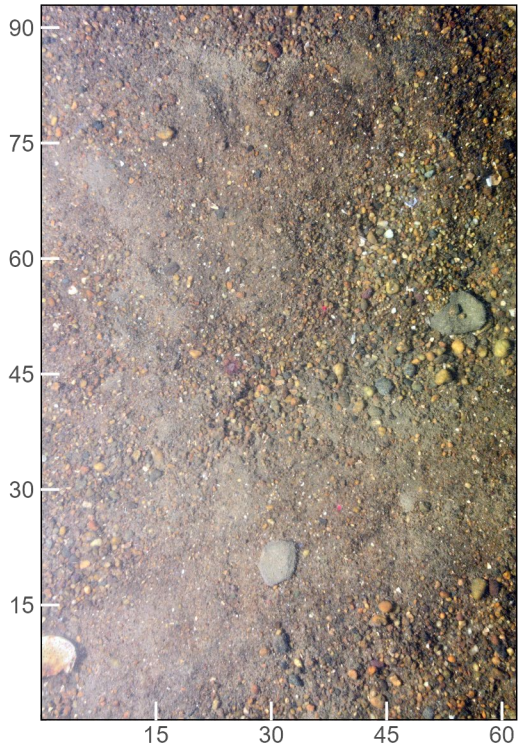

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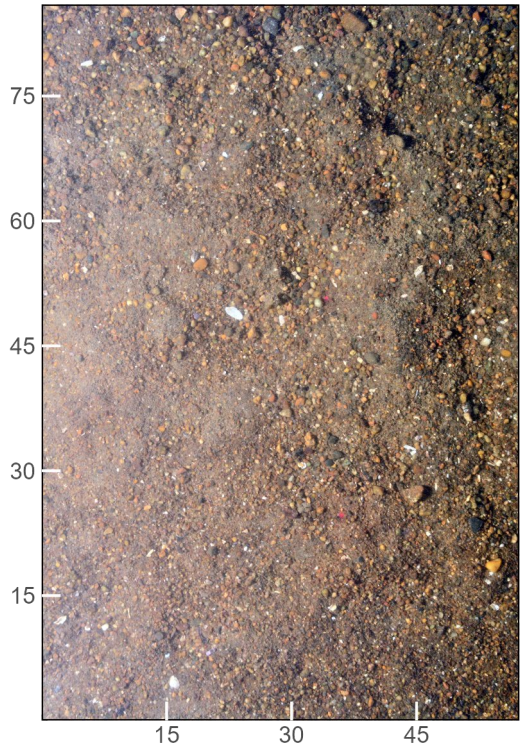

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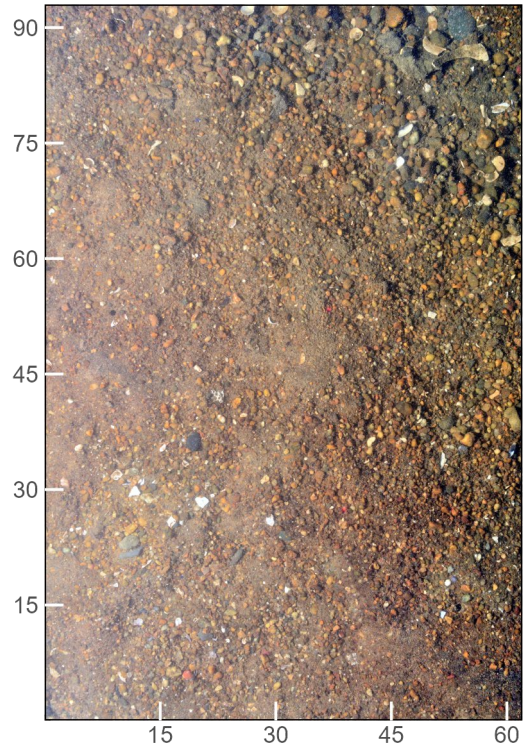

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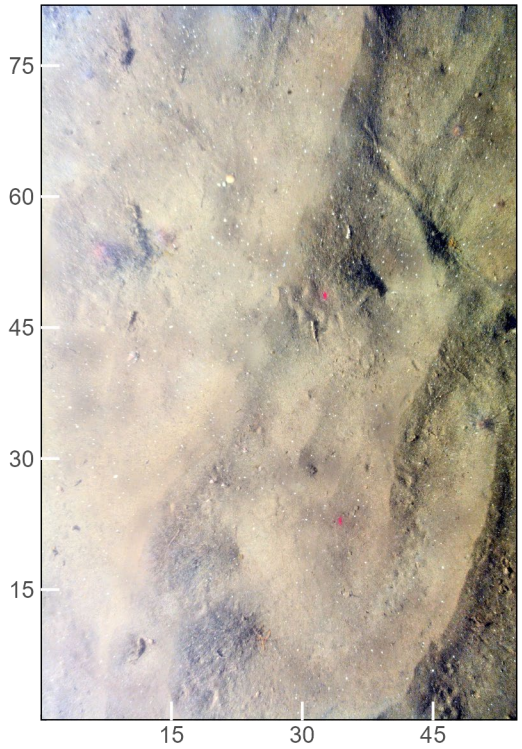

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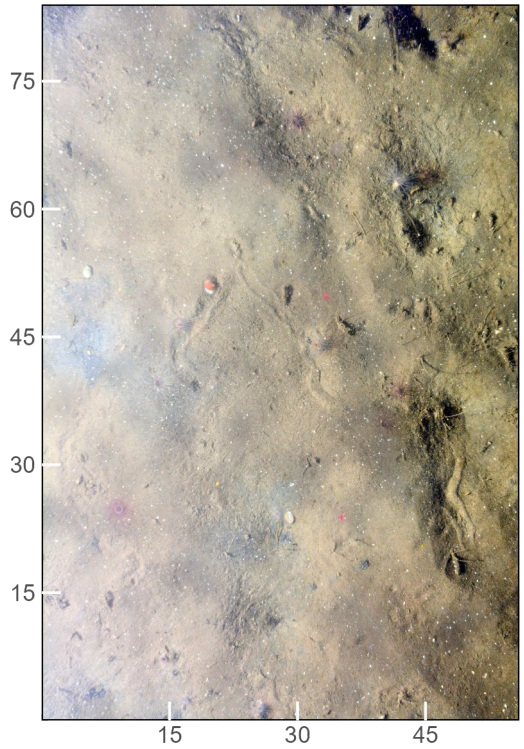

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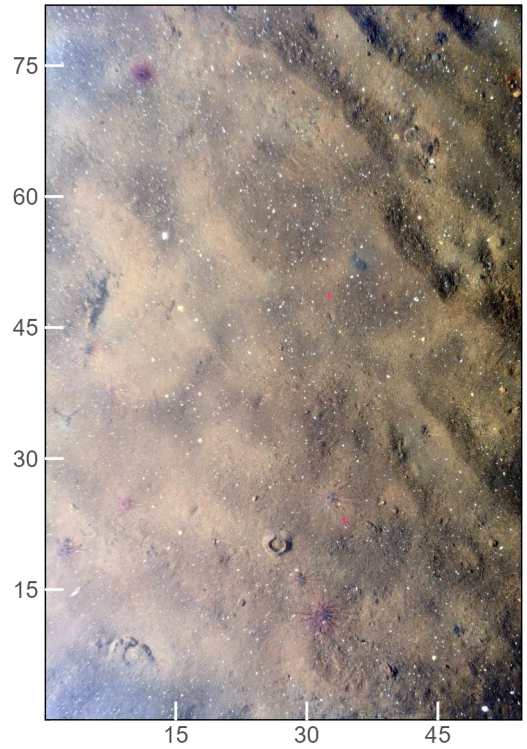

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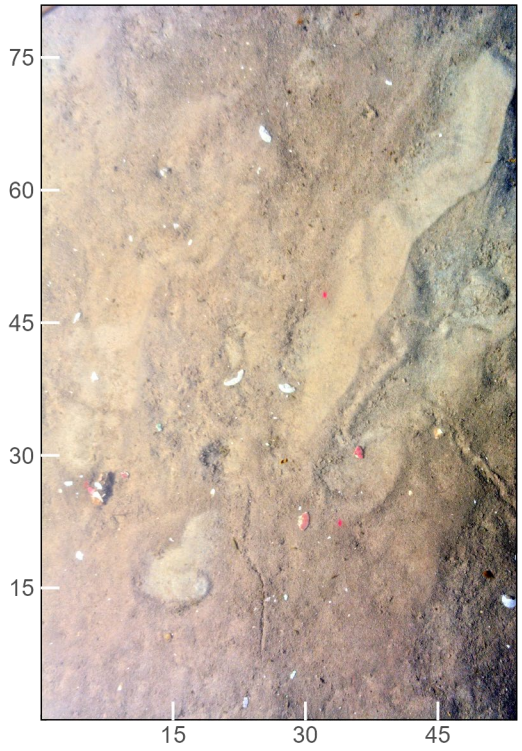

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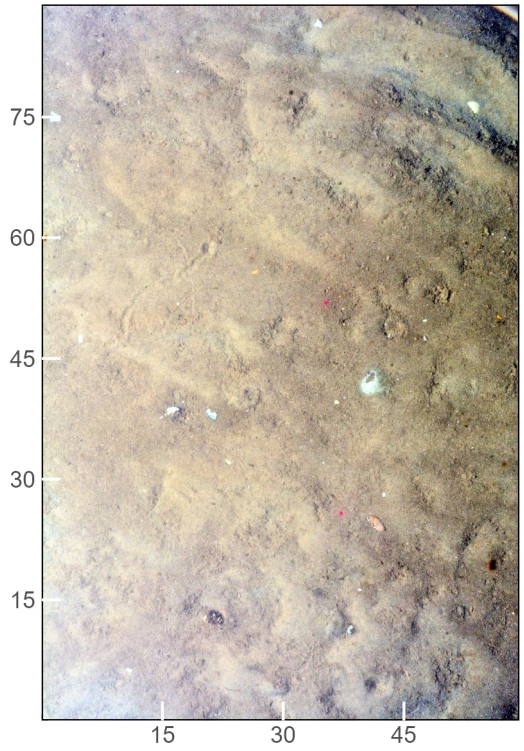

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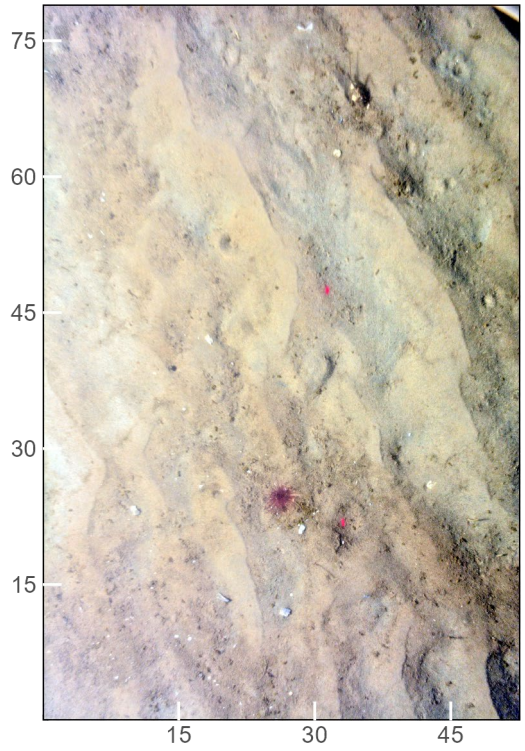

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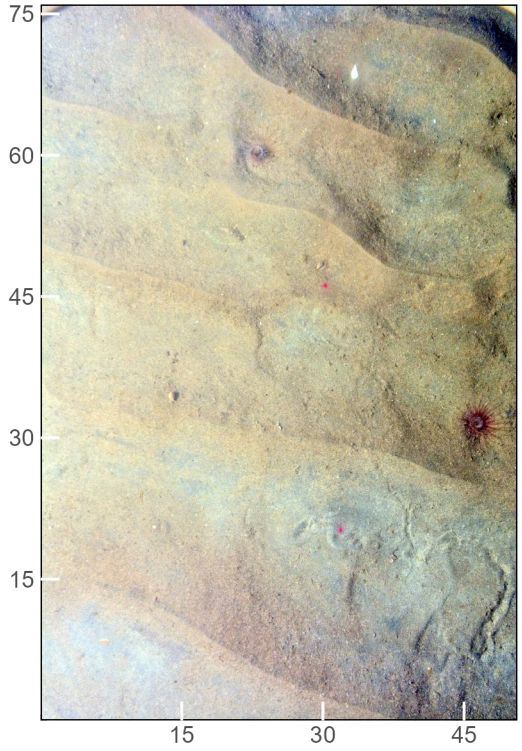

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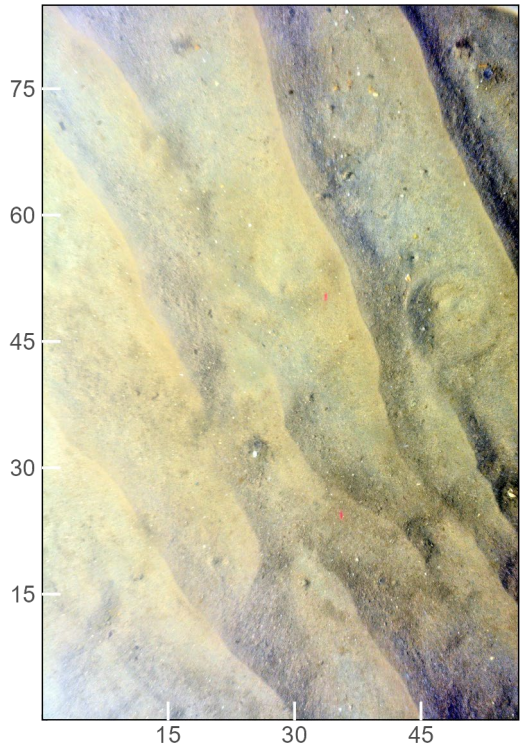

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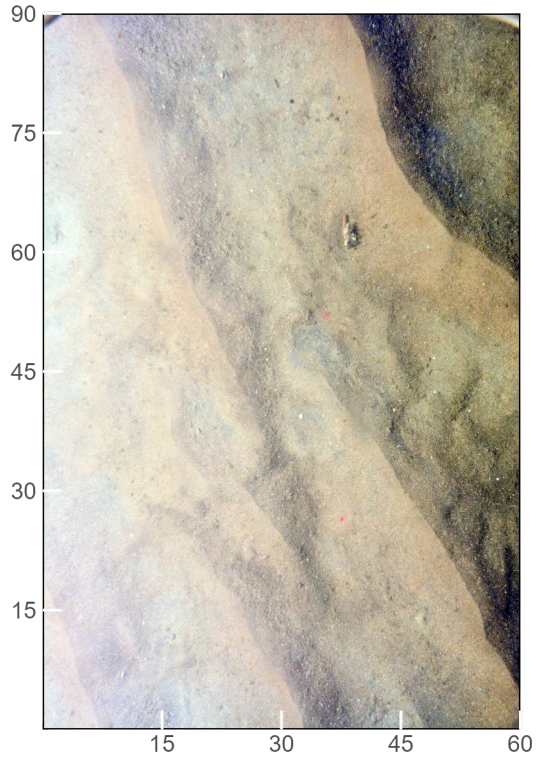

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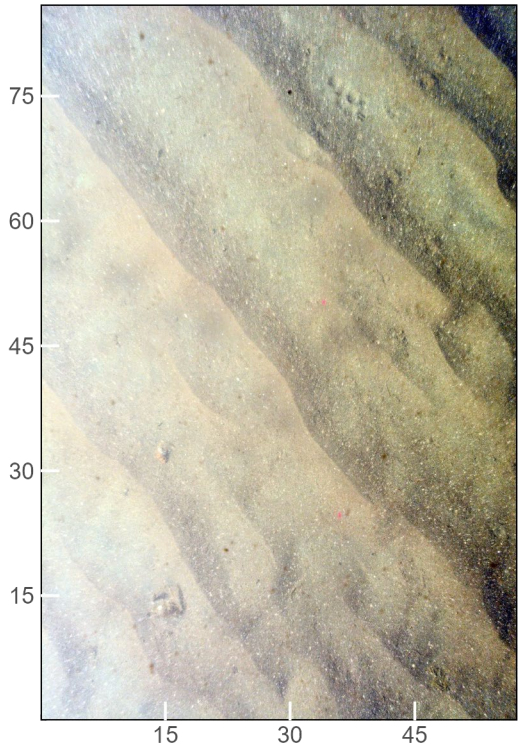

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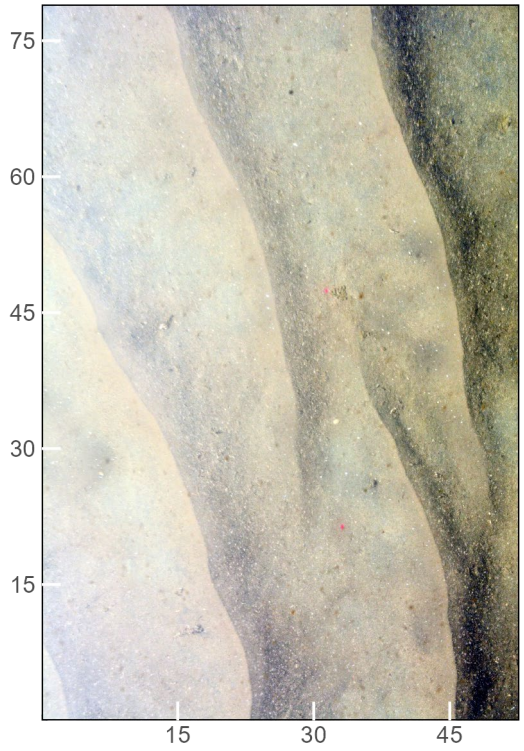

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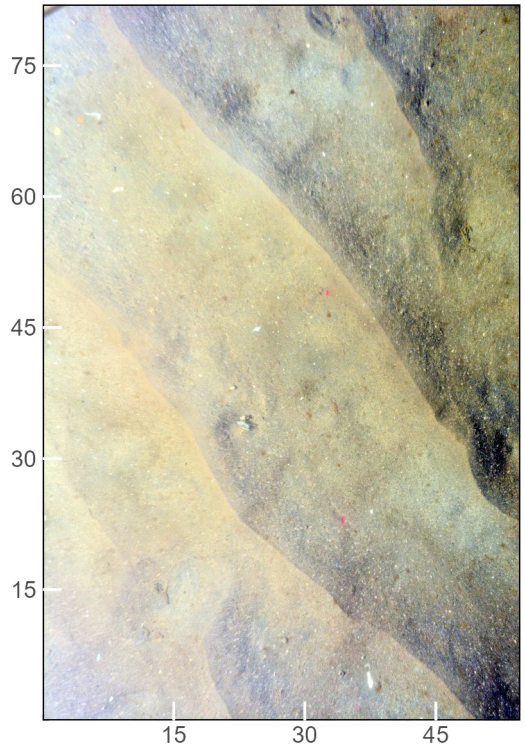

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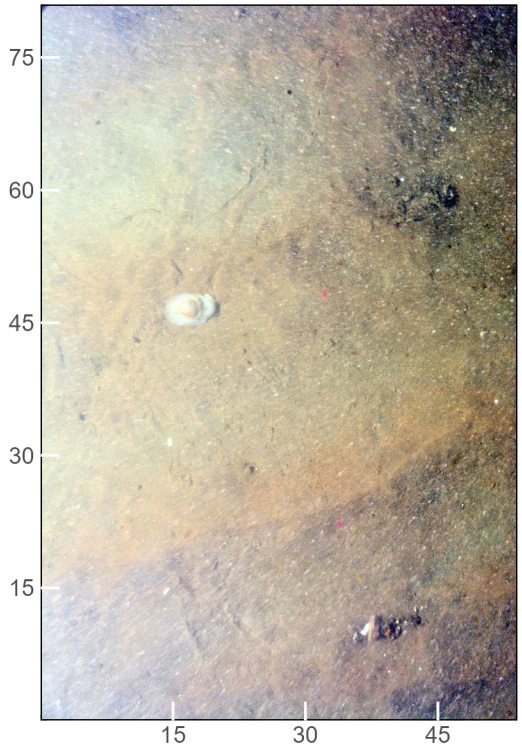

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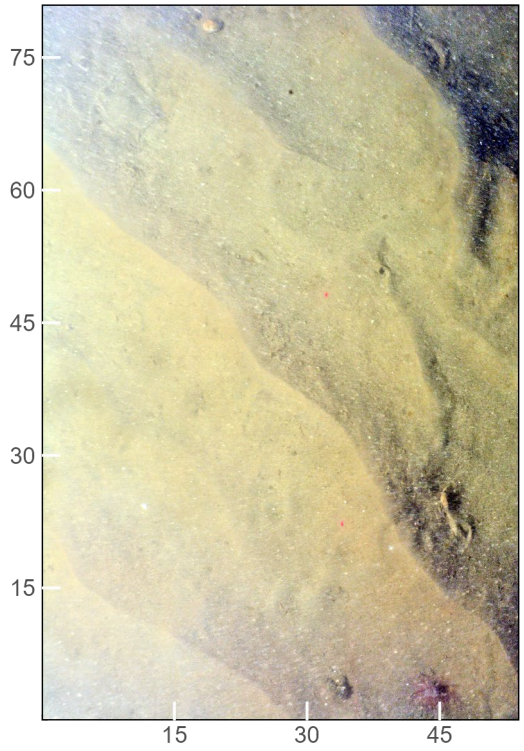

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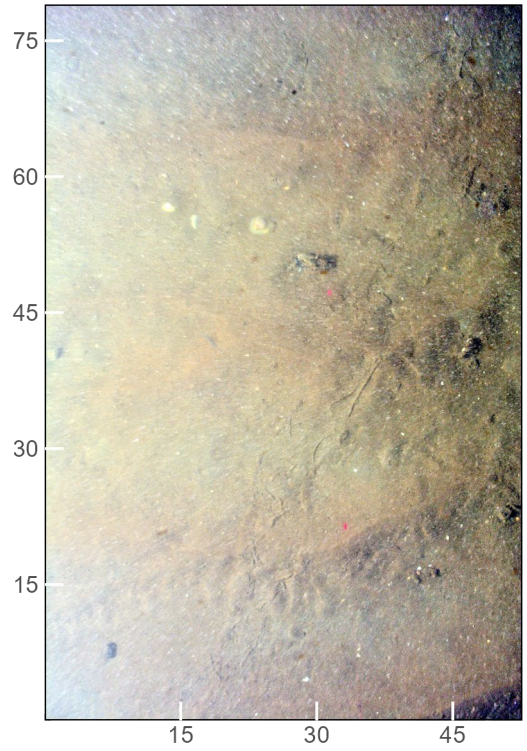

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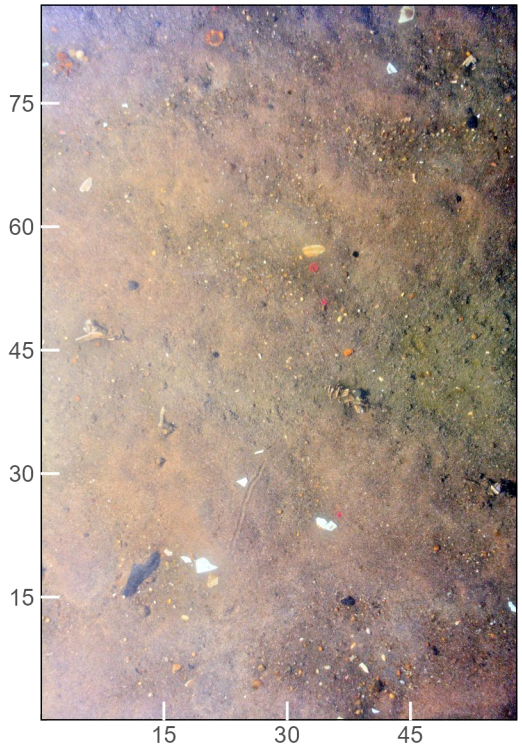

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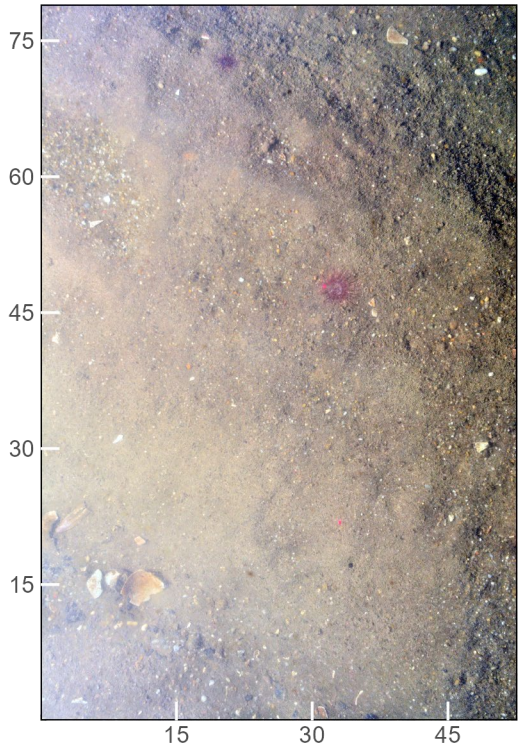

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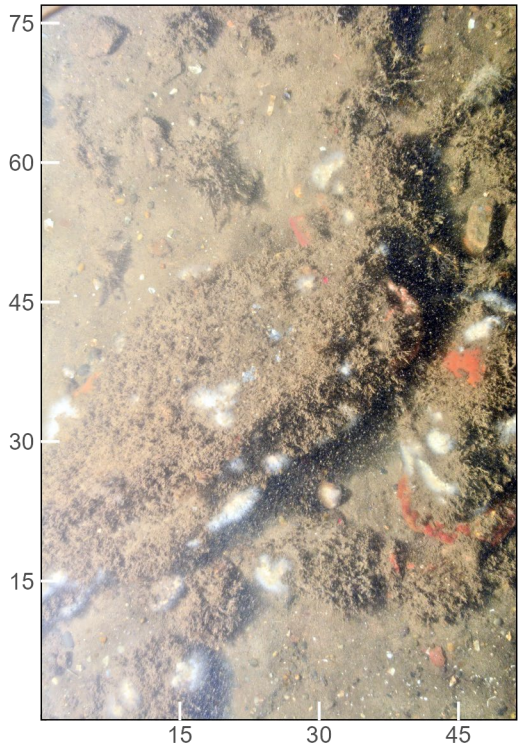

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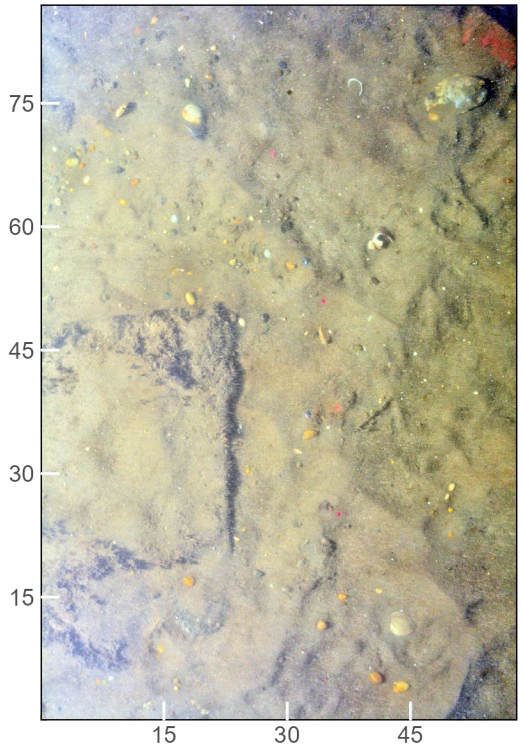

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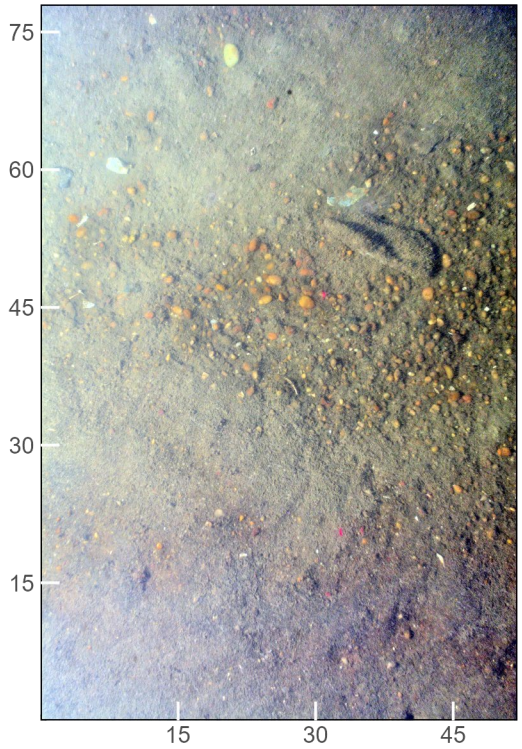

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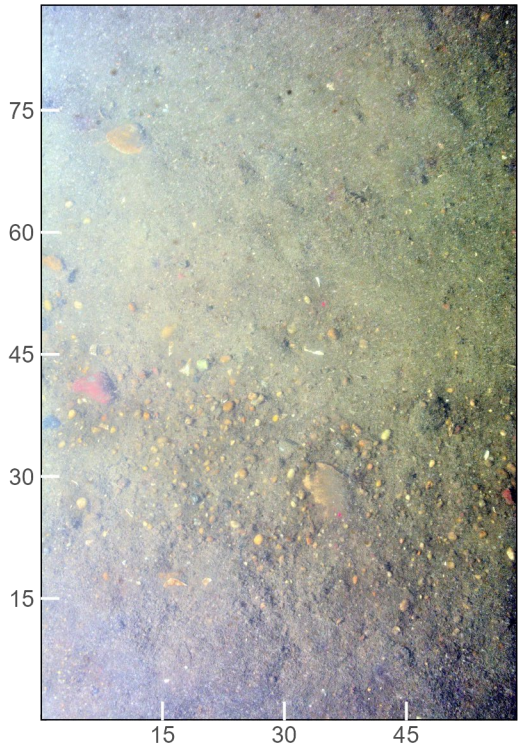

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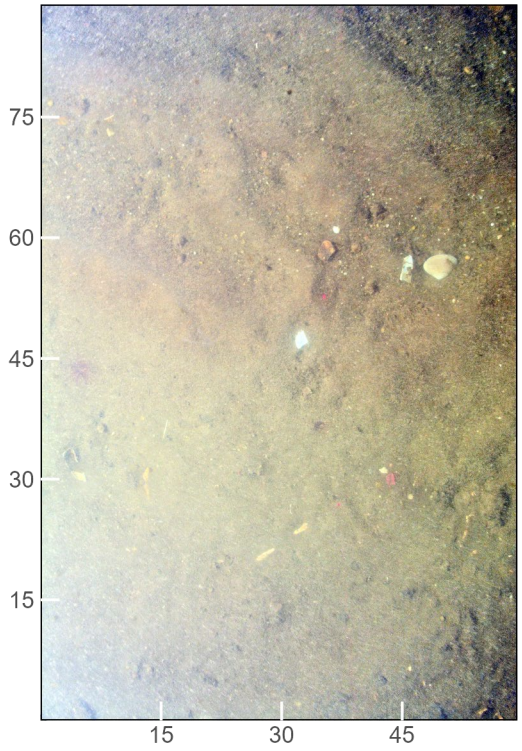

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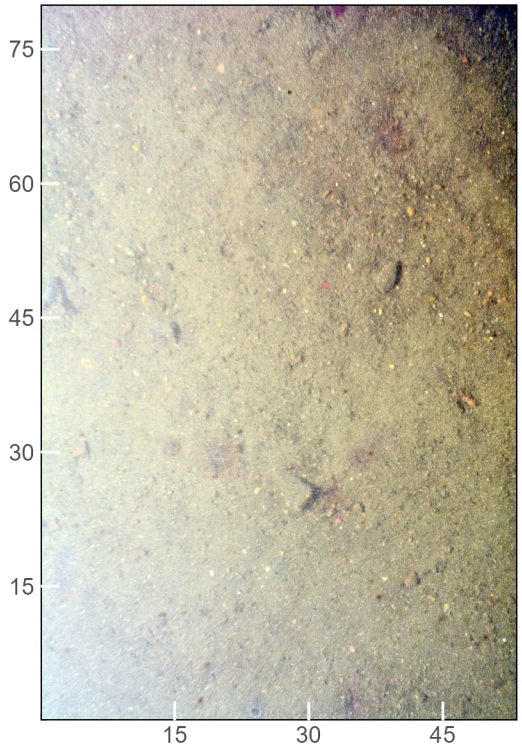

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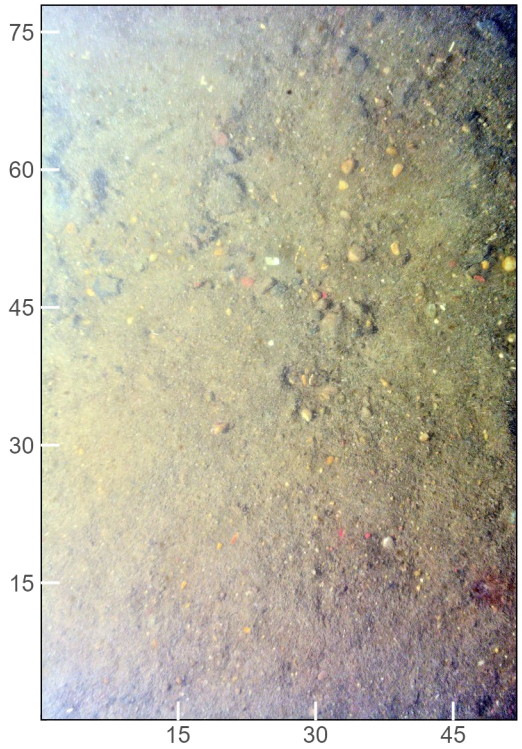

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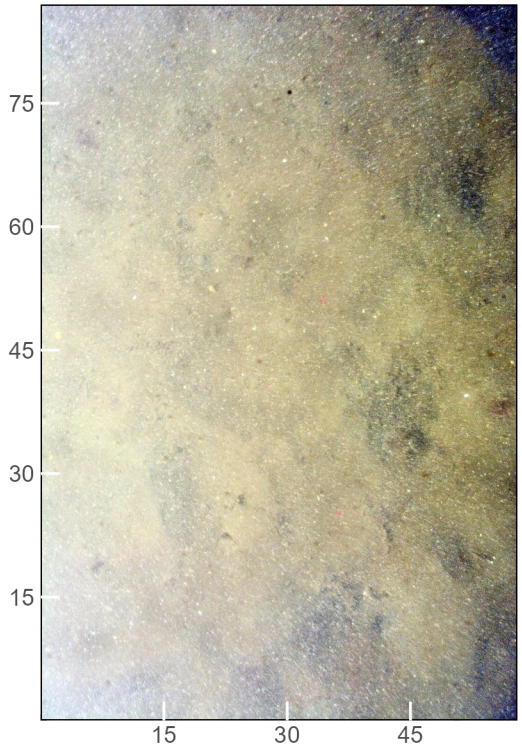

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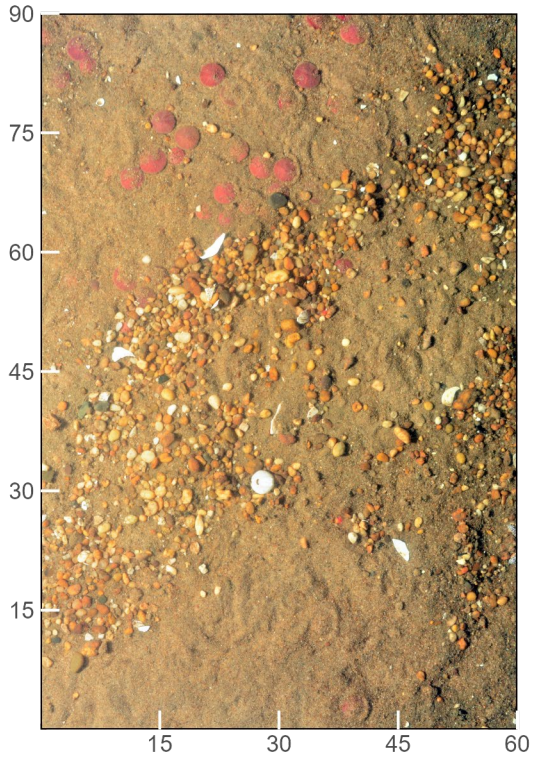

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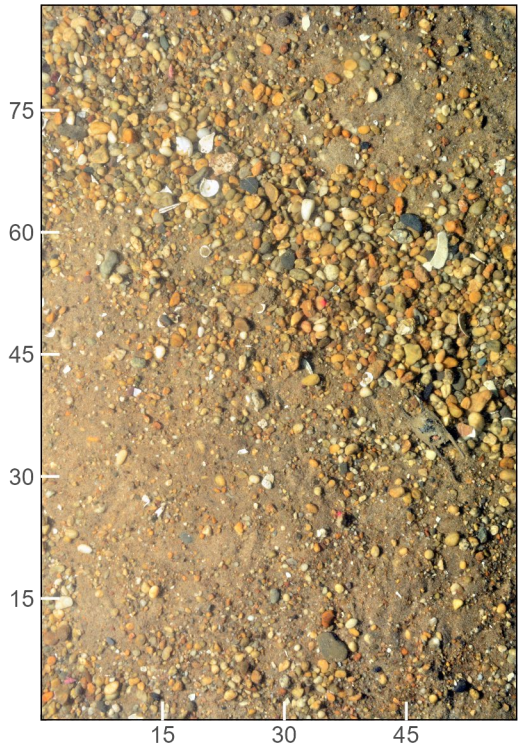

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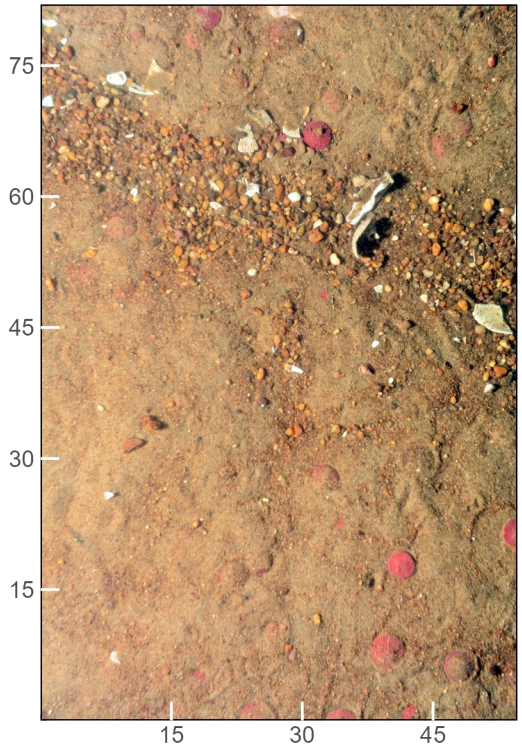

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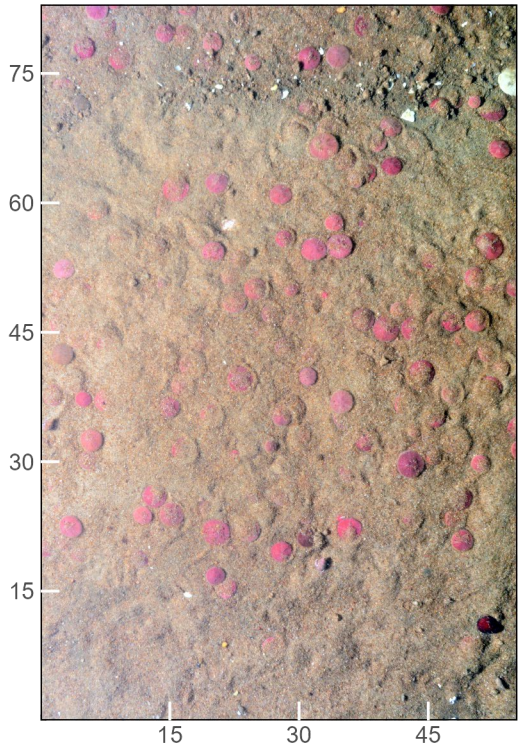

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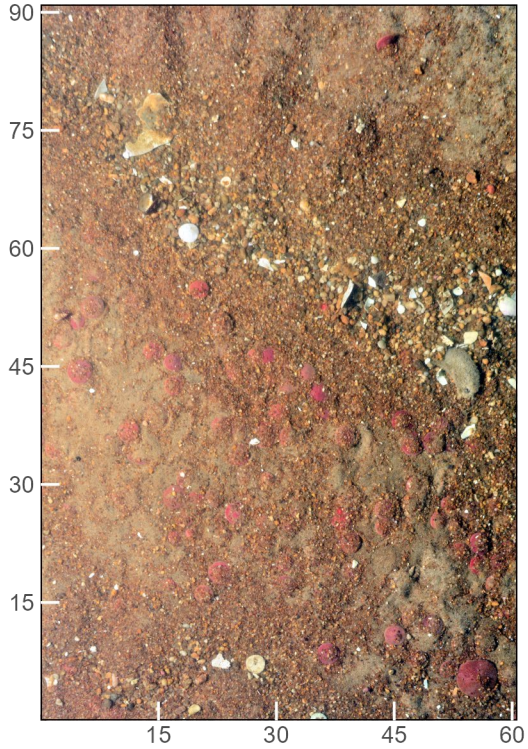

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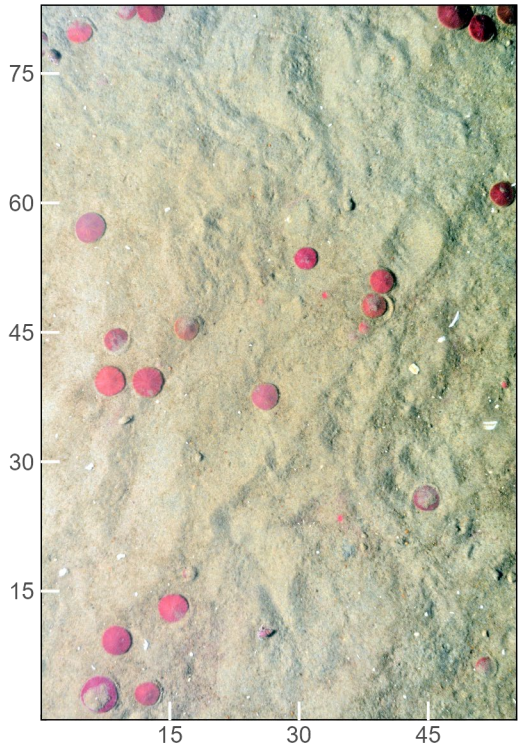

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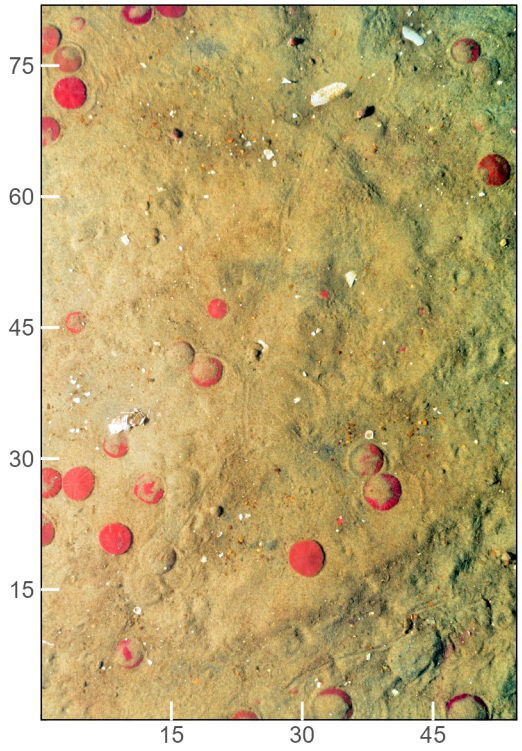

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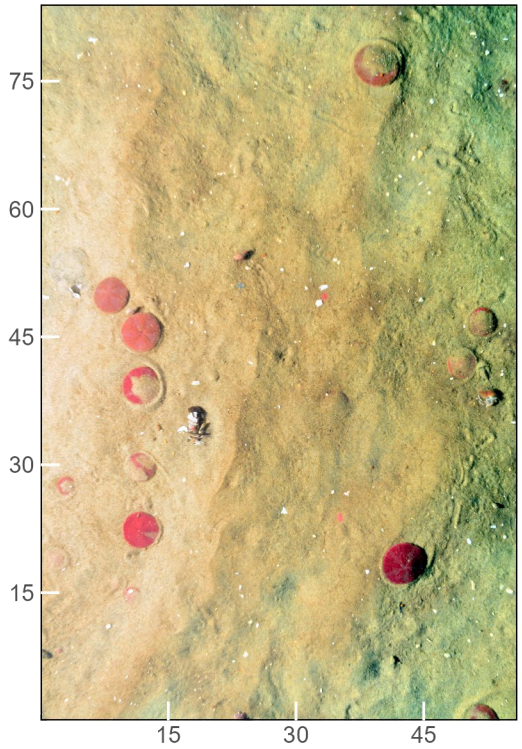

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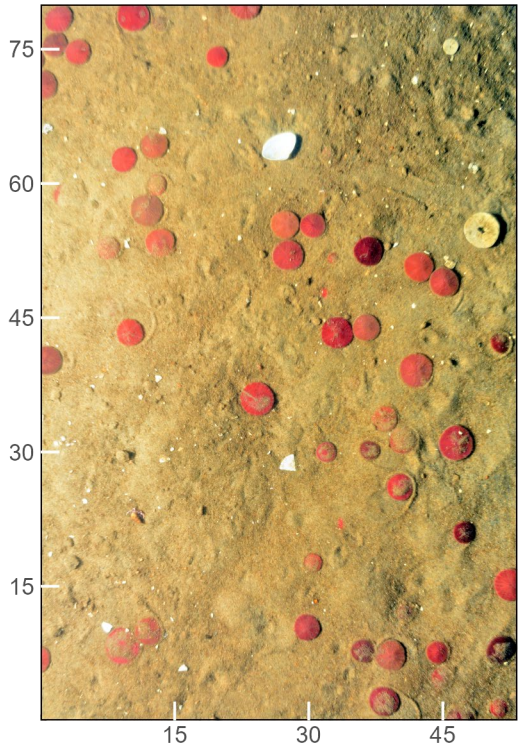

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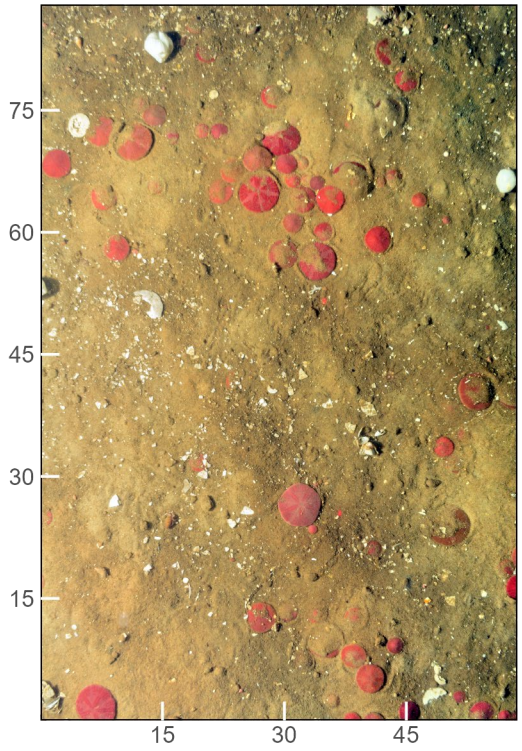

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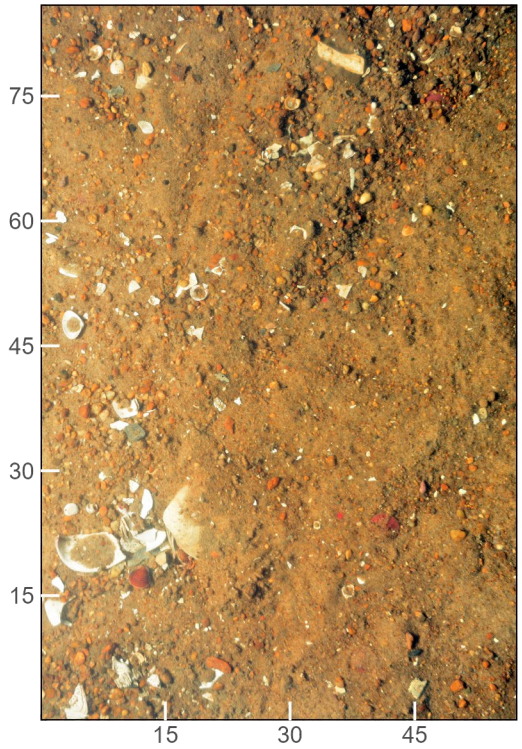

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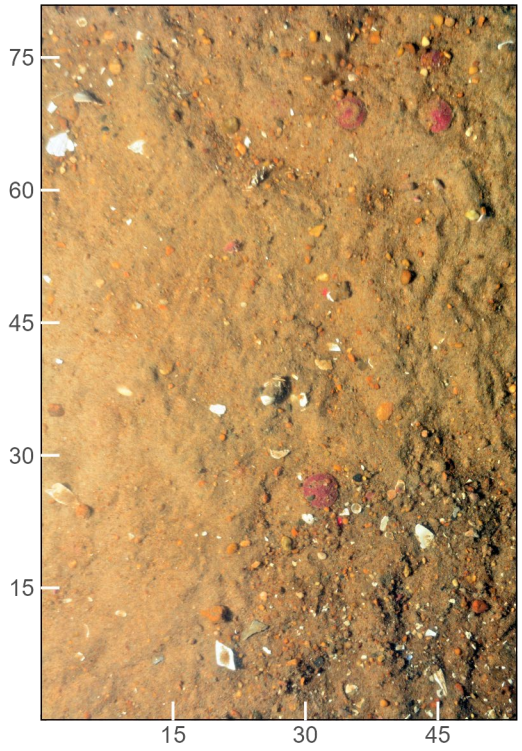

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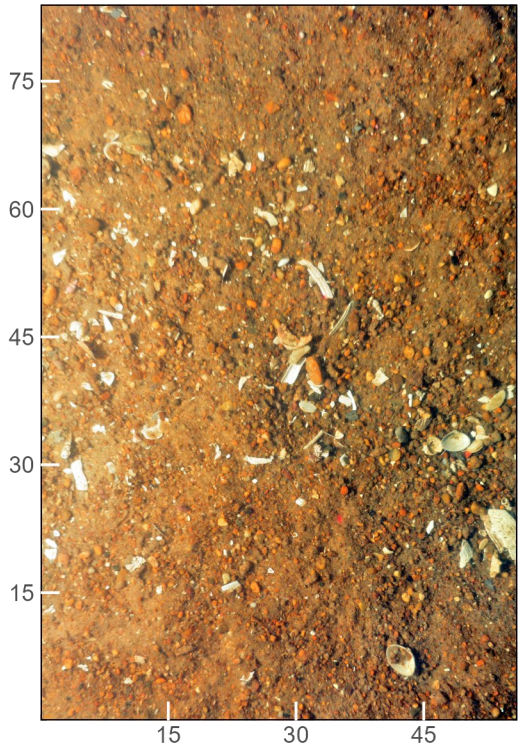

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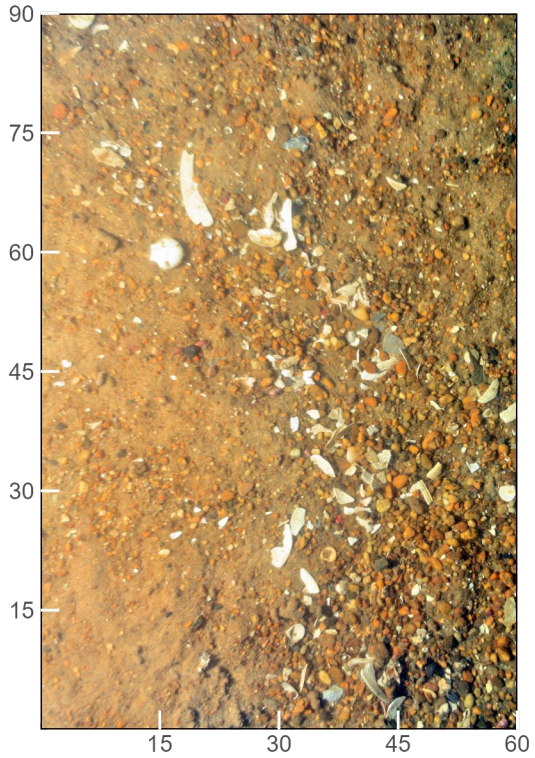

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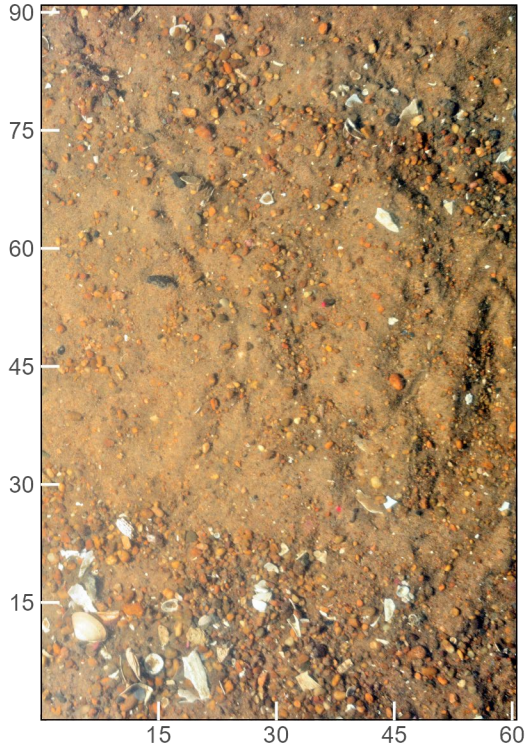

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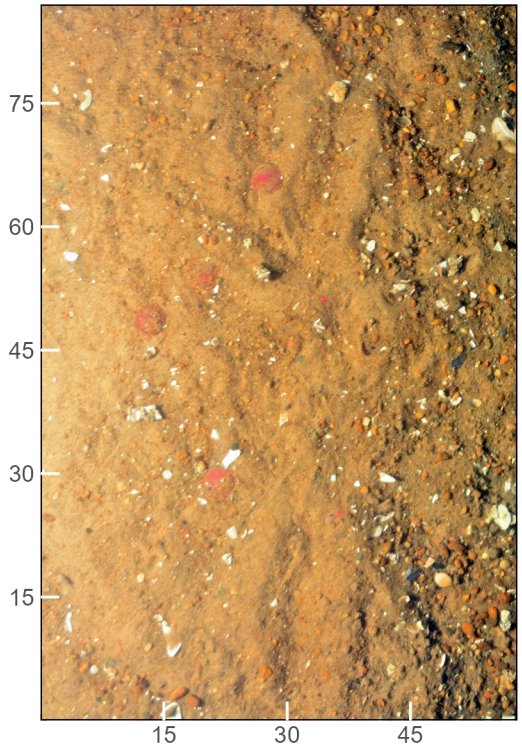
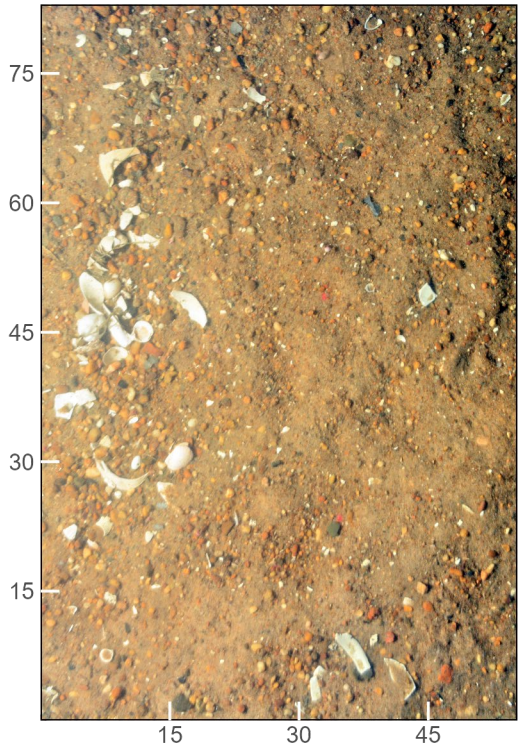
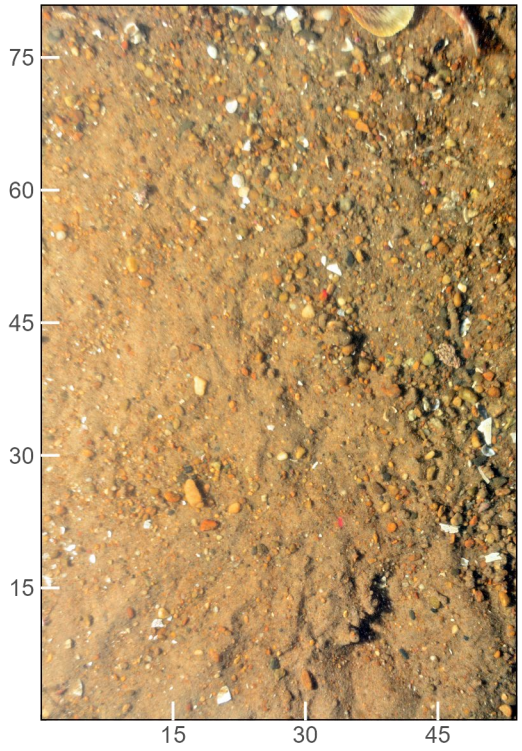


NECCT-SP-638-A



NECCT-SP-639-A



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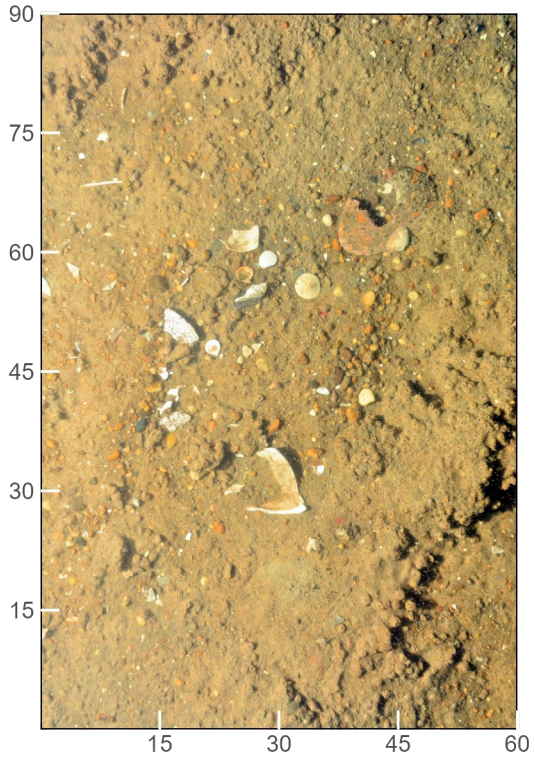

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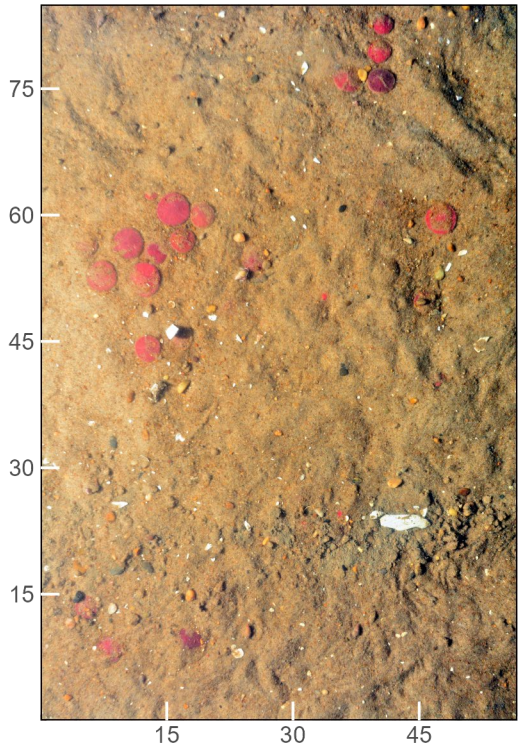

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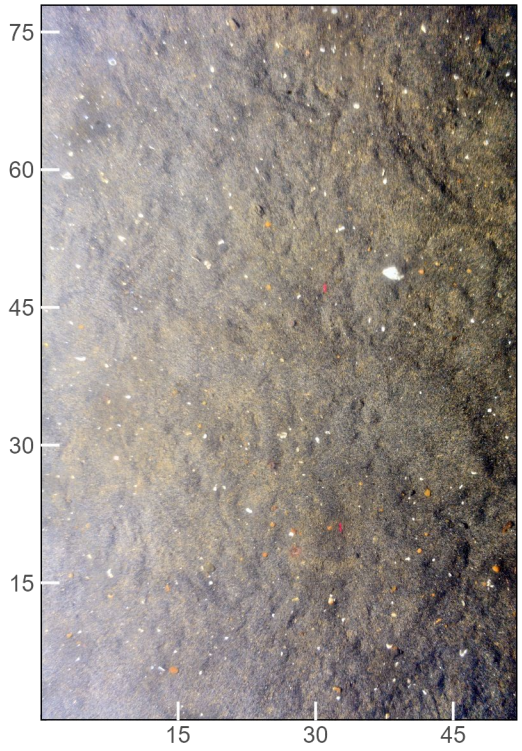

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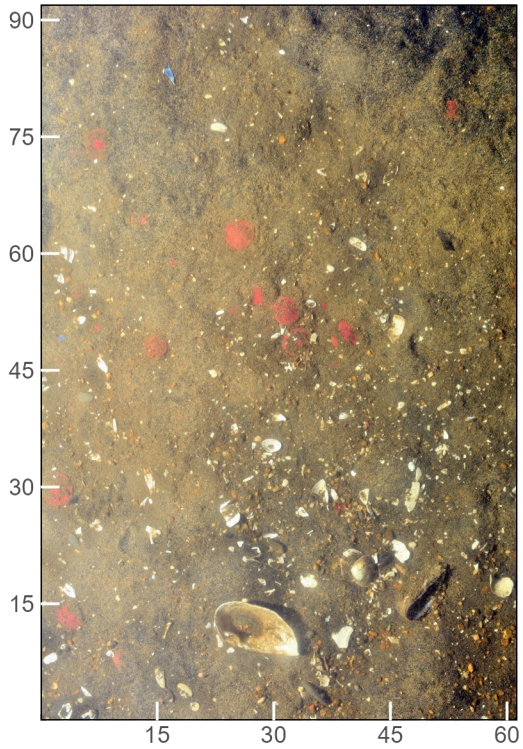

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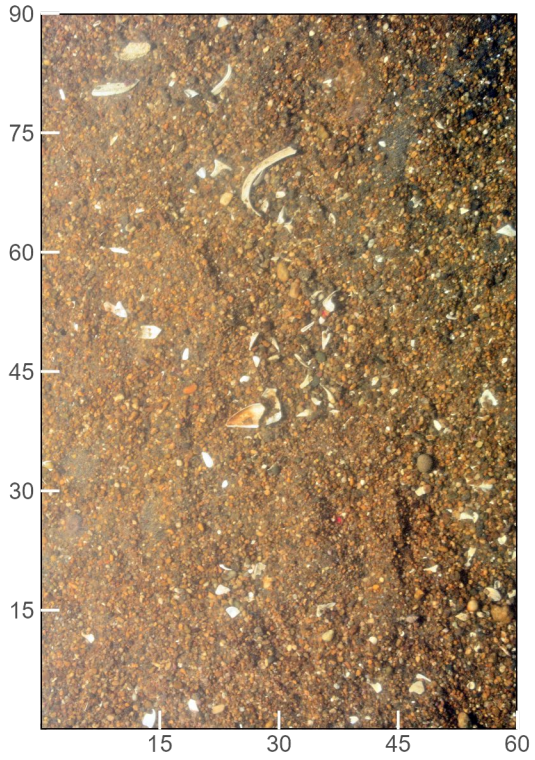

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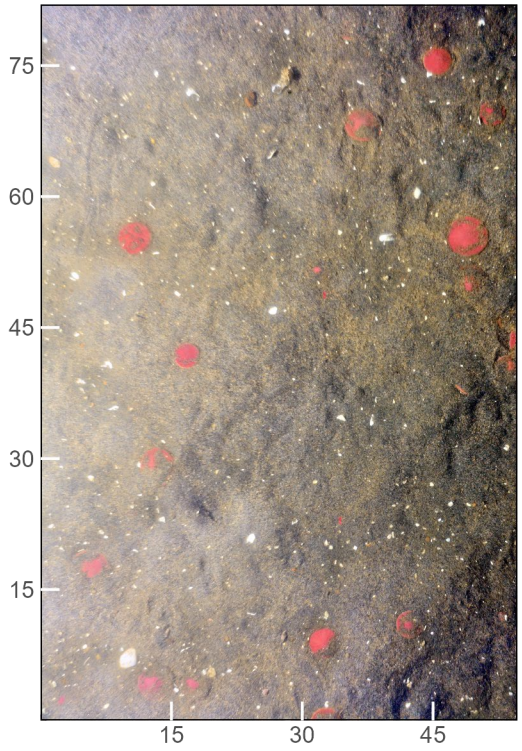

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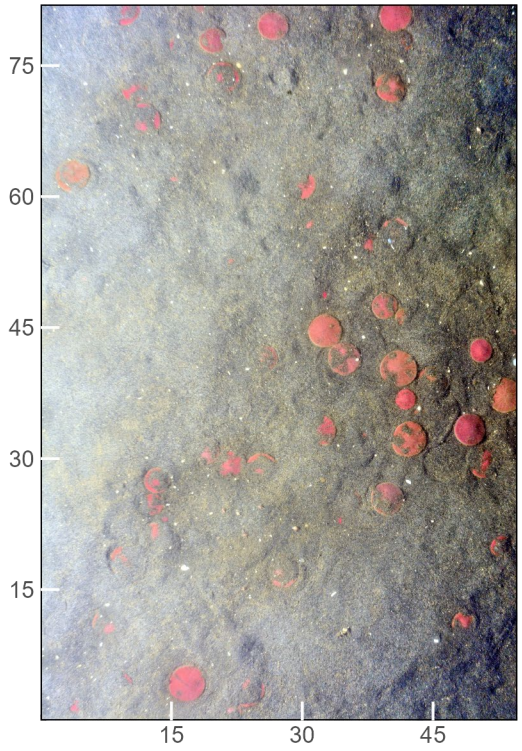

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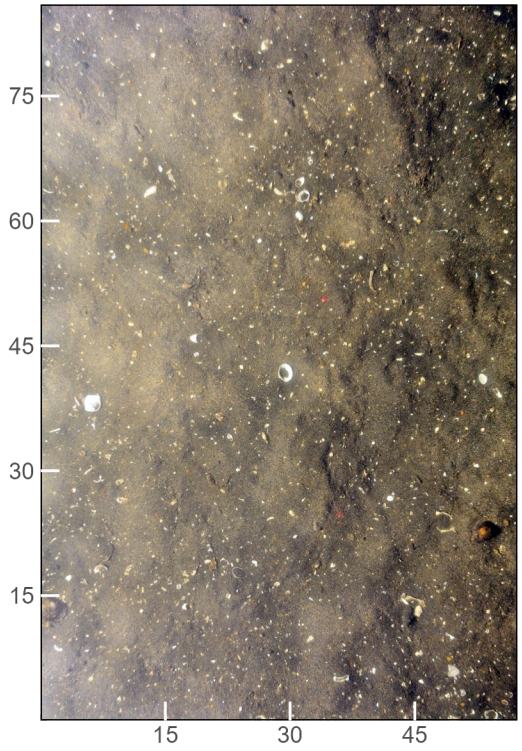

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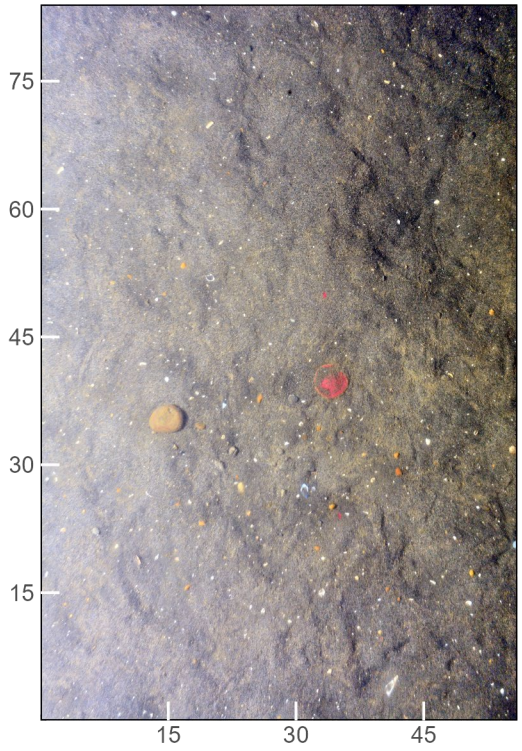

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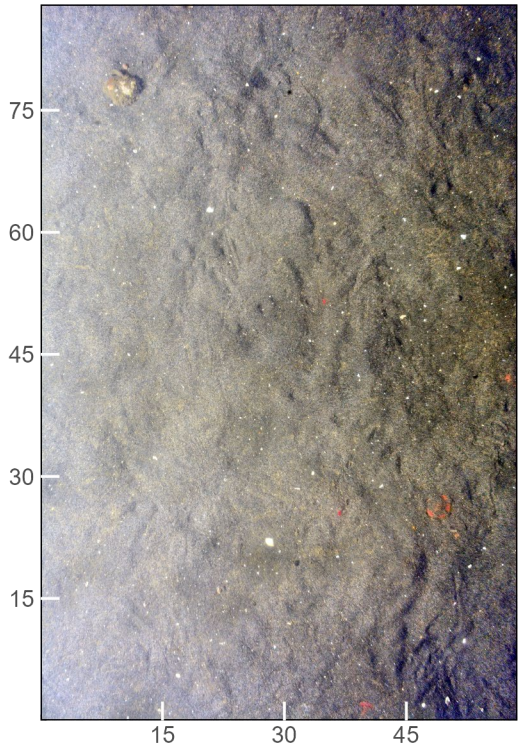

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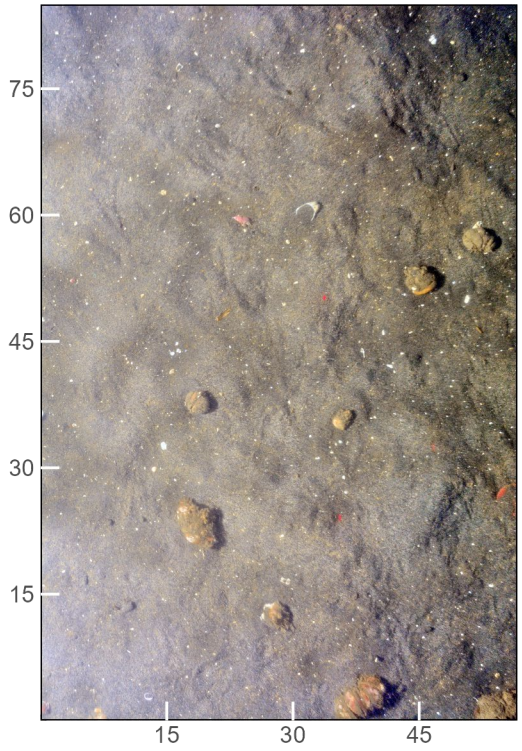
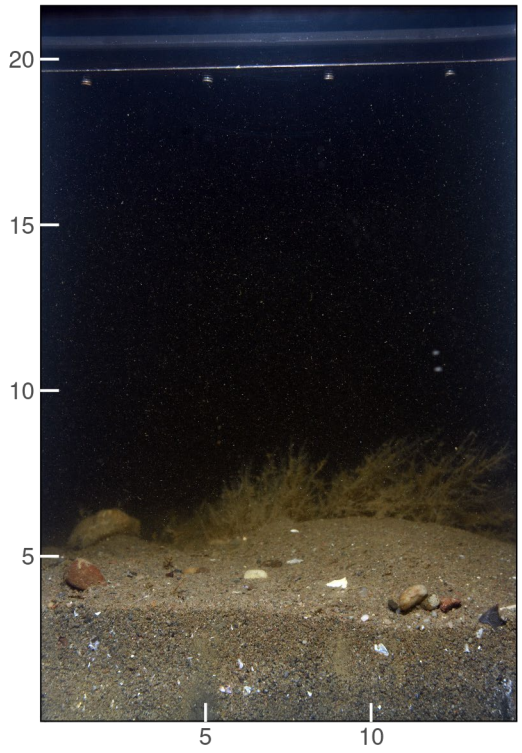


NECCNJ-SP-651-A

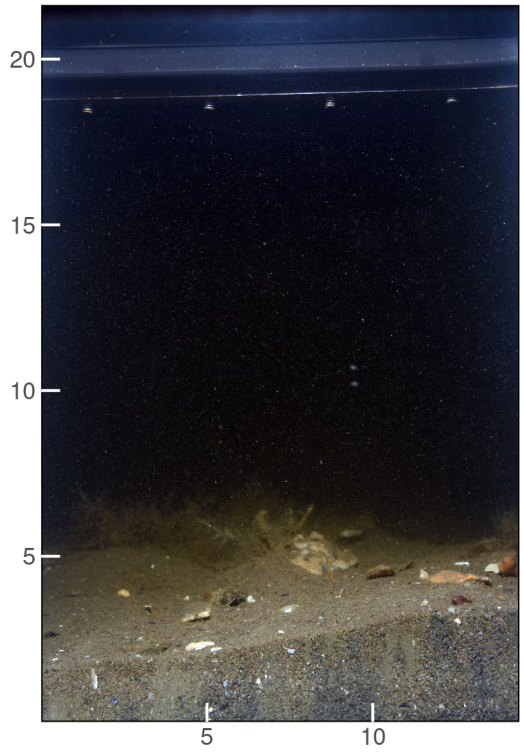
Appendix B5

Sediment Profile Images—NECCNY

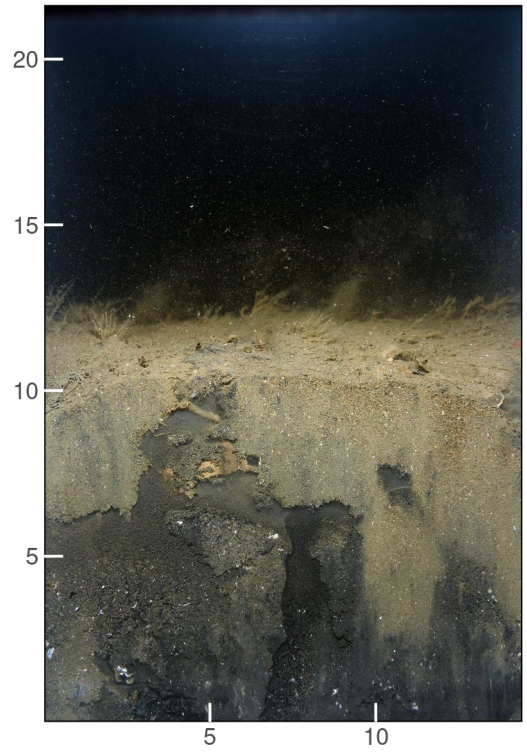
Scale: Width of SPI Images = 14.4 cm



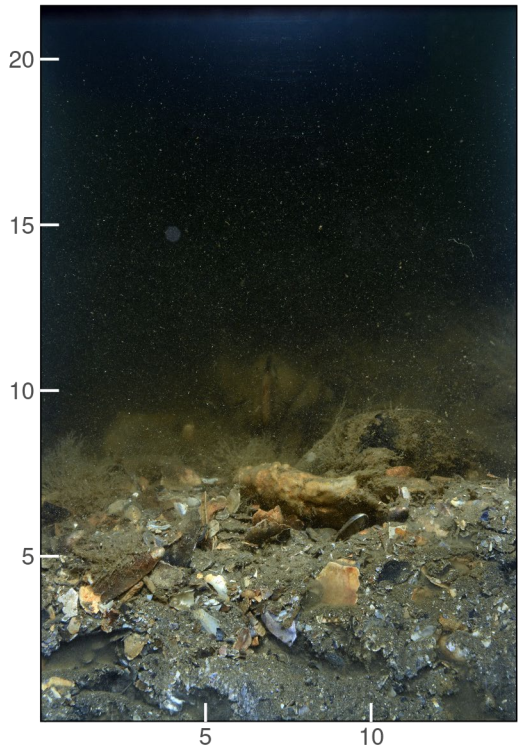
SP-301-A



SP-301-B



SP-301-C



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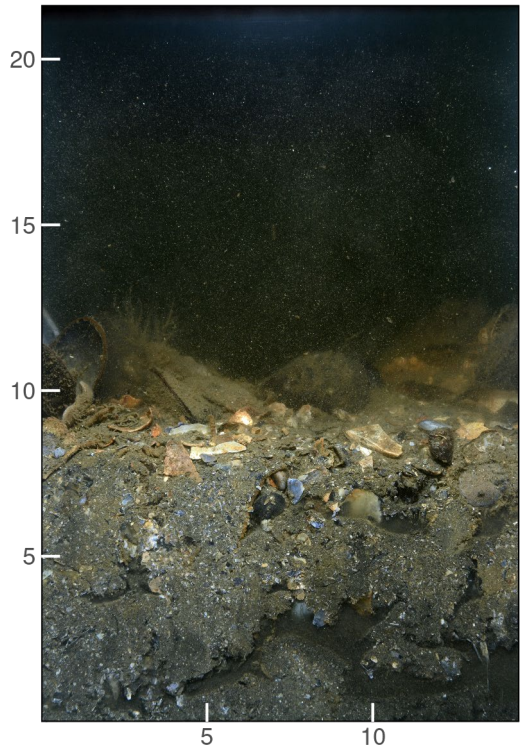
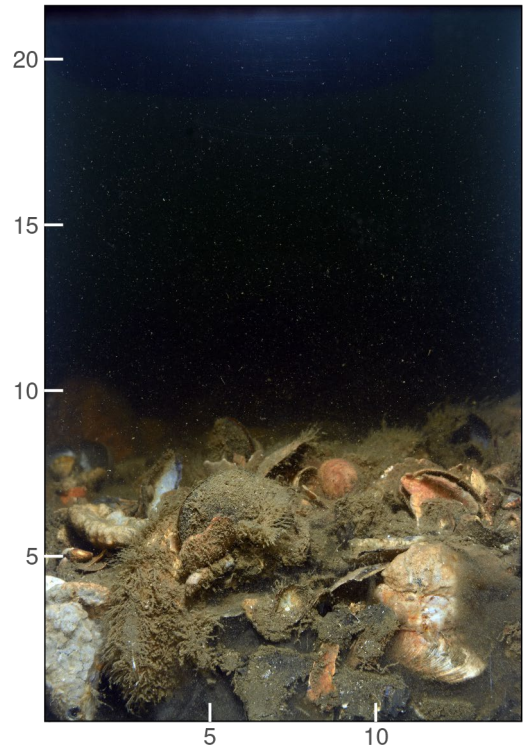
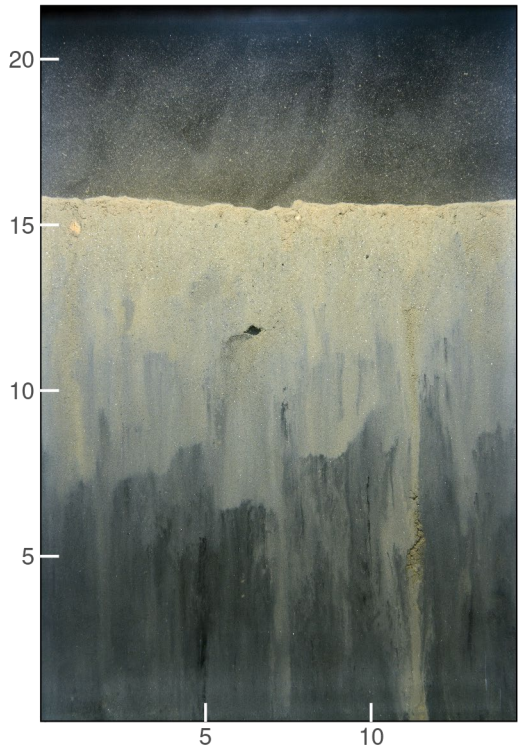


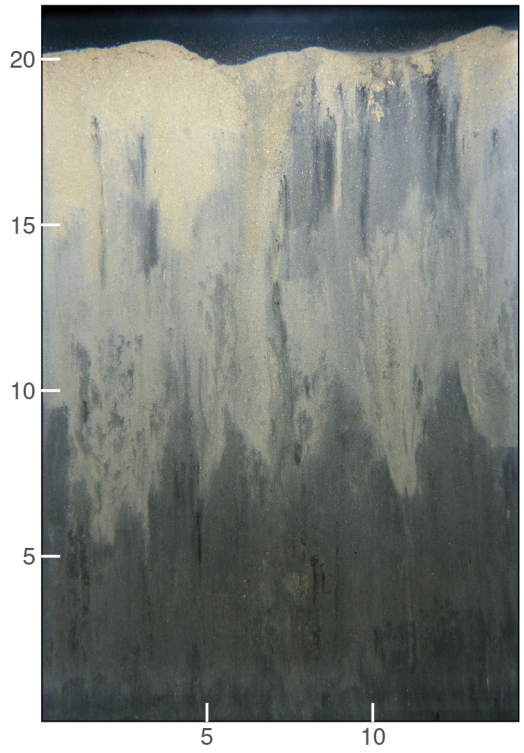
SP-302-C



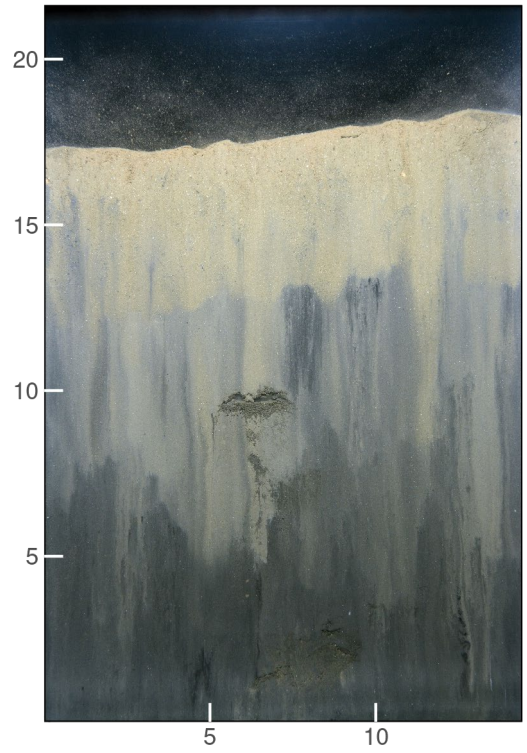
SP-302-D



SPG-306-B



SPG-306-D



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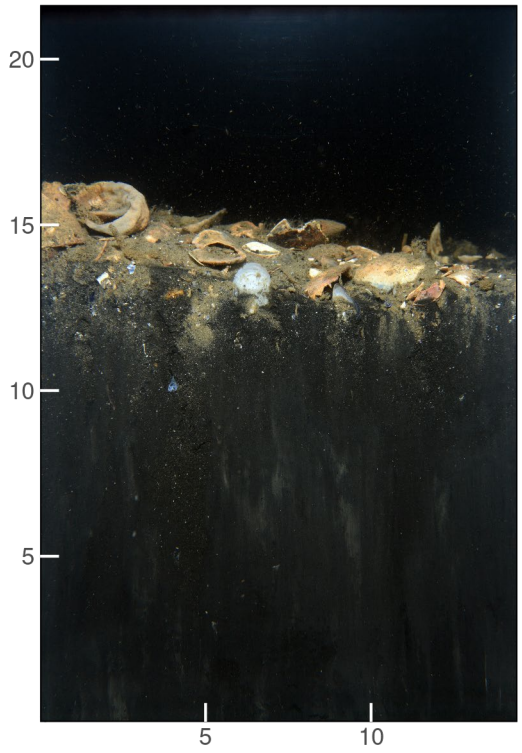
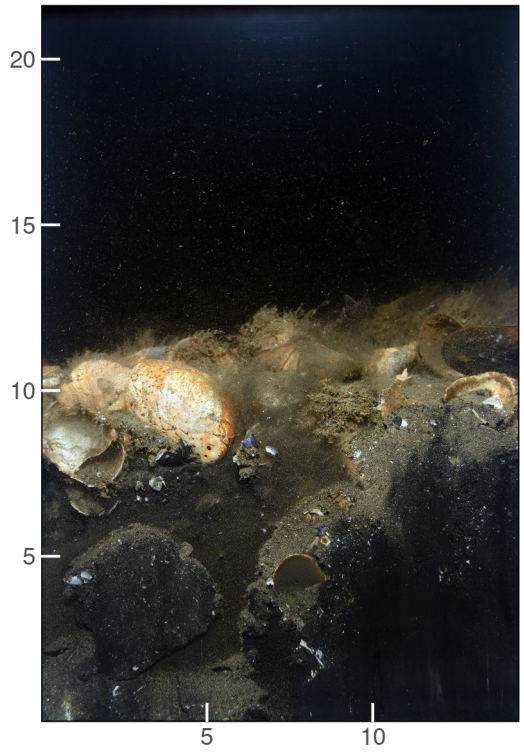
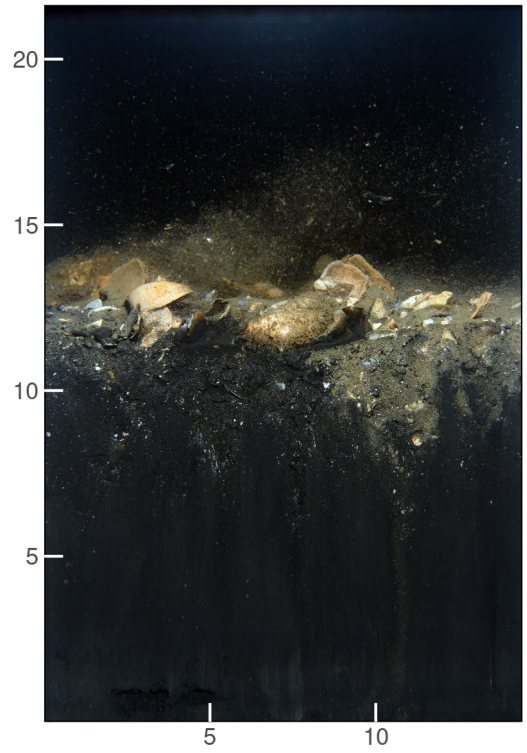


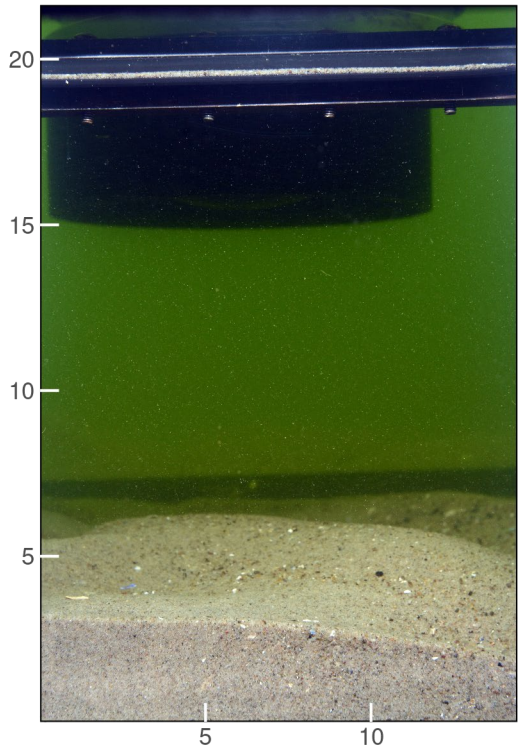
SP-307-A



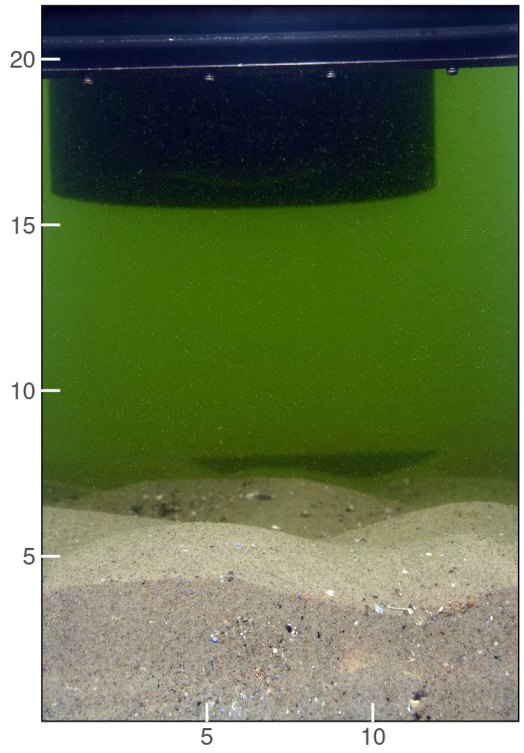
SP-307-C



SP-307-E



SPC-308-B



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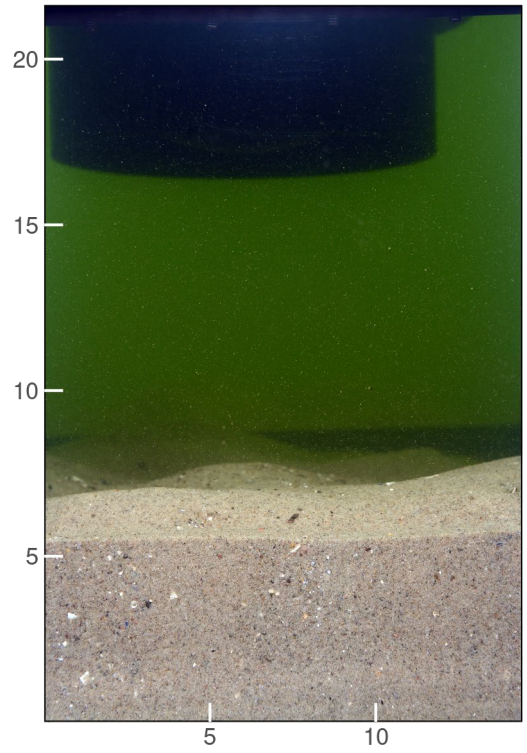
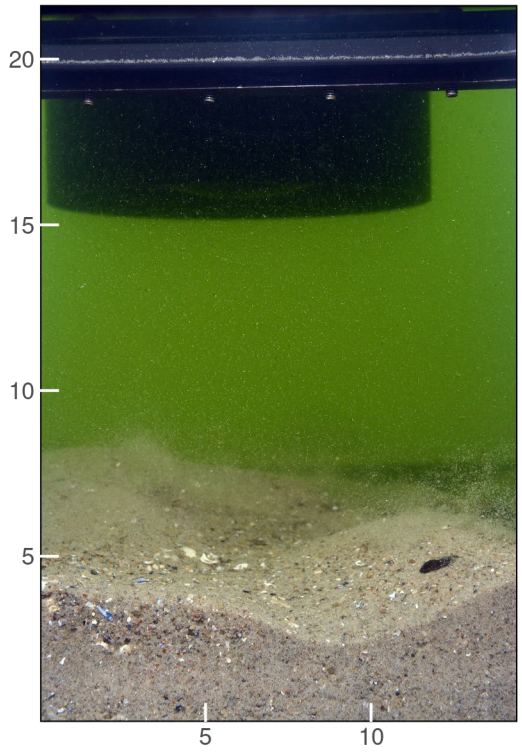


SPC-308-D



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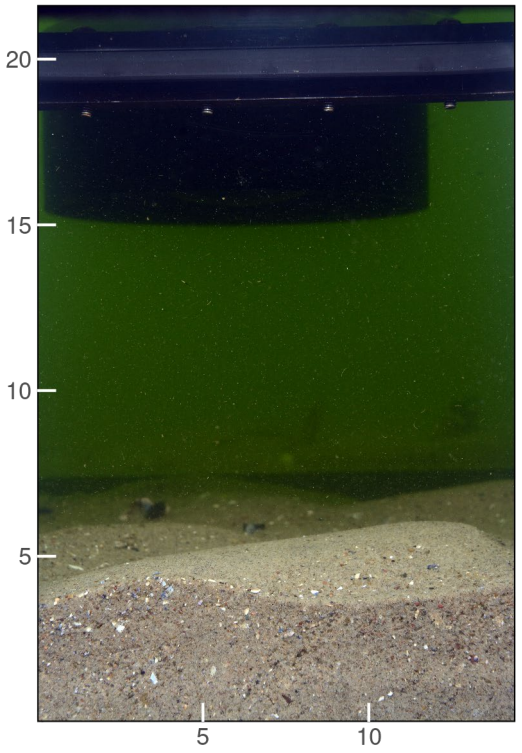

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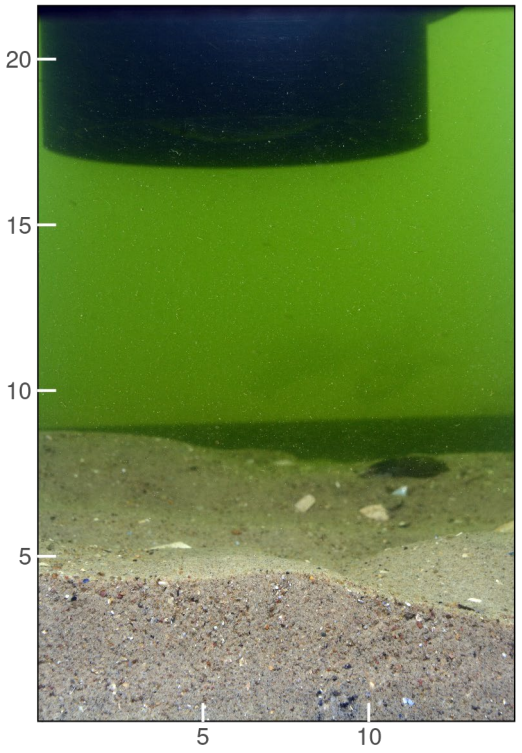
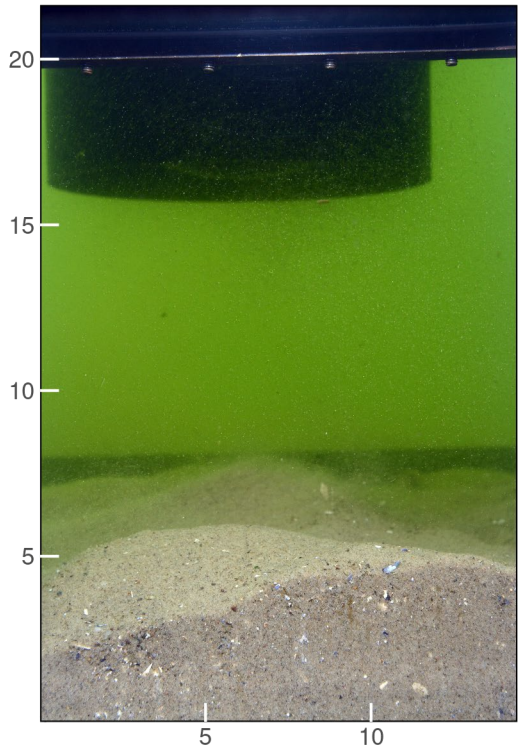


SPC-309-D



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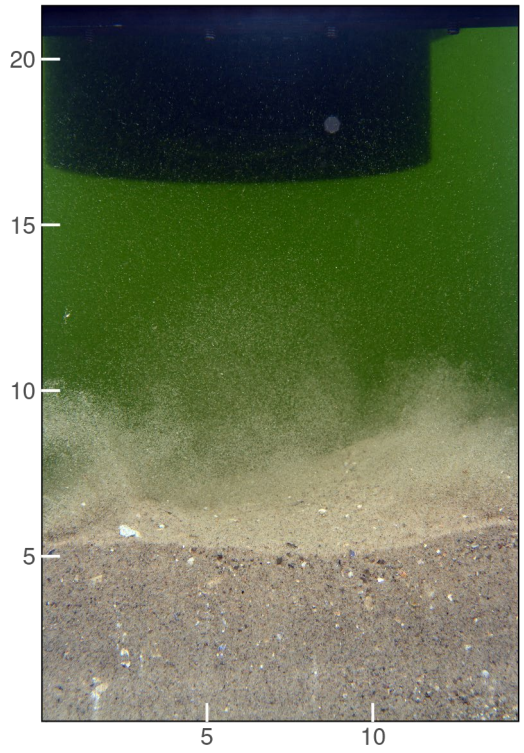
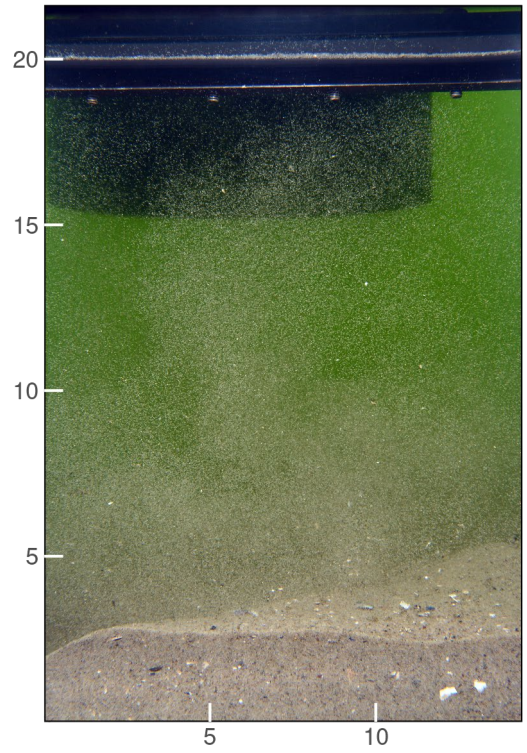
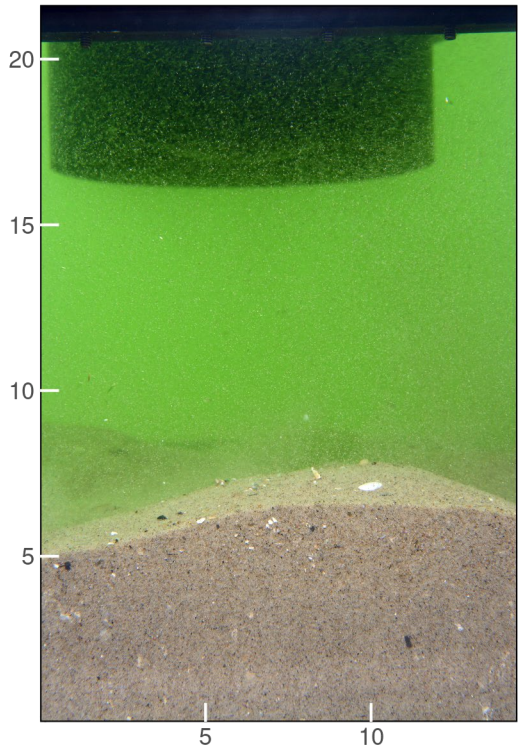


SPC-310-B



SPC-310-D



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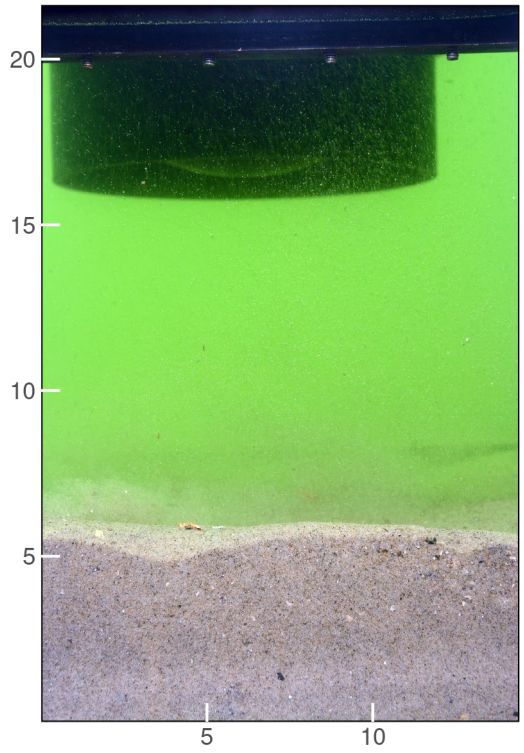
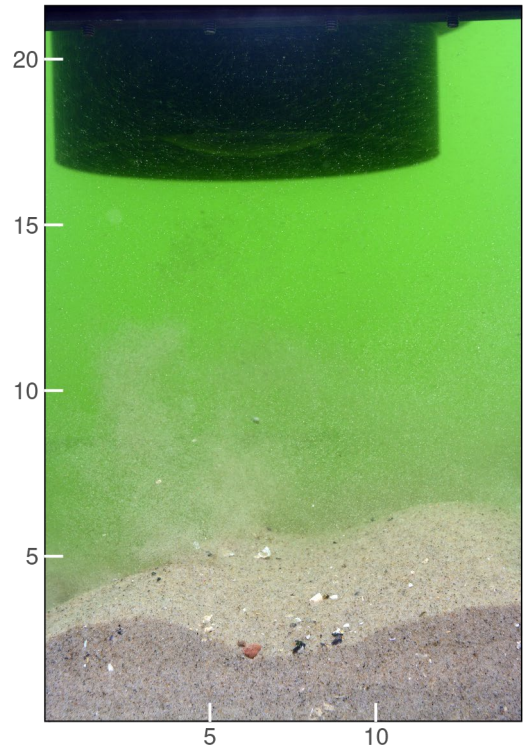
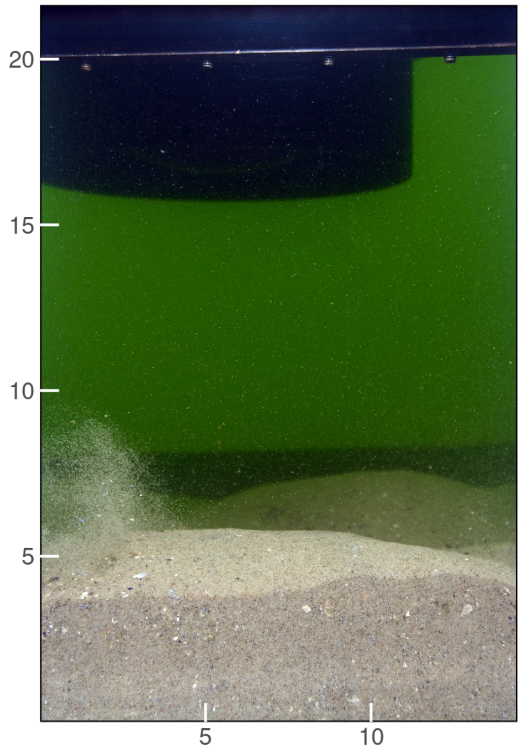


SPC-311-B



SPC-311-C



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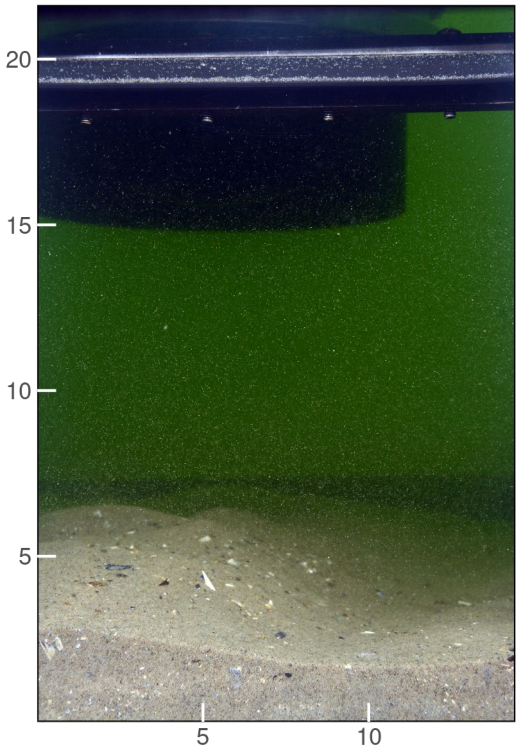
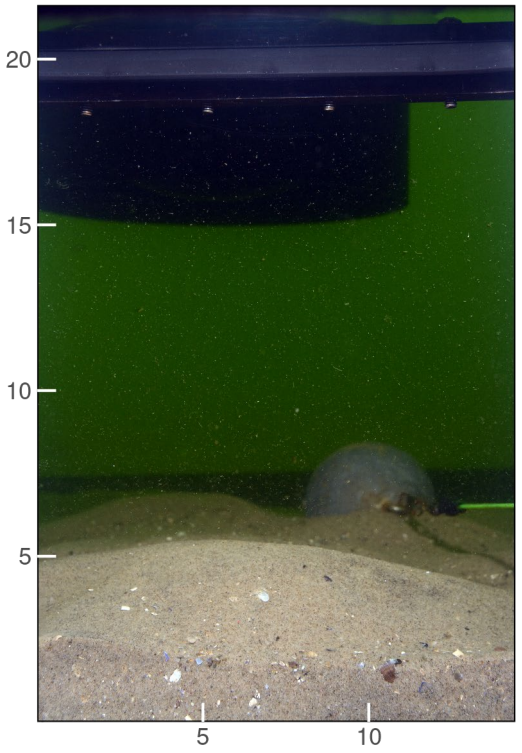


SPGC-312-B



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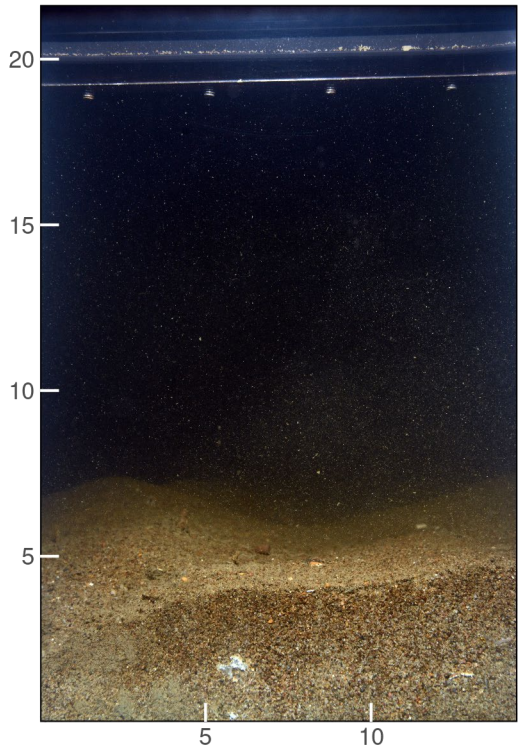

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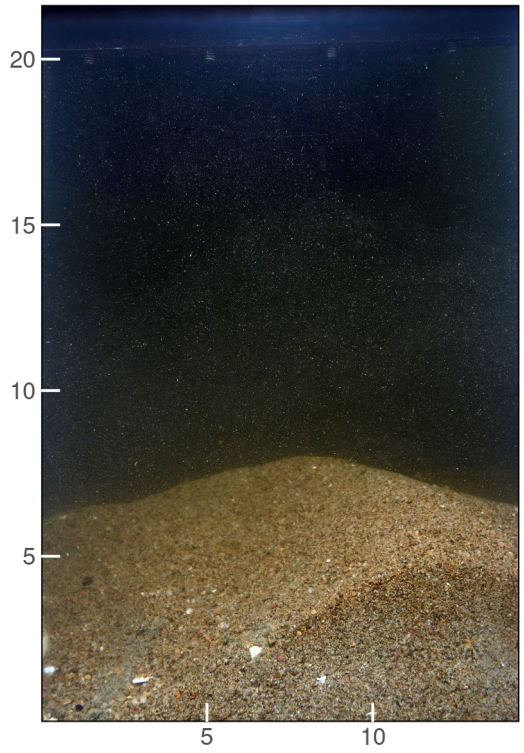

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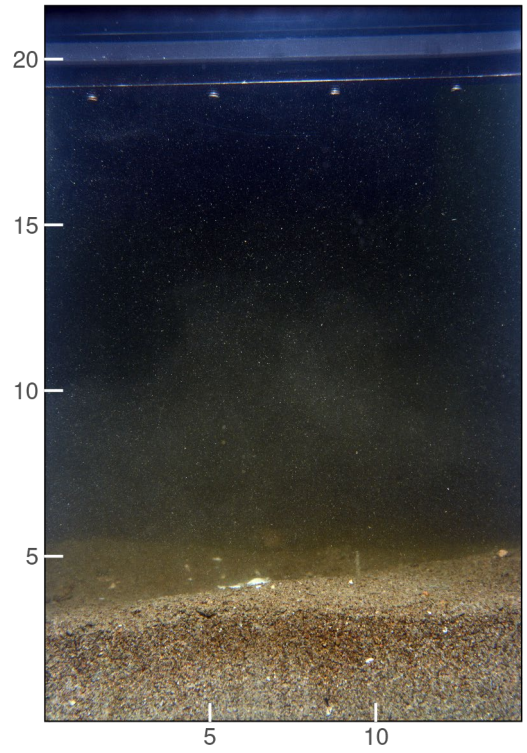
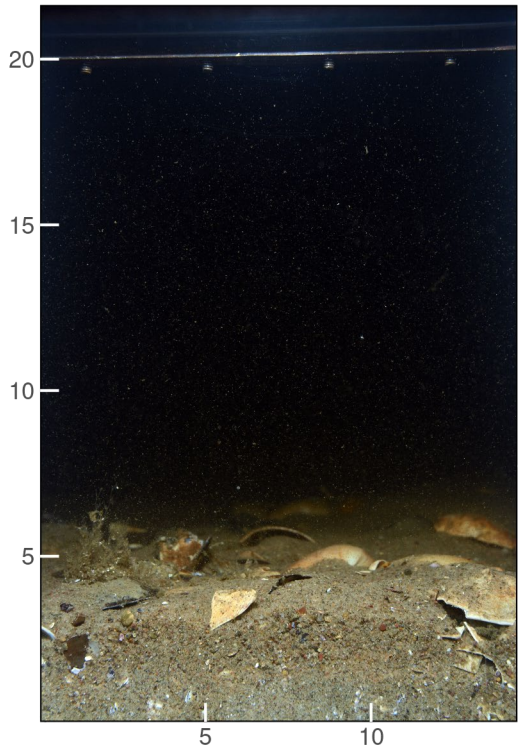
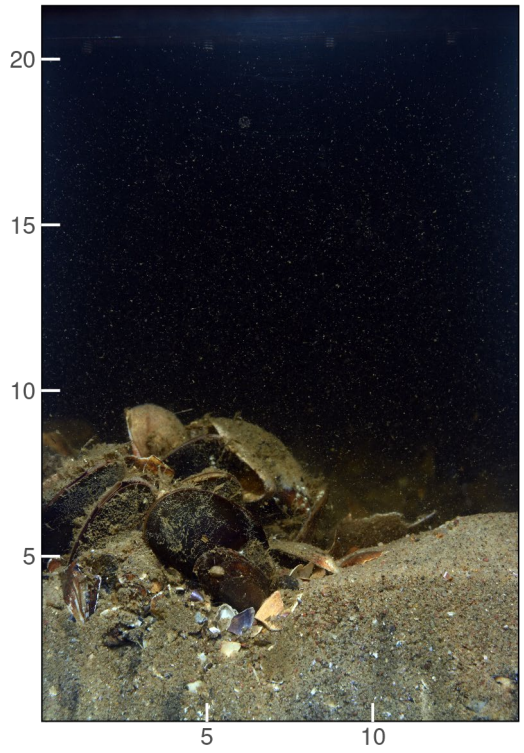


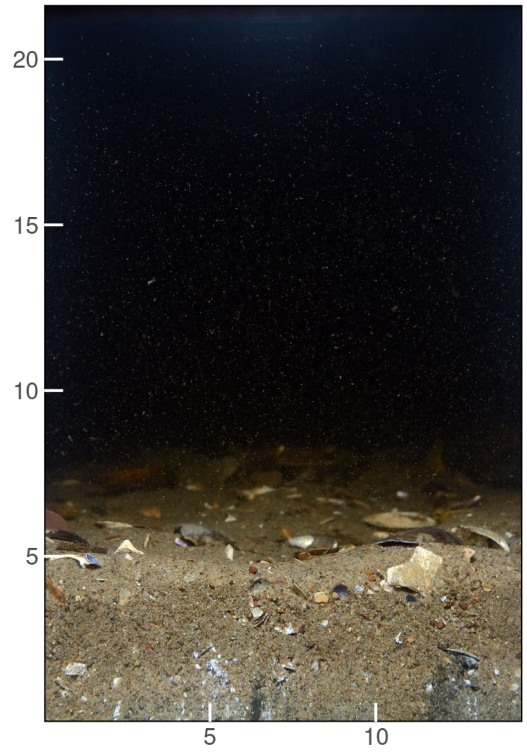
SP-313-E



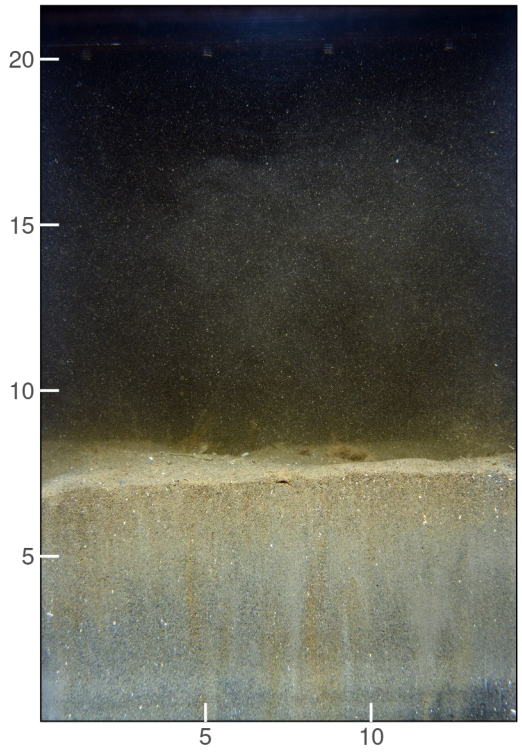
SP-315-A



SP-315-C



SP-315-D



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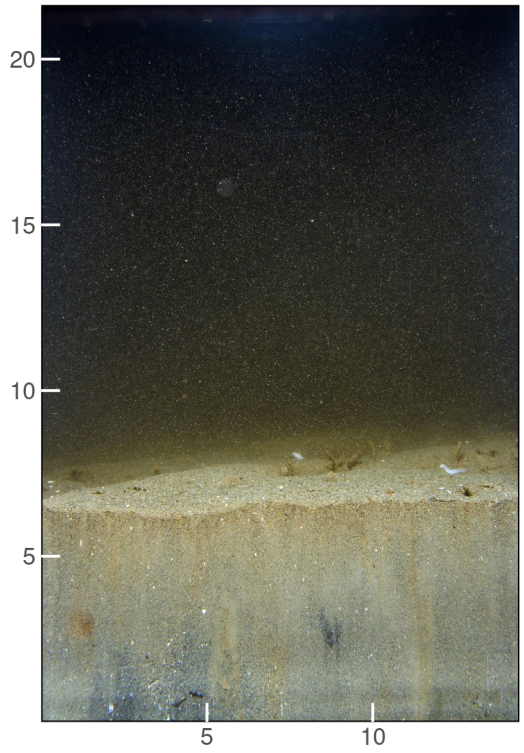
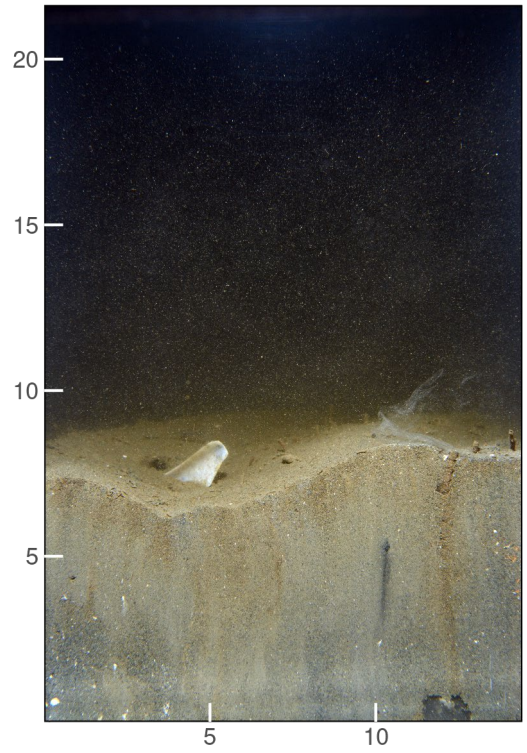


SPGC-316-D



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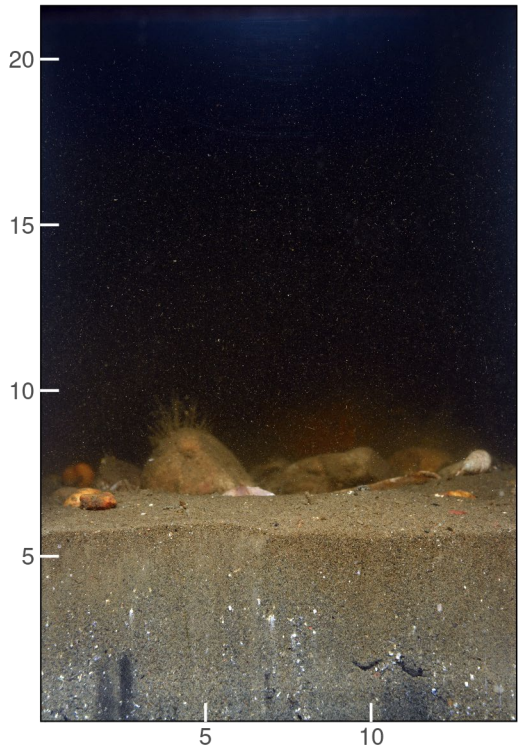
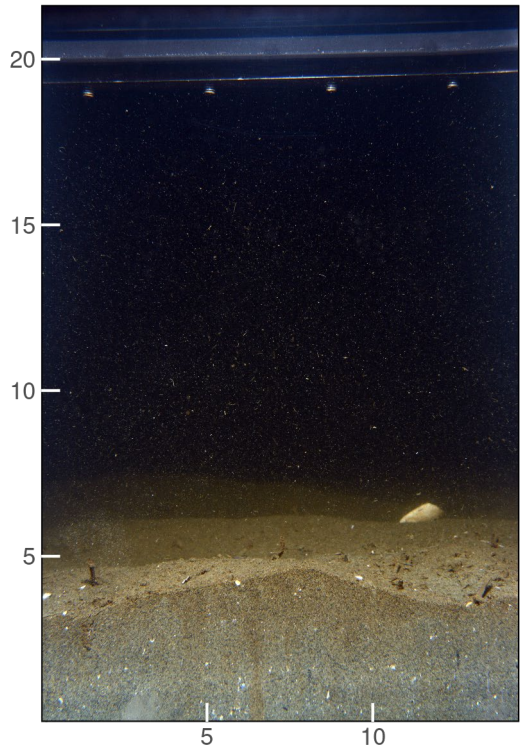
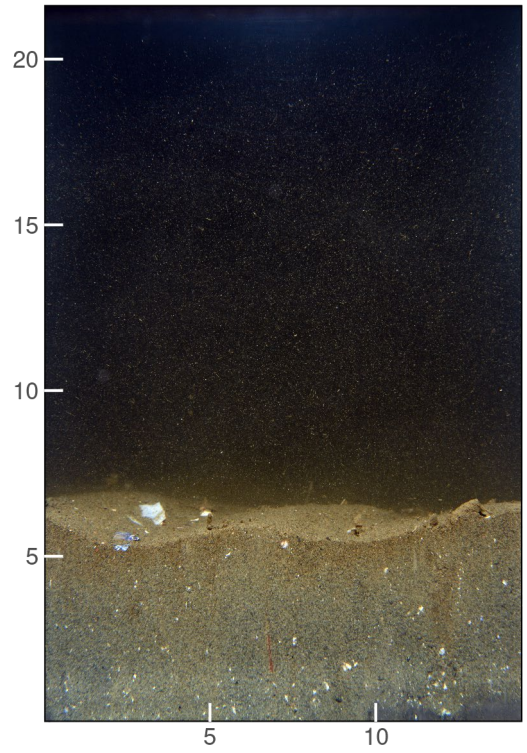


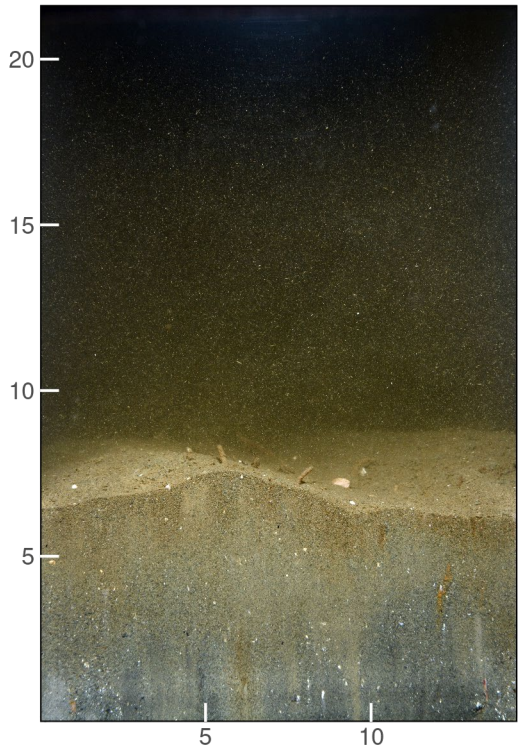
SPC-317-C



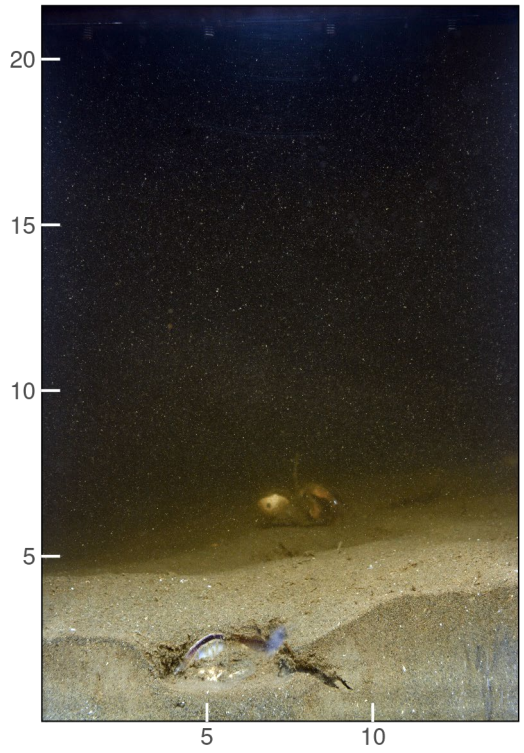
SPC-317-E



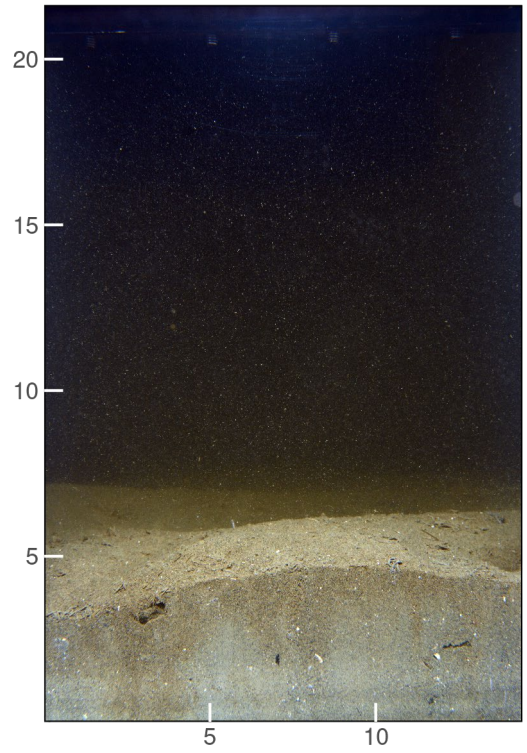
SPC-317-F



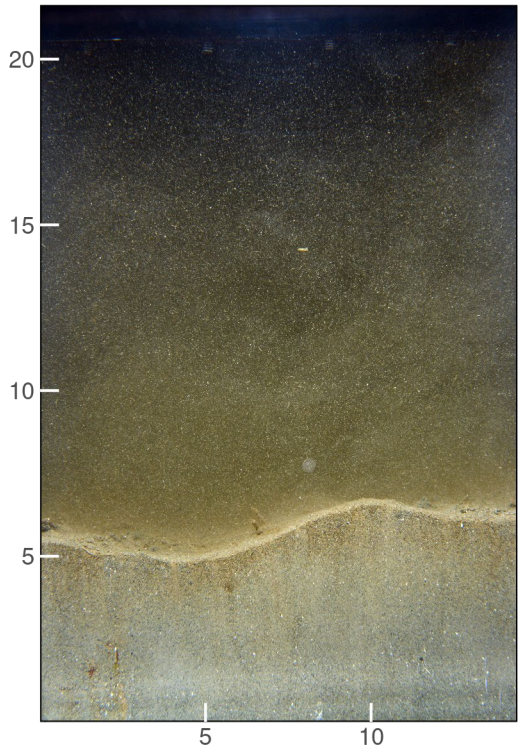
SPC-318-A



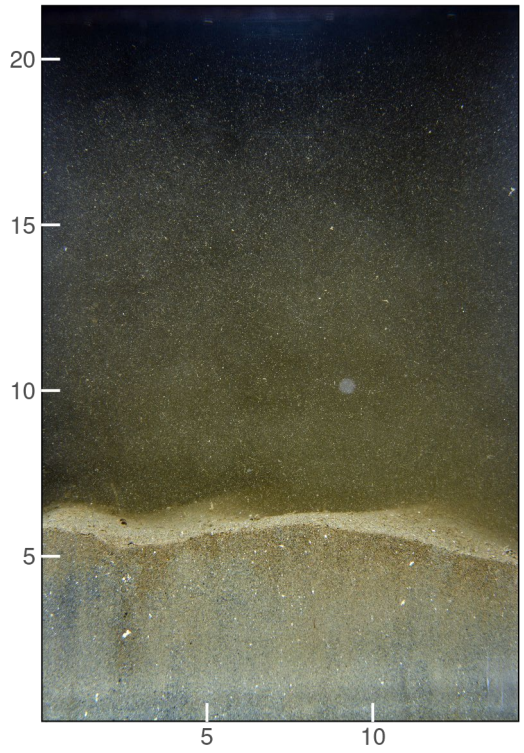
SPC-318-B



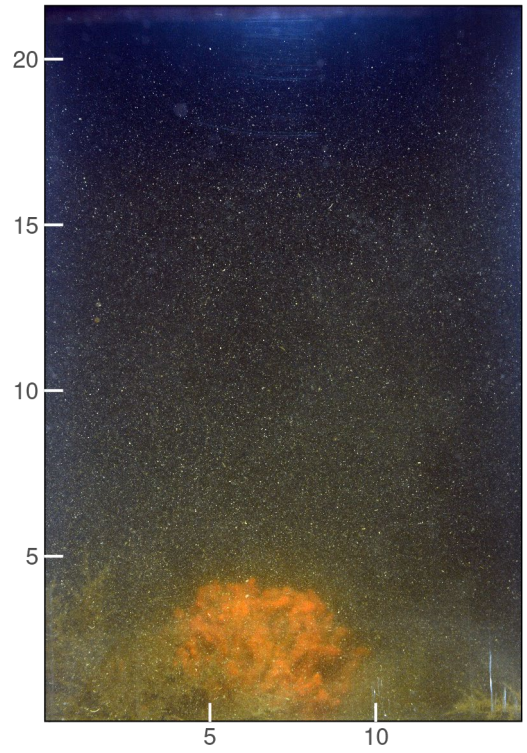
SPC-318-C



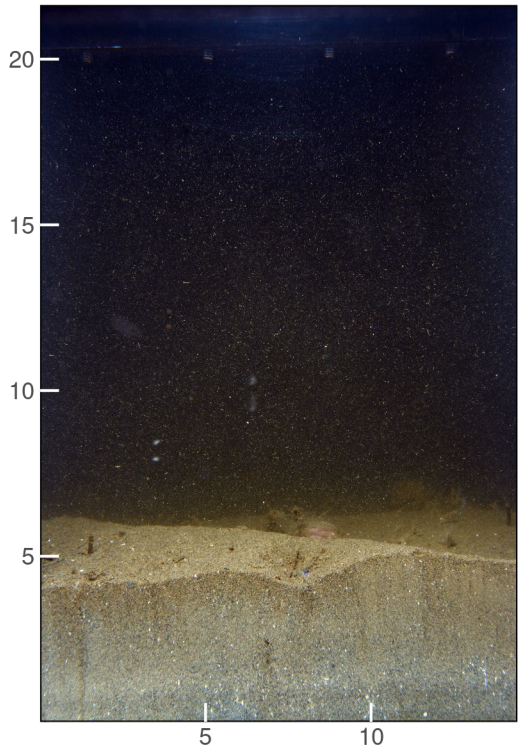
SPC-319-A



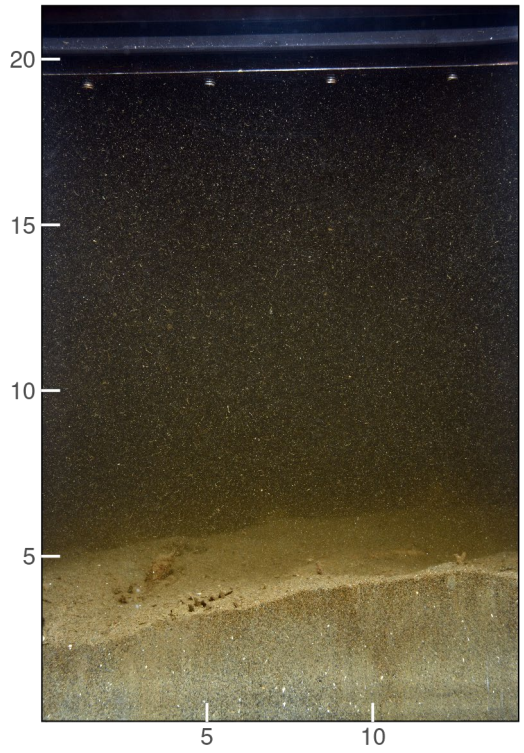
SPC-319-B



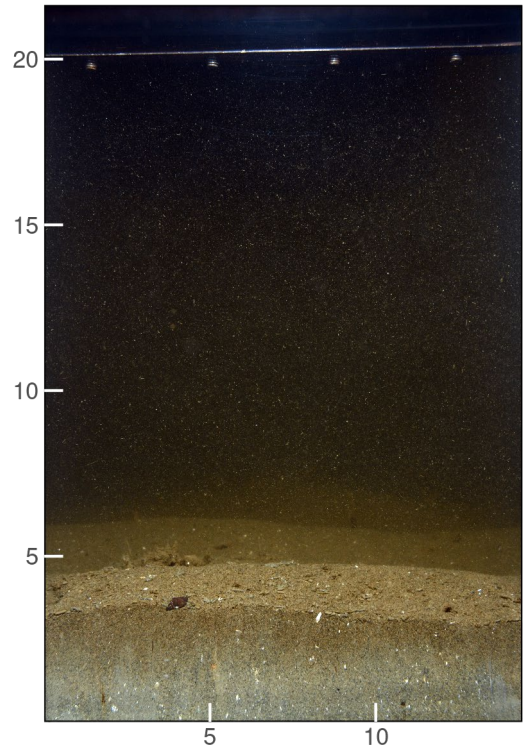
SPC-319-F



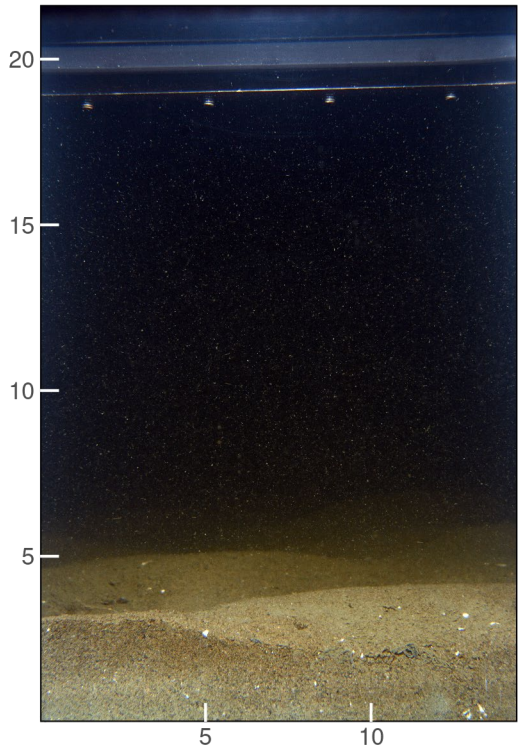
SPC-320-G



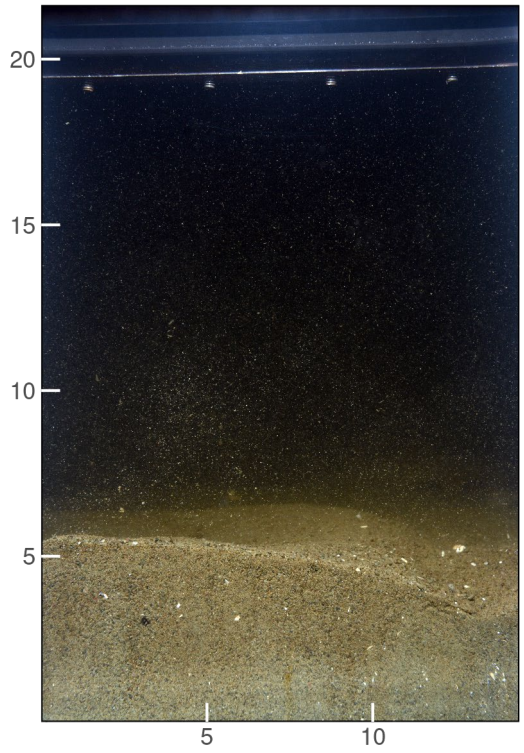
SPC-320-H



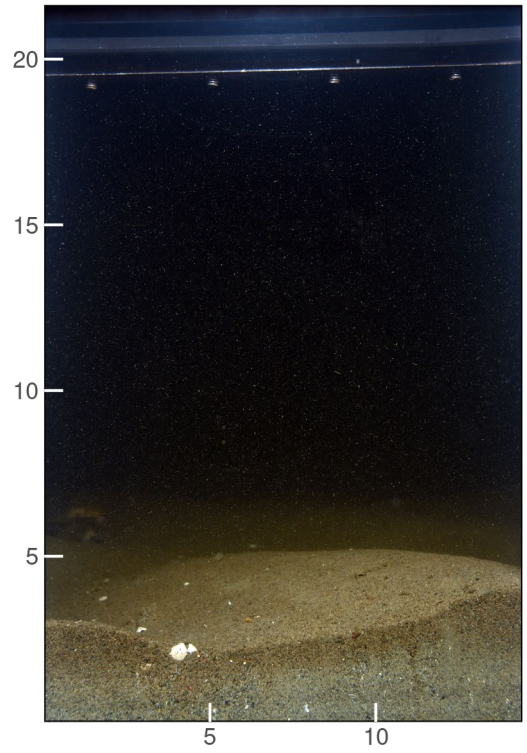
SPC-320-I



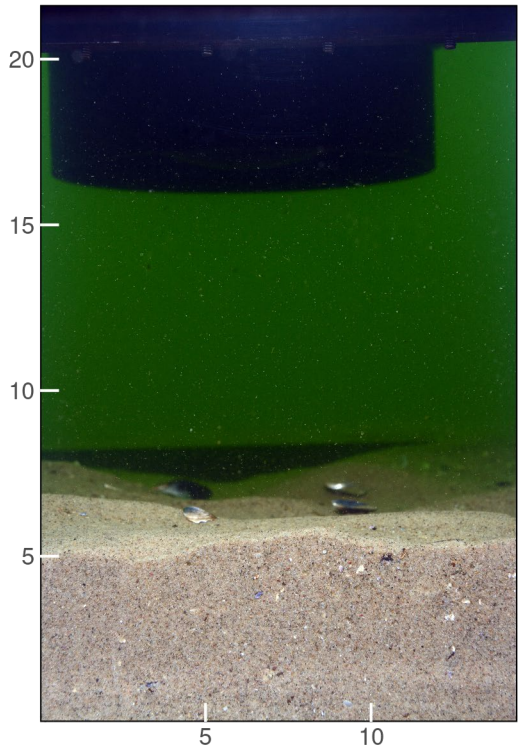
SP-321-A



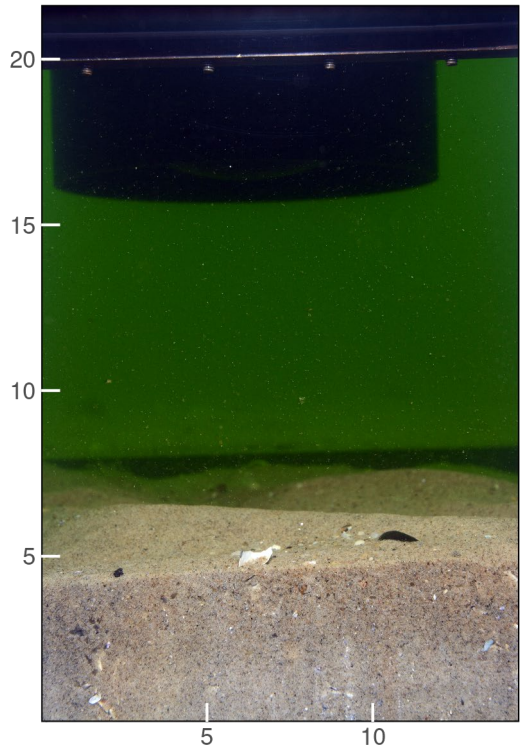
SP-321-B



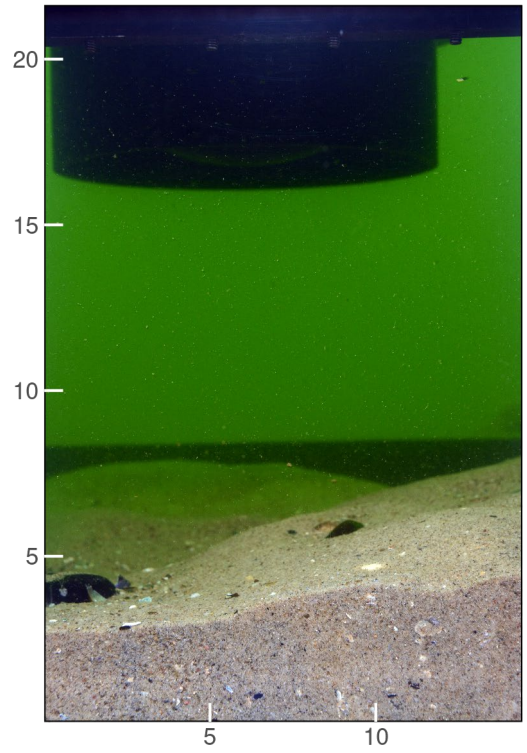
SP-321-C



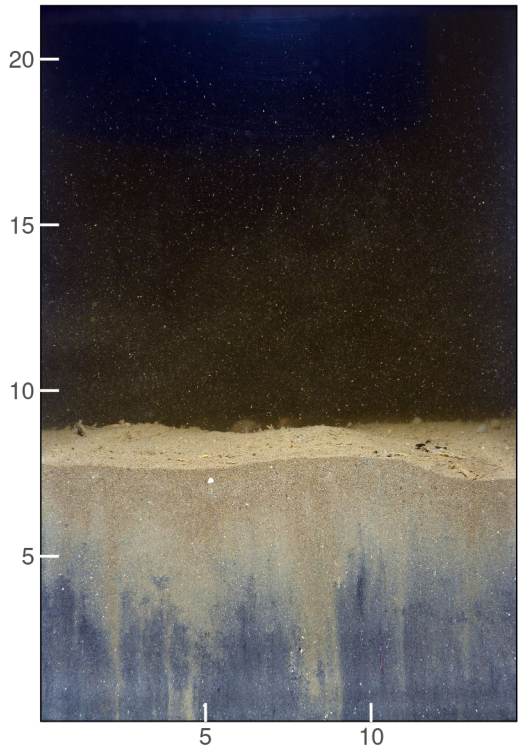
SP-322-B



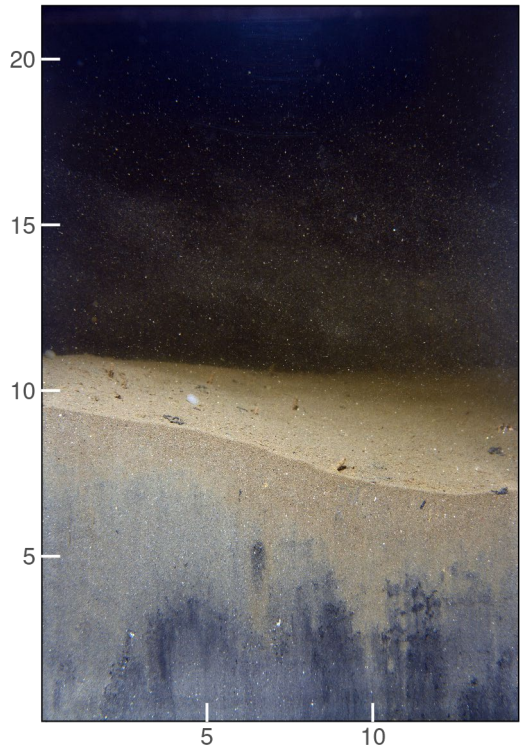
SP-322-D



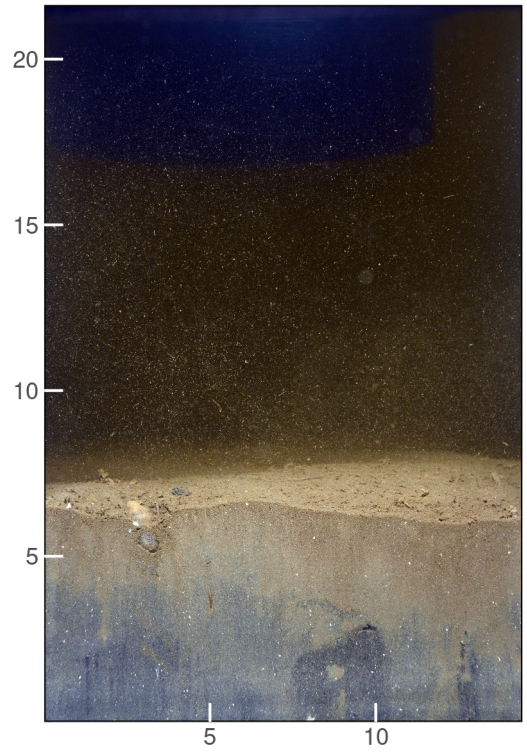
SP-322-E



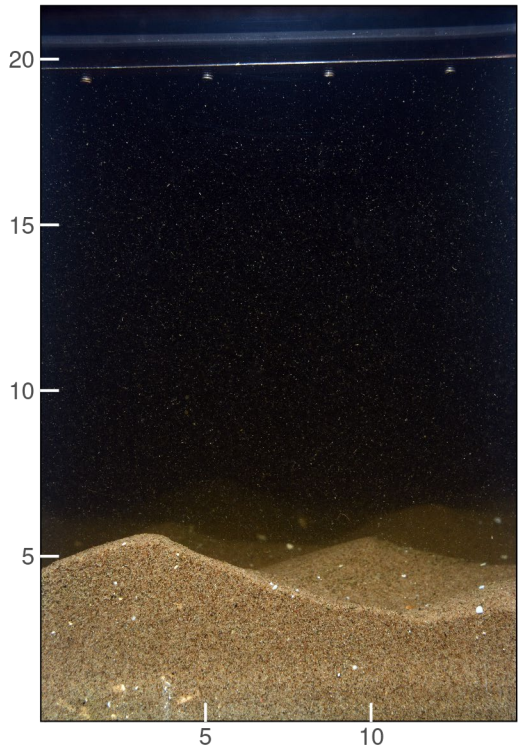
SP-324-A



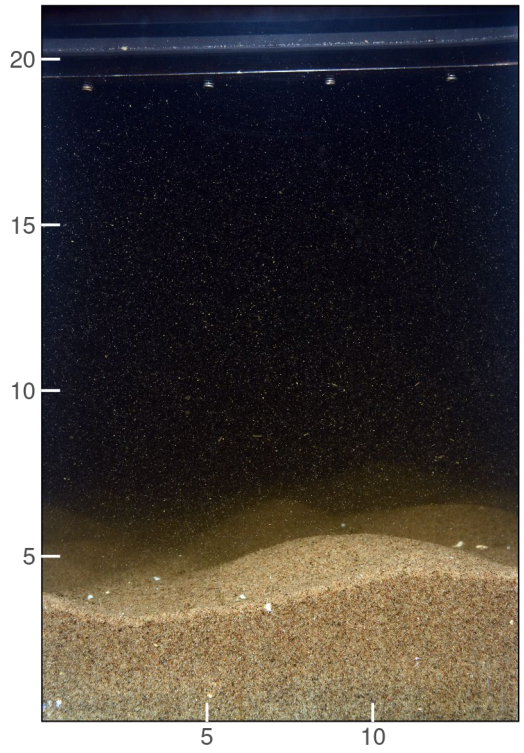
SP-324-B



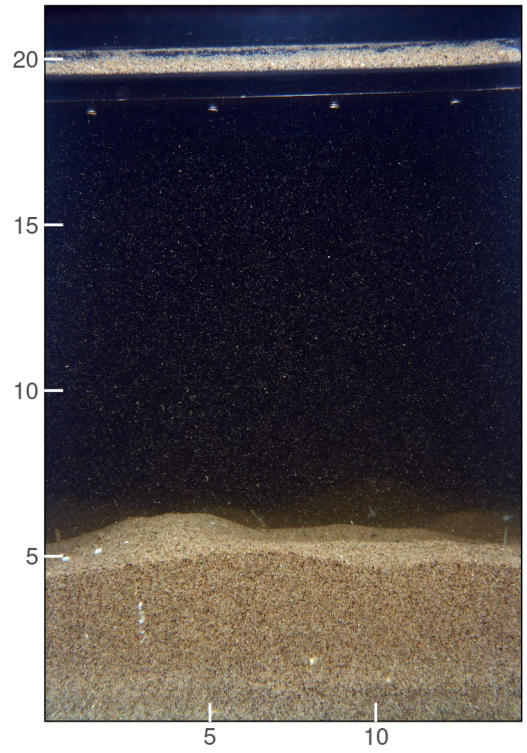
SP-324-D



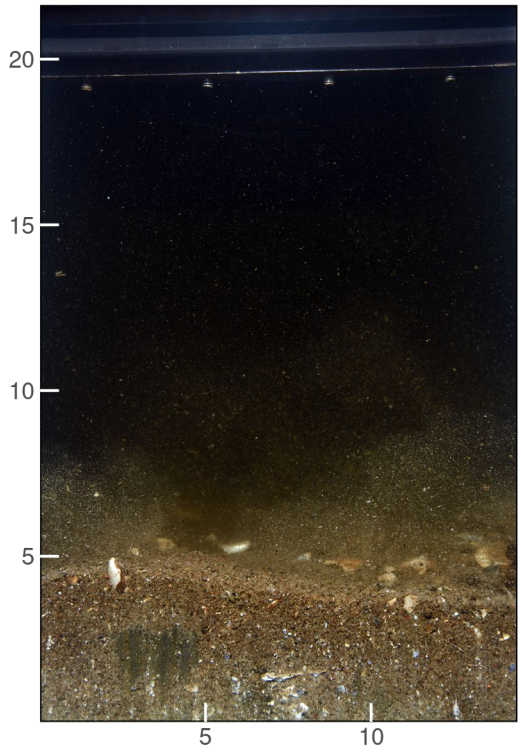
SP-325-A



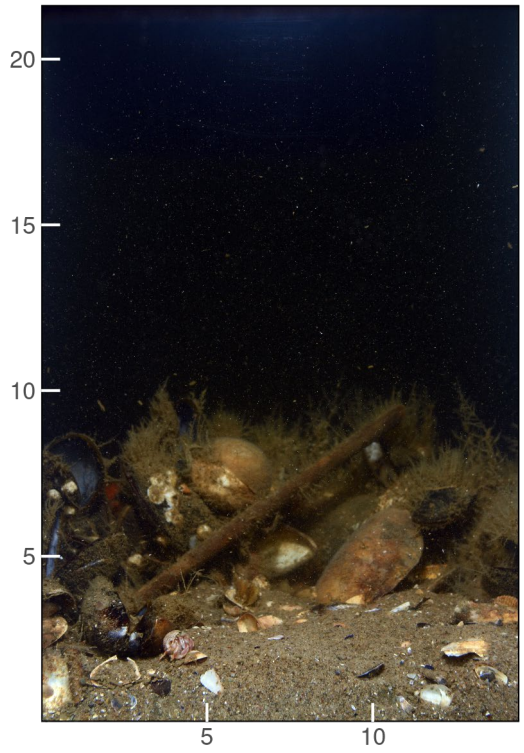
SP-325-D



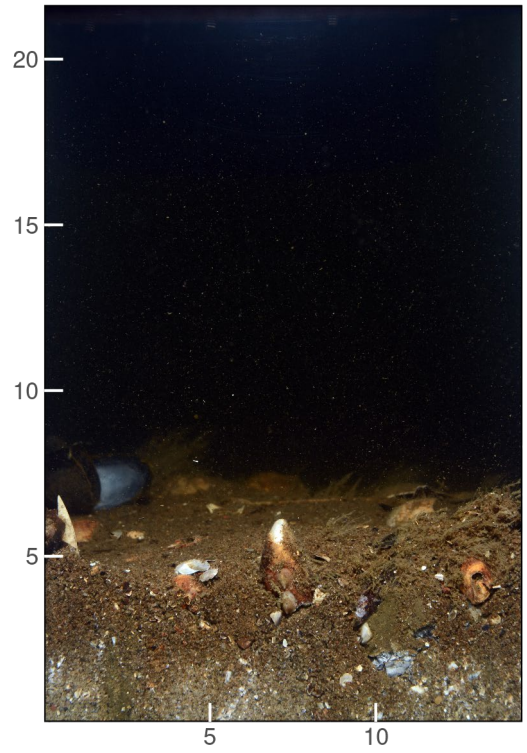
SP-325-F



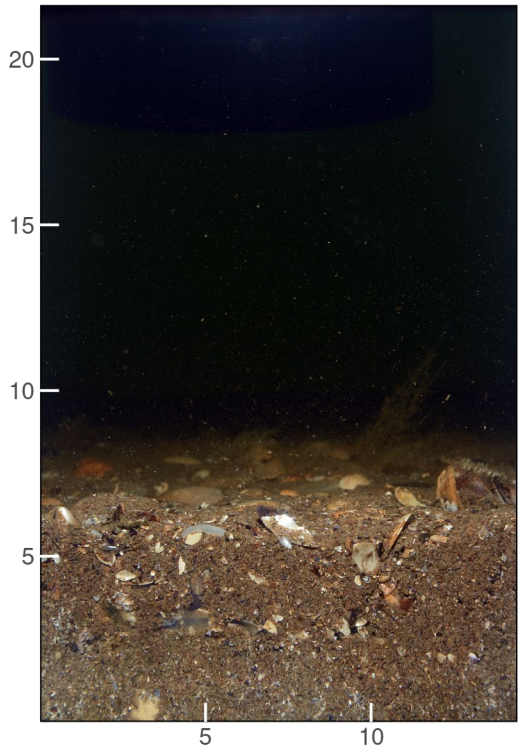
SP-326-A



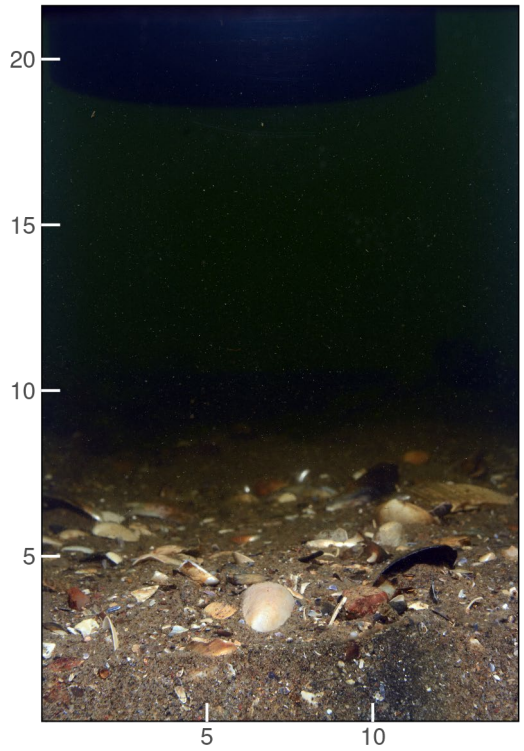
SP-326-C



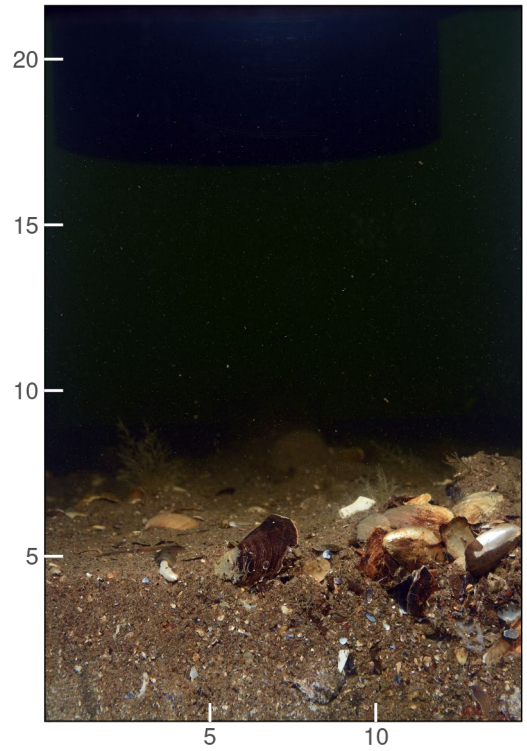
SP-326-E



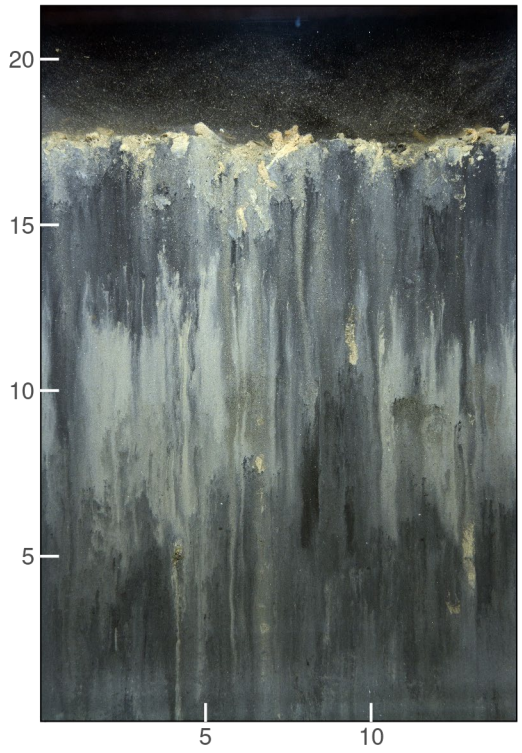
SPG-327-A



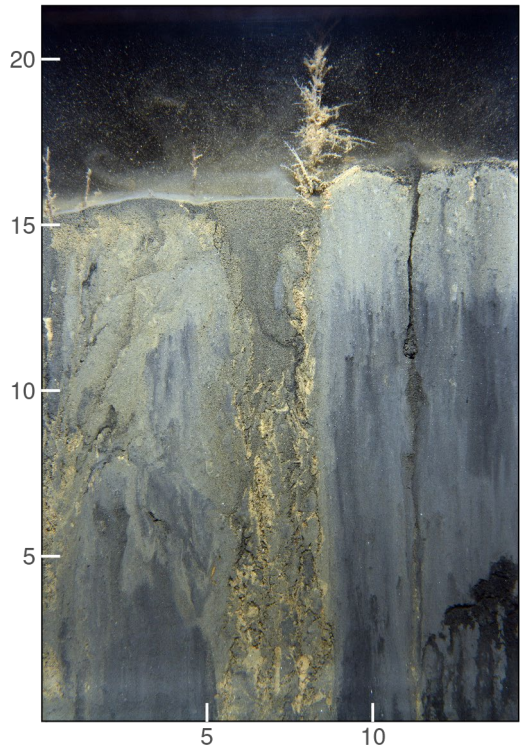
SPG-327-B



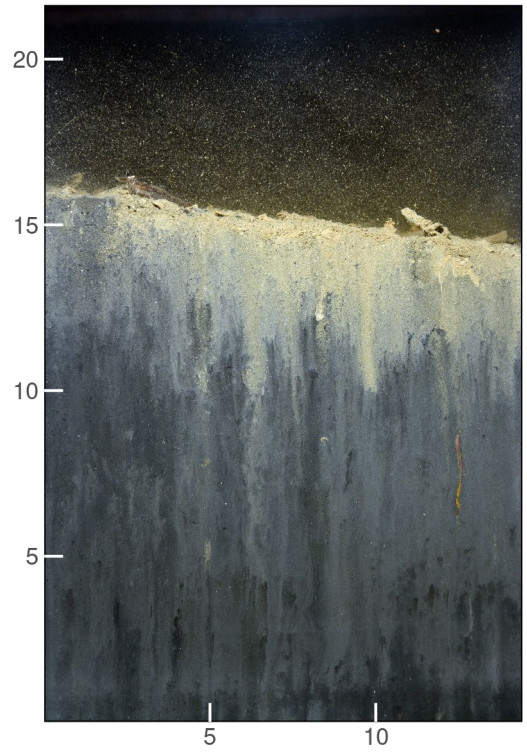
SPG-327-C



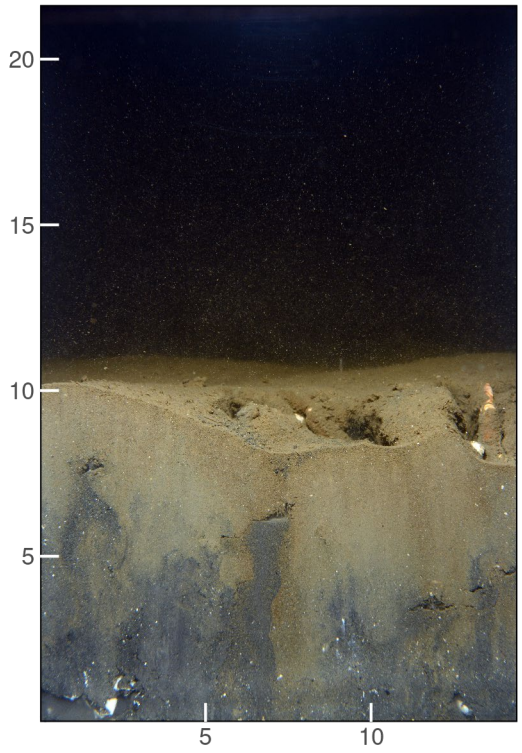
SP-329-A



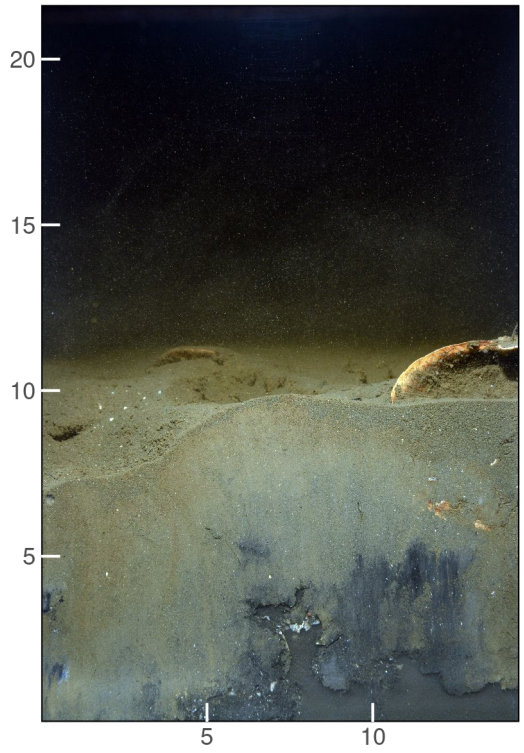
SP-329-B



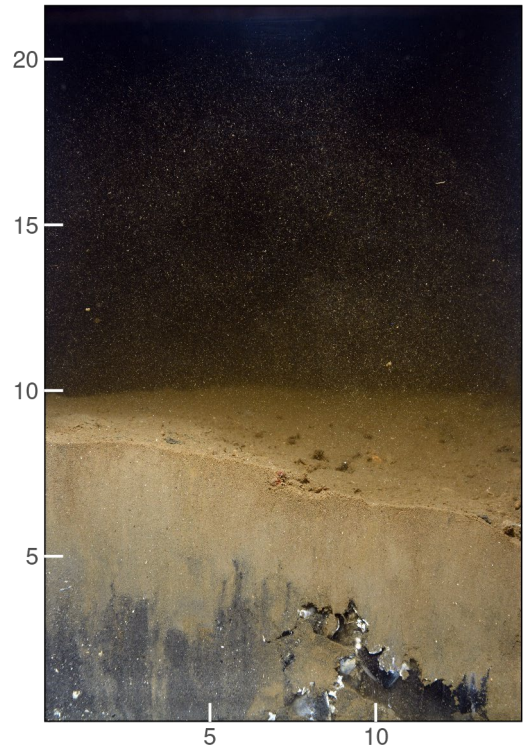
SP-329-C



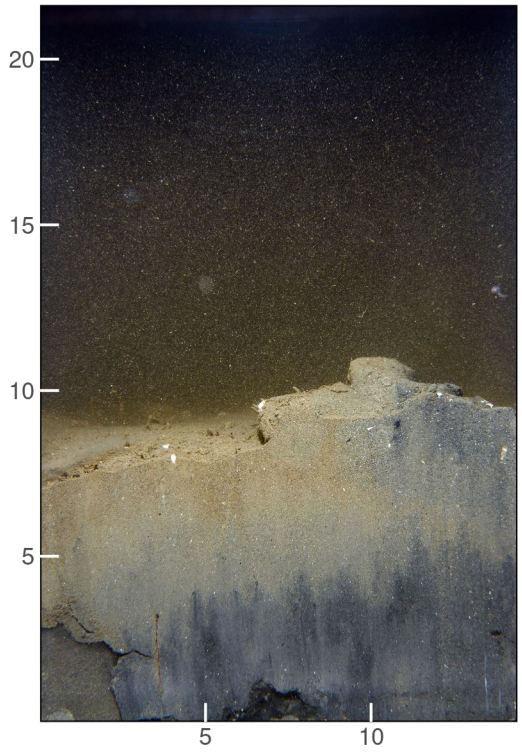
SP-330-A



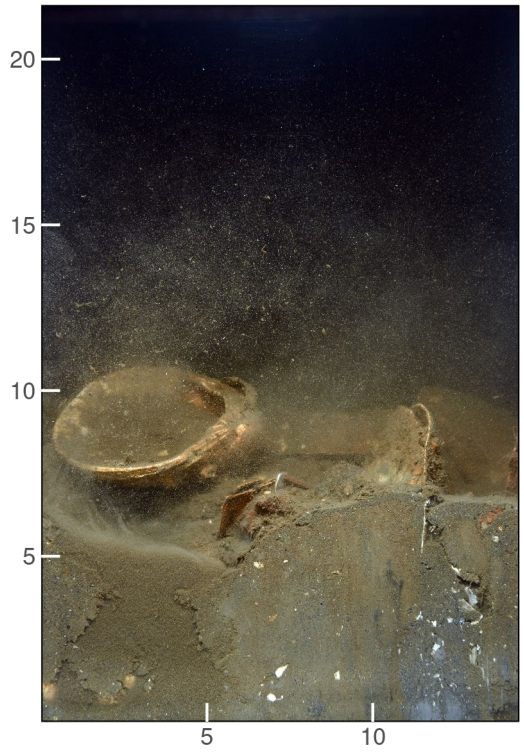
SP-330-B



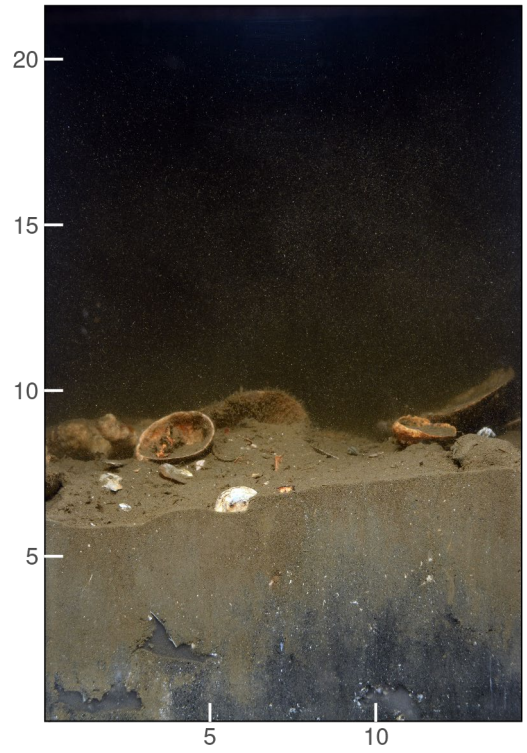
SP-330-D



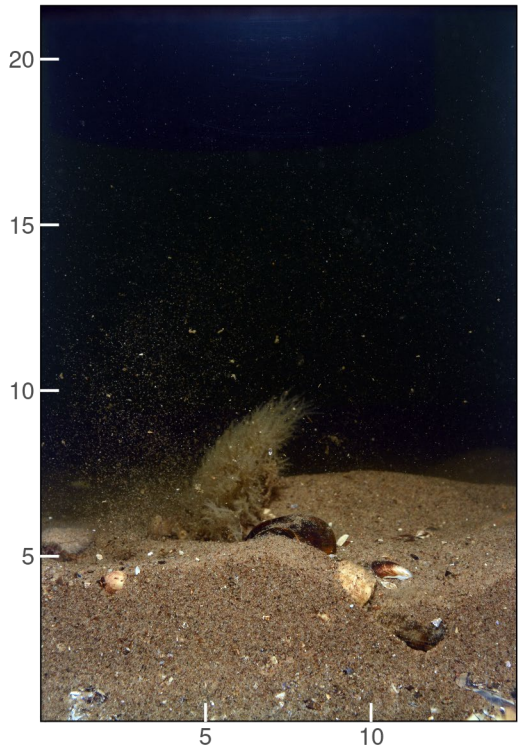
SP-332-A



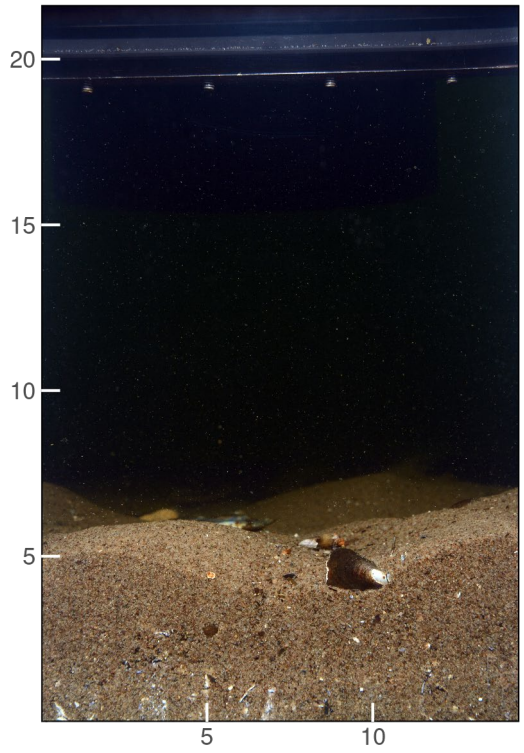
SP-332-D



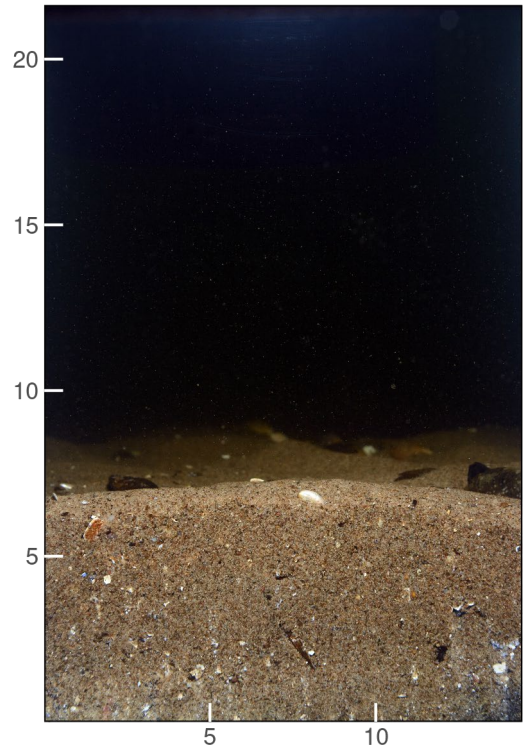
SP-332-H



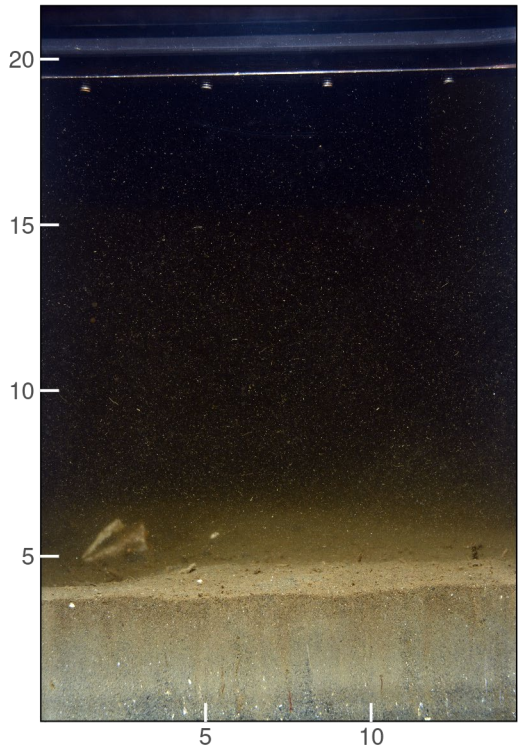
SP-333-A



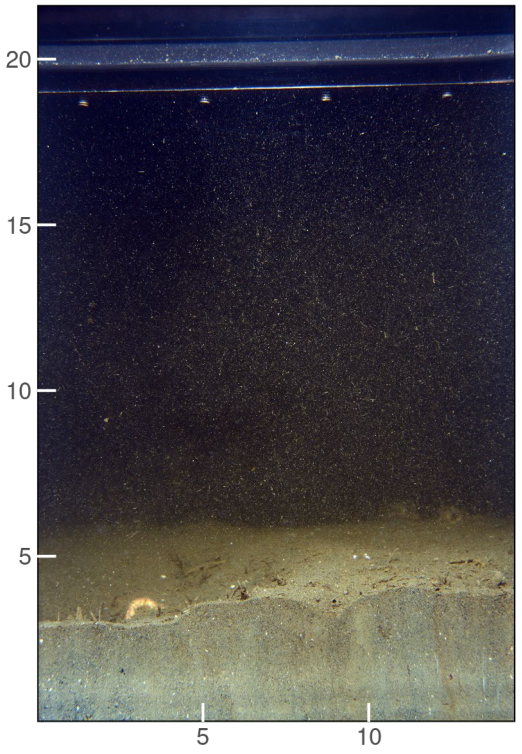
SP-333-B



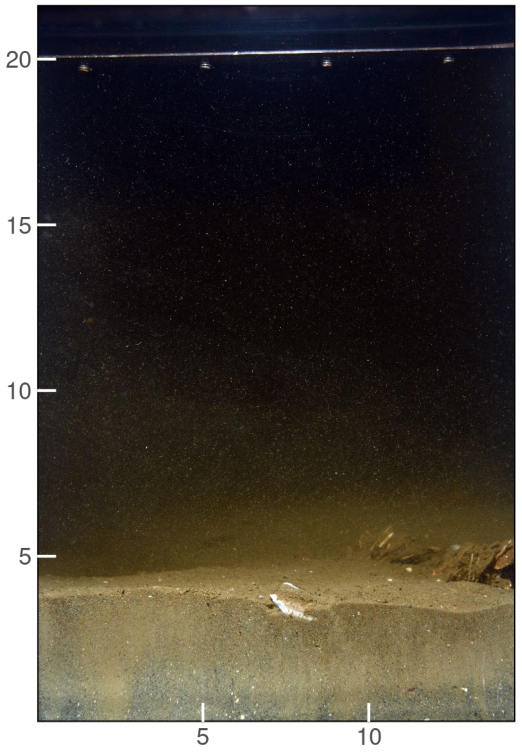
SP-333-D



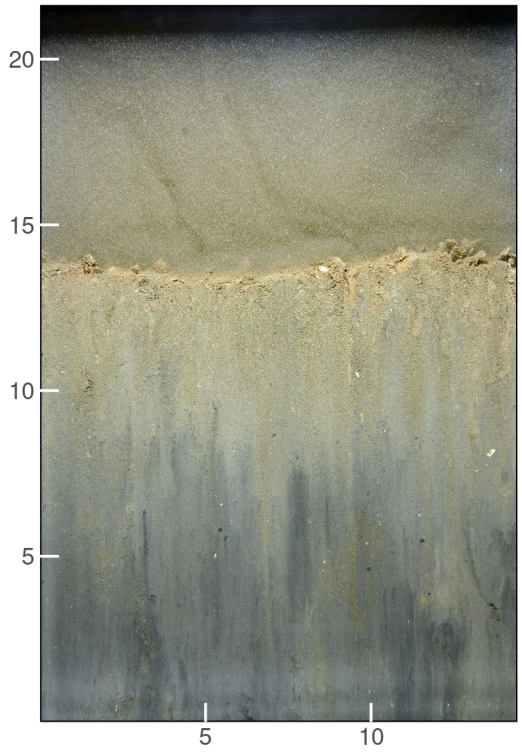
SP-335-A



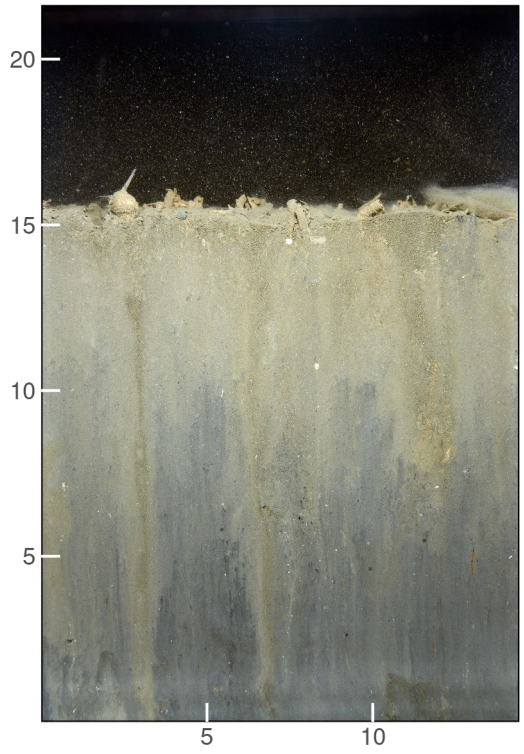
SP-335-B



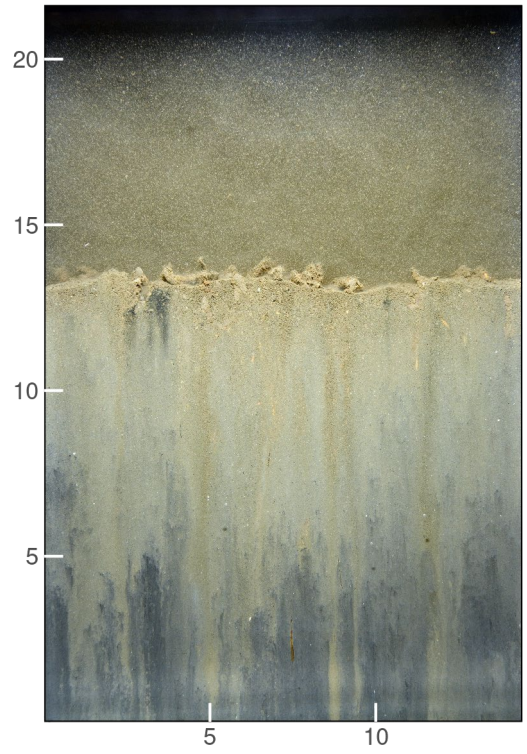
SP-335-G



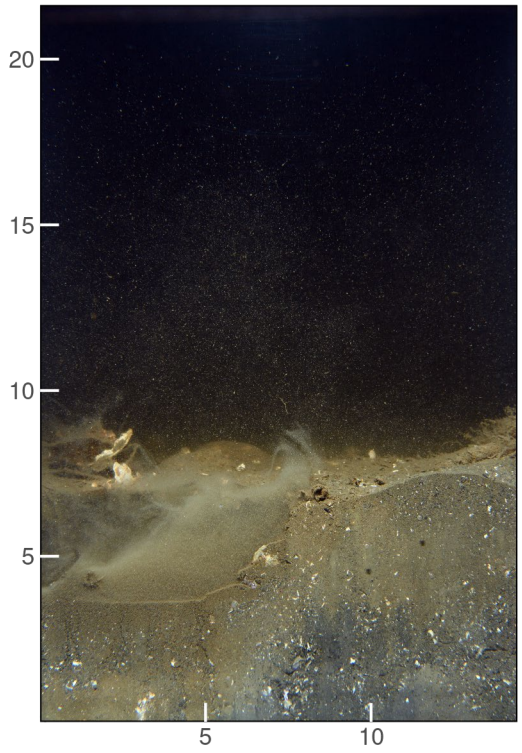
SP-338-A



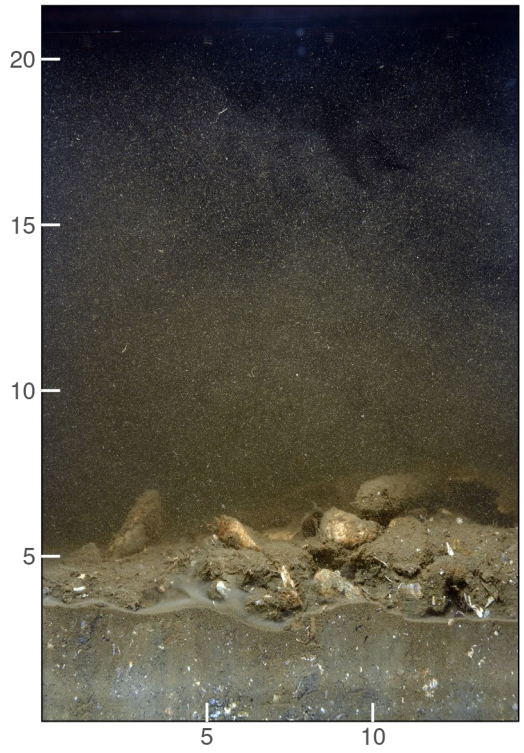
SP-338-C



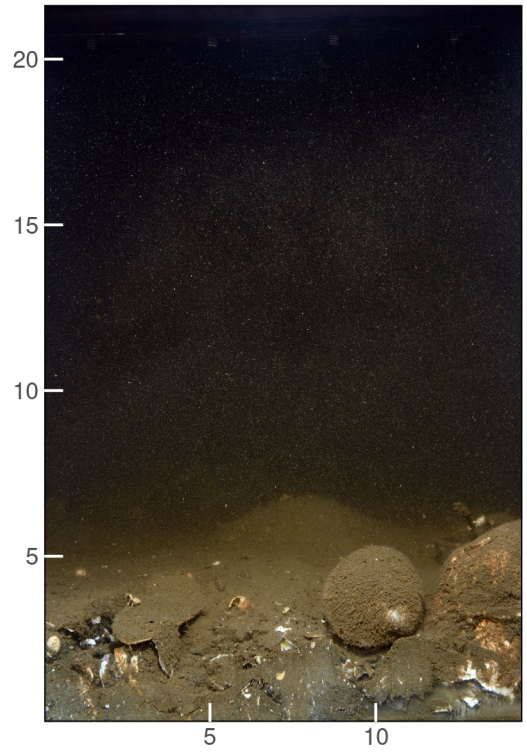
SP-338-D



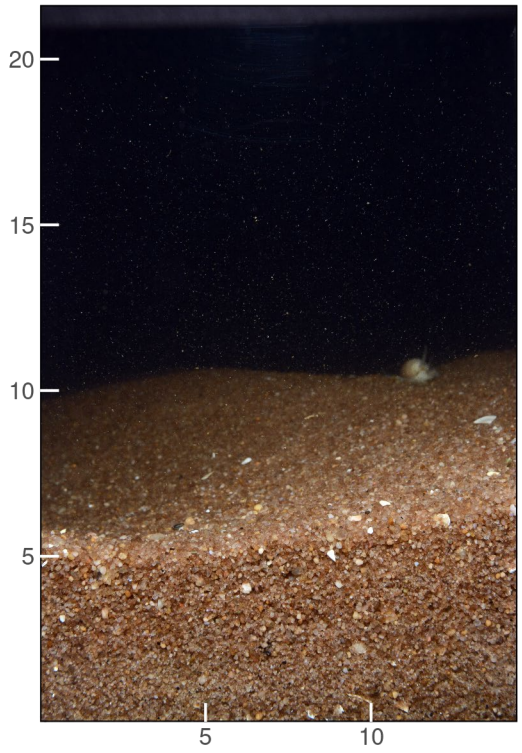
SP-340-A



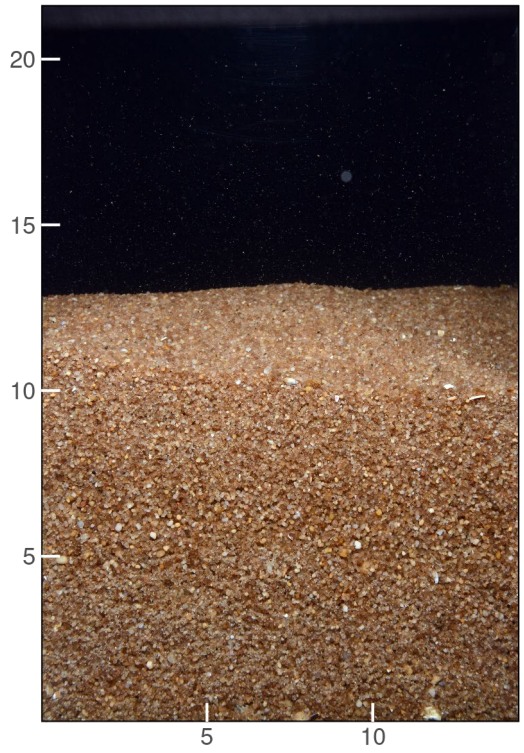
SP-340-B



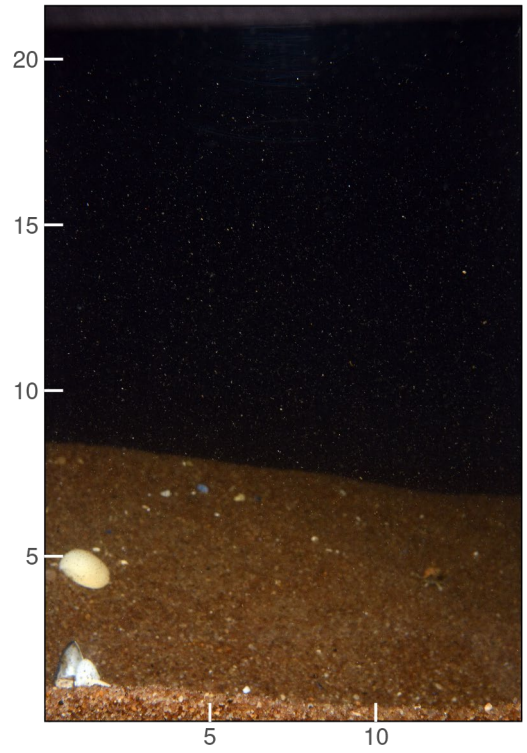
SP-340-D



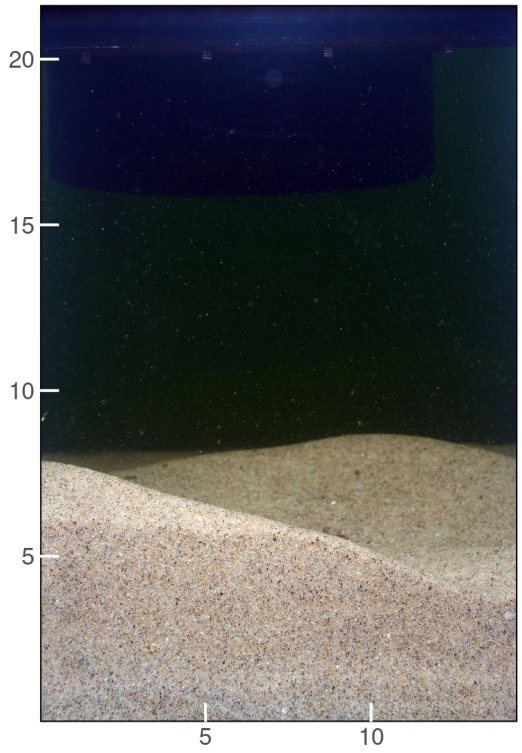
SPG-341-A



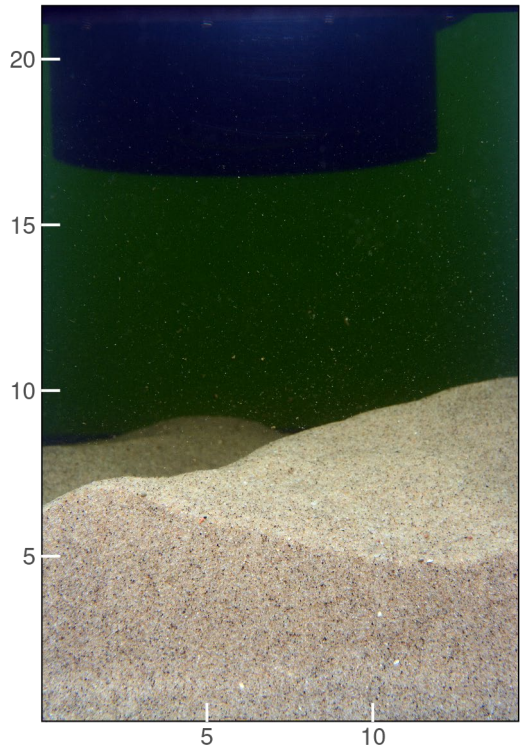
SPG-341-B



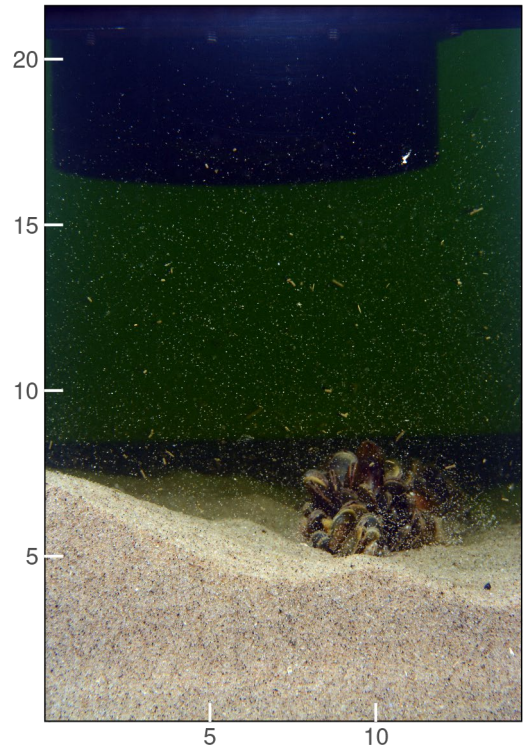
SPG-341-C



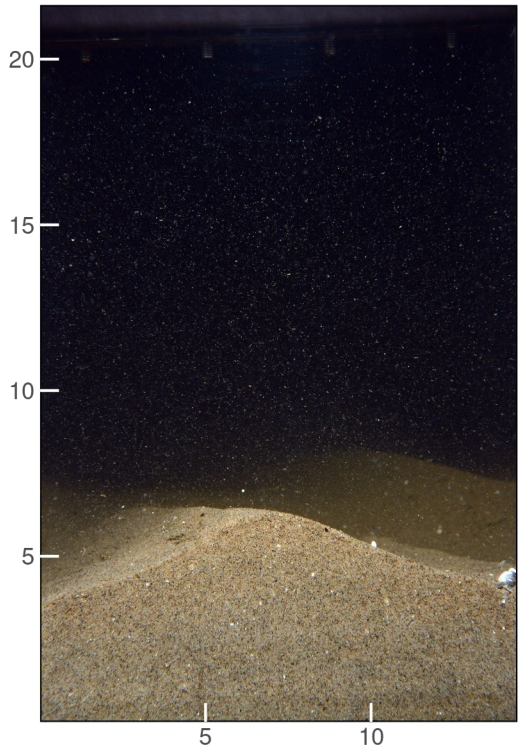
SP-342-A



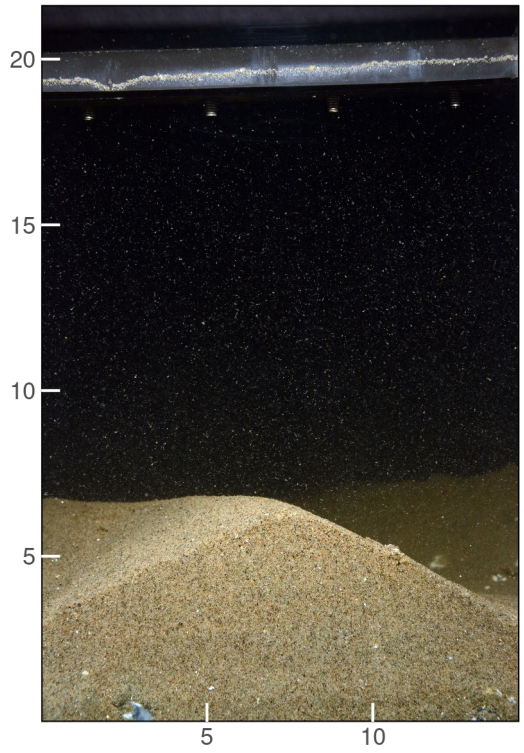
SP-342-D



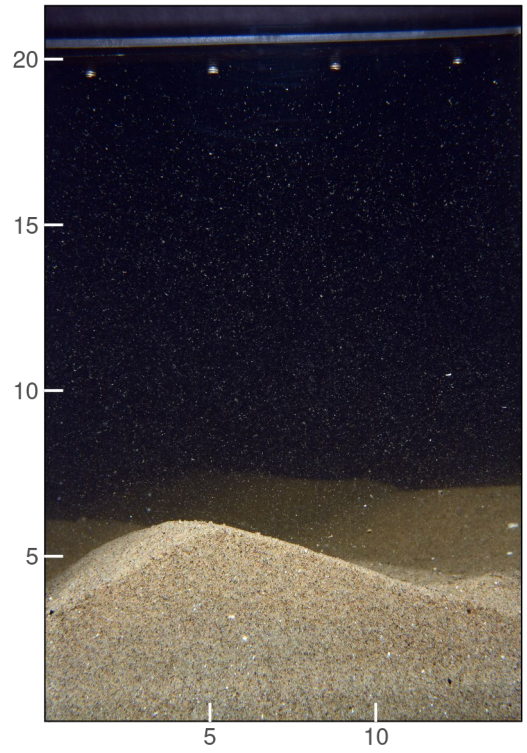
SP-342-F



SP-344-A



SP-344-B

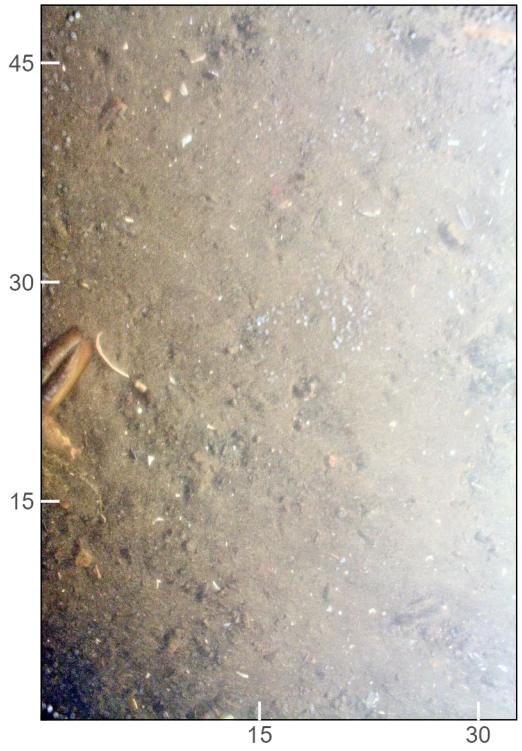


SP-344-C

Appendix B6

Plan View Images—
NECCNY

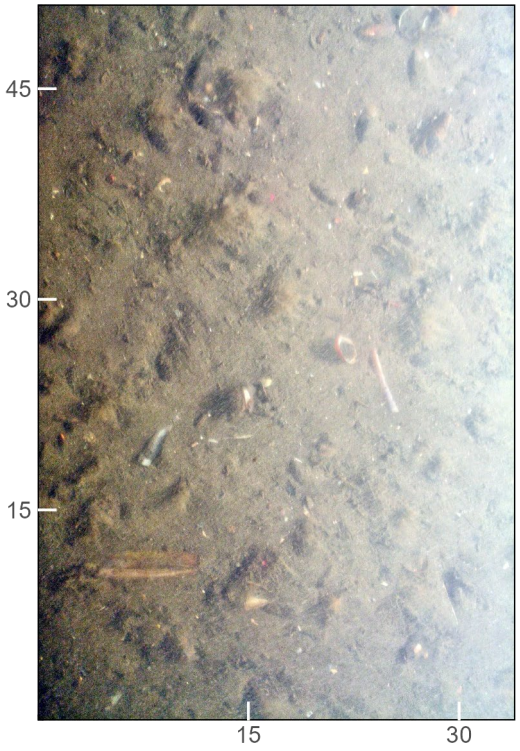
Scale: The width and height of each PV image is provided in Appendix C2 (PV Image Data Set).



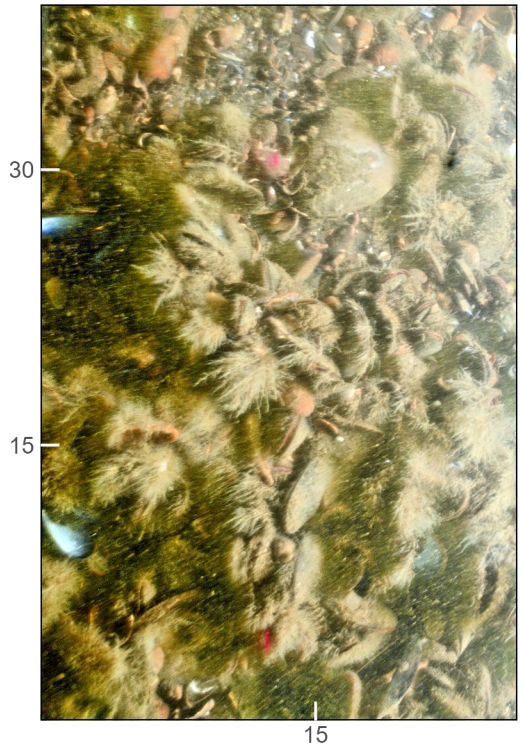
SP-301-A



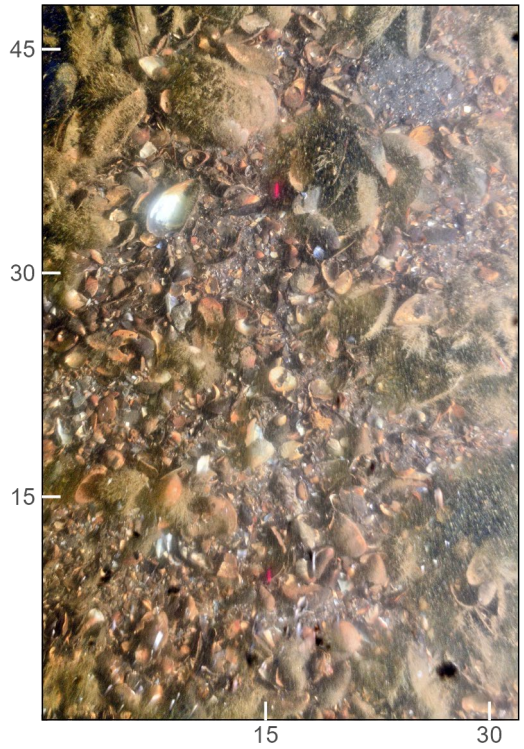
SP-301-B



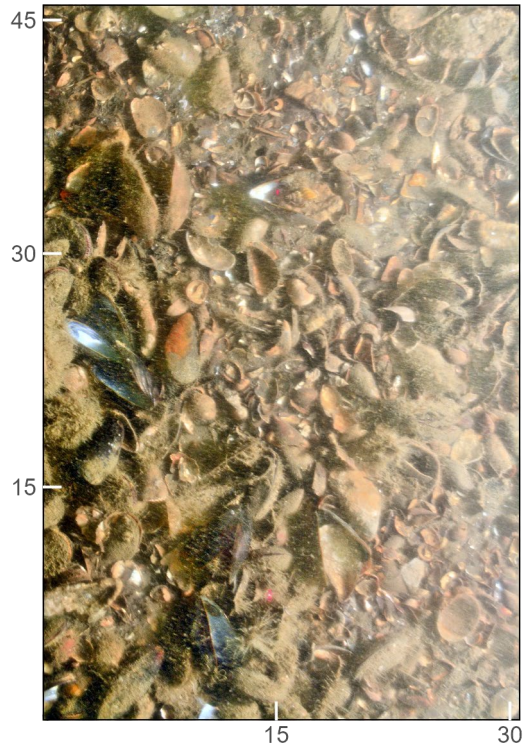
SP-301-C



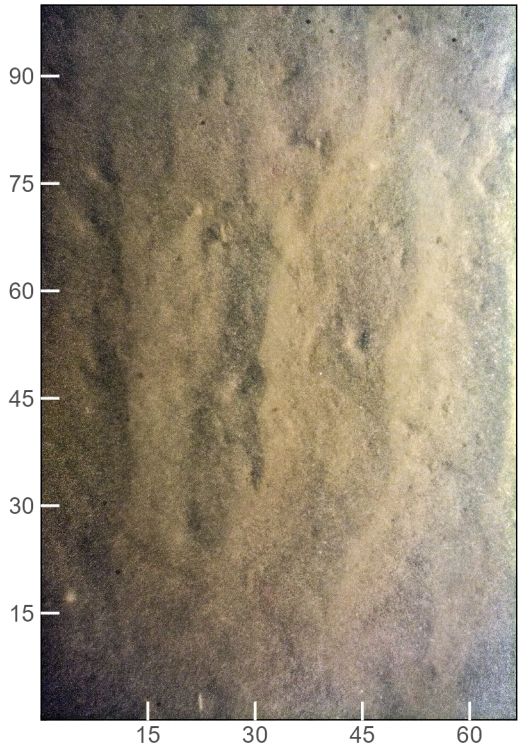
SP-302-A



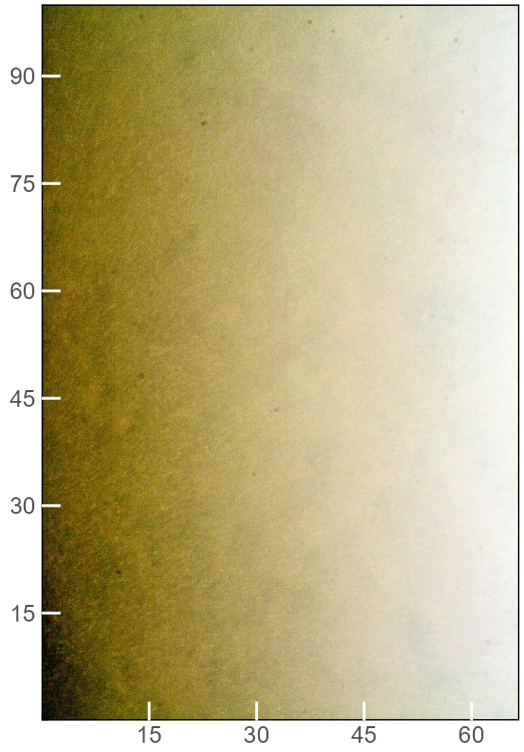
SP-302-C



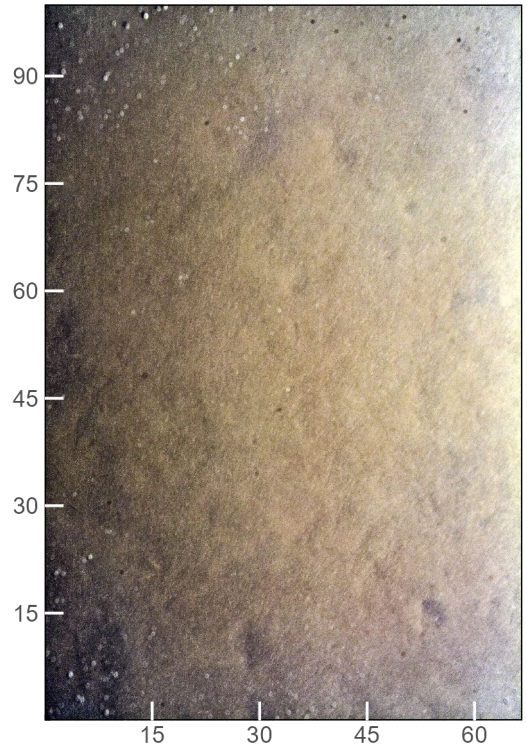
SP-302-D



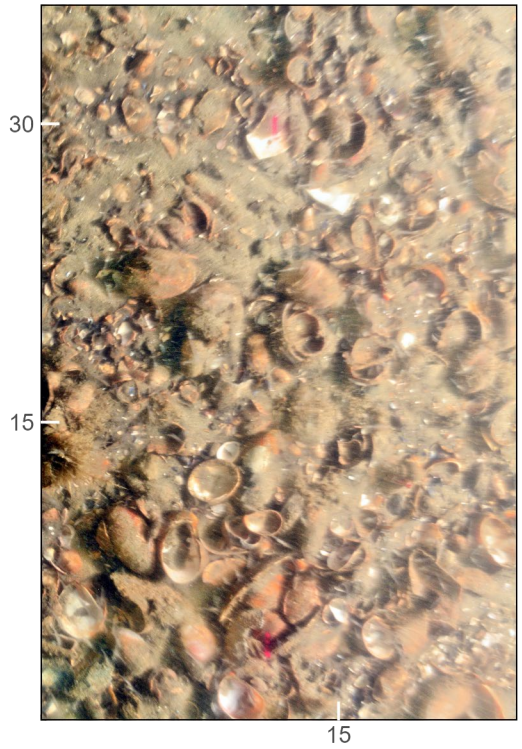
SPG-306-B



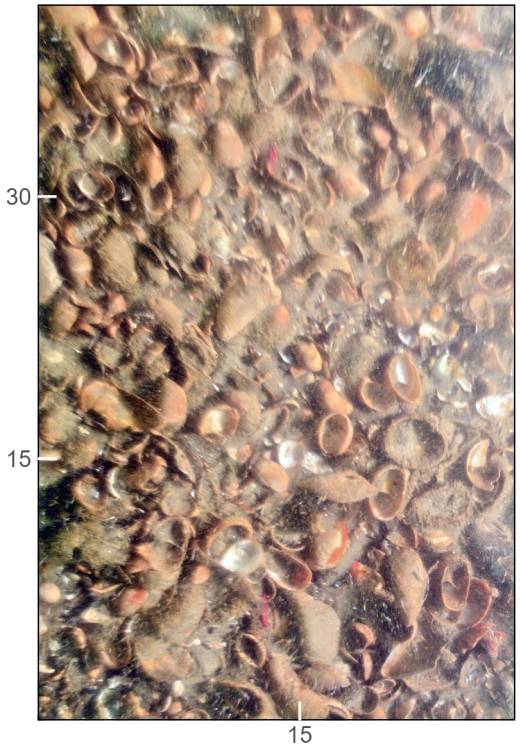
SPG-306-D



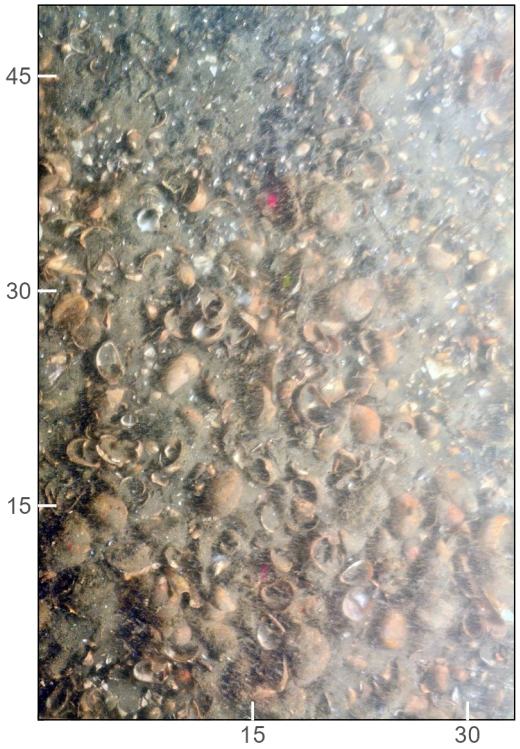
SPG-306-G



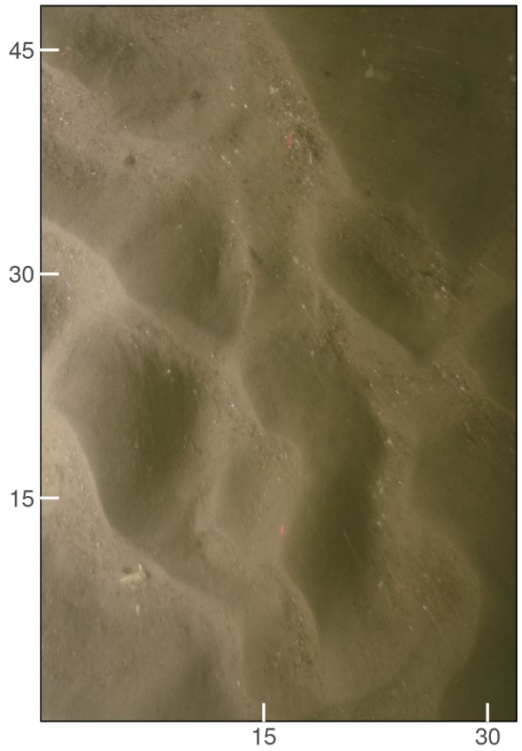
SP-307-A



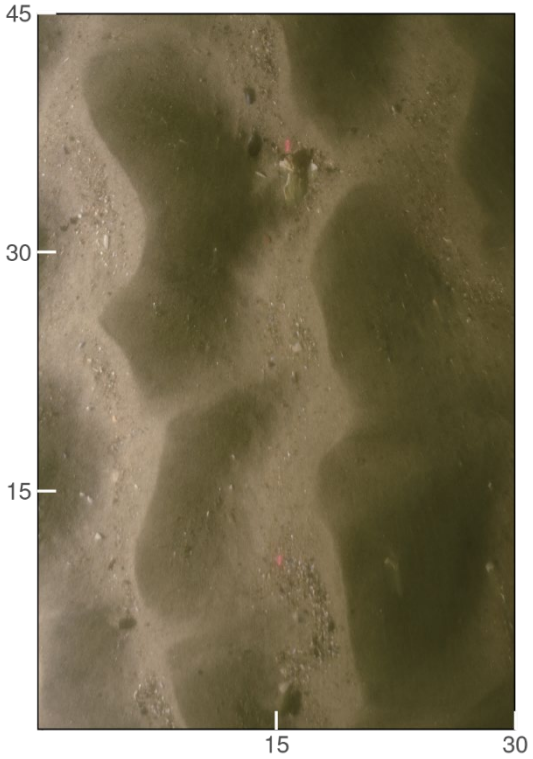
SP-307-C



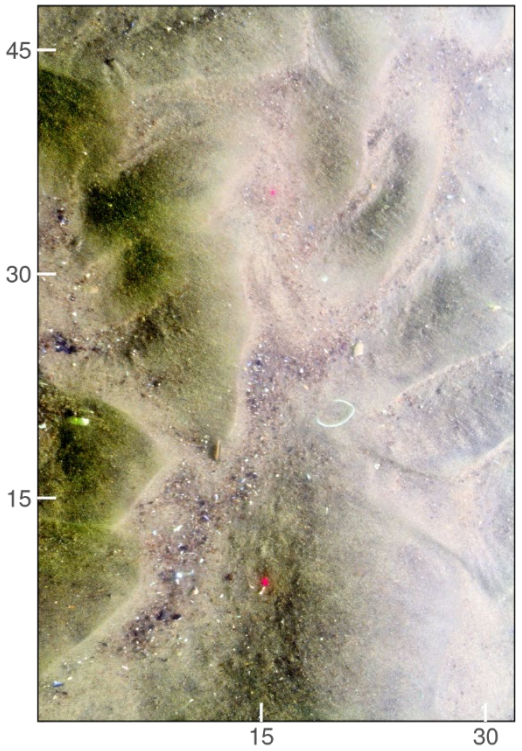
SP-307-E



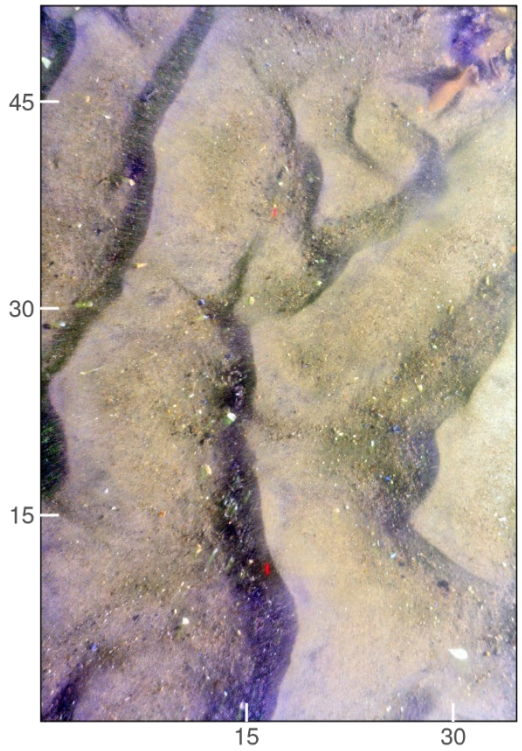
SPC-308-B



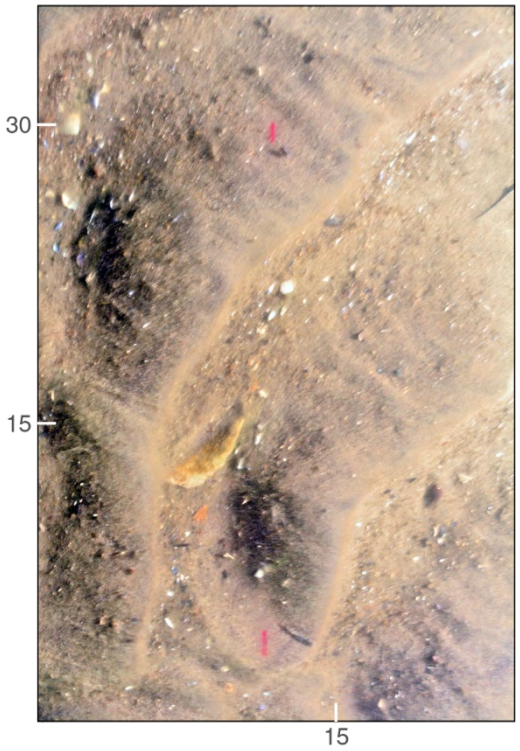
SPC-308-C



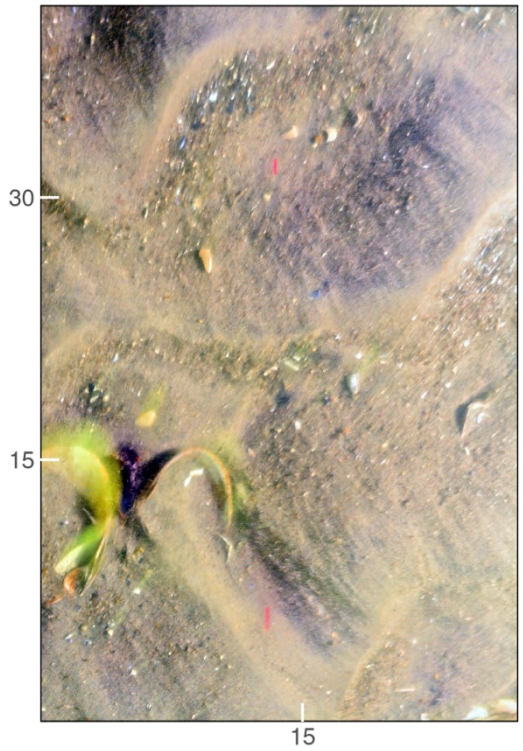
SPC-308-D



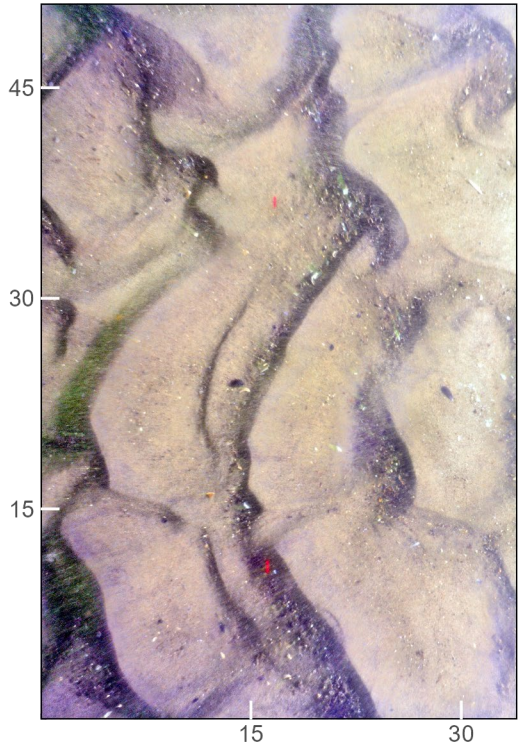
SPC-309-A



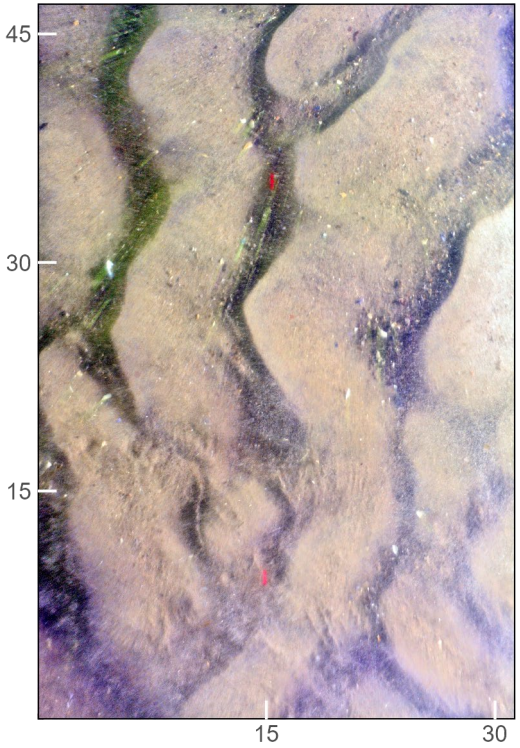
SPC-309-C



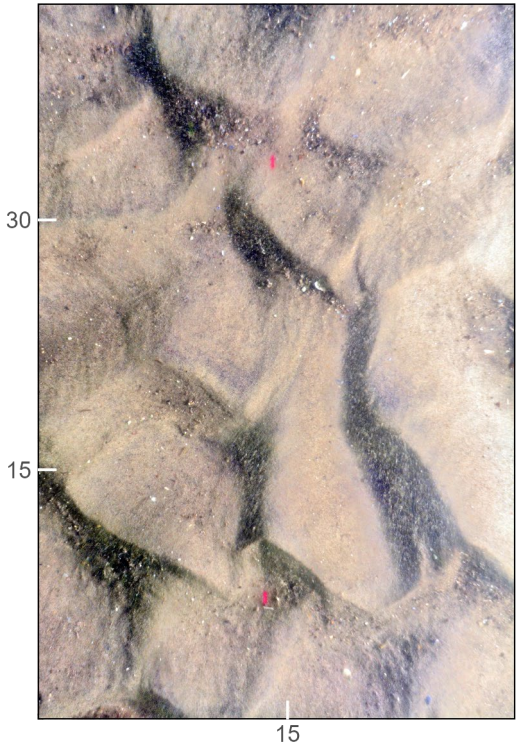
SPC-309-D



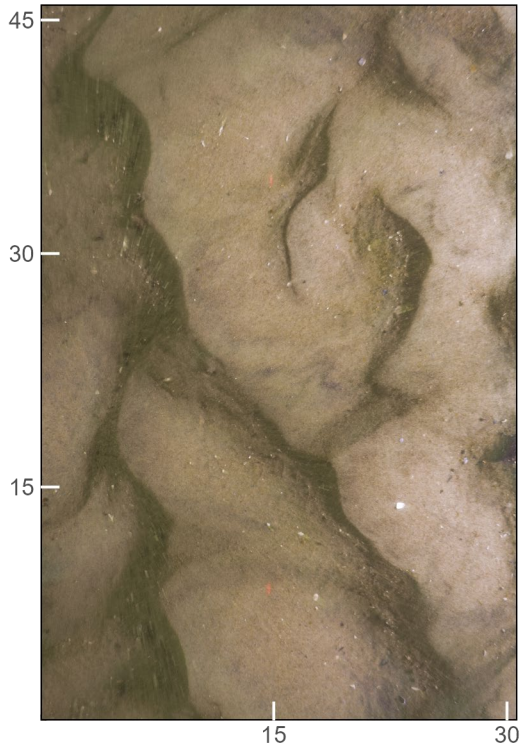
SPC-310-A



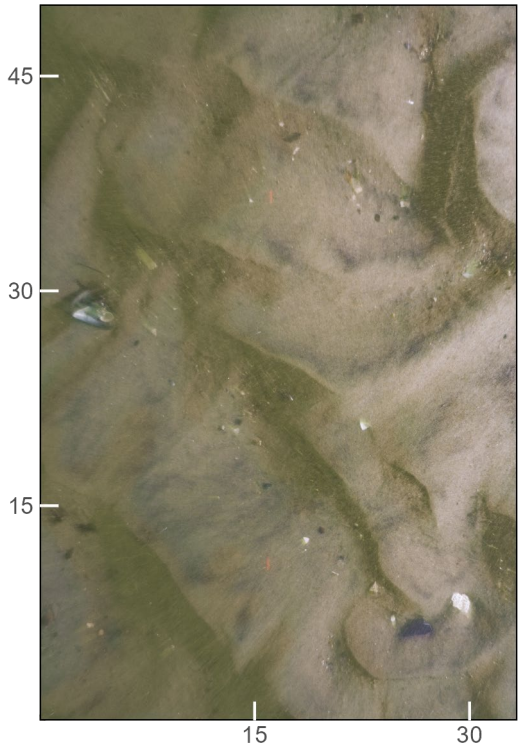
SPC-310-B



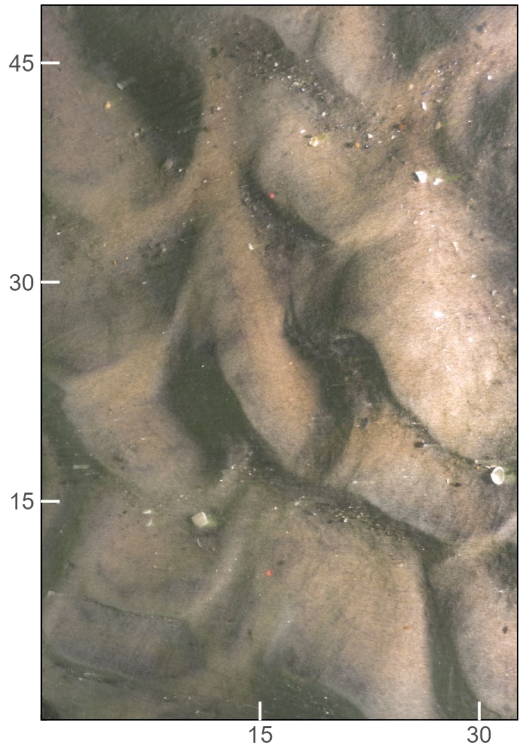
SPC-310-D



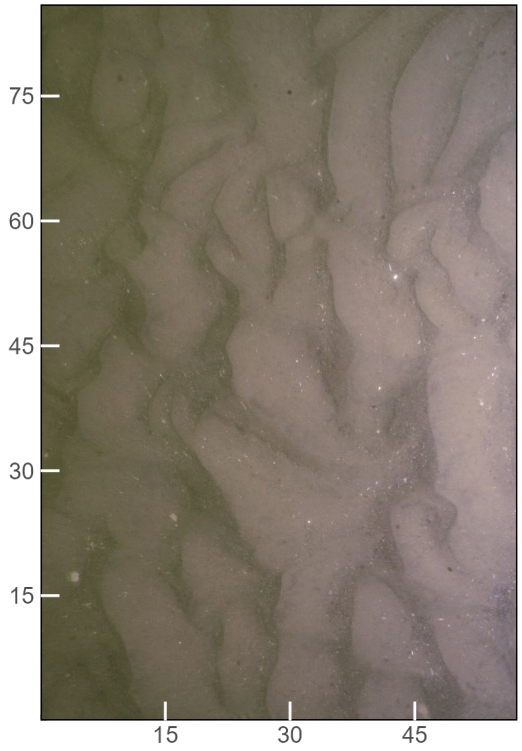
SPC-311-A



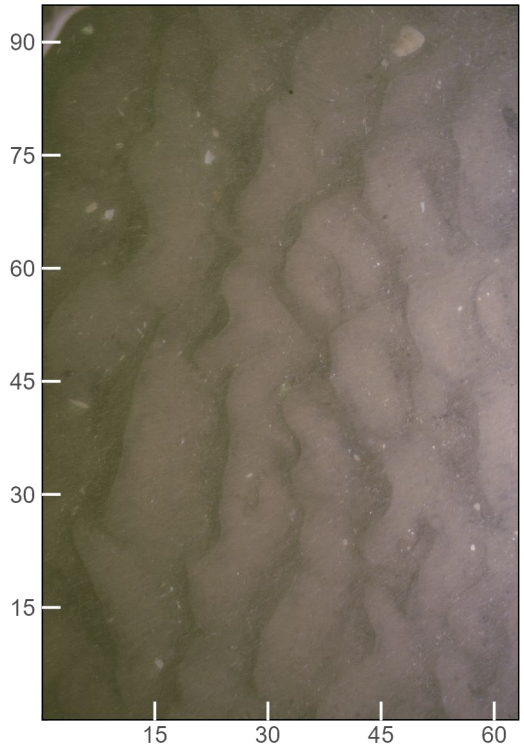
SPC-311-B



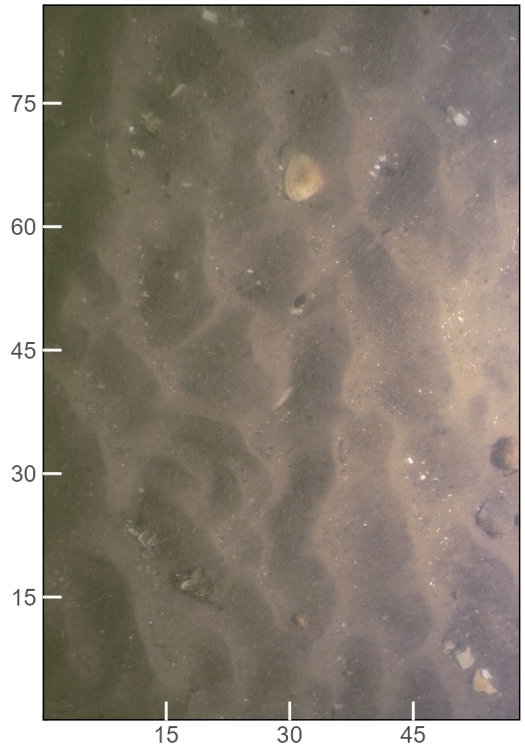
SPC-311-C



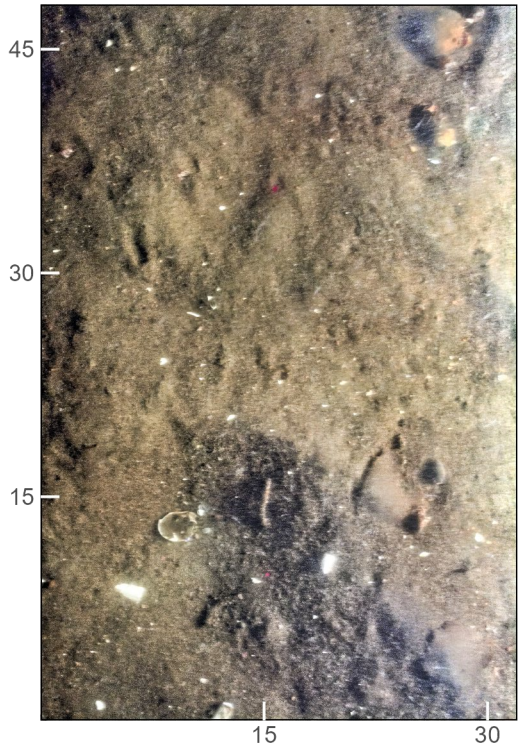
SPGC-312-A



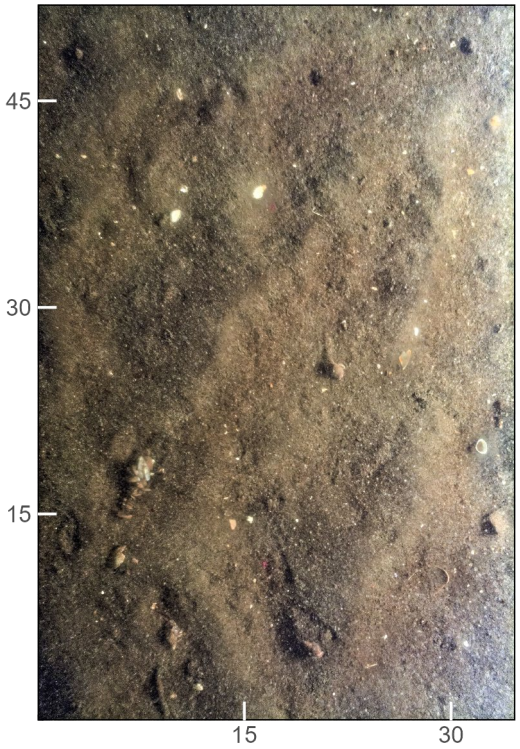
SPGC-312-B



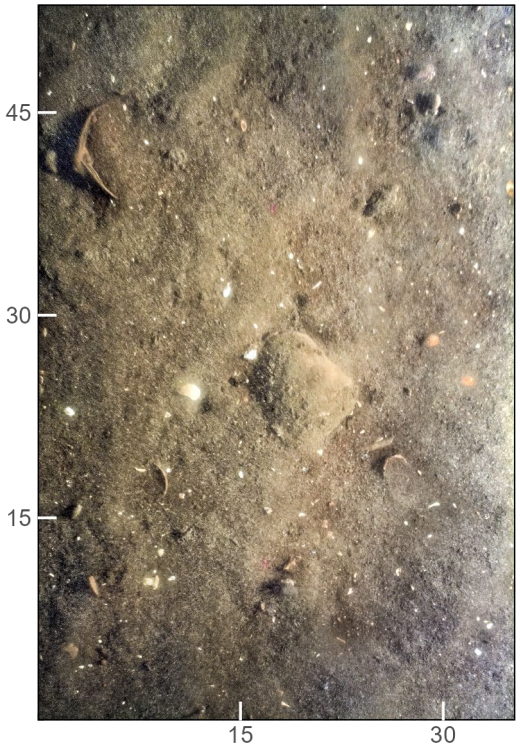
SPGC-312-E



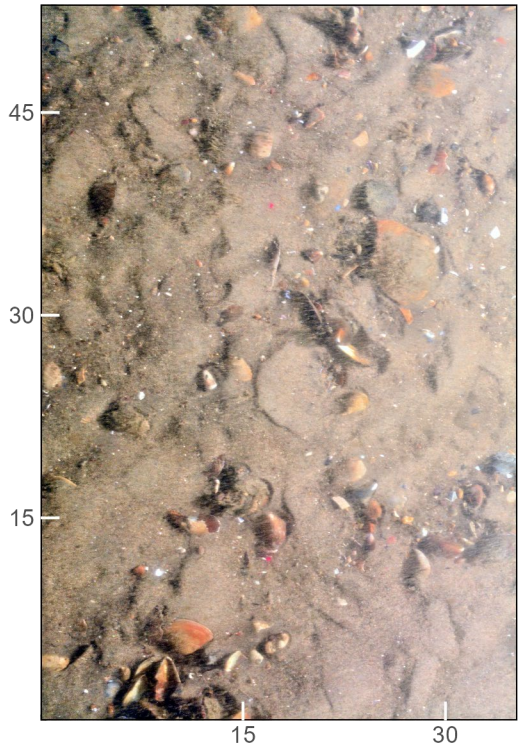
SP-313-C



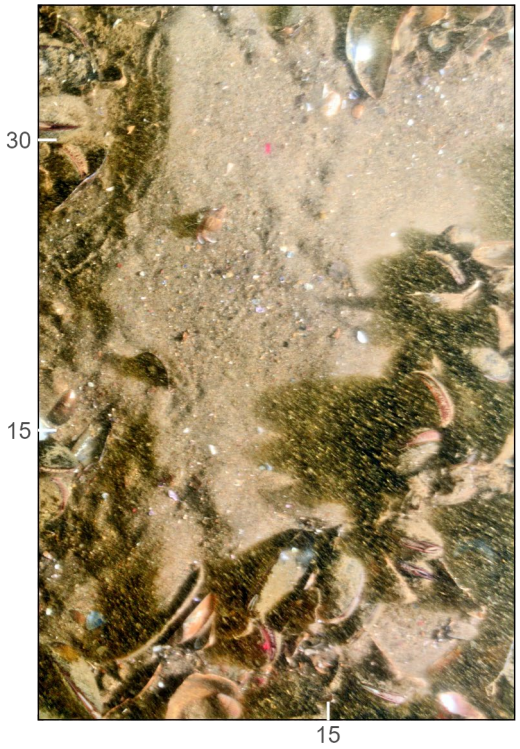
SP-313-D



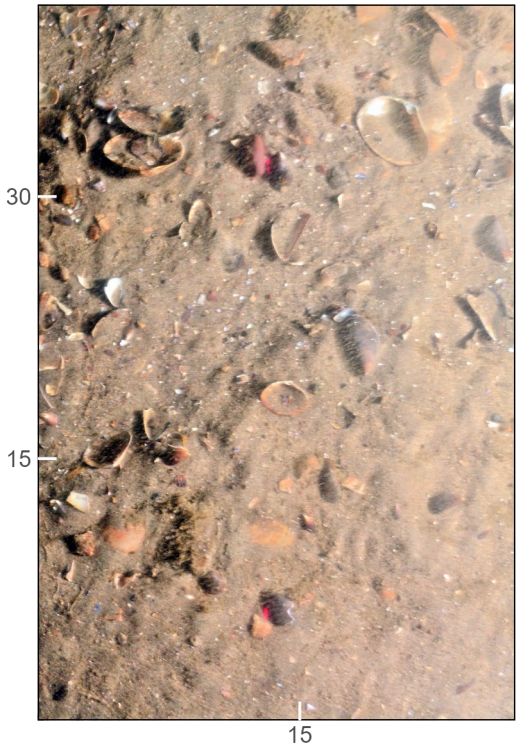
SP-313-E



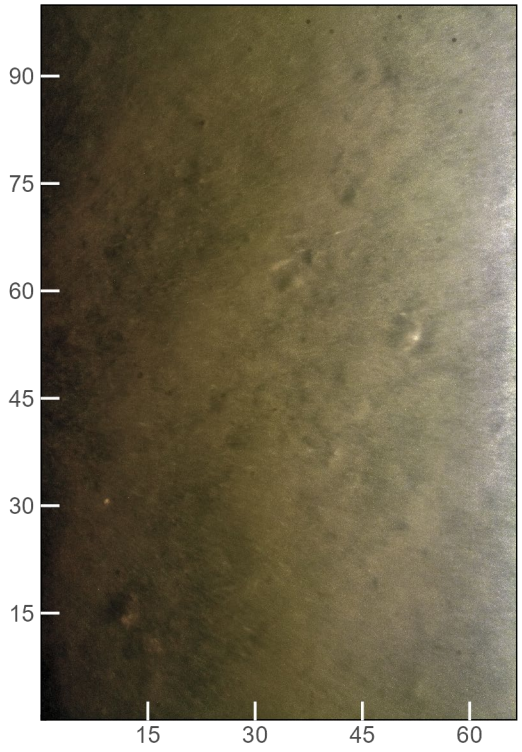
SP-315-A



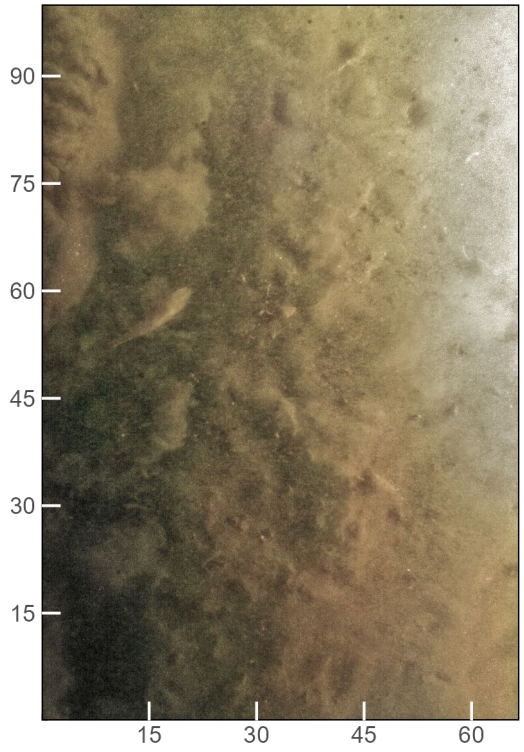
SP-315-C



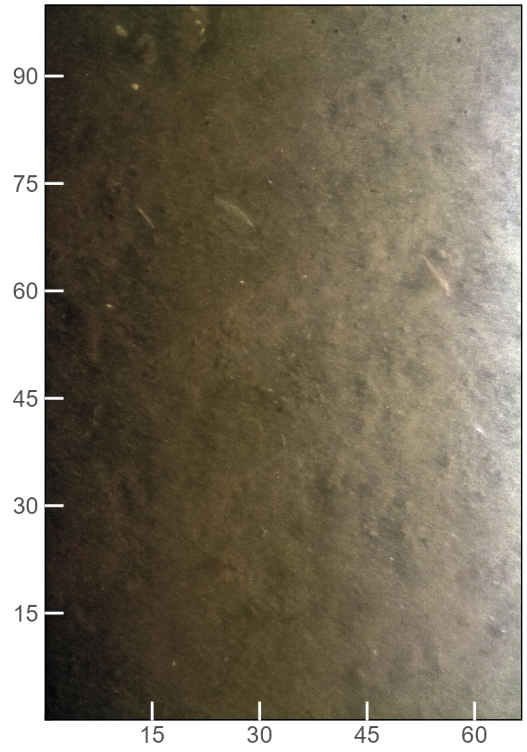
SP-315-D



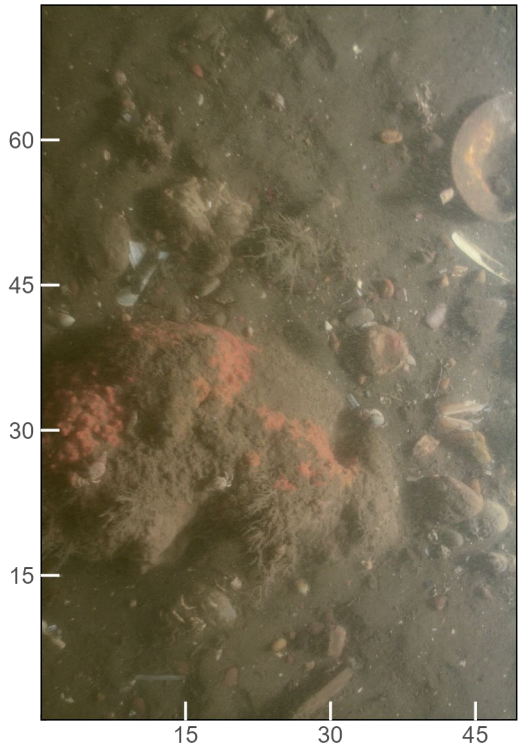
SPGC-316-C



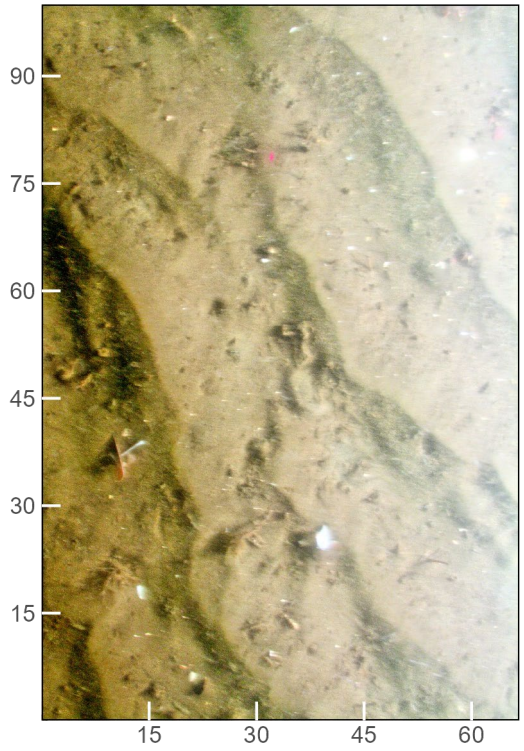
SPGC-316-D



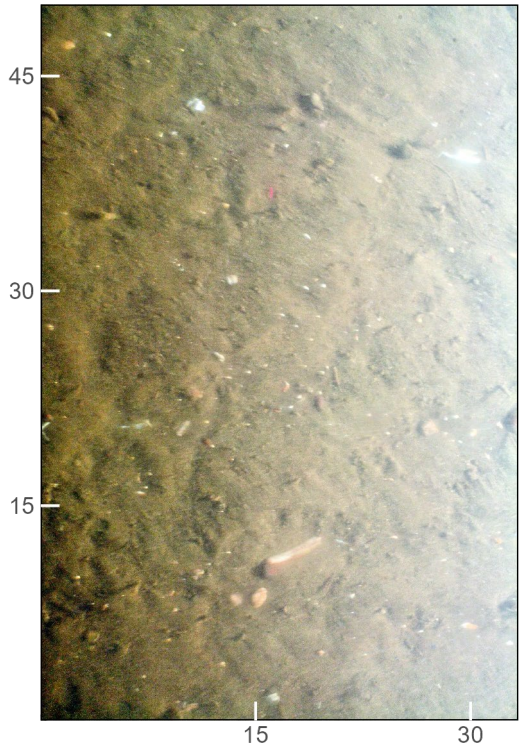
SPGC-316-F



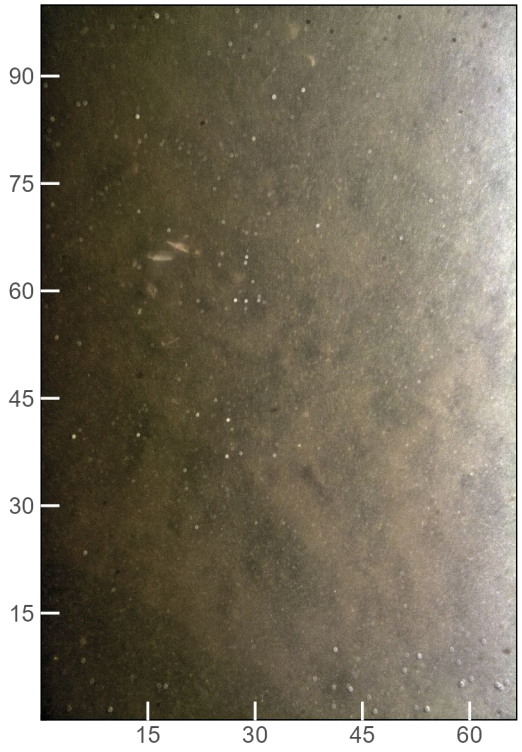
SPC-317-C



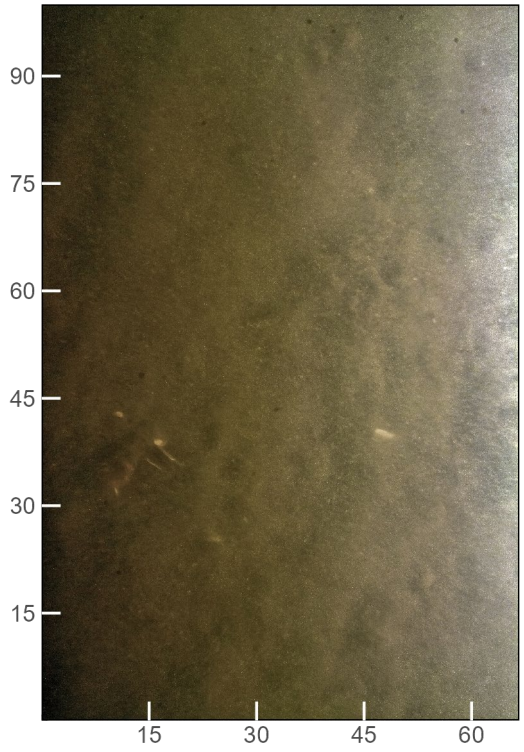
SPC-317-E



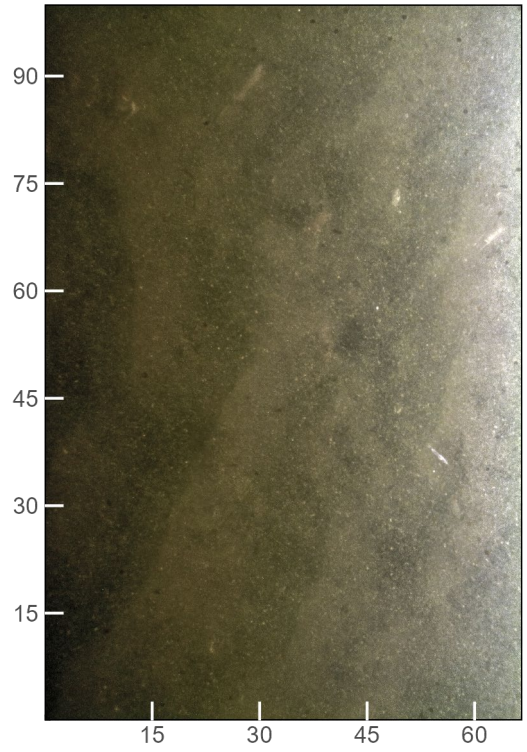
SPC-317-F



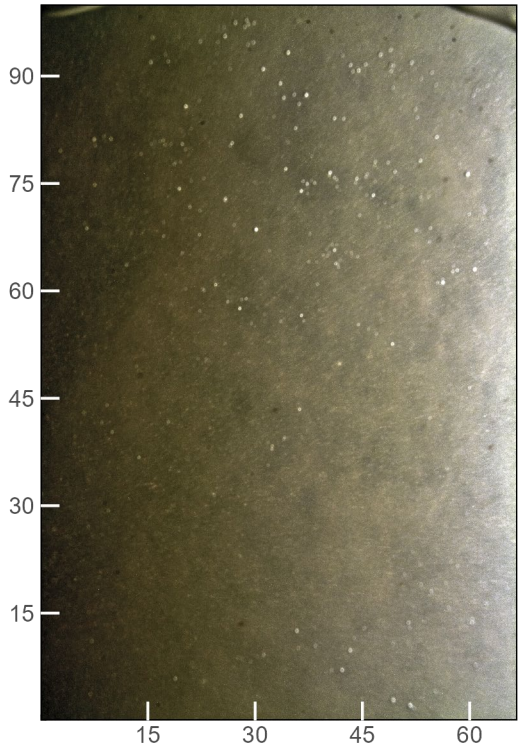
SPC-318-A



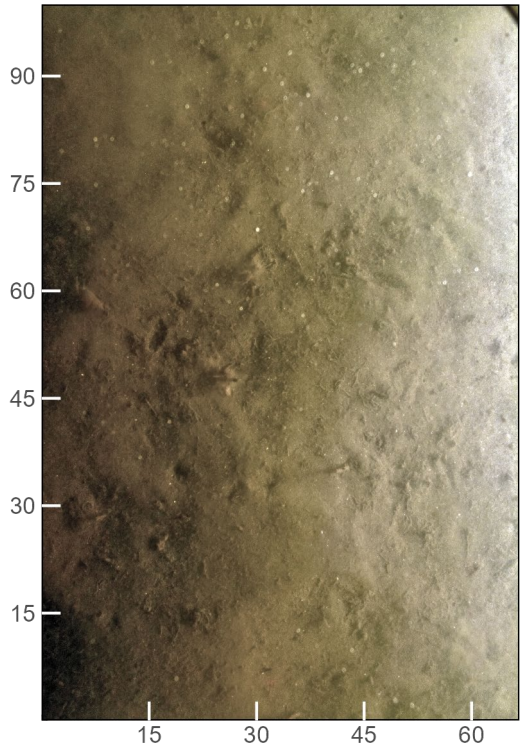
SPC-318-B



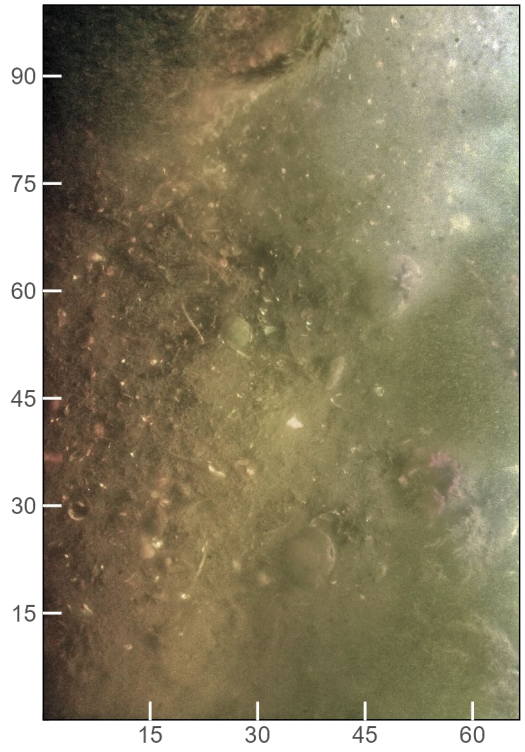
SPC-318-C



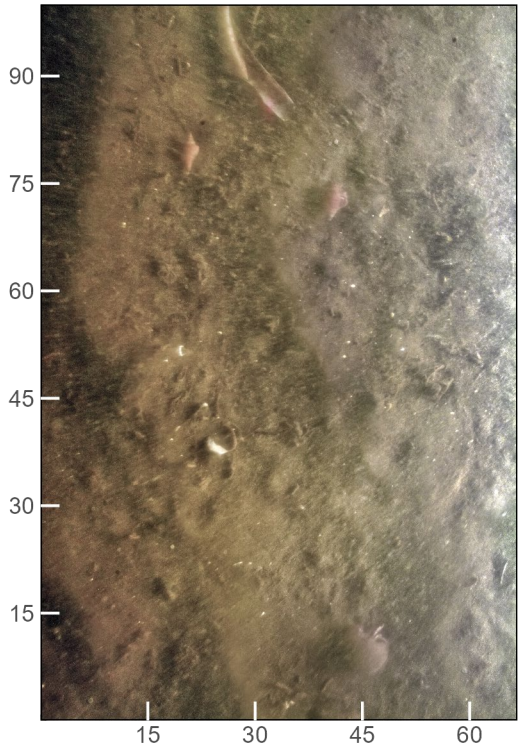
SPC-319-A



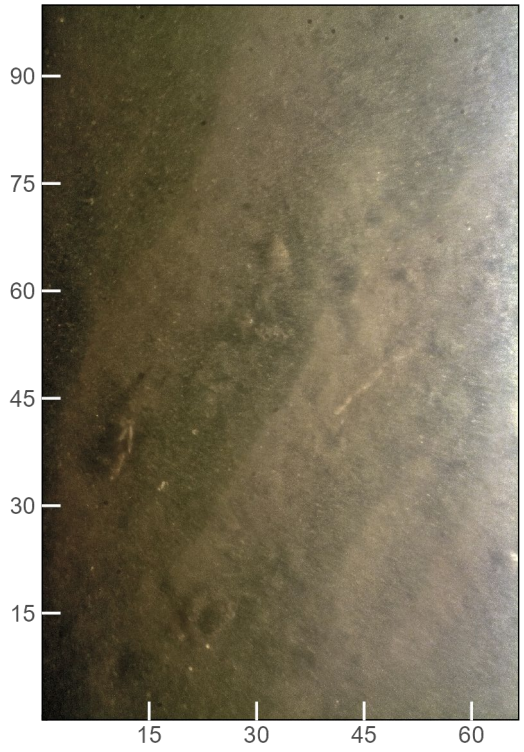
SPC-319-B



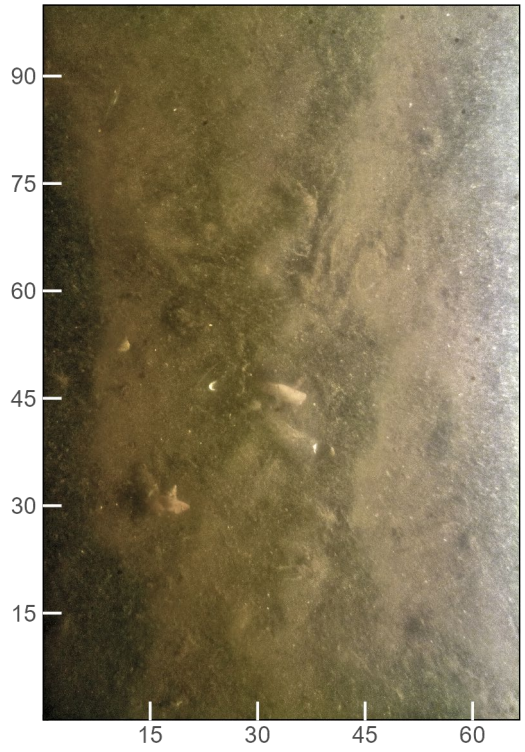
SPC-319-F



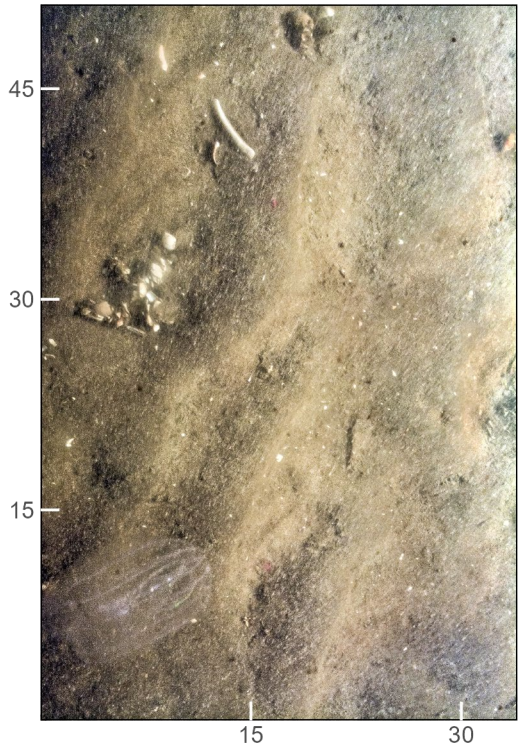
SPC-320-G



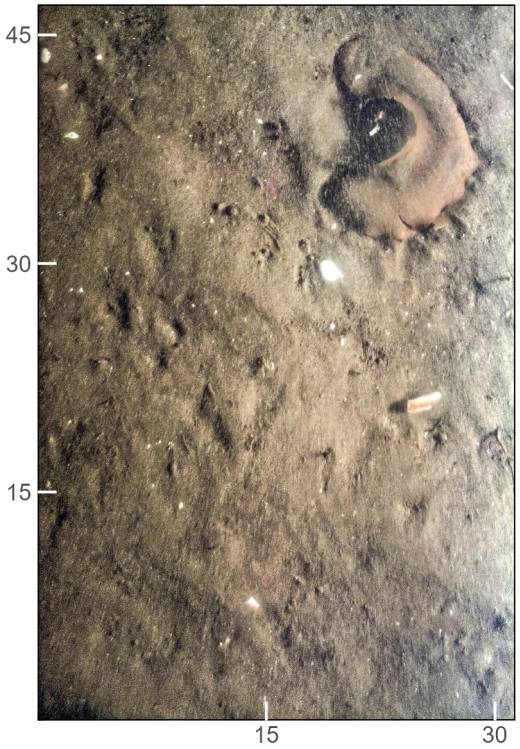
SPC-320-H



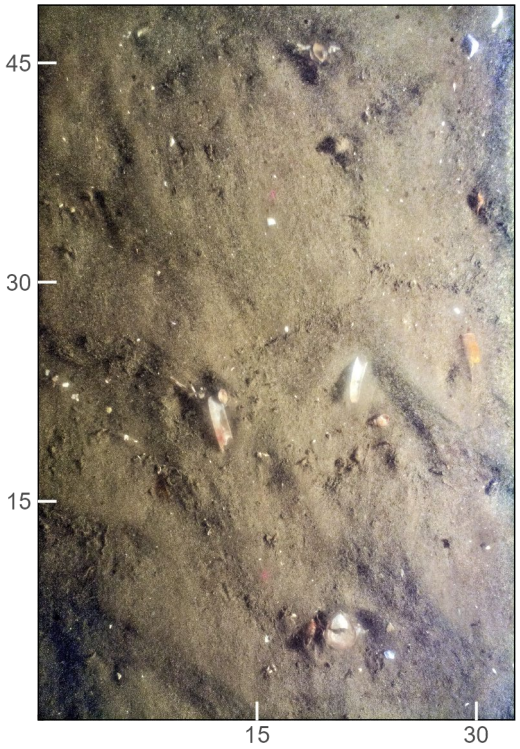
SPC-320-I



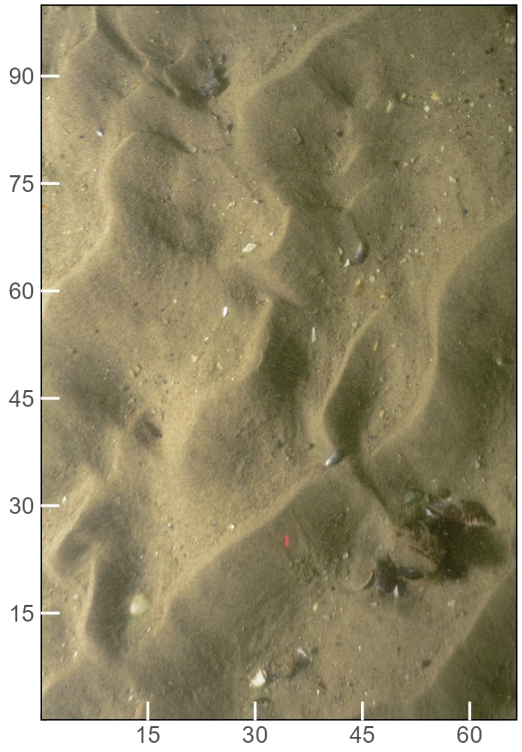
SP-321-A



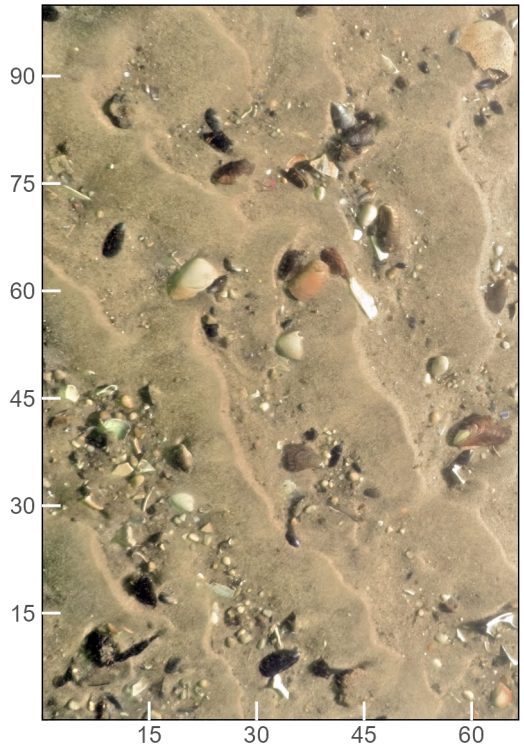
SP-321-B



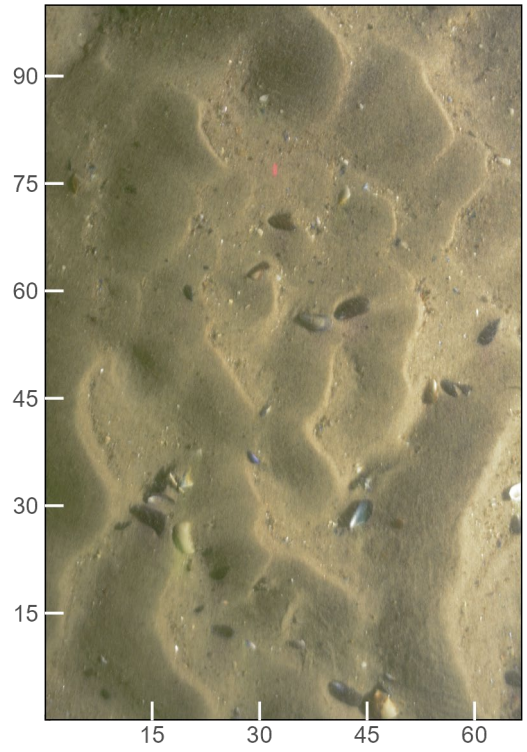
SP-321-C



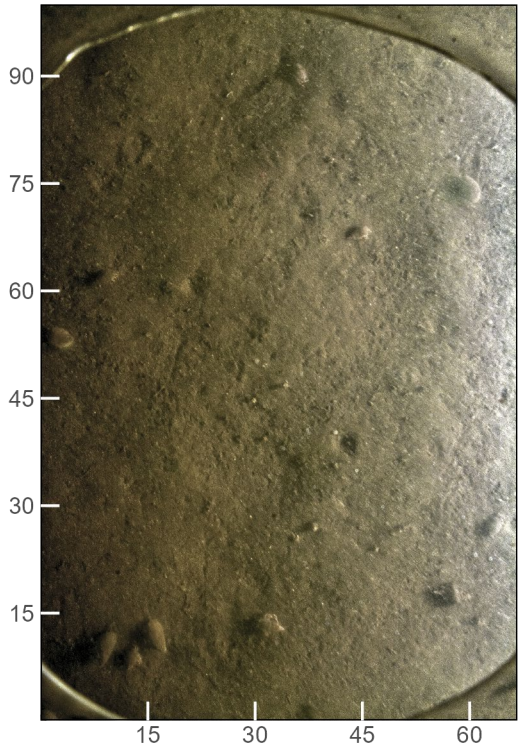
SP-322-B



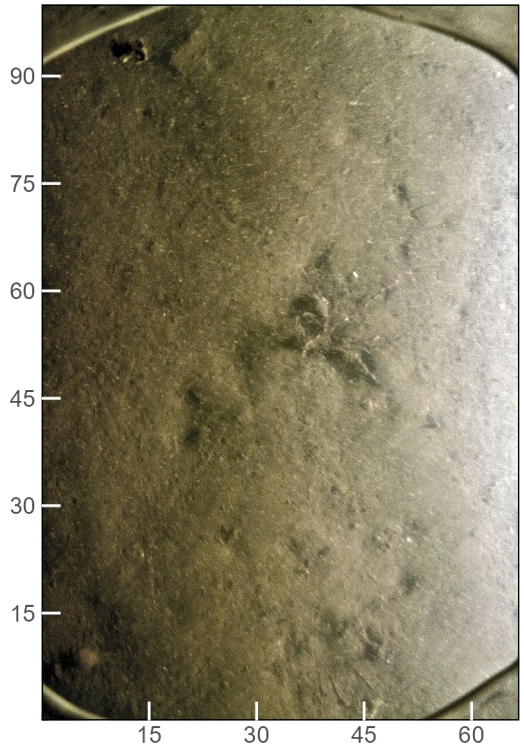
SP-322-D



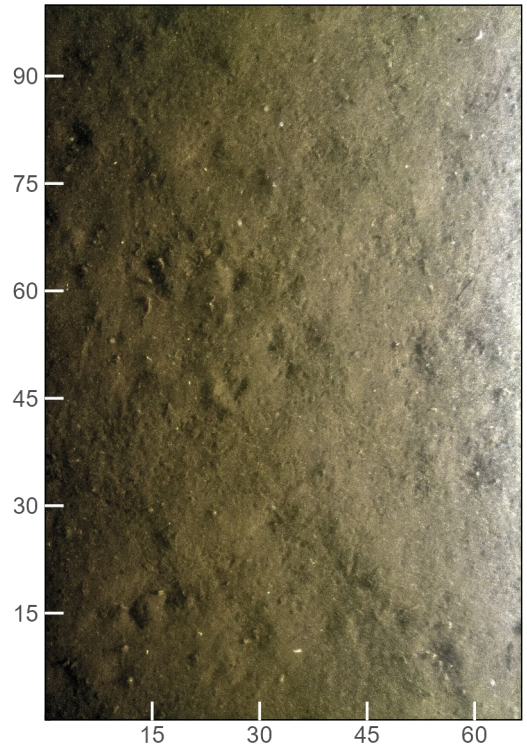
SP-322-E



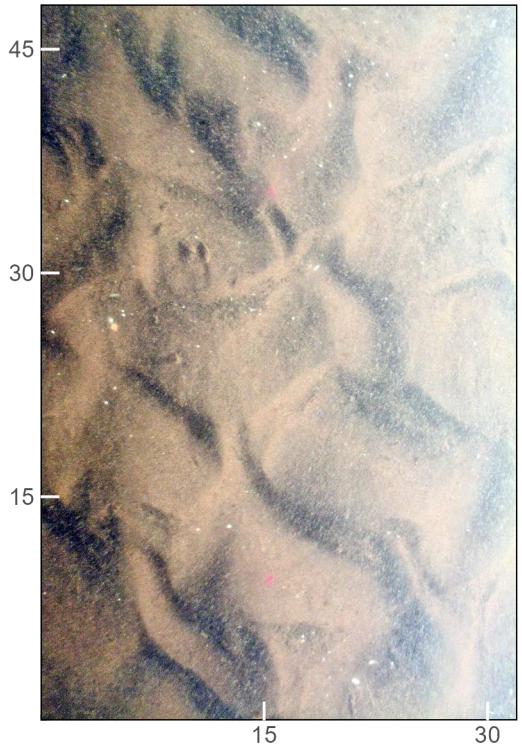
SP-324-A



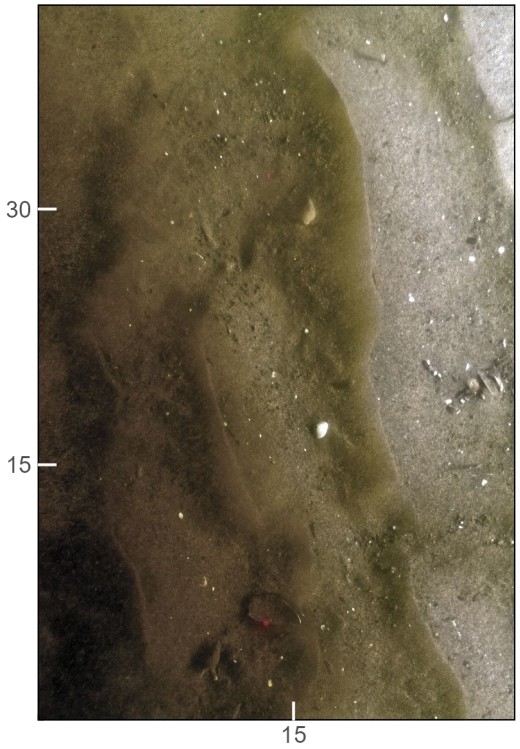
SP-324-B



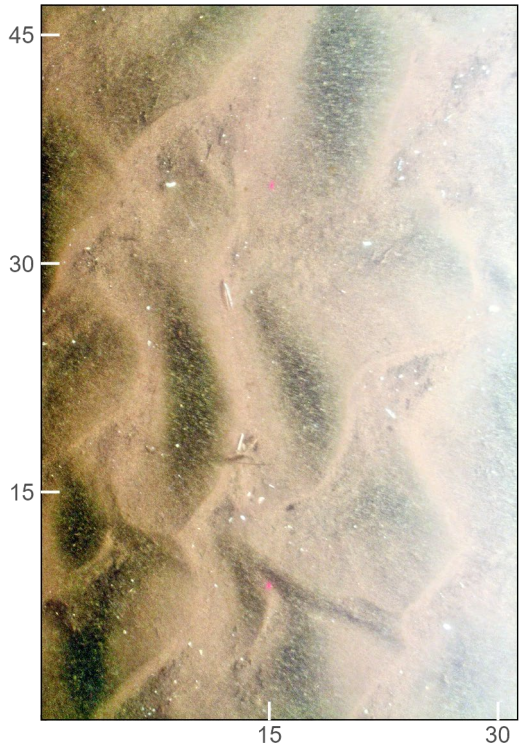
SP-324-D



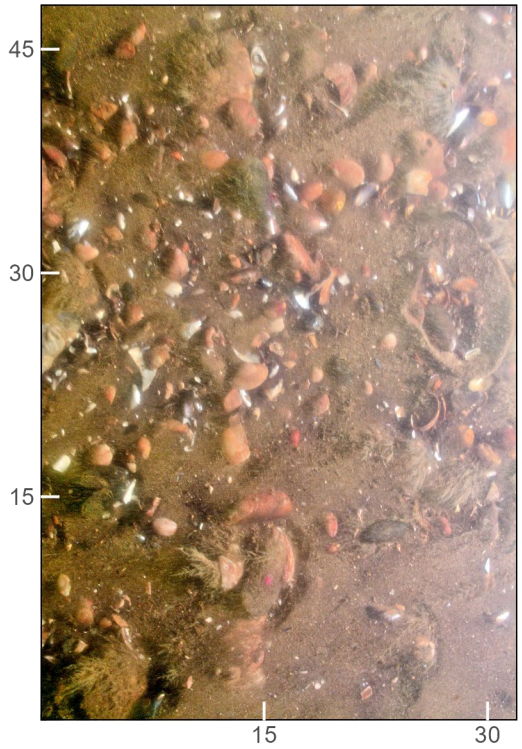
SP-325-A



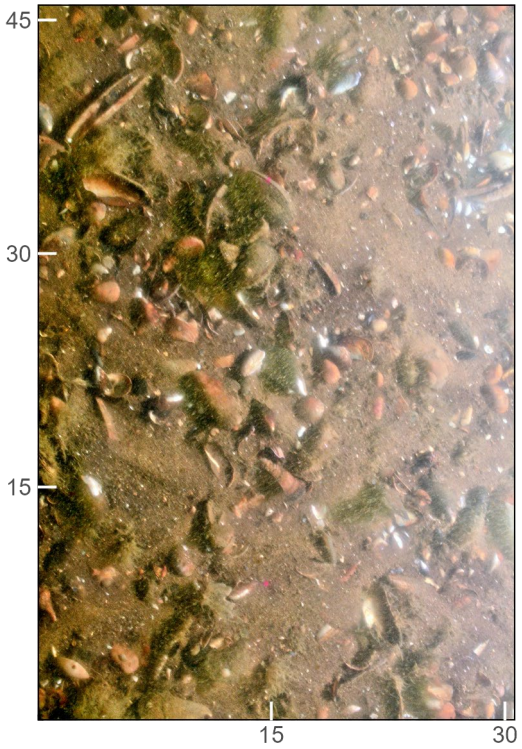
SP-325-D



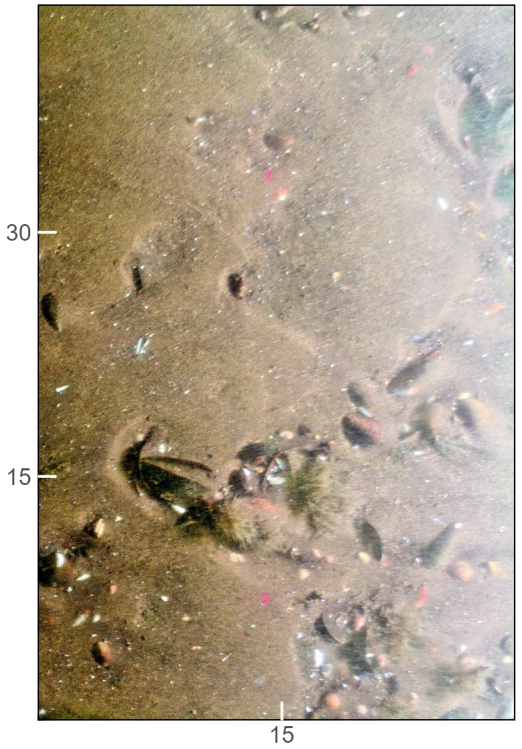
SP-325-F



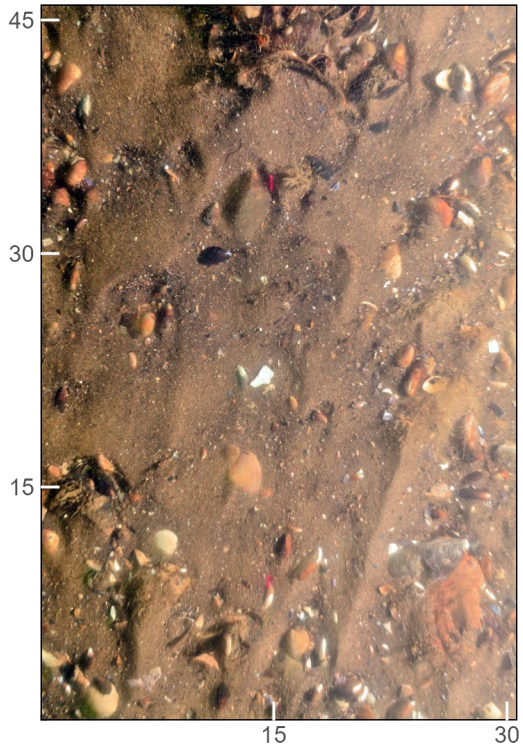
SP-326-A



SP-326-C



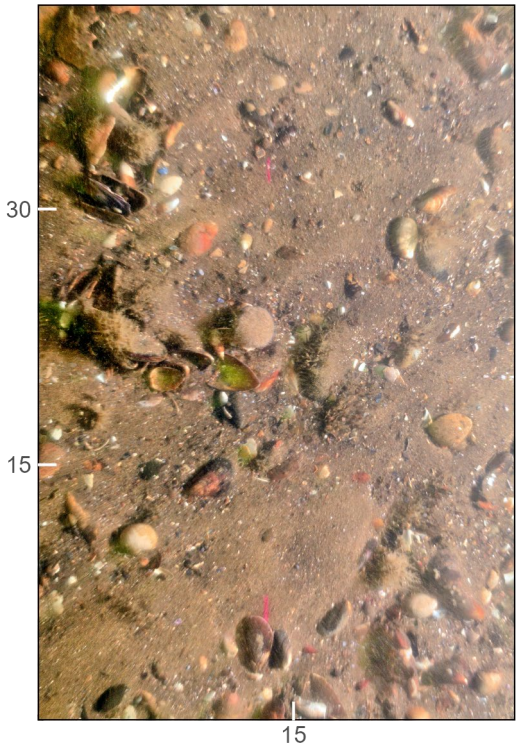
SP-326-E



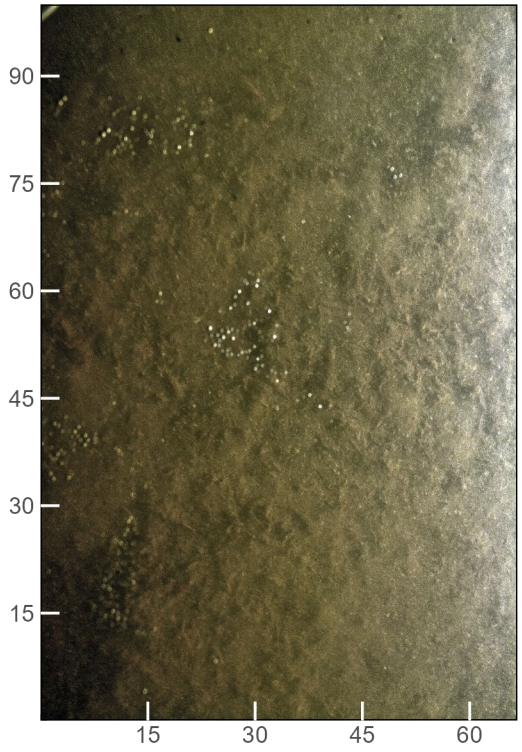
SPG-327-A



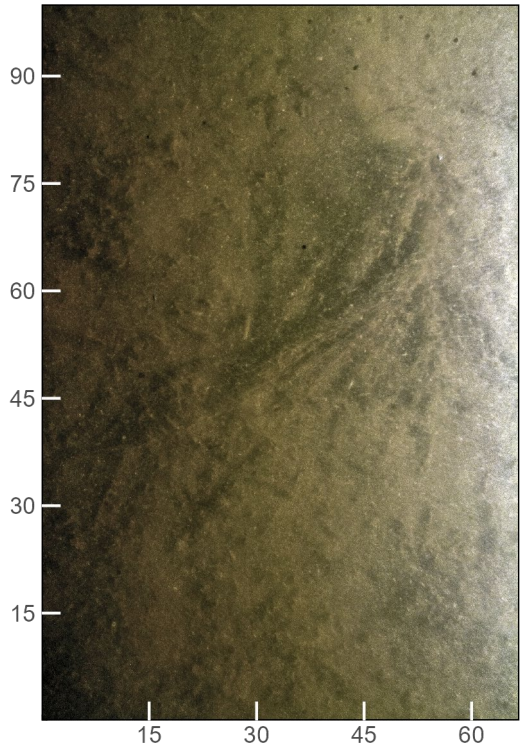
SPG-327-B



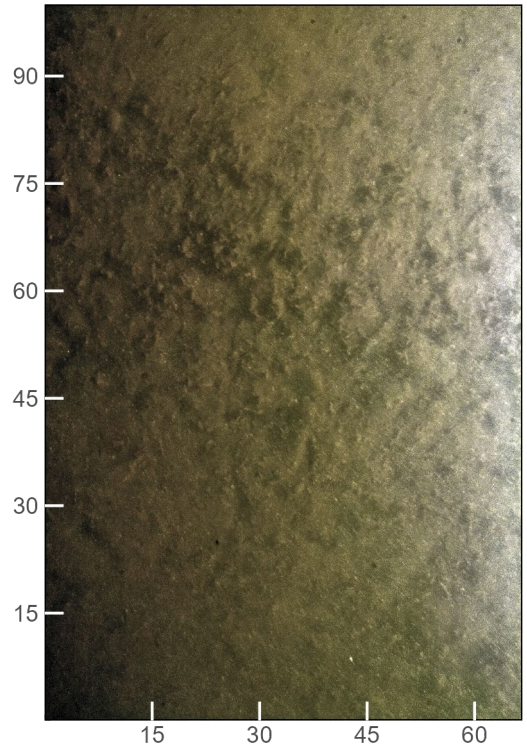
SPG-327-C



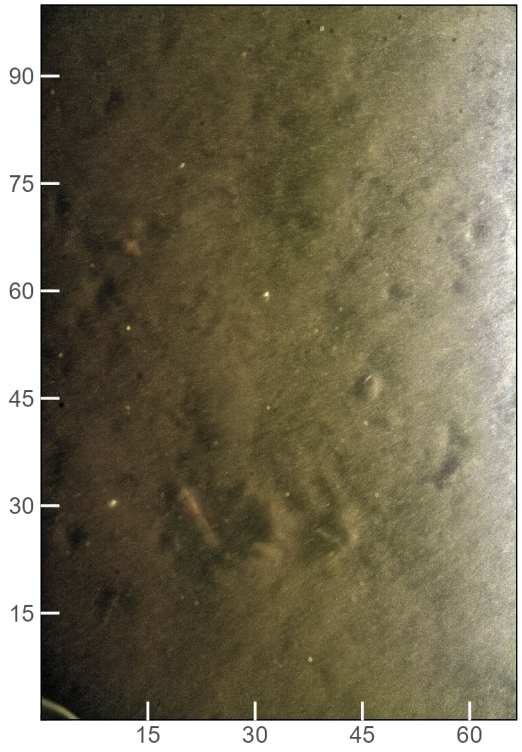
SP-329-A



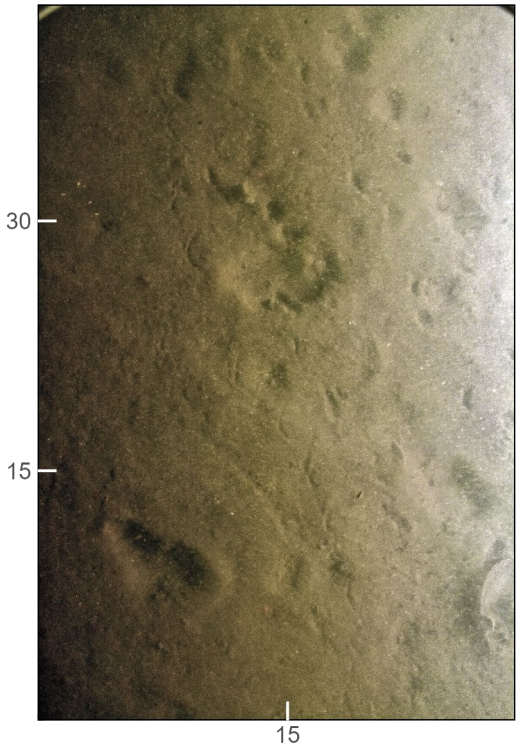
SP-329-B



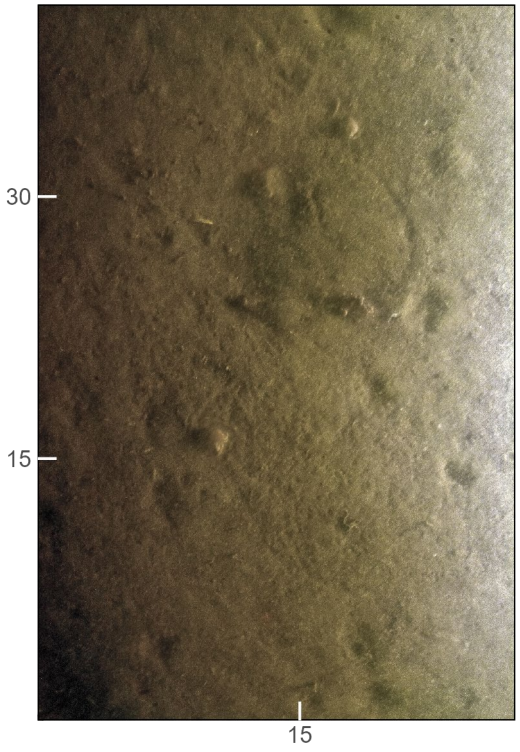
SP-329-C



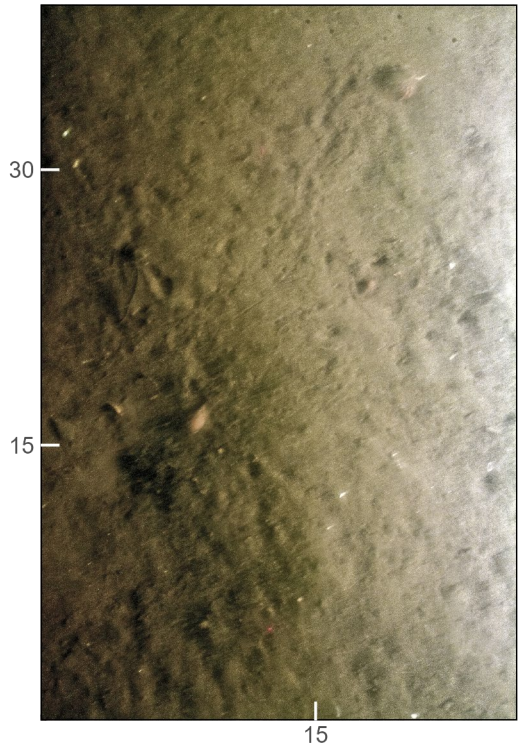
SP-330-A



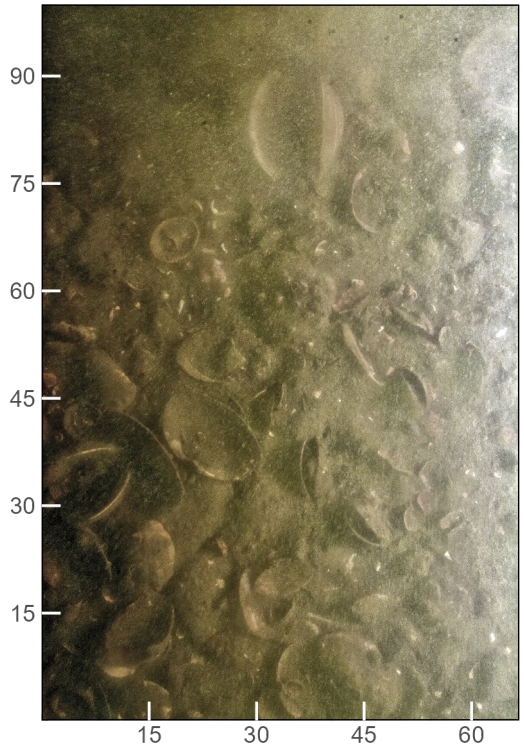
SP-330-B



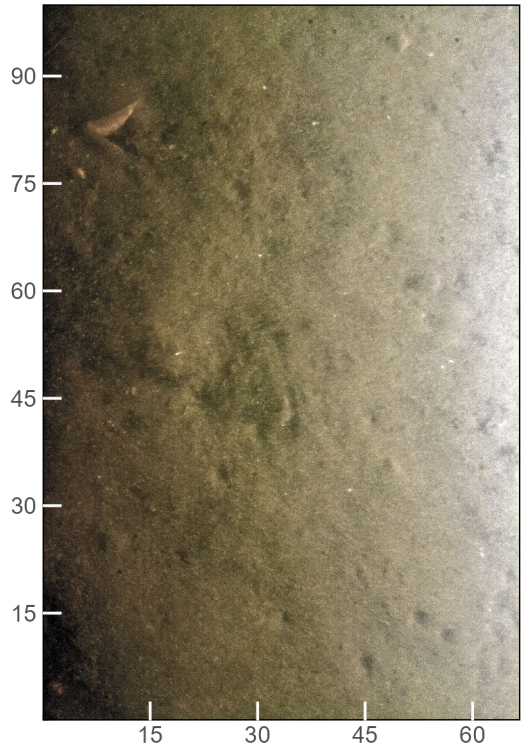
SP-330-D



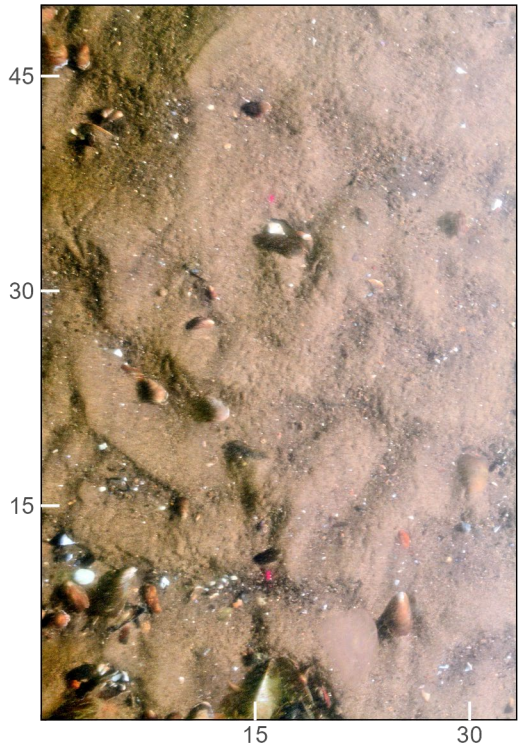
SP-332-A



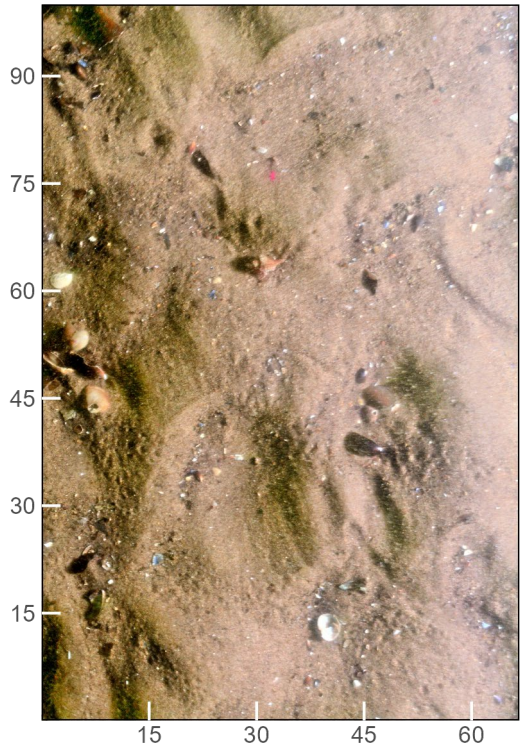
SP-332-D



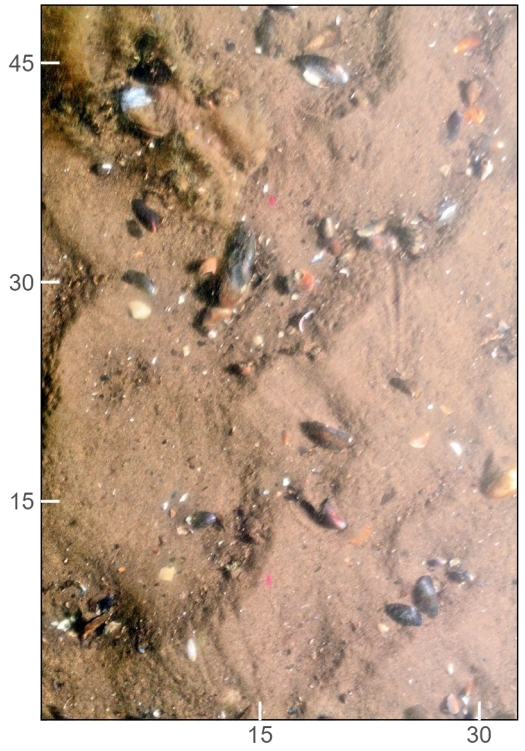
SP-332-H



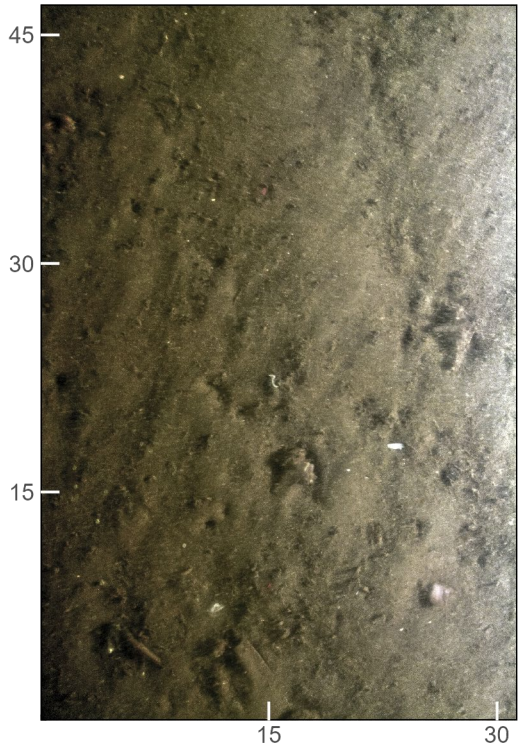
SP-333-A



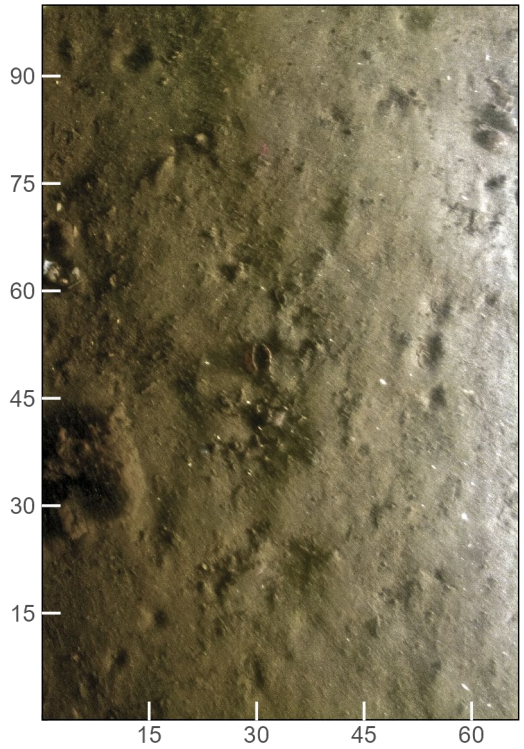
SP-333-B



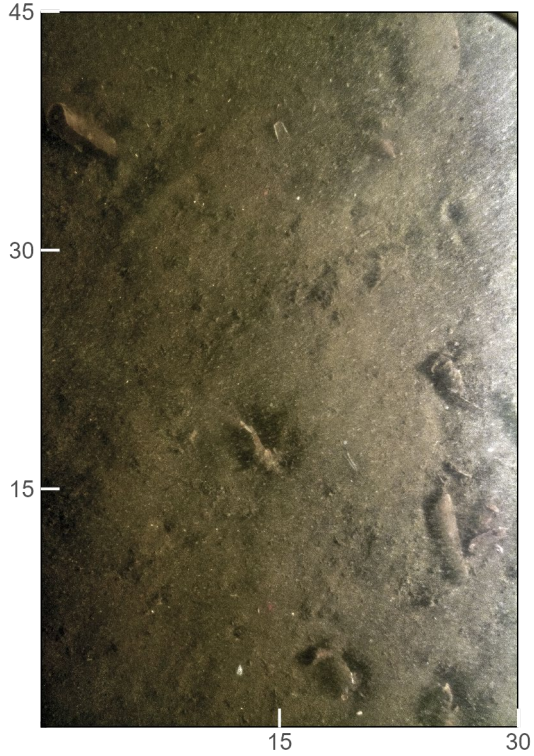
SP-333-D



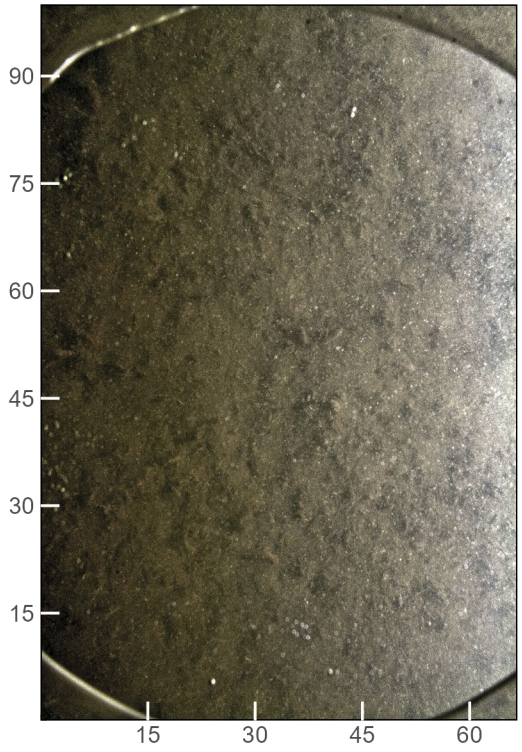
SP-335-A



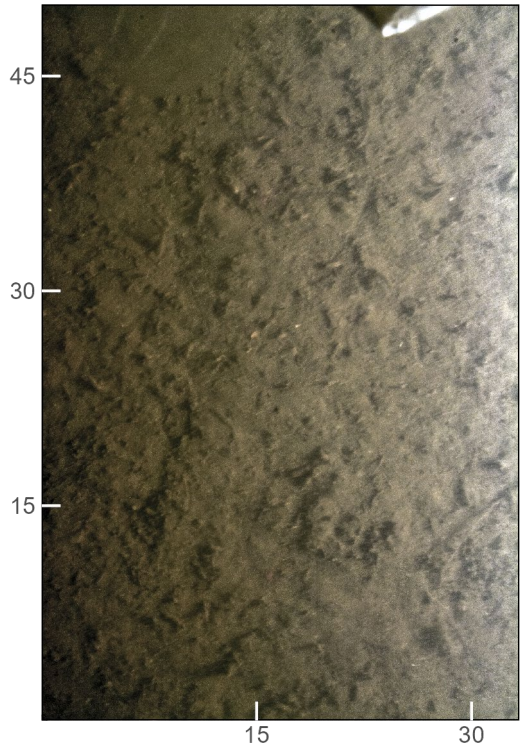
SP-335-B



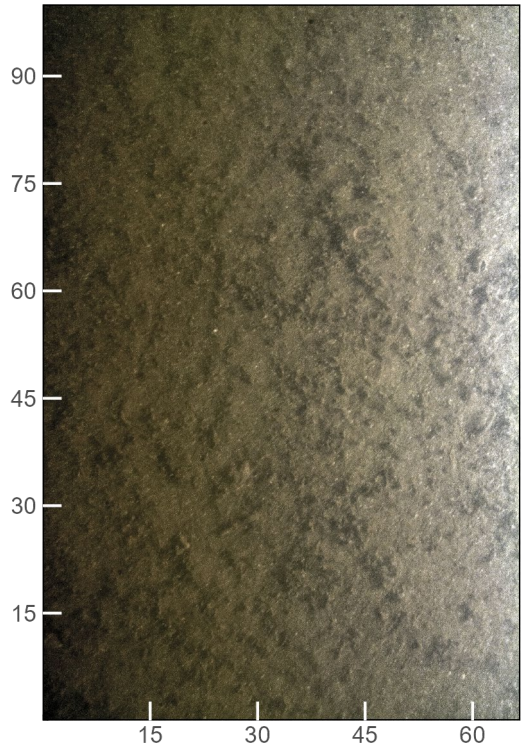
SP-335-G



SP-338-A



SP-338-C



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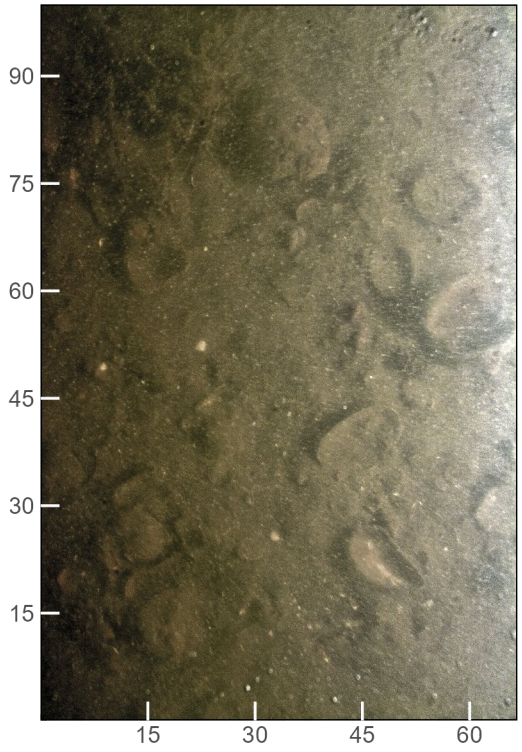
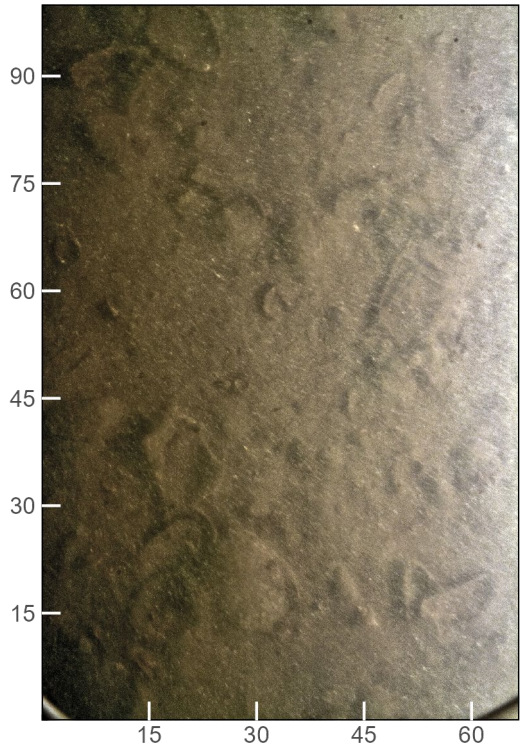
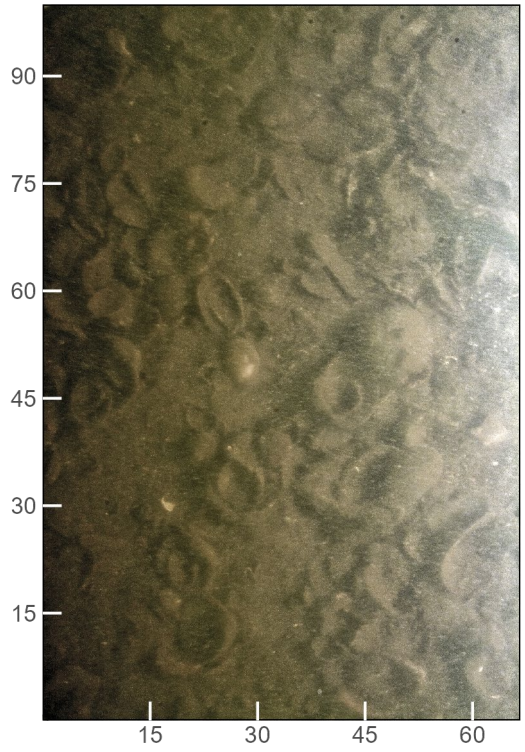


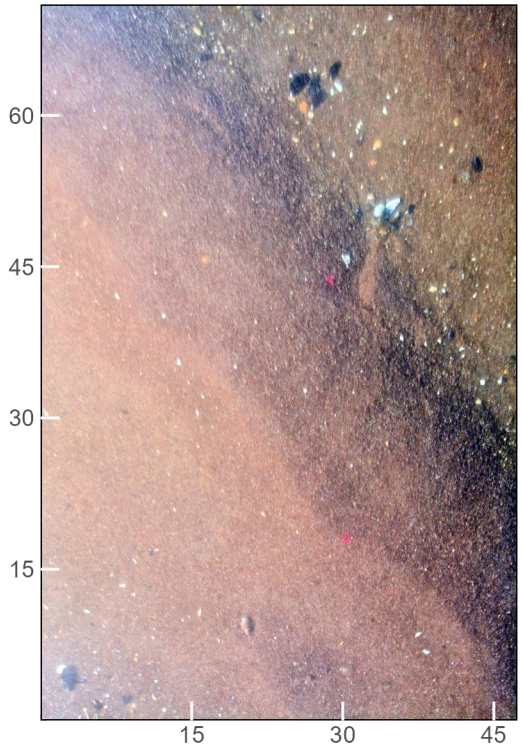
SP-340-A



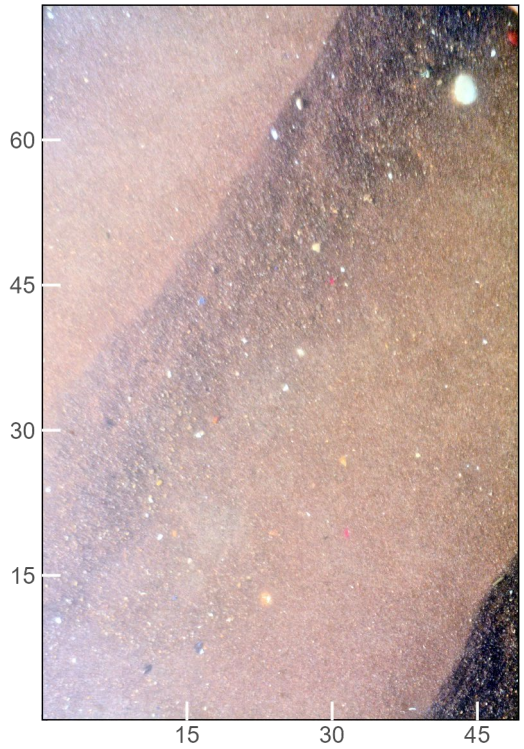
SP-340-B



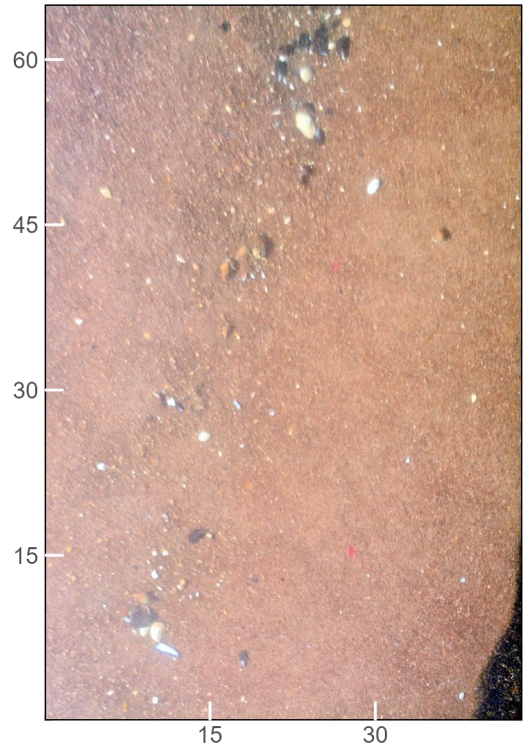
SP-340-D



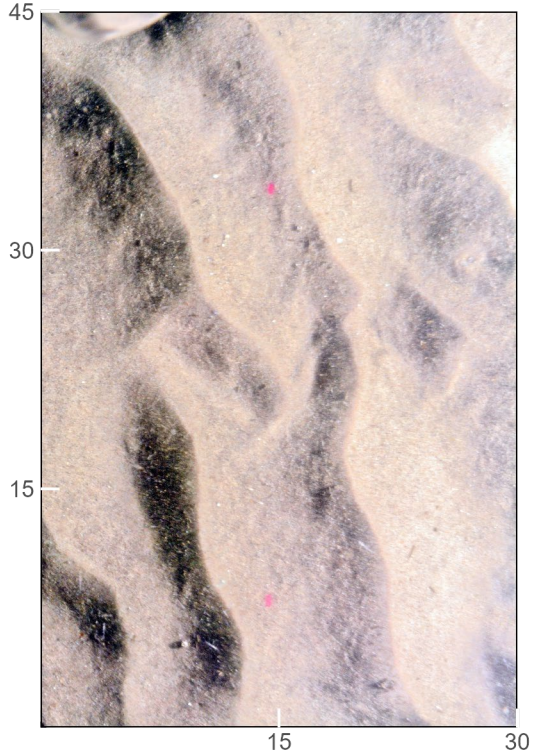
SPG-341-A



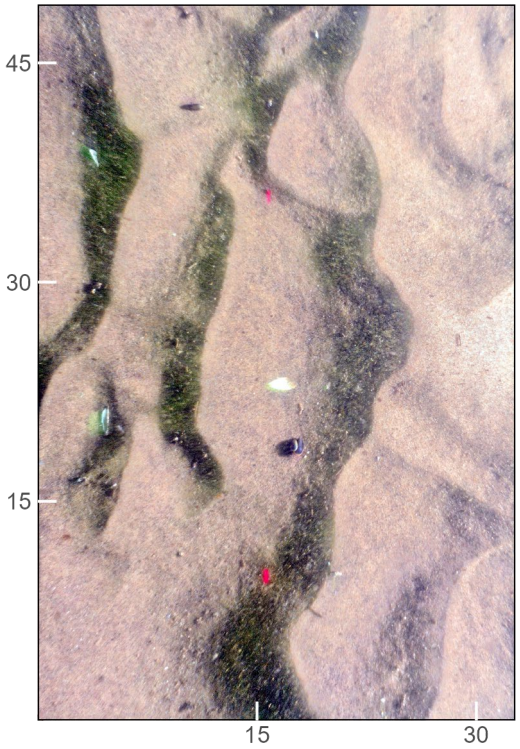
SPG-341-B



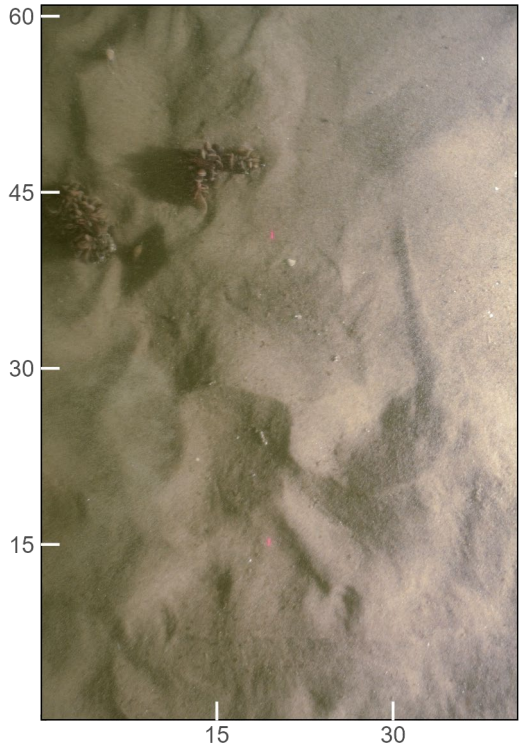
SPG-341-C



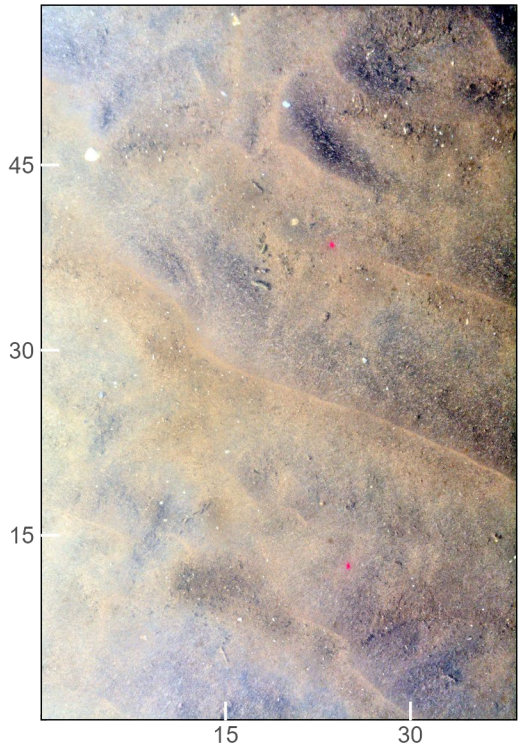
SP-342-A



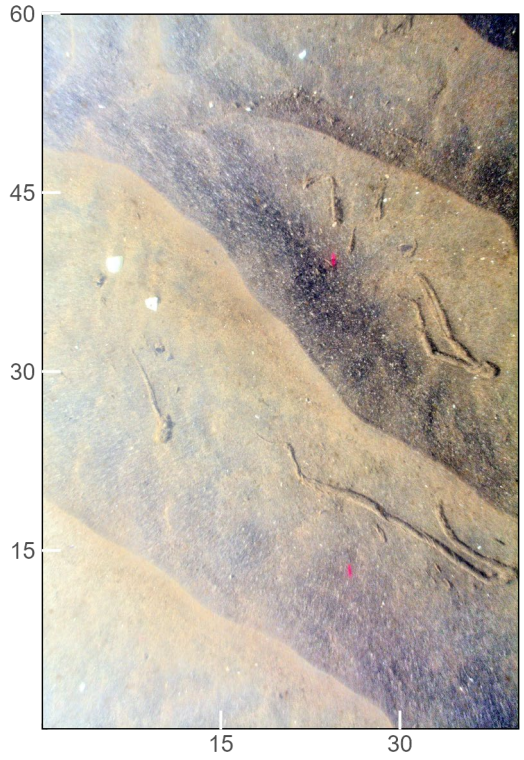
SP-342-D



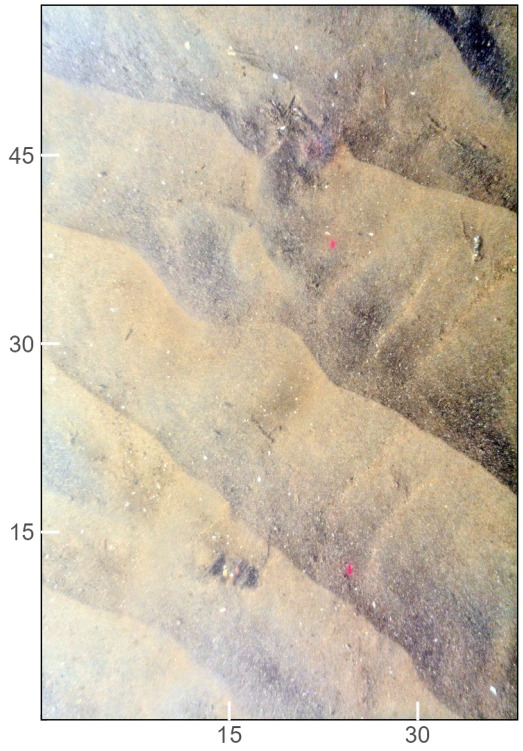
SP-342-F



SP-344-A



SP-344-B



SP-344-C

Appendix C

Sediment Profile Imaging and Plan View Data

- Appendix C1. SPI Data Set
- Appendix C2. PV Image Data Set

Appendix C1

SPI Data Set

Sediment Profile Image Analysis Results, Atlantic Shores Offshore Wind, 2022

Station ID	Replicate	Location	Penetration Depth (cm)	Boundary Roughness (cm)	aRPD Depth (cm)	Grain Size Major Mode (phi units)	Grain Size Maximum (phi units)	Grain Size Minimum (phi units)	CMECS Substrate Group	CMECS Substrate Subgroup	Roughness Origin	Methane Present (Y/N)	*Beggiatoa* Present (Y/N)	Epifauna	Eel Grass	High Contrast aRPD	High Sediment Oxygen Demand	Successional Stage	Comments
ASOW0549-22-OCS-SP-418	A	OCS-A 0549	4.8	2.0	Ind	2-1	-1	3	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Medium sand with coarser particles towards bottom of image.
ASOW0549-22-OCS-SP-418	B	OCS-A 0549	4.9	1.4	Ind	2-1	-1	3	Sand	Medium Sand	P	N	N	NA	None	N	N	Ind	Medium sand with a coarse subfraction.
ASOW0549-22-OCS-SP-418	C	OCS-A 0549	5.5	0.9	Ind	2-1	0	3	Sand	Medium Sand	P	N	N	NA	None	N	N	Ind	Medium sand.
ASOW0549-22-OCS-SP-421	A	OCS-A 0549	4.9	1.1	Ind	2-1	0	3	Sand	Medium Sand	B	N	N	Sand dollar, Hermit crab, Snail	None	N	N	2 -> 3	Medium to coarse sand with relatively large polychaete from mid sediment column to bottom of image.
ASOW0549-22-OCS-SP-421	C	OCS-A 0549	6.3	1.1	Ind	1-0	-2	3	Sand	Very Coarse/Coarse Sand	P	N	N	NA	None	N	N	Ind	Coarse sand with a medium sand subfraction. Few granules/pebbles.
ASOW0549-22-OCS-SP-421	E	OCS-A 0549	5.0	0.6	Ind	2-1	-2	3	Sand	Medium Sand	P	N	N	Hermit crab	None	N	N	Ind	Medium to coarse sand with few isolated pebble/granules and increasing conc. of shell fragments towards the bottom of image.
ASOW0549-22-OCS-SP-422	C	OCS-A 0549	4.3	2.1	Ind	-2 to -3/2-1	-4	3	Gravelly	Gravelly Sand	P	N	N	None	None	N	N	Ind	Pebble/granules along SWI over medium to fine sand mixture.
ASOW0549-22-OCS-SP-422	D	OCS-A 0549	5.0	1.1	2.2	3-2	1	4	Sand	Fine/Very Fine Sand	B	N	N	NA	None	N	N	2 -> 3	Fine sand with many worms at depth. Agglutinating forams on SWI.
ASOW0549-22-OCS-SP-422	E	OCS-A 0549	5.9	1.4	Ind	3-2	1	4	Sand	Fine/Very Fine Sand	P	N	N	Snail	None	N	N	Ind	Fine sand with few shell fragments.
ASOW0549-22-OCS-SP-429	A	OCS-A 0549	4.7	1.2	Ind	1-0	-3	3	Gravelly	Gravelly Sand	P	N	N	Snail	None	N	N	Ind	Coarse sand mixed with medium sand and few granules on surface.
ASOW0549-22-OCS-SP-429	C	OCS-A 0549	3.3	1.2	Ind	1-0	-2	3	Sand	Very Coarse/Coarse Sand	P	N	N	Diopatra	None	N	N	Ind	Coarse sand with fine sand subfraction. Diopatra on surface.
ASOW0549-22-OCS-SP-429	D	OCS-A 0549	6.0	1.3	Ind	2-1	0	3	Sand	Medium Sand	P	N	N	Hermit crab	None	N	N	Ind	Fine sand on surface, trending more coarse at depth.
ASOW0549-22-OCS-SP-430	A	OCS-A 0549	4.7	0.6	Ind	2-1	0	3	Sand	Medium Sand	B	N	N	NA	None	N	N	Ind	Medium sand with shell fragments.
ASOW0549-22-OCS-SP-430	B	OCS-A 0549	7.2	2.7	Ind	2-1/1-0	-1	3	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Rippled medium sand over coarse sand, coarser particles towards bottom of image.
ASOW0549-22-OCS-SP-430	C	OCS-A 0549	6.7	1.1	Ind	2-1	0	3	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Medium sand with a fine sand subfraction.
ASOW0549-22-OCS-SP-431	A	OCS-A 0549	4.0	1.3	Ind	1-0	-3	3	Sand	Very Coarse/Coarse Sand	P	N	N	Snail	None	N	N	Ind	Coarse sand with a granule subfraction towards bottom of image
ASOW0549-22-OCS-SP-431	B	OCS-A 0549	3.6	1.1	Ind	1-0	-3	3	Sand	Very Coarse/Coarse Sand	P	N	N	Hermit crab	None	N	N	Ind	Coarse sand with a medium sand subfraction. Pebbles/granules on the surface. Few shell fragments.
ASOW0549-22-OCS-SP-431	D	OCS-A 0549	7.7	1.2	Ind	2-1	-2	3	Sand	Medium Sand	B	N	N	None	None	N	N	2 -> 3	Medium sand with some coarse sand, trace of gravels. Numerous worms sediment column.
ASOW0549-22-OCS-SP-434	A	OCS-A 0549	5.1	3.3	Ind	-1 to -2	-3	3	Gravel Mixes	Sandy Gravel	P	N	N	None	None	N	N	Ind	Pebble/Granules with some very coarse and fine sands.
ASOW0549-22-OCS-SP-434	C	OCS-A 0549	6.0	1.4	Ind	0 to -1	-2	3	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Very coarse sand with some granules and fine sand intermixed.
ASOW0549-22-OCS-SP-434	D	OCS-A 0549	6.1	1.1	Ind	-1 to -2	-3	3	Gravel Mixes	Sandy Gravel	P	N	N	None	None	N	N	Ind	Granules with very coarse sand and some fine sand. Numerous shell fragments.
ASOW0549-22-OCS-SP-437	A	OCS-A 0549	5.6	2.0	Ind	-1 to -2 and 3-2	-3	3	Gravel Mixes	Sandy Gravel	P	N	N	None	None	N	N	Ind	Pebble/Granules on surface intermixed with fine sand.
ASOW0549-22-OCS-SP-437	B	OCS-A 0549	3.5	0.5	Ind	2-1	-2	3	Sand	Medium Sand	P	N	N	Mussels	None	N	N	Ind	Medium sand intermixed some coarse particles (sand and granules).
ASOW0549-22-OCS-SP-437	C	OCS-A 0549	4.1	2.5	Ind	3-2 and -1 to -2	-3	3	Gravelly	Gravelly Sand	P	N	N	None	None	N	N	Ind	Fine sand mixed with granule/pebbles, appears to be 50/50 mix.
ASOW0549-22-OCS-SP-438	A	OCS-A 0549	9.3	1.9	Ind	0 to -1	-3	3	Gravelly	Gravelly Sand	P	N	N	None	None	N	N	Ind	Very coarse sand and some granules mixed with fine sand. Layer of granules on surface.
ASOW0549-22-OCS-SP-438	D	OCS-A 0549	7.3	1.1	Ind	1-0	-2	3	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Very coarse sand with a finer subfraction and numerous shell fragments.
ASOW0549-22-OCS-SP-438	E	OCS-A 0549	6.2	0.6	Ind	2-1	-1	3	Sand	Medium Sand	B	N	N	None	None	N	N	Ind	Medium to coarse sand with few shell fragments. Possible sand clasts and/or agglutinating forams along SWI.
ASOW0549-22-OCS-SP-439	B	OCS-A 0549	6.2	4.7	Ind	0 to -1	-2	3	Gravelly	Gravelly Sand	P	N	N	None	None	N	N	Ind	Very coarse sand with some granules along SWI. Few shell fragments and possible agglutinating forams on surface in background.
ASOW0549-22-OCS-SP-439	C	OCS-A 0549	8.7	0.5	Ind	1-0	-3	4	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	3	Very coarse to coarse sand, with coarser particles intermixed.
ASOW0549-22-OCS-SP-439	E	OCS-A 0549	7.3	1.8	Ind	2-1	-2	3	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Coarse to medium sand with shell hash. Trace of granules towards bottom of image.
ASOW0549-22-OCS-SP-442	A	OCS-A 0549	6.5	0.7	Ind	-1 to -2/1-0	-3	3	Gravelly	Gravelly Sand	P	N	N	None	None	N	N	Ind	Layer of granules along SWI above coarse sand.
ASOW0549-22-OCS-SP-442	B	OCS-A 0549	7.7	4.4	Ind	-1 to -2/1-0	-3	3	Gravelly	Gravelly Sand	P	N	N	None	None	N	N	Ind	Pebble/granules atop coarse to medium sand.
ASOW0549-22-OCS-SP-442	C	OCS-A 0549	5.0	1.8	Ind	1-0	-2	2	Gravelly	Gravelly Sand	P	N	N	Hermit crab	None	N	N	2 -> 3	Coarse to medium sand with some granules on the surface. Two worms at depth.
ASOW0549-22-OCS-SP-443	A	OCS-A 0549	5.4	1.9	Ind	1-0	-2	3	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Coarse to medium sand with granules towards the bottom of image. Forams on SWI.
ASOW0549-22-OCS-SP-443	C	OCS-A 0549	4.8	1.0	Ind	2-1	0	3	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Medium sand with shell fragments and snail shell on surface.
ASOW0549-22-OCS-SP-443	E	OCS-A 0549	6.3	2.9	Ind	-1 to -2/1-0	-3	2	Gravelly	Gravelly Sand	P	N	N	None	None	N	N	Ind	Pebble/granules along SWI above coarse sand. Shell fragments.
ASOW0549-22-OCS-SP-444	A	OCS-A 0549	6.5	1.8	Ind	1-0	-1	4	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Coarse sand with shell fragments and trace of fines.
ASOW0549-22-OCS-SP-444	B	OCS-A 0549	5.2	1.6	Ind	1-0	-3	2	Sand	Very Coarse/Coarse Sand	P	N	N	Hermit crab	None	N	N	Ind	Coarse sand with few granules and shell fragments.
ASOW0549-22-OCS-SP-444	C	OCS-A 0549	5.3	2.8	Ind	1-0	-1	2	Sand	Very Coarse/Coarse Sand	B	N	N	Sand dollar	None	N	N	Ind	Very coarse sand with sand dollars along SWI.
ASOW0549-22-OCS-SP-445	A	OCS-A 0549	5.4	4.6	Ind	0 to -1	-2	3	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Very coarse to coarse sand. Image captured slope of ripple.
ASOW0549-22-OCS-SP-445	B	OCS-A 0549	4.5	1.6	Ind	1-0	-2	3	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Very coarse sand with some granules. Moderate amount of shell fragments.
ASOW0549-22-OCS-SP-445	E	OCS-A 0549	8.0	1.6	Ind	1-0	-2	3	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Rippled coarse to very coarse sand with a band of medium to fine sand in middle of sediment profile.
ASOW0549-22-OCS-SP-447	A	OCS-A 0549	6.2	1.1	Ind	0 to -1	-2	3	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Layer of gravel (1 cm) over very coarse sand with a fine sand subfraction. Sand clasts on SWI.
ASOW0549-22-OCS-SP-447	C	OCS-A 0549	7.5	2.2	Ind	0 to -1	-2	3	Gravelly	Gravelly Sand	P	N	N	None	None	N	N	Ind	Very coarse sand and gravel with a fine sand subfraction.
ASOW0549-22-OCS-SP-447	D	OCS-A 0549	5.9	3.5	Ind	-1 to -2	-2	4	Gravel Mixes	Sandy Gravel	P	N	N	Hermit crab	None	N	N	Ind	Layer of gravels and very coarse sand (3 cm) with trace very fine sand to silt intermixed.
ASOW0549-22-OCS-SP-449	B	OCS-A 0549	5.5	4.3	Ind	2-1	-3	3	Gravelly	Gravelly Sand	P	N	N	Diopatra	None	N	N	Ind	Medium sand with very coarse sand subfraction and some gravel. Image bisected near crest of ripple.
ASOW0549-22-OCS-SP-449	C	OCS-A 0549	3.2	1.1	Ind	1-0	-2	4	Sand	Very Coarse/Coarse Sand	P	N	N	Hermit crab	None	N	N	Ind	Coarse and medium sand with few granules. Flocculant material on surface.
ASOW0549-22-OCS-SP-449	D	OCS-A 0549	3.7	1.0	Ind	2-1	-2	3	Sand	Medium Sand	P	N	N	Sand dollar, Diopatra	None	N	N	Ind	Medium to coarse sand with few granules and shell fragments.

Sediment Profile Image Analysis Results, Atlantic Shores Offshore Wind, 2022

Station ID	Replicate	Location	Penetration Depth (cm)	Boundary Roughness (cm)	aRPD Depth (cm)	Grain Size Major Mode (phi units)	Grain Size Maximum (phi units)	Grain Size Minimum (phi units)	CMECS Substrate Group	CMECS Substrate Subgroup	Roughness Origin	Methane Present (Y/N)	*Beggiatoa* Present (Y/N)	Epifauna	Eel Grass	High Contrast aRPD	High Sediment Oxygen Demand	Successional Stage	Comments
ASOW0549-22-OCS-SP-450	A	OCS-A 0549	5.4	1.0	Ind	2-1	0	>4	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Medium to coarse sand with veneer of silt, primarily on surface.
ASOW0549-22-OCS-SP-450	D	OCS-A 0549	4.8	2.0	Ind	1-0	-3	3	Gravelly	Gravelly Sand	P	N	N	Diopatra	None	N	N	Ind	Coarse to medium sand with few pebbles and granules. Diopatra on surface. Worm at depth.
ASOW0549-22-OCS-SP-450	E	OCS-A 0549	6.0	1.1	Ind	1-0	-2	3	Gravelly	Gravelly Sand	P	N	N	None	None	N	N	Ind	Coarse sand with gravel towards bottom of image and some on SWI, some shell hash.
ASOW0549-22-OCS-SP-455	A	OCS-A 0549	7.2	1.0	Ind	1-0	-2	3	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Coarse to very coarse sand trending more coarse towards bottom of image. Gravel on surface and trace at depth.
ASOW0549-22-OCS-SP-455	D	OCS-A 0549	6.4	3.6	Ind	-1 to -2/1-0	-3	3	Gravel Mixes	Sandy Gravel	P	N	N	None	None	N	N	Ind	Layer of granules on SWI atop coarse sand, trace of shell hash
ASOW0549-22-OCS-SP-455	E	OCS-A 0549	6.7	1.1	Ind	1-0	-2	3	Gravelly	Gravelly Sand	P	N	N	None	None	N	N	Ind	Very coarse sand with some granules on surface and at depth.
ASOW0549-22-OCS-SP-460	A	OCS-A 0549	6.4	0.6	Ind	1-0	-1	3	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Coarse to very coarse sand with a medium sand subfraction and trace of granules. Shell fragments from surface to bottom of image.
ASOW0549-22-OCS-SP-460	D	OCS-A 0549	4.6	1.8	Ind	1-0/-1 to -2	-2	4	Gravelly	Gravelly Sand	P	N	N	None	None	N	N	Ind	Rippled coarse sand to very coarse sand over layer of intermixed gravel, trace of silt.
ASOW0549-22-OCS-SP-460	E	OCS-A 0549	2.7	1.2	Ind	1-0	-2	3	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Minimal penetration into coarse and very coarse sand with trace of gravel.
ASOW0549-22-OCS-SP-465	B	OCS-A 0549	5.9	2.5	Ind	2-1	0	3	Sand	Medium Sand	P	N	N	Sand dollar	None	N	N	Ind	Medium sand, image bisected ripple crest. Few shell fragments.
ASOW0549-22-OCS-SP-465	D	OCS-A 0549	5.7	0.6	Ind	2-1	0	3	Sand	Medium Sand	P	N	N	Sand dollar	None	N	N	Ind	Medium sand with trace of flocculant material on surface.
ASOW0549-22-OCS-SP-465	E	OCS-A 0549	5.6	0.8	Ind	2-1	0	3	Sand	Medium Sand	P	N	N	Sand dollar	None	N	N	Ind	Rippled medium sand with a sand clast on surface.
ASOW0549-22-OCS-SP-468	A	OCS-A 0549	0.5	1.0	Ind	>4	4	>4	Mud	NA	P	N	N	None	None	N	N	Ind	Minimal penetration into clay visible in PV image. Shell and sand on surface in background.
ASOW0549-22-OCS-SP-468	C	OCS-A 0549	6.7	3.2	Ind	0 to -1	-2	4	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Very coarse to coarse sand with some gravel. Clay in profile is an artifact from the SPI prism, from previous replicates.
ASOW0549-22-OCS-SP-468	D	OCS-A 0549	3.5	3.3	Ind	-1 to -2	-3	3	Gravel Mixes	Sandy Gravel	P	N	N	None	None	N	N	Ind	Minimal penetration into fine gravel over coarse sand, finer at depth.
ASOW0549-22-OCS-SP-471	A	OCS-A 0549	4.5	2.7	Ind	-1 to -2/2-1	-3	3	Gravel Mixes	Sandy Gravel	P	N	N	Hermit crab	None	N	N	Ind	Layer of granules and few fine pebbles atop medium sand.
ASOW0549-22-OCS-SP-471	B	OCS-A 0549	5.6	0.8	Ind	0 to -1	-2	3	Gravelly	Gravelly Sand	P	N	N	Hermit crab	None	N	N	Ind	Very coarse sand to coarse sand with some gravel and medium sand.
ASOW0549-22-OCS-SP-471	D	OCS-A 0549	6.1	1.7	Ind	-1 to -2/1-0	-2	3	Gravelly	Gravelly Sand	P	N	N	None	None	N	N	Ind	Layer of very coarse sand and gravel above coarse sand.
ASOW0549-22-OCS-SPC-474	A	OCS-A 0549	5.6	1.1	Ind	2-1	0	4	Sand	Medium Sand	B	N	N	Sand dollar	None	N	N	Ind	Fine to medium sand, possibly rippled, some shell hash.
ASOW0549-22-OCS-SPC-474	B	OCS-A 0549	5.8	0.9	Ind	2-1	0	4	Sand	Medium Sand	P	N	N	Sand dollar, Snail	None	N	N	Ind	Medium sand, shell hash. aRPD is indeterminate. Possible sand clasts on SWI.
ASOW0549-22-OCS-SPC-474	C	OCS-A 0549	7.8	1.7	Ind	2-1	0	4	Sand	Medium Sand	P	N	N	Sand dollar	None	N	N	Ind	Well-sorted and rippled medium sand, trace of shell hash. Small tubes on surface.
ASOW0549-22-OCS-SPC-475	A	OCS-A 0549	5.1	1.0	Ind	2-1	0	4	Sand	Medium Sand	P	N	N	Sand dollar	None	N	N	Ind	Medium to coarse sand, mixing at depth. Shell hash on SWI.
ASOW0549-22-OCS-SPC-475	B	OCS-A 0549	4.8	1.7	Ind	2-1	0	4	Sand	Medium Sand	B	N	N	Sand dollar	None	N	N	Ind	Medium to coarse sand, shell and sand dollar on SWI. Boundary roughness artifact of sand dollar. aRPD is indeterminate.
ASOW0549-22-OCS-SPC-475	C	OCS-A 0549	5.2	0.5	Ind	2-1	0	4	Sand	Medium Sand	P	N	N	Sand dollar	None	N	N	Ind	Medium sand. Shell hash in top 2 cm and on surface.
ASOW0549-22-OCS-SPC-477	A	OCS-A 0549	7.1	1.4	Ind	2-1	0	4	Sand	Medium Sand	P	N	N	Sand dollar	None	N	N	Ind	Rippled medium to coarse sand, trace of shell hash. Some dark particles at depth.
ASOW0549-22-OCS-SPC-477	B	OCS-A 0549	5.0	1.4	Ind	2-1	-1	4	Sand	Medium Sand	P	N	N	Sand dollar, Diopatra	None	N	N	Ind	Rippled medium sand, trace of overlying fines, shell hash and detritus.. Few small tubes on surface
ASOW0549-22-OCS-SPC-477	C	OCS-A 0549	5.6	2.4	Ind	2-1	0	4	Sand	Medium Sand	P	N	N	Sand dollar	None	N	N	Ind	Rippled medium to coarse sand. Detritus and sand clasts on SWI, trace of shell hash.
ASOW0549-22-OCS-SPC-478	A	OCS-A 0549	5.9	1.4	Ind	1-0	-1	3	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Rippled coarse and medium sand, shell hash.
ASOW0549-22-OCS-SPC-478	C	OCS-A 0549	6.7	1.8	Ind	2-1	-1	3	Sand	Medium Sand	P	N	N	Sand dollar	None	N	N	Ind	Rippled medium and coarse sand, trace of shell hash.
ASOW0549-22-OCS-SPC-478	D	OCS-A 0549	5.7	1.6	Ind	2-1	0	3	Sand	Medium Sand	B	N	N	Sand dollar	None	N	N	Ind	Medium with trace of coarse sand, sand dollars on surface.
ASOW0549-22-OCS-SPG-427	A	OCS-A 0549	5.0	1.1	Ind	-1 to -2/3-2	-4	3	Gravel Mixes	Sandy Gravel	P	N	N	Hermit crab	None	N	N	Ind	Pebble/granule layer (2 cm) over mixture of fine sand with granules below.
ASOW0549-22-OCS-SPG-427	B	OCS-A 0549	7.2	4.8	Ind	-1 to -2 and 3-2	-2	3	Gravel Mixes	Sandy Gravel	P	N	N	NA	None	N	N	Ind	Mixture of granules with fine to medium sand.
ASOW0549-22-OCS-SPG-427	C	OCS-A 0549	8.5	3.3	Ind	-1 to -2/1-0	-3	4	Gravel Mixes	Sandy Gravel	P	N	N	NA	None	N	N	Ind	Distinct layer of granules (3 cm) over a mixture of fine sand and granules.
ASOW0549-22-OCS-SPG-453	B	OCS-A 0549	5.2	1.5	Ind	1-0	-1	3	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Coarse to very coarse sand with shell fragments.
ASOW0549-22-OCS-SPG-453	C	OCS-A 0549	5.6	1.7	Ind	2-1	0	3	Sand	Medium Sand	P	N	N	Sand dollar	None	N	N	Ind	Medium to fine sand with bivalve burrow along SWI.
ASOW0549-22-OCS-SPG-453	D	OCS-A 0549	6.3	0.7	Ind	3-2	1	4	Sand	Fine/Very Fine Sand	P	N	N	Hermit crab	None	N	N	2 -> 3	Fine to medium sand with worms at depth. RPD is ind.
ASOW0549-22-OCS-SPGC-476	B	OCS-A 0549	3.9	1.2	Ind	1-0	-1	4	Sand	Very Coarse/Coarse Sand	P	N	N	Snail, Sand dollar	None	N	N	Ind	Subtly rippled coarse to medium sand, shell hash. Clam shell on SWI. Indeterminate aRPD.
ASOW0549-22-OCS-SPGC-476	C	OCS-A 0549	6.6	2.6	Ind	1-0	-1	4	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Coarse to medium rippled sand with shell hash. Sand dollars on SWI. aRPD is indeterminate.
ASOW0549-22-OCS-SPGC-476	D	OCS-A 0549	5.8	0.5	Ind	1-0	-1	4	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Rippled coarse to medium sand, trace of shell. Possible sand clast on SWI. aRPD is indeterminate.
ASOW-22-NECCNJ-SP-358	A	NECCNJ	4.6	0.4	Ind	2-1	0	>4	Sand	Medium Sand	B	N	N	Sand dollar	None	N	N	Ind	Medium sand, streak of silt and sand dollar pulled down by descending prism. Many sand dollars on surface.
ASOW-22-NECCNJ-SP-358	B	NECCNJ	4.4	0.5	Ind	2-1	0	>4	Sand	Medium Sand	P	N	N	Sand dollar	None	N	N	Ind	Well-sorted medium to coarse sand. Subtle rippling and sand dollar at SWI. Trace silt on SWI
ASOW-22-NECCNJ-SP-358	C	NECCNJ	5.2	0.7	Ind	2-1	0	3	Sand	Medium Sand	P	N	N	Sand dollar	None	N	N	Ind	Rippled and well-sorted medium to coarse sand.
ASOW-22-NECCNJ-SP-359	B	NECCNJ	5.2	1.2	Ind	1-0	-1	>4	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar, Nassariid snail	None	N	N	Ind	Rippled coarse to medium sand, dark in color. Trace of silt at SWI and shell hash at depth. Boundary roughness is ripple height.
ASOW-22-NECCNJ-SP-359	C	NECCNJ	2.9	0.4	Ind	1-0	-1	>4	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar, Astarte clam	None	N	N	Ind	Well-sorted coarse sand, veneer of silt and sand dollar at SWI. Trace of shell hash, wood debris present.
ASOW-22-NECCNJ-SP-359	E	NECCNJ	5.7	1.8	Ind	1-0	-1	>4	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Softly rippled dark grained coarse sand with trace of shell hash.

Sediment Profile Image Analysis Results, Atlantic Shores Offshore Wind, 2022

Station ID	Replicate	Location	Penetration Depth (cm)	Boundary Roughness (cm)	aRPD Depth (cm)	Grain Size Major Mode (phi units)	Grain Size Maximum (phi units)	Grain Size Minimum (phi units)	CMECS Substrate Group	CMECS Substrate Subgroup	Roughness Origin	Methane Present (Y/N)	*Beggiatoa* Present (Y/N)	Epifauna	Eel Grass	High Contrast aRPD	High Sediment Oxygen Demand	Successional Stage	Comments
ASOW-22-NECCNJ-SP-364	A	NECCNJ	2.8	0.6	Ind	3-2	0	4	Sand	Fine/Very Fine Sand	P	N	N	Diopatra, Flat fish	None	N	N	Ind	Fine to medium sand with trace of shell hash, single thin amphipod tube. Mussel shells and rippling on surface. Diopatra at SWI.
ASOW-22-NECCNJ-SP-364	B	NECCNJ	2.8	2.2	Ind	2-1	0	4	Sand	Medium Sand	P	N	N	Diopatra	None	N	N	Ind	Rippled medium sand. Ripple crests varying in size. Diopatra on surface.
ASOW-22-NECCNJ-SP-364	C	NECCNJ	3.0	0.8	Ind	3-2	1	4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled fine to medium sand with trace of shell. Suspended organic matter in water column.
ASOW-22-NECCNJ-SP-366	A	NECCNJ	0.9	0.6	Ind	2-1	0	>4	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Minimal penetration in rippled coarse sand with silt.
ASOW-22-NECCNJ-SP-366	B	NECCNJ	0.0	0.0	Ind	Ind	Ind	Ind	Sand	Ind	P	Ind	Ind	Ind	Ind	Ind	Ind	Ind	No penetration. Substrate classifications inferred from plan view image.
ASOW-22-NECCNJ-SP-366	D	NECCNJ	0.0	0.0	Ind	2-1	Ind	Ind	Sand	Medium Sand	Ind	Ind	Ind	Ind	Ind	Ind	Ind	Ind	Only partial penetration. Substrate information inferred from plan view image.
ASOW-22-NECCNJ-SP-643	A	NECCNJ	3.8	0.8	Ind	2-1	0	3	Sand	Medium Sand	P	N	N	Hermit crab	None	N	N	Ind	Well-sorted medium sand.
ASOW-22-NECCNJ-SP-644	A	NECCNJ	4.7	1.0	Ind	1-0	-1	>4	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Dark, coarse to medium sand, shell hash.
ASOW-22-NECCNJ-SP-645	A	NECCNJ	5.9	1.3	Ind	-2 to -3/1-0	-4	2	Gravel Mixes	Sandy Gravel	P	N	N	None	None	N	N	Ind	Pebble/granule layer (1-2 cm) over very coarse/coarse sand.
ASOW-22-NECCNJ-SP-646	A	NECCNJ	7.2	1.4	Ind	2-1	-1	3	Sand	Medium Sand	P	N	N	Sand dollar	None	N	N	Ind	Medium to coarse sand, slighter coarse top few cm. Sand dollar on SWI.
ASOW-22-NECCNJ-SP-647	A	NECCNJ	6.3	0.3	Ind	2-1	0	3	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Dark, well-sorted, medium sand.
ASOW-22-NECCNJ-SP-648	A	NECCNJ	2.6	1.2	Ind	2-1	0	3	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Dark, medium sand with shell hash
ASOW-22-NECCNJ-SP-649	A	NECCNJ	3.3	1.6	Ind	2-1	0	3	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Dark, well-sorted medium sand.
ASOW-22-NECCNJ-SP-650	A	NECCNJ	4.9	1.0	Ind	2-1	0	3	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Well-sorted medium sand, mix of dark and light particles.
ASOW-22-NECCNJ-SP-651	A	NECCNJ	3.8	0.9	Ind	2-1	-1	3	Sand	Medium Sand	P	N	N	Crepidula	None	N	N	Ind	Dark, medium to coarse sand, some shell hash, scattered Crepidula on SWI.
ASOW-22-NECCNJ-SP-652	A	NECCNJ	4.6	1.3	Ind	2-1	0	3	Sand	Medium Sand	P	N	N	Sand dollar	None	N	N	Ind	Well-sorted, dark, medium sand, ripples.
ASOW-22-NECCNJ-SPC-362	B	NECCNJ	3.3	1.2	Ind	1-0	-3	2	Gravelly	Gravelly Sand	P	N	N	Nassariid snail	None	N	N	Ind	Coarse sand with intermixed and overlying pebble/granules.
ASOW-22-NECCNJ-SPC-362	C	NECCNJ	5.3	2.3	Ind	1-0	-2	2	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Subtly rippled coarse sand with trace of granules and shell hash. Pebbles on surface.
ASOW-22-NECCNJ-SPC-362	D	NECCNJ	4.5	0.5	Ind	-1 to -2/1-0	-3	2	Gravel Mixes	Sandy Gravel	P	N	N	Snail	None	N	N	Ind	Gravels over sand, finer with depth. Trace of shell hash.
ASOW-22-NECCNJ-SPC-363	B	NECCNJ	3.7	1.4	Ind	2-1	-2	>4	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Veneer of silt over medium to coarse sand matrix. Few pebbles and trace of silt at depth.
ASOW-22-NECCNJ-SPC-363	C	NECCNJ	4.8	1.0	1.7	1-0	-2	>4	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Coarse sand with trace of shell hash and gravel, veneer of surficial silt. Worm and some reduced fines at depth, pebbles on SWI.
ASOW-22-NECCNJ-SPC-363	D	NECCNJ	2.9	0.5	Ind	1-0	-3	2	Gravelly	Gravelly Sand	P	N	N	None	None	N	N	Ind	Coarse sand with overlying and intermixed gravels. Rippling in background.
ASOW-22-NECCNJ-SPC-365	A	NECCNJ	2.4	1.3	Ind	1-0	-3	2	Gravelly	Gravelly Sand	P	N	N	None	None	N	N	Ind	Coarse to very coarse sand with intermixed gravel. Rippling at surface, pebbles on SWI.
ASOW-22-NECCNJ-SPC-365	B	NECCNJ	3.6	0.7	Ind	1-0	-4	2	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Rippled coarse sand with intermixed pebbles and granules, trace of shell.
ASOW-22-NECCNJ-SPC-365	D	NECCNJ	3.3	1.0	Ind	1-0	-3	2	Gravelly	Gravelly Sand	P	N	N	None	None	N	N	Ind	Gravels at SWI over coarse sands, few intermixed pebbles and granules at depth. Shell hash on surface.
ASOW-22-NECCNJ-SPC-368	B	NECCNJ	2.9	0.8	Ind	0 to -1	-4	2	Gravelly	Gravelly Sand	P	N	N	Nassariid snail	None	N	N	Ind	Pebbles on SWI over very coarse to coarse sands.
ASOW-22-NECCNJ-SPC-368	C	NECCNJ	4.1	0.7	Ind	0 to -1	-2	2	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Very coarse sands. Some overlying gravel and shell hash, an agglutinating foram.
ASOW-22-NECCNJ-SPC-368	E	NECCNJ	2.9	0.5	Ind	-2 to -3/0 to -1	-3	1	Gravel Mixes	Sandy Gravel	P	N	N	None	None	N	N	Ind	Gravels over very coarse to coarse sand, some shell hash. Diopatra tube on surface.
ASOW-22-NECCNJ-SPG-357	C	NECCNJ	7.7	1.2	Ind	1-0	0	>4	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Coarse sand, particles are dark, veneer of silt overlying. Sand dollars on surface.
ASOW-22-NECCNJ-SPG-357	D	NECCNJ	7.3	0.7	Ind	1-0	0	>4	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Coarse sand, trace of shell hash. Sand particles are dark. Thin layer of silt at surface and at depth.
ASOW-22-NECCNJ-SPG-357	E	NECCNJ	5.7	3.0	Ind	1-0	-1	>4	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Dark grained coarse sand with shell particles, lighter particles at depth. Sand dollars and shell on surface.
ASOW-22-NECCNJ-SPG-371	F	NECCNJ	5.0	4.9	Ind	0 to -1	-3	2	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Rippled coarse sand with few very fine pebbles and granules, trace of shell hash. Some dark grain particles. Veneer of deposited silt or detritus.
ASOW-22-NECCNJ-SPG-371	H	NECCNJ	3.1	1.5	Ind	2-1	0	4	Sand	Medium Sand	P	N	N	Diopatra	None	N	N	Ind	Rippled medium sand, dark in color. Some deposited and suspended detritus, diopatra on surface.
ASOW-22-NECCNJ-SPG-371	J	NECCNJ	2.9	2.1	Ind	2-1	-1	>4	Sand	Medium Sand	P	N	N	Diopatra	None	N	N	Ind	Rippled medium sand with some intermixed silt and trace of very coarse sand. Diopatra on surface, suspended detritus in water column.
ASOW-22-NECCNJ-SPGC-367	A	NECCNJ	3.0	0.9	Ind	1-0	-1	2	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Well-sorted and rippled coarse sand, trace of shell hash. Shell and gravel on surface.
ASOW-22-NECCNJ-SPGC-367	B	NECCNJ	5.5	0.9	Ind	2-1 and >4	-2	>4	Muddy Sand	NA	P	N	N	None	None	N	N	Ind	Rippled coarse sand, few gravel and trace of shell. Silt left side of frame starting at 2 cm through penetration with feeding voids and worm.
ASOW-22-NECCNJ-SPGC-367	C	NECCNJ	4.1	2.2	Ind	1-0	-3	2	Gravelly	Gravelly Sand	P	N	N	None	None	N	N	Ind	Coarse to medium sand with intermixed shell hash and pebbles. Possible agglutinating forams and detritus on surface.
ASOW-22-NECCNY-SP-301	A	NECCNY	3.2	1.2	2	2-1	-4	>4	Sand	Medium Sand	P	N	N	Hydroids	None	N	N	Ind	Medium sand, some silt at depth, hydroids. Few granules along SWI.
ASOW-22-NECCNY-SP-301	B	NECCNY	2.5	2.3	Ind	2-1	-3	>4	Sand	Medium Sand	P	N	N	Hydroids	None	N	N	Ind	Medium sand with shell hash and few pebble/granules on surface.
ASOW-22-NECCNY-SP-301	C	NECCNY	10.1	1.7	Ind	4-3	0	>4	Muddy Sand	NA	B	N	N	None	None	N	N	3	Bioturbated very fine sand and silt, hydroids, large cavity opened by prism.
ASOW-22-NECCNY-SP-302	A	NECCNY	5.6	1.2	Ind	3-2 and >4	0	>4	Muddy Sand	NA	B	N	N	Mussel, Crepidula, Hydroid	None	N	N	Ind	Mussel bed, some Crepidula on sand, silt, shell hash mix, aRPD = ind.

Sediment Profile Image Analysis Results, Atlantic Shores Offshore Wind, 2022

Station ID	Replicate	Location	Penetration Depth (cm)	Boundary Roughness (cm)	aRPD Depth (cm)	Grain Size Major Mode (phi units)	Grain Size Maximum (phi units)	Grain Size Minimum (phi units)	CMECS Substrate Group	CMECS Substrate Subgroup	Roughness Origin	Methane Present (Y/N)	*Beggiatoa* Present (Y/N)	Epifauna	Eel Grass	High Contrast aRPD	High Sediment Oxygen Demand	Successional Stage	Comments
ASOW-22-NECCNY-SP-302	C	NECCNY	7.8	1.1	Ind	>4 and 3-2	1	>4	Sandy Mud	NA	B	N	N	Mussel, Hydroids	None	N	N	Ind	Silt, Shell hash, some sand, mussel bed on SWI.
ASOW-22-NECCNY-SP-302	D	NECCNY	5.7	1.2	Ind	>4	2	>4	Mud	NA	B	N	N	Crepidula, Mussel, Hydroids	None	N	N	Ind	Crepidula and mussels on mud, encrusting hydroids.
ASOW-22-NECCNY-SP-307	A	NECCNY	13.4	1.2	0.4	>4	2	>4	Mud	NA	B	N	N	Hydroids	None	Y	Y	1	Crepidula shell hash over smothered, reduced silt
ASOW-22-NECCNY-SP-307	C	NECCNY	9.3	1.4	Ind	>4	2	>4	Mud	NA	B	N	N	Mussel, Crepidula, Hydroids	None	Y	Y	Ind	Crepidula shells on surface over reduced silt.
ASOW-22-NECCNY-SP-307	E	NECCNY	11.6	1.1	0.6	>4	2	>4	Mud	NA	B	N	N	Mussels, Hydroids	None	Y	Y	3	Shell hash on reduced silt, feeding void may be inactive, burrow.
ASOW-22-NECCNY-SP-313	C	NECCNY	3.9	2.7	Ind	2-1	0	>4	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Rippled medium sand with some silt.
ASOW-22-NECCNY-SP-313	D	NECCNY	2.5	4.7	Ind	2-1	0	>4	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Rippled medium sand with trace silt.
ASOW-22-NECCNY-SP-313	E	NECCNY	3.1	1.2	1.2	2-1	0	4	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Rippled medium sand.
ASOW-22-NECCNY-SP-315	A	NECCNY	3.0	1.6	1.4	1-0/2-1	-2	3	Sand	Very Coarse/Coarse Sand	P	N	N	Hydroids	None	N	N	Ind	1-2 cm of coarse sand over medium sand, shell fragments on SWI.
ASOW-22-NECCNY-SP-315	C	NECCNY	3.8	2.2	1.7	2-1	-2	>4	Sand	Medium Sand	B	N	N	Mussels	None	N	N	Ind	Mussels on medium and coarse sand.
ASOW-22-NECCNY-SP-315	D	NECCNY	4.0	0.8	Ind	1-0/2-1	-2	>4	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Coarse sand over medium sand with shell hash.
ASOW-22-NECCNY-SP-321	A	NECCNY	2.4	1.1	Ind	3-2	1	>4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled fine sand, fecal casts at SWI.
ASOW-22-NECCNY-SP-321	B	NECCNY	4.7	2.2	2.3	3-2	0	4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled fine and medium sand.
ASOW-22-NECCNY-SP-321	C	NECCNY	2.8	2.0	1.1	3-2	0	4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled fine to medium sand.
ASOW-22-NECCNY-SP-322	B	NECCNY	5.3	1.0	Ind	3-2	0	4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled fine to medium sand, mussel shells on SWI.
ASOW-22-NECCNY-SP-322	D	NECCNY	4.5	0.9	Ind	3-2	0	4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled fine to medium sand grading finer with depth, some shell hash. Only one laser visible.
ASOW-22-NECCNY-SP-322	E	NECCNY	3.5	1.8	Ind	3-2	0	4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled fine and medium sand.
ASOW-22-NECCNY-SP-324	A	NECCNY	7.7	0.8	2.1	4-3/>4	2	>4	Sand	Fine/Very Fine Sand	P	N	N	Nassariid snail	None	N	N	2 -> 3	Rippled very fine sand grading to silt at depth, diverse surface tubes.
ASOW-22-NECCNY-SP-324	B	NECCNY	8.0	2.8	1.5	4-3/>4	1	>4	Sand	Fine/Very Fine Sand	P	N	N	Hermit crab	None	N	N	2 -> 3	Rippled very fine sand over silt.
ASOW-22-NECCNY-SP-324	D	NECCNY	6.3	0.6	1.5	4-3	-4	>4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	1 on 3	Rippled very fine sand.
ASOW-22-NECCNY-SP-325	A	NECCNY	4.1	2.6	Ind	2-1	0	3	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Rippled medium sand
ASOW-22-NECCNY-SP-325	D	NECCNY	3.7	1.7	Ind	2-1	0	3	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Rippled medium sand.
ASOW-22-NECCNY-SP-325	F	NECCNY	4.8	0.8	Ind	2-1	0	3	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Rippled medium sand, surface tubes.
ASOW-22-NECCNY-SP-326	A	NECCNY	3.9	1.1	Ind	1-0	-1	>4	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Coarse sand grading to medium sand with depth, abundant shell hash.
ASOW-22-NECCNY-SP-326	C	NECCNY	1.5	1.1	Ind	2-1	-3	3	Sand	Medium Sand	P	N	N	Hermit crab, Mussel, Crepidula, Hydroids	None	N	N	Ind	Shells, stick on medium sand.
ASOW-22-NECCNY-SP-326	E	NECCNY	4.1	1.5	Ind	1-0	-1	4	Sand	Very Coarse/Coarse Sand	P	N	N	Hydroids	None	N	N	Ind	Coarse and medium sand, shall hash and fragments, hydroids.
ASOW-22-NECCNY-SP-329	A	NECCNY	17.5	0.8	0.4	>4	2	>4	Mud	NA	B	N	N	None	None	Y	Y	2 -> 3	Reduced silt, very thin aRPD, ampelisca tubes on SWI, possible edge of feeding void, deep burrows.
ASOW-22-NECCNY-SP-329	B	NECCNY	16.0	1.7	1.5	>4	2	>4	Mud	NA	B	N	N	None	None	N	N	3	Bioturbated, reduced silt, hydroid pulled down, feeding voids and deep burrows.
ASOW-22-NECCNY-SP-329	C	NECCNY	15.0	1.5	1	>4	2	>4	Mud	NA	B	N	N	Shrimp	None	Y	N	2 -> 3	Silt, large tubes at SWI and at depth.
ASOW-22-NECCNY-SP-330	A	NECCNY	8.9	2.6	2.3	4-3	2	>4	Sand	Fine/Very Fine Sand	B	N	N	None	None	N	N	3	Very fine sand and silt, feeding voids.
ASOW-22-NECCNY-SP-330	B	NECCNY	8.9	3.1	2.2	>4	2	>4	Sandy Mud	NA	B	N	N	None	None	N	N	3	Bioturbated silt and very fine sand mix, large shells on SWI.
ASOW-22-NECCNY-SP-330	D	NECCNY	7.3	3.0	1.5	>4	2	>4	Sandy Mud	NA	P	N	N	None	None	N	N	2	Silt and very fine sand, ampelisca on SWI, large bivalve? against window. Fecal casts on SWI and a number of small worms at depth.
ASOW-22-NECCNY-SP-332	A	NECCNY	8.6	3.2	2.1	4-3	2	>4	Muddy Sand	NA	P	N	N	None	None	N	N	3	Very fine sand over reduced silt, surface tubes.
ASOW-22-NECCNY-SP-332	D	NECCNY	5.8	2.5	Ind	4-3	2	>4	Muddy Sand	NA	P	N	N	Hydroids	None	N	N	Ind	Shells dragged down by prism, aRPD, SS are indeterminate, very fine sand, silt, and shells
ASOW-22-NECCNY-SP-332	H	NECCNY	6.7	1.8	1.6	4-3	2	>4	Muddy Sand	NA	P	N	N	Hydroids	None	N	N	3	Very fine sand and silt, shell debris on SWI, feeding voids.
ASOW-22-NECCNY-SP-333	A	NECCNY	4.1	2.9	Ind	2-1	0	3	Sand	Medium Sand	P	N	N	Mussel, Hydroid	None	N	N	Ind	Rippled medium sand with mussels, shell fragments.
ASOW-22-NECCNY-SP-333	B	NECCNY	4.6	2.1	Ind	2-1	-2	3	Sand	Medium Sand	P	N	N	Hermit crab	None	N	N	Ind	Rippled well-sorted medium sand with shell hash.
ASOW-22-NECCNY-SP-333	D	NECCNY	6.4	0.7	Ind	2-1	0	3	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Rippled medium sand with shell hash.
ASOW-22-NECCNY-SP-335	A	NECCNY	3.9	0.7	1.2	4-3	1	>4	Sand	Fine/Very Fine Sand	B	N	N	None	None	N	N	Ind	Layered fine and very fine sand, worms at depth.
ASOW-22-NECCNY-SP-335	B	NECCNY	3.4	1.2	1.3	4-3	1	>4	Sand	Fine/Very Fine Sand	B	N	N	None	None	N	N	Ind	Fine, very fine sand and silt, diverse worm tubes on SWI.
ASOW-22-NECCNY-SP-335	G	NECCNY	3.6	0.7	1.3	4-3	1	>4	Sand	Fine/Very Fine Sand	B	N	N	Diopatra	None	N	N	Ind	Layered fine/very fine sand and silt, diopatra.
ASOW-22-NECCNY-SP-338	A	NECCNY	13.6	0.7	2.9	>4	1	>4	Mud	NA	B	N	N	None	None	N	N	2 on 3	Silt bottom, ampelisca on SWI.
ASOW-22-NECCNY-SP-338	C	NECCNY	15.2	0.6	2.7	>4	3	>4	Mud	NA	B	N	N	Nassariid snail	None	N	N	2 on 3	Silt bottom, diverse, large surface tubes.
ASOW-22-NECCNY-SP-338	D	NECCNY	13.3	0.6	2.3	>4	3	>4	Mud	NA	B	N	N	None	None	N	N	2 -> 3	Silt bottom, ampelisca at surface, worms at depth.
ASOW-22-NECCNY-SP-340	A	NECCNY	5.4	4.3	2	4-3	1	>4	Sand	Fine/Very Fine Sand	P	N	N	Hydroids	None	N	N	Ind	Very fine sand, silt and shell mixture, SWI disturbed by shell pull down.
ASOW-22-NECCNY-SP-340	B	NECCNY	3.2	1.0	Ind	4-3	1	>4	Sand	Fine/Very Fine Sand	P	N	N	Hydroids	None	N	N	3	Very fine/sand and silt with shell fragments at surface.
ASOW-22-NECCNY-SP-340	D	NECCNY	2.3	0.9	Ind	4-3	2	>4	Sand	Fine/Very Fine Sand	B	N	N	Hermit crab	None	N	N	Ind	Very fine sand and silt, shell hash and large shell on SWI.
ASOW-22-NECCNY-SP-342	A	NECCNY	5.2	2.5	Ind	3-2	0	4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled well-sorted fine to medium sand.
ASOW-22-NECCNY-SP-342	D	NECCNY	0.0	0.0	Ind	3-2	0	4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled fine to medium sand.
ASOW-22-NECCNY-SP-342	F	NECCNY	4.8	4.0	Ind	3-2	1	4	Sand	Fine/Very Fine Sand	P	N	N	Mussels	None	N	N	Ind	Rippled fine to medium sand with mussels.
ASOW-22-NECCNY-SP-344	A	NECCNY	5.0	2.9	0.8	3-2	1	4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Well-sorted and rippled fine to medium sand. Shell hash throughout and on surface, some deposited detritus. Physical RPD.
ASOW-22-NECCNY-SP-344	B	NECCNY	4.8	3.3	0.7	3-2	1	4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled well-sorted fine to medium sand. Shell hash buried at depth. Boundary roughness is ripple height. Physical RPD
ASOW-22-NECCNY-SP-344	C	NECCNY	4.5	2.5	Ind	3-2	1	4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled well-sorted fine to medium sand. Trace of shell hash. Boundary roughness is ripple height.
ASOW-22-NECCNY-SPC-308	B	NECCNY	2.7	1.3	Ind	3-2	0	4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled fine to medium sand.
ASOW-22-NECCNY-SPC-308	C	NECCNY	3.8	1.1	Ind	3-2	0	4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled fine to medium sand with shell hash.

Sediment Profile Image Analysis Results, Atlantic Shores Offshore Wind, 2022

Station ID	Replicate	Location	Penetration Depth (cm)	Boundary Roughness (cm)	aRPD Depth (cm)	Grain Size Major Mode (phi units)	Grain Size Maximum (phi units)	Grain Size Minimum (phi units)	CMECS Substrate Group	CMECS Substrate Subgroup	Roughness Origin	Methane Present (Y/N)	*Beggiatoa* Present (Y/N)	Epifauna	Eel Grass	High Contrast aRPD	High Sediment Oxygen Demand	Successional Stage	Comments
ASOW-22-NECCNY-SPC-308	D	NECCNY	5.4	0.4	Ind	3-2	0	4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled fine to medium sand.
ASOW-22-NECCNY-SPC-309	A	NECCNY	3.1	2.0	Ind	3-2	0	4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled fine to medium and coarse sand with shell hash.
ASOW-22-NECCNY-SPC-309	C	NECCNY	3.7	1.3	Ind	2-1	-1	3	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Rippled medium sand with shell hash.
ASOW-22-NECCNY-SPC-309	D	NECCNY	4.0	1.4	Ind	2-1	-1	3	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Rippled medium to coarse sand.
ASOW-22-NECCNY-SPC-310	A	NECCNY	3.7	2.5	Ind	3-2	0	4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled fine to medium sand with some shell hash.
ASOW-22-NECCNY-SPC-310	B	NECCNY	5.4	1.1	Ind	3-2	0	4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled fine to medium sand with shell hash. With few very coarse sand.
ASOW-22-NECCNY-SPC-310	D	NECCNY	2.5	1.0	Ind	3-2	1	4	Sand	Rippled sand	P	N	N	None	None	N	N	Ind	Rippled fine sand.
ASOW-22-NECCNY-SPC-311	A	NECCNY	6.1	2.0	Ind	3-2	1	4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled fine sand, some shell hash.
ASOW-22-NECCNY-SPC-311	B	NECCNY	5.3	1.0	Ind	3-2	1	4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled fine to medium sand.
ASOW-22-NECCNY-SPC-311	C	NECCNY	2.7	1.5	Ind	3-2	1	4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled fine sand.
ASOW-22-NECCNY-SPC-317	C	NECCNY	5.7	0.5	1.6	3-2	-5	>4	Sand	Fine/Very Fine Sand	P	N	N	Hermit crab, Hydroids	None	N	N	3	Fine sand with coarse pebbles on SWI, feeding voids.
ASOW-22-NECCNY-SPC-317	E	NECCNY	3.9	1.5	1.1	3-2	1	>4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled fine sand, surface worm tubes.
ASOW-22-NECCNY-SPC-317	F	NECCNY	5.7	1.2	1.4	3-2	0	>4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled fine sand, worm at depth, shell hash.
ASOW-22-NECCNY-SPC-318	A	NECCNY	6.7	1.4	1.8	3-2	0	>4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	2 -> 3	Rippled fine sand, surface tubes, worm, possible void at depth.
ASOW-22-NECCNY-SPC-318	B	NECCNY	2.8	2.2	Ind	4-3	1	>4	Sand	Fine/Very Fine Sand	P	N	N	Diopatra	None	N	N	Ind	Very fine sand, large clam, diopatra on SWI.
ASOW-22-NECCNY-SPC-318	C	NECCNY	4.2	1.9	1.7	4-3	1	>4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	1 on 3	Rippled very fine/fine sand.
ASOW-22-NECCNY-SPC-319	A	NECCNY	5.6	2.0	1.3	4-3	1	>4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled very fine/fine sand, worm at depth.
ASOW-22-NECCNY-SPC-319	B	NECCNY	5.5	1.2	1.4	4-3	1	>4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled very fine/fine sand.
ASOW-22-NECCNY-SPC-319	F	NECCNY	0.0	0.0	Ind	Ind	Ind	Ind	Ind	Ind	Ind	Ind	ind	Sponge, Hydroids	Ind	Ind	Ind	Ind	No penetration, sponge, hydroids on SWI.
ASOW-22-NECCNY-SPC-320	G	NECCNY	4.5	1.3	Ind	4-3	1	4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled very fine/fine sand, surface tubes.
ASOW-22-NECCNY-SPC-320	H	NECCNY	3.5	2.7	1.2	4-3	1	>4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled very fine/fine sand, ampelisca and polychaete tube on SWI.
ASOW-22-NECCNY-SPC-320	I	NECCNY	3.3	0.7	1.3	4-3	1	>4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled very fine/fine sand, tubes, fecal casts on SWI.
ASOW-22-NECCNY-SPG-306	B	NECCNY	15.7	0.4	1.5	>4	2	>4	Mud	NA	B	N	N	None	None	N	N	3	Very fine/fine sand mixed with Silt in top 3 cm over silt.
ASOW-22-NECCNY-SPG-306	D	NECCNY	20.2	1.0	2.2	>4	2	>4	Mud	NA	B	N	N	None	None	N	N	2 -> 3	Bioturbated silt bottom.
ASOW-22-NECCNY-SPG-306	G	NECCNY	17.7	1.3	2.4	>4	2	>4	Mud	NA	B	N	N	None	None	N	N	3	Well-bioturbated silt bottom.
ASOW-22-NECCNY-SPG-327	A	NECCNY	5.5	0.9	3	2-1	0	4	Sand	Medium Sand	P	N	N	Hydroids	None	N	N	Ind	Medium and coarse sand and shell hash mix, physical aRPD.
ASOW-22-NECCNY-SPG-327	B	NECCNY	2.4	1.6	Ind	2-1	0	>4	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Medium sand with shell hash.
ASOW-22-NECCNY-SPG-327	C	NECCNY	4.2	0.9	Ind	2-1	-1	4	Sand	Medium Sand	P	N	N	Hydroids	None	N	N	Ind	Sand and shell hash, fragments.
ASOW-22-NECCNY-SPG-341	A	NECCNY	5.5	1.6	Ind	1-0	-2	3	Sand	Very Coarse/Coarse Sand	P	N	N	Nassariid snail	None	N	N	Ind	Rippled coarse to very coarse sand, trace of shell and fines intermixed. Snail in background.
ASOW-22-NECCNY-SPG-341	B	NECCNY	10.4	1.4	Ind	1-0	-2	2	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Well-sorted coarse sand, trace of shell hash. Rippling on surface in background.
ASOW-22-NECCNY-SPG-341	C	NECCNY	0.4	1.0	Ind	1-0	-1	1	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Minimal penetration in rippled coarse sand. Shell hash on surface.
ASOW-22-NECCNY-SPGC-312	A	NECCNY	3.9	1.2	Ind	3-2	1	4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled fine to medium sand.
ASOW-22-NECCNY-SPGC-312	B	NECCNY	2.0	1.2	Ind	3-2	1	4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled fine sand with shell hash.
ASOW-22-NECCNY-SPGC-312	E	NECCNY	1.9	1.5	Ind	3-2	-2	4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled fine sand, some shell hash.
ASOW-22-NECCNY-SPGC-316	C	NECCNY	7.2	0.8	1.6	3-2	1	>4	Sand	Fine/Very Fine Sand	B	N	N	Hydroids	None	N	N	1 -> 2	Fine sand and silt.
ASOW-22-NECCNY-SPGC-316	D	NECCNY	6.5	0.5	1.3	4-3	1	>4	Sand	Fine/Very Fine Sand	B	N	N	None	None	N	N	2 on 3	Very fine sand and silt, diverse surface tubes.
ASOW-22-NECCNY-SPGC-316	F	NECCNY	7.3	2.2	1.9	4-3	1	>4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	3	Rippled very fine/fine sand with some silt, shell hash.
ASOW-22-NECCT-SP-346	B	NECCT	2.8	1.3	Ind	>4 and -2 to -3	-4	>4	Gravelly	Gravelly Muddy Sand	P	N	N	None	None	N	N	Ind	Mixed substrate of coarse sands to pebbles with overlying silt.
ASOW-22-NECCT-SP-346	C	NECCT	11.1	0.7	Ind	-2 to -3	-7	2	Gravels	Pebble/Granule	P	N	N	None	None	N	N	Ind	Pebble/granules and coarse sands, grading finer with depth. One cobble, possible anthropogenic brick.
ASOW-22-NECCT-SP-346	D	NECCT	9.0	1.2	2.3	-1 to -2	-3	2	Gravels	Pebble/Granule	P	N	N	None	None	N	N	Ind	Fine to very fine granules with trace of shell and coarse sand, physical aRPD.
ASOW-22-NECCT-SP-349	B	NECCT	7.6	4.9	Ind	-1 to -2/1-0	-2	4	Gravelly	Gravelly Sand	P	N	N	None	None	N	N	Ind	Bimodal matrix ranging from very fine granules to coarse sands, grades finer from ripple trough to peak. Veneer of silt overlying.
ASOW-22-NECCT-SP-349	C	NECCT	4.5	1.6	Ind	0 to -1	-2	3	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Very coarse sand with few granules, subtle ripples.
ASOW-22-NECCT-SP-349	E	NECCT	5.8	4.2	Ind	0 to -1	-3	3	Gravelly	Gravelly Sand	P	N	N	None	None	N	N	Ind	1 cm of granules over very coarse/coarse sand, finer with depths. Deposited silt and fine pebbles on surface.
ASOW-22-NECCT-SP-351	B	NECCT	3.5	2.7	Ind	2-1	0	3	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Rippled medium to fine sand.
ASOW-22-NECCT-SP-351	C	NECCT	4.1	1.6	Ind	2-1	-1	3	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Rippled medium to fine sand, shell hash on surface.
ASOW-22-NECCT-SP-351	D	NECCT	3.8	1.5	Ind	2-1	0	>4	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Rippled medium to fine sand, trace of shell. .
ASOW-22-NECCT-SP-354	A	NECCT	2.1	2.0	Ind	0 to -1	-4	2	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Rippled coarse sand. Shell hash and granules embedded and on SWI.
ASOW-22-NECCT-SP-354	C	NECCT	2.4	1.2	Ind	0 to -1	-3	2	Sand	Very Coarse/Coarse Sand	P	N	N	Nassariid snail	None	N	N	Ind	Coarse to very coarse sand, shell fragments. Cobble with macroalgae on surface.
ASOW-22-NECCT-SP-354	D	NECCT	2.9	2.2	Ind	0 to -1	-3	2	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Coarse and very coarse sand, few granules. Pebble/granules and shell hash on SWI.
ASOW-22-NECCT-SP-356	A	NECCT	4.4	1.8	Ind	1-0	-1	2	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Well-sorted coarse sand, shell on SWI.
ASOW-22-NECCT-SP-356	B	NECCT	6.0	1.4	Ind	1-0	-1	2	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Well-sorted coarse sand.
ASOW-22-NECCT-SP-356	C	NECCT	5.6	1.0	Ind	1-0	-1	3	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Coarse sand matrix with trace of shell hash and sand dollars on surface. Sand dollar disturbing SWI.
ASOW-22-NECCT-SP-370	A	NECCT	4.5	0.7	Ind	1-0	-2	3	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Coarse to medium sand. Granules and sand dollars on SWI.
ASOW-22-NECCT-SP-370	B	NECCT	6.1	1.0	Ind	1-0	-2	3	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Coarse to medium sand.
ASOW-22-NECCT-SP-370	C	NECCT	5.6	0.7	Ind	1-0	-2	3	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Coarse to medium sand, sand dollars on SWI.
ASOW-22-NECCT-SP-374	A	NECCT	5.8	3.9	Ind	2-1	0	3	Sand	Medium Sand	P	N	N	Sand dollar	None	N	N	Ind	Rippled well-sorted medium sand.

Sediment Profile Image Analysis Results, Atlantic Shores Offshore Wind, 2022

Station ID	Replicate	Location	Penetration Depth (cm)	Boundary Roughness (cm)	aRPD Depth (cm)	Grain Size Major Mode (phi units)	Grain Size Maximum (phi units)	Grain Size Minimum (phi units)	CMECS Substrate Group	CMECS Substrate Subgroup	Roughness Origin	Methane Present (Y/N)	*Beggiatoa* Present (Y/N)	Epifauna	Eel Grass	High Contrast aRPD	High Sediment Oxygen Demand	Successional Stage	Comments
ASOW-22-NECCT-SP-374	D	NECCT	4.0	2.2	Ind	1-0	-3	2	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar, Hermit crab	None	N	N	Ind	Rippled very coarse sand, sand dollar on SWI.
ASOW-22-NECCT-SP-374	E	NECCT	5.2	1.8	Ind	2-1	0	3	Sand	Medium Sand	P	N	N	Sand dollar	None	N	N	Ind	Rippled medium sand, trace of shell hash.
ASOW-22-NECCT-SP-376	A	NECCT	5.3	3.0	Ind	0 to -1	-2	2	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar, Snail	None	N	N	Ind	Very coarse to coarse sand, finer with depth.
ASOW-22-NECCT-SP-376	B	NECCT	6.4	1.2	Ind	0 to -1	-2	2	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Very coarse sand, slightly rippled.
ASOW-22-NECCT-SP-376	C	NECCT	6.0	1.2	Ind	0 to -1	-3	2	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Very coarse sand matrix with few granules. Sands are slightly rippled in far view.
ASOW-22-NECCT-SP-379	A	NECCT	3.6	2.1	Ind	1-0	-4	3	Sand	Very Coarse/Coarse Sand	P	N	N	Hermit crab	None	N	N	Ind	Coarse to medium sand with pebble/granules and shell hash on SWI.
ASOW-22-NECCT-SP-379	B	NECCT	5.4	0.8	Ind	1-0	-3	3	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Coarse sand with some gravel, shell.
ASOW-22-NECCT-SP-379	E	NECCT	4.4	1.0	Ind	2-1	-1	3	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Medium sand, few granules. Pebble, sand clasts on SWI.
ASOW-22-NECCT-SP-381	A	NECCT	7.3	0.3	Ind	0 to -1	-4	3	Gravelly	Gravelly Sand	P	N	N	None	None	N	N	Ind	Mixed substrate of very coarse sands to granules and fine sands.
ASOW-22-NECCT-SP-381	C	NECCT	6.2	1.4	Ind	-1 to -2	-4	3	Gravel Mixes	Sandy Gravel	P	N	N	None	None	N	N	Ind	Granules to very coarse sands with trace of fines.
ASOW-22-NECCT-SP-381	D	NECCT	4.4	0.4	Ind	-1 to -2	-5	3	Gravel Mixes	Sandy Gravel	P	N	N	Nassariid snail	None	N	N	Ind	Granules, trace of fine sand. Shell and snail on SWI.
ASOW-22-NECCT-SP-384	A	NECCT	6.1	2.9	Ind	-1 to -2	-3	3	Gravel Mixes	Sandy Gravel	P	N	N	None	None	N	N	Ind	Granules to very coarse sands, trace of shell and fines.
ASOW-22-NECCT-SP-384	B	NECCT	2.7	2.0	Ind	-1 to -2	-4	3	Gravel Mixes	Gravelly Sand	P	N	N	None	None	N	N	Ind	Coarse pebbles and shell debris over granules to very coarse sand, trace of fines intermixed.
ASOW-22-NECCT-SP-384	C	NECCT	4.0	0.4	Ind	-1 to -2	-3	3	Gravel Mixes	Sandy Gravel	P	N	N	Sand dollar	None	N	N	Ind	Granules with trace of shell hash and fines at depth, pebbles on SWI.
ASOW-22-NECCT-SP-386	A	NECCT	4.9	0.7	Ind	2-1	0	3	Sand	Medium Sand	P	N	N	Sand dollar	None	N	N	Ind	Medium sand, slightly rippled.
ASOW-22-NECCT-SP-386	B	NECCT	4.1	0.7	Ind	2-1	0	3	Sand	Medium Sand	P	N	N	Sand dollar	None	N	N	Ind	Medium to coarse sand, darker sands at depth. Shell hash, sand dollar on SWI.
ASOW-22-NECCT-SP-386	D	NECCT	4.4	0.9	Ind	2-1	0	3	Sand	Medium Sand	P	N	N	Sand dollar	None	N	N	Ind	Well-sorted medium sand, trace of shell hash.
ASOW-22-NECCT-SP-388	B	NECCT	4.4	1.8	Ind	3-2	-1	3	Sand	Fine/Very Fine Sand	P	N	N	Sand dollar, Nassariid snail	None	N	N	Ind	Fine to medium sand, trace of shell hash. Sand dollar on SWI.
ASOW-22-NECCT-SP-388	C	NECCT	4.4	1.1	Ind	3-2	-1	4	Sand	Fine/Very Fine Sand	P	N	N	Sand dollar, Nassariid snail	None	N	N	Ind	Fine to medium sand, trace of shell. Sand dollar and snail on SWI.
ASOW-22-NECCT-SP-388	E	NECCT	5.3	1.0	Ind	3-2	0	3	Sand	Fine/Very Fine Sand	P	N	N	Sand dollar, Nassariid snail	None	N	N	Ind	Fine to medium. Sand dollars and shell hash on SWI.
ASOW-22-NECCT-SP-395	A	NECCT	6.4	1.7	Ind	2-1	-2	3	Sand	Medium Sand	P	N	N	Sand dollar	None	N	N	Ind	Coarse to medium sand, finer with depths. Granules in top cm, possible worm.
ASOW-22-NECCT-SP-395	B	NECCT	7.5	1.8	Ind	2-1	0	3	Sand	Medium Sand	P	N	N	Sand dollar	None	N	N	Ind	Medium to coarse sand, trace of shell. Detrital aggregates and sand dollars on SWI.
ASOW-22-NECCT-SP-395	C	NECCT	4.9	1.5	Ind	2-1	-1	3	Sand	Medium Sand	P	N	N	Sand dollar, Hermit crab, Nassariid snail	None	N	N	Ind	Mixed substrate of medium with coarse sand and shell hash,
ASOW-22-NECCT-SP-396	A	NECCT	3.6	1.1	Ind	1-0	-2	1	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Very coarse to coarse sand, slightly rippled. Buried sand dollar and gravels on surface.
ASOW-22-NECCT-SP-396	B	NECCT	5.4	1.0	Ind	0 to -1	-2	2	Sand	Very Coarse/Coarse Sand	P	N	N	Diopatra, Sand dollar	None	N	N	Ind	Very coarse to coarse sand with few granules and shell hash. Granules and diopatra on SWI.
ASOW-22-NECCT-SP-396	C	NECCT	5.2	0.9	Ind	0 to -1	-2	2	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar, Hermit crab	None	N	N	Ind	Very coarse sand grading slightly finer with depth. Few pebbles and shell debris on SWI, possible sand or detrital aggregates.
ASOW-22-NECCT-SP-405	A	NECCT	4.3	0.8	Ind	1-0	-2	3	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar, Nassariid snail	None	N	N	Ind	Medium sand over coarse sand with few granules, subtle ripples. Pebbles and sand clasts on SWI.
ASOW-22-NECCT-SP-405	C	NECCT	5.9	1.0	Ind	2-1	0	4	Sand	Medium Sand	P	N	N	Nassariid snail	None	N	N	Ind	Rippled medium to fine sand, trace of shell hash. Very fine pebble on SWI.
ASOW-22-NECCT-SP-405	D	NECCT	6.0	2.5	Ind	2-1	-2	3	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Rippled medium and coarse sands. Shell hash on SWI.
ASOW-22-NECCT-SP-407	A	NECCT	5.5	1.7	Ind	2-1	-1	4	Sand	Medium Sand	P	N	N	Nassariid snail	None	N	N	Ind	Medium to fine sand, darker grains at depth.
ASOW-22-NECCT-SP-407	B	NECCT	7.8	0.6	Ind	2-1	-1	4	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Rippled medium to coarse sand, trace of shell. Few granules on SWI.
ASOW-22-NECCT-SP-407	E	NECCT	5.7	1.4	Ind	2-1	-4	3	Gravelly	Gravelly Sand	P	N	N	None	None	N	N	Ind	Rippled medium to coarse sands, few pebble/granules. Possible clam
ASOW-22-NECCT-SP-410	B	NECCT	6.4	4.6	Ind	1-0 and -1 to -2	-4	2	Gravelly	Gravelly Sand	P	N	N	None	None	N	N	Ind	Coarse sand with gravel intermixed.
ASOW-22-NECCT-SP-410	C	NECCT	8.0	4.0	Ind	1-0	-4	2	Gravelly	Gravelly Sand	P	N	N	None	None	N	N	Ind	Coarse sand and gravel mixed. Shell and pebble/granules on SWI.
ASOW-22-NECCT-SP-410	D	NECCT	7.1	0.9	Ind	0 to -1	-2	4	Gravelly	Gravelly Sand	P	N	N	None	None	N	N	Ind	Coarse sands with gravels. Pebbles and shell on SWI.
ASOW-22-NECCT-SP-413	B	NECCT	6.6	2.2	Ind	1-0	-2	2	Gravelly	Gravelly Sand	P	N	N	Hermit crab	None	N	N	Ind	Coarse sand with granules. Hermit crab on shell.
ASOW-22-NECCT-SP-413	F	NECCT	5.0	0.2	Ind	0 to -1	-2	2	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar, Hermit crab	None	N	N	Ind	Very coarse sand with granules. Slightly finer with depth. Pebbles on SWI.
ASOW-22-NECCT-SP-413	J	NECCT	9.9	0.9	Ind	2-1/0 to -1	-2	3	Gravelly	Gravelly Sand	P	N	N	Sand dollar	None	N	N	Ind	Medium to coarse sand grading coarser with depth. Few granules.
ASOW-22-NECCT-SP-416	A	NECCT	4.4	0.5	Ind	1-0 and -1 to -2	-4	2	Gravel Mixes	Sandy Gravel	P	N	N	None	None	N	N	Ind	Mixed coarse sand and gravels, trace of shells. Forams? in backdrop.
ASOW-22-NECCT-SP-416	B	NECCT	6.2	0.7	Ind	1-0	-2	2	Gravelly	Gravelly Sand	P	N	N	None	None	N	N	Ind	Coarse sand with gravels at depth.
ASOW-22-NECCT-SP-416	E	NECCT	8.6	1.0	Ind	1-0 and -2 to -3	-4	2	Gravel Mixes	Sandy Gravel	P	N	N	None	None	N	N	Ind	Coarse sands with gravel. Copper streaks at depth. Shell and tubes on surface.
ASOW-22-NECCT-SP-426	C	NECCT	5.8	0.8	Ind	1-0	-1	3	Sand	Very Coarse/Coarse Sand	P	N	N	Hermit crab	None	N	N	Ind	Coarse to medium sand, shell hash on SWI. Some deposited silt/detritus.
ASOW-22-NECCT-SP-426	D	NECCT	6.8	2.9	Ind	2-1	-1	3	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Medium to coarse sand, coarser at depth.
ASOW-22-NECCT-SP-426	E	NECCT	6.0	0.9	Ind	1-0	-1	3	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Coarse to medium rippled sand.
ASOW-22-NECCT-SP-432	A	NECCT	4.5	0.8	Ind	2-1	-1	3	Sand	Medium Sand	P	N	N	Sand dollar, Nassariid snail	None	N	N	Ind	Medium to coarse sands, slightly rippled. Sand clasts on surface.
ASOW-22-NECCT-SP-432	C	NECCT	6.4	1.6	Ind	1-0	0	3	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Coarse to medium sand. Partially buried sand dollar on SWI.
ASOW-22-NECCT-SP-432	E	NECCT	4.7	1.4	Ind	2-1	-1	3	Sand	Medium Sand	P	N	N	Sand dollar	None	N	N	Ind	Medium to coarse sand, sand dollar on SWI.
ASOW-22-NECCT-SP-441	A	NECCT	5.8	1.0	Ind	2-1	0	3	Sand	Medium Sand	P	N	N	Sand dollar	None	N	N	Ind	Medium to fine sand, gently rippled.

Sediment Profile Image Analysis Results, Atlantic Shores Offshore Wind, 2022

Station ID	Replicate	Location	Penetration Depth (cm)	Boundary Roughness (cm)	aRPD Depth (cm)	Grain Size Major Mode (phi units)	Grain Size Maximum (phi units)	Grain Size Minimum (phi units)	CMECS Substrate Group	CMECS Substrate Subgroup	Roughness Origin	Methane Present (Y/N)	*Beggiatoa* Present (Y/N)	Epifauna	Eel Grass	High Contrast aRPD	High Sediment Oxygen Demand	Successional Stage	Comments
ASOW-22-NECCT-SP-441	B	NECCT	5.5	2.1	Ind	1-0	-2	2	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Coarse to medium sand, few very fine granules and shell hash near surface.
ASOW-22-NECCT-SP-441	D	NECCT	5.7	1.0	Ind	2-1	-1	3	Sand	Medium Sand	P	N	N	Ind	None	N	N	Ind	Medium to fine sand. Sand clast on SWI.
ASOW-22-NECCT-SP-451	A	NECCT	8.0	0.7	Ind	1-0	-1	3	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Coarse to medium sand. Shell and detritus on SWI.
ASOW-22-NECCT-SP-451	B	NECCT	5.9	0.8	Ind	2-1	-1	3	Sand	Medium Sand	P	N	N	Sand dollar	None	N	N	Ind	Rippled medium to coarse sand. and clasts on SWI.
ASOW-22-NECCT-SP-451	D	NECCT	5.4	0.7	Ind	1-0	-1	2	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Coarse to medium sand with shell hash, granule on SWI. Sand clasts and detritus on surface.
ASOW-22-NECCT-SP-458	A	NECCT	8.2	2.3	Ind	1-0	-1	3	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Coarse to medium sand.
ASOW-22-NECCT-SP-458	B	NECCT	4.8	2.3	Ind	1-0	-1	2	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar, Nassariid snail	None	N	N	Ind	Coarse to medium sand, clam at 4.5 cm.
ASOW-22-NECCT-SP-458	C	NECCT	4.9	1.8	Ind	1-0	-1	2	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Coarse to medium sands, finer with depth. Sand dollar, sand clasts, small tubes on surface.
ASOW-22-NECCT-SP-543	C	NECCT	7.3	2.8	Ind	2-1	1	3	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Well-sorted medium sand, boundary roughness artifact of ripples. Few dark streaks.
ASOW-22-NECCT-SP-543	D	NECCT	12.4	0.8	6.6	2-1	1	>4	Sand	Medium Sand	P	N	N	Nassariid snail	None	N	N	Ind	Rippled medium to fine sand transitioning to reduced, finer grains at depth.
ASOW-22-NECCT-SP-543	E	NECCT	4.3	1.8	2.0	2-1	1	4	Sand	Medium Sand	P	N	N	None	None	N	N	3	Rippled medium sand, dark and finer sediment at depth, trace of shell hash. Small feeding void.
ASOW-22-NECCT-SP-544	A	NECCT	3.3	2.1	Ind	-1 to -2	-4	>4	Gravel Mixes	Muddy Gravel	P	N	N	Nassariid snail	None	N	N	Ind	Layer of silt over gravel ranging from pebbles to granules, some coarse sands.
ASOW-22-NECCT-SP-544	C	NECCT	9.9	2.0	Ind	-1 to -2/1-0/-1 to -2	-4	1	Gravel Mixes	Sandy Gravel	P	N	N	Nassariid snail	None	N	N	Ind	Layer of gravels in top 1 cm, over coarse sands transitioning back to gravels.
ASOW-22-NECCT-SP-544	E	NECCT	8.5	1.4	Ind	0 to -1 and -1 to -2	-3	1	Gravel Mixes	Sandy Gravel	P	N	N	None	None	N	N	Ind	Mixed very coarse sands and pebble/granules, trace of shell. Veneer of silt overlying.
ASOW-22-NECCT-SP-545	A	NECCT	3.5	2.4	Ind	-2 to -3 and >4	-4	>4	Gravel Mixes	Muddy Sandy Gravel	P	N	N	None	None	N	N	Ind	Gravel and shell hash with overlying silt.
ASOW-22-NECCT-SP-545	B	NECCT	4.0	1.1	Ind	2-1	0	3	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Well-sorted medium sand, shell hash.
ASOW-22-NECCT-SP-545	D	NECCT	5.3	1.0	Ind	2-1	1	3	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Well-sorted medium sand.
ASOW-22-NECCT-SP-546	A	NECCT	3.0	1.1	Ind	2-1	1	3	Sand	Medium Sand	P	N	N	Diopatra	None	N	N	Ind	Well-sorted medium sand. Sand clasts on SWI, diopatra on surface.
ASOW-22-NECCT-SP-546	D	NECCT	3.0	1.8	Ind	2-1	0	3	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Rippled medium sand.
ASOW-22-NECCT-SP-546	E	NECCT	3.3	1.0	Ind	2-1	0	>4	Sand	Medium Sand	P	N	N	Diopatra	None	N	N	Ind	Medium sand, silt streak at 2 cm. Thin layer of silt on surface with shell debris.
ASOW-22-NECCT-SP-547	B	NECCT	5.6	2.0	1.3	3-2	1	4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled fine to medium sand, trace of shell hash.
ASOW-22-NECCT-SP-547	C	NECCT	6.4	1.2	1.8	2-1/>4	1	4	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Medium to fine sand layer (5 cm) over reduced silt.
ASOW-22-NECCT-SP-547	D	NECCT	11.5	1.3	1.3	3-2/>4	2	>4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled fine to medium sand (5.5 cm layer) over reduced silt at depth.
ASOW-22-NECCT-SP-548	A	NECCT	5.4	0.3	Ind	0 to -1	-4	3	Gravelly	Gravelly Sand	P	N	N	None	None	N	N	Ind	Coarse and very coarse sands and gravel.
ASOW-22-NECCT-SP-548	B	NECCT	4.5	0.4	Ind	-1 to -2	-4	1	Gravel Mixes	Sandy Gravel	P	N	N	None	None	N	N	Ind	Very coarse sands and gravels. Shell on surface.
ASOW-22-NECCT-SP-548	C	NECCT	5.7	0.9	Ind	-1 to -2	-3	1	Gravelly	Gravelly Sand	P	N	N	None	None	N	N	Ind	Very coarse to coarse sand, some gravels.
ASOW-22-NECCT-SP-550	B	NECCT	3.4	1.2	Ind	2-1	-4	4	Sand	Medium Sand	P	N	N	Diopatra	None	N	N	Ind	Medium sand with gravel, many sand clasts.
ASOW-22-NECCT-SP-550	C	NECCT	4.8	2.2	Ind	2-1	-2	3	Sand	Medium Sand	P	N	N	Diopatra	None	N	N	Ind	Medium to coarse sand with shell, emerging diopatra. Pebble on SWI.
ASOW-22-NECCT-SP-550	D	NECCT	3.2	1.7	Ind	2-1	-4	3	Gravelly	Gravelly Sand	P	N	N	None	None	N	N	Ind	Medium sand, few pebbles intermixed. Trace of silt, sand clasts and fecal casts on surface.
ASOW-22-NECCT-SP-551	A	NECCT	5.3	0.9	1.7	3-2	0	4	Sand	Fine/Very Fine Sand	P	N	N	Nassariid snail, Sand dollar	None	N	N	Ind	Fine to medium. Buried nassariid snail and sand dollar.
ASOW-22-NECCT-SP-551	B	NECCT	4.4	1.1	1.1	3-2	1	4	Sand	Fine/Very Fine Sand	P	N	N	Sand dollar	None	N	N	1	Fine to medium sand.
ASOW-22-NECCT-SP-551	C	NECCT	4.2	0.7	1.5	3-2	1	4	Sand	Fine/Very Fine Sand	P	N	N	Sand dollar	None	N	N	Ind	Rippled fine to medium sand.
ASOW-22-NECCT-SP-553	A	NECCT	3.9	1.7	Ind	3-2	-1	4	Sand	Fine/Very Fine Sand	P	N	N	Sand dollar, Hermit crab	None	N	N	3	Medium to fine sand, tube and feeding void. Diopatra and shell hash on surface.
ASOW-22-NECCT-SP-553	C	NECCT	5.3	1.9	Ind	0 to -1/2-1	-3	3	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar, Hermit crab, Nassariid snail	None	N	N	Ind	Layered very coarse sands/granules over medium to very coarse sand. Moon snail egg case on surface.
ASOW-22-NECCT-SP-553	E	NECCT	5.6	1.5	Ind	2-1	-1	4	Sand	Medium Sand	P	N	N	Sand dollar	None	N	N	Ind	Very coarse sands grading to medium/fine sand.
ASOW-22-NECCT-SP-555	A	NECCT	4.9	1.4	1.8	2-1	-4	>4	Sand	Medium Sand	P	N	N	None	None	N	N	2 -> 3	Medium to fine sand with some gravels. Reduced silt starting at 3.5 cm.
ASOW-22-NECCT-SP-555	B	NECCT	3.4	3.8	Ind	2-1 and -1 to -2	-4	4	Gravelly	Gravelly Sand	P	N	N	None	None	N	N	Ind	Medium sand with gravels intermixed, dark band partially visible at depth. Boundary roughness is an artifact of prism penetration, aRPD is indeterminate.
ASOW-22-NECCT-SP-555	C	NECCT	6.4	1.3	1.6	2-1	-3	>4	Sand	Medium Sand	P	N	N	None	None	N	N	3	Mixed substrate, predominantly medium sand with some gravels and silt right side of frame. Shell on SWI.
ASOW-22-NECCT-SP-560	B	NECCT	6.7	1.5	Ind	1-0	-3	4	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar, Nassariid snail	None	N	N	Ind	Rippled coarse sand with some very coarse sand and gravels and fine sand.
ASOW-22-NECCT-SP-560	C	NECCT	5.4	1.0	1.2	3-2	4	1	Sand	Fine/Very Fine Sand	P	N	N	Sand dollar	None	N	N	Ind	Rippled fine to very fine sand.
ASOW-22-NECCT-SP-560	D	NECCT	6.3	0.5	1.2	3-2 and 1-0	-2	4	Sand	Fine/Very Fine Sand	P	N	N	Sand dollar	None	N	N	Ind	Coarse sand grading to mixed coarse and fine sand, shell on SWI.
ASOW-22-NECCT-SP-562	A	NECCT	4.3	1.1	Ind	2-1	-5	3	Gravelly	Sandy Gravelly Sand	P	N	N	None	None	N	N	Ind	Medium sand with range of gravels intermixed.
ASOW-22-NECCT-SP-562	B	NECCT	4.8	0.7	Ind	2-1 and -2 to -3	-5	3	Gravelly	Gravelly Sand	P	N	N	Nassariid snail	None	N	N	Ind	Medium to fine sand with gravels. Large tube, possible buried amphipod.
ASOW-22-NECCT-SP-562	C	NECCT	4.6	1.1	Ind	2-1	-2	3	Gravelly	Gravelly Sand	P	N	N	Nassariid snail	None	N	N	Ind	Medium sand with gravels intermixed, dark streak at depth. Pebbles on SWI.
ASOW-22-NECCT-SP-568	A	NECCT	3.1	1.6	Ind	2-1	-2	3	Sand	Medium Sand	P	N	N	Diopatra	None	N	N	Ind	Boundary roughness is an artifact of prism penetration.
ASOW-22-NECCT-SP-568	B	NECCT	3.7	0.6	Ind	2-1	-2	3	Sand	Medium Sand	P	N	N	Nassariid snail	None	N	N	Ind	Medium sand with gravels, trace of shell. Reduced silt streak at depth.

Sediment Profile Image Analysis Results, Atlantic Shores Offshore Wind, 2022

Station ID	Replicate	Location	Penetration Depth (cm)	Boundary Roughness (cm)	aRPD Depth (cm)	Grain Size Major Mode (phi units)	Grain Size Maximum (phi units)	Grain Size Minimum (phi units)	CMECS Substrate Group	CMECS Substrate Subgroup	Roughness Origin	Methane Present (Y/N)	*Beggiatoa* Present (Y/N)	Epifauna	Eel Grass	High Contrast aRPD	High Sediment Oxygen Demand	Successional Stage	Comments
ASOW-22-NECCT-SP-568	D	NECCT	3.5	0.5	Ind	2-1	-4	3	Gravelly	Gravelly Sand	P	N	N	Hermit crab	None	N	N	Ind	Medium to coarse sand with pebbles and shell. Few pebbles with possible crustose coralline algae. Some darker fines at depth.
ASOW-22-NECCT-SP-572	B	NECCT	4.3	1.0	Ind	2-1	-3	3	Sand	Medium Sand	P	N	N	Hermit crab	None	N	N	Ind	Medium to coarse sand with gravel and shell, dark stilt streak at depth. Sand clasts on surface.
ASOW-22-NECCT-SP-572	C	NECCT	4.1	2.1	Ind	1-0	-2	4	Sand	Very Coarse/Coarse Sand	P	N	N	Hermit crab	None	N	N	Ind	Coarse and medium sand, few granules. Pebbles on SWI. Reduced silt bottom right of frame.
ASOW-22-NECCT-SP-572	D	NECCT	3.5	1.0	Ind	1-0 and -1 to -2	-4	3	Gravelly	Gravelly Sand	P	N	N	None	None	N	N	Ind	Coarse sands with gravels. Surficial shell hash and pebble/granules.
ASOW-22-NECCT-SP-573	A	NECCT	6.9	2.0	Ind	1-0	-1	3	Sand	Very Coarse/Coarse Sand	B	N	N	Sand dollar	None	N	N	Ind	Coarse to medium sand, finer at depth. Buried sand dollar and hermit crab dragged down from prism penetration. Veneer of silt/detritus on surface, some reduced sands at depth.
ASOW-22-NECCT-SP-573	B	NECCT	7.1	2.5	Ind	1-0	3	-1	Sand	Very Coarse/Coarse Sand	P	N	N	Hermit crab, Sand dollar	None	N	N	Ind	Rippled coarse and medium sand, trace of shell.
ASOW-22-NECCT-SP-573	D	NECCT	5.8	1.4	Ind	1-0	-1	2	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar, Hermit crab	None	N	N	Ind	Rippled mix of coarse to medium sand. Shell on SWI.
ASOW-22-NECCT-SP-574	B	NECCT	5.3	0.7	1.8	2-1	-1	4	Sand	Medium Sand	P	N	N	Sand dollar	None	N	N	Ind	Slightly rippled medium to fine sand with shell hash. aRPD is subtle, may be physical. Sand dollar against window and many on surface.
ASOW-22-NECCT-SP-574	C	NECCT	5.7	0.4	2.1	3-2	1	4	Sand	Fine/Very Fine Sand	P	N	N	Sand dollar	None	N	N	Ind	Fine to medium sand, trace of shell. Sand dollars on surface. aRPD is physical.
ASOW-22-NECCT-SP-574	D	NECCT	9.8	0.7	3.1	3-2	1	4	Sand	Fine/Very Fine Sand	P	N	N	Nassariid snail, Sand dollar	None	N	N	Ind	Fine to medium sand with shell hash. Grey band at depth, aRPD is subtle and likely physical.
ASOW-22-NECCT-SP-575	A	NECCT	5.5	1.0	Ind	2-1	-1	3	Sand	Medium Sand	P	N	N	Sand dollar, Diopatra	None	N	N	Ind	Rippled medium sand trace of very coarse sand and shell hash.
ASOW-22-NECCT-SP-575	B	NECCT	3.5	0.9	Ind	1-0	-2	3	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Rippled coarse sand with shell hash.
ASOW-22-NECCT-SP-575	C	NECCT	4.3	1.6	Ind	1-0	-1	3	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Coarse and medium sand with shell hash. Granules and shell on SWI.
ASOW-22-NECCT-SP-576	A	NECCT	5.3	2.6	Ind	1-0	-1	2	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Coarse to medium sand, trace of shell hash. Sand dollars on surface.
ASOW-22-NECCT-SP-576	B	NECCT	5.4	0.8	Ind	1-0	-1	3	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Mix of coarse and medium sands. Trace of shell hash and very coarse sands. Sand clast on surface.
ASOW-22-NECCT-SP-576	D	NECCT	7.8	1.1	Ind	1-0	-2	2	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Coarse sand with pocket of very coarse sand/granules and shell hash at depth. Sand dollars, veneer of silt on SWI.
ASOW-22-NECCT-SP-577	A	NECCT	5.9	0.9	Ind	2-1	-1	3	Sand	Medium Sand	P	N	N	Sand dollar, Astarte clam	None	N	N	Ind	Rippled medium with coarse sands and shell hash. Sand clast and sand dollars on SWI.
ASOW-22-NECCT-SP-577	C	NECCT	7.2	1.5	Ind	1-0	-2	3	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Rippled predominantly coarse to medium sand. Some very coarse sand to granules and shell hash at 3 cm depth. Sand dollars and sand clasts on surface.
ASOW-22-NECCT-SP-577	D	NECCT	6.3	1.2	Ind	1-0	-2	2	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Coarse sand over a band of very coarse sands and shell grading back to coarse sand, slightly rippled. Sand dollars on surface.
ASOW-22-NECCT-SP-578	B	NECCT	6.7	0.8	Ind	2-1	-1	3	Sand	Medium Sand	P	N	N	Sand dollar	None	N	N	Ind	Rippled medium sand with some coarse sand. Sand dollars and shell on SWI.
ASOW-22-NECCT-SP-578	C	NECCT	4.1	0.5	Ind	1-0	-1	3	Sand	Very Coarse/Coarse Sand	P	N	N	Hermit crab, Sand dollar	None	N	N	Ind	Coarse with medium sand, trace of shell hash. Surficial shell hash and silt or detritus. Sand clasts with foraging hermit crabs.
ASOW-22-NECCT-SP-578	D	NECCT	4.4	1.1	Ind	1-0 and 2-1	-1	3	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar, Astarte clam	None	N	N	Ind	Rippled coarse and medium sand, finer right side of frame. Sand dollar pressed against window, detritus and shell hash on SWI.
ASOW-22-NECCT-SP-579	B	NECCT	7.1	0.6	Ind	1-0	-1	3	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Coarse to medium sand, very coarse sand mixed throughout. Rippled at SWI, sand dollar on surface.
ASOW-22-NECCT-SP-579	D	NECCT	7.0	1.3	Ind	1-0	-2	2	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Mix of coarse and very coarse sands with shell hash and few granules. Rippling at surface, worm at depth. Pebble/granules and sand dollar in background.
ASOW-22-NECCT-SP-579	E	NECCT	7.2	1.0	Ind	1-0	-3	4	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Coarse to medium sand, pockets of very coarse sands and gravels at depth. Anemone dragged down, right side of image. Pebble and detritus on SWI.
ASOW-22-NECCT-SP-580	A	NECCT	5.0	1.7	Ind	2-1	0	3	Sand	Medium Sand	P	N	N	Sand dollar	None	N	N	Ind	Rippled medium to coarse sand. Few granules, a veneer of silt or detritus and agglutinating forams on surface, Shell and sand dollar in background.
ASOW-22-NECCT-SP-580	C	NECCT	8.0	1.0	Ind	1-0	-1	3	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Coarse and medium sand, some very coarse sands and shell hash, darker fines throughout. Subtle rippling and shell hash on surface. Few sand clasts.
ASOW-22-NECCT-SP-580	D	NECCT	5.9	0.8	Ind	2-1	-1	3	Sand	Medium Sand	P	N	N	Sand dollar	None	N	N	Ind	Rippled medium sand, trace of coarse to very coarse sands and shell hash. Silt and sand clasts.
ASOW-22-NECCT-SP-581	B	NECCT	4.4	0.5	Ind	1-0	-1	3	Sand	Very Coarse/Coarse Sand	P	N	N	Nassariid snail, Sand dollar	None	N	N	Ind	Coarse to medium sand. Detritus and pebble/granules on SWI.
ASOW-22-NECCT-SP-581	C	NECCT	4.5	0.3	Ind	1-0	-1	3	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Very coarse sand at surface transitioning to coarse and medium sands. Shell hash and sand dollar on SWI. Sand clasts present on surface with overlying detritus.
ASOW-22-NECCT-SP-581	E	NECCT	7.3	0.9	Ind	1-0	-2	3	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Rippled coarse and medium sand, few granules at depth. Buried sand dollar and shell hash.
ASOW-22-NECCT-SP-582	C	NECCT	5.4	1.0	1.3	3-2	-1	4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	3	Fine to medium sand with shell hash, some mixing. Polychaete at depth, few feeding voids. Pebbles on SWI, aRPD is subtle.
ASOW-22-NECCT-SP-582	D	NECCT	5.5	0.8	1.3	2-1	0	3	Sand	Medium Sand	P	N	N	Nassariid snail, Sand dollar	None	N	N	Ind	Rippled medium to fine sand, shell hash.
ASOW-22-NECCT-SP-582	E	NECCT	4.3	1.2	Ind	2-1	-2	3	Sand	Medium Sand	P	N	N	Nassariid snail	None	N	N	Ind	Rippled medium sand, some coarser sands to granules at depth. Shell hash and pebbles on SWI.
ASOW-22-NECCT-SP-583	A	NECCT	4.3	0.9	Ind	1-0	-4	>4	Gravel Mixes	Sandy Gravel	P	N	N	None	None	N	N	Ind	Coarse to medium sand with gravels and shell intermixed and on surface. Reduced silt streak left side of frame near pebbles. Amphipod tube on surface

Sediment Profile Image Analysis Results, Atlantic Shores Offshore Wind, 2022

Station ID	Replicate	Location	Penetration Depth (cm)	Boundary Roughness (cm)	aRPD Depth (cm)	Grain Size Major Mode (phi units)	Grain Size Maximum (phi units)	Grain Size Minimum (phi units)	CMECS Substrate Group	CMECS Substrate Subgroup	Roughness Origin	Methane Present (Y/N)	*Beggiatoa* Present (Y/N)	Epifauna	Eel Grass	High Contrast aRPD	High Sediment Oxygen Demand	Successional Stage	Comments
ASOW-22-NECCT-SP-583	B	NECCT	4.8	0.7	Ind	1-0	-4	4	Gravelly	Gravelly Sand	P	N	N	Hermit crab	None	N	N	Ind	Coarse to medium sands with gravels and shell contained in subsurface and on surface. Few worms at depth causing some mixing.
ASOW-22-NECCT-SP-583	C	NECCT	4.2	1.1	Ind	1-0	-3	>4	Gravel Mixes	Sandy Gravel	P	N	N	None	None	N	N	Ind	Coarse sands with intermixed pebble/granules and shell hash, some darker fines at depth. Pebbles and shell hash.
ASOW-22-NECCT-SP-584	A	NECCT	4.8	1.3	Ind	1-0	-3	3	Gravel Mixes	Sandy Gravel	P	N	N	Nassariid snail	None	N	N	Ind	Coarse and very coarse sands with intermixed gravels. Trace of shell. Partially buried nassariid snail.
ASOW-22-NECCT-SP-584	B	NECCT	3.6	1.2	Ind	1-0	-5	2	Gravelly	Gravelly Sand	P	N	N	Hermit crab, Nassariid snail	None	N	N	Ind	Coarse sands with intermixed pebbles and granules, trace of shell.
ASOW-22-NECCT-SP-584	C	NECCT	6.2	0.6	Ind	1-0	-3	>4	Gravelly	Gravelly Sand	P	N	N	Nassariid snail	None	N	N	Ind	Layer of very coarse sands/granules with shell hash (top 2 cm) over coarse sands with some very coarse sands and granules intermixed. Possible, agglutinating forams and gravels on surface. Trace silt.
ASOW-22-NECCT-SP-586	A	NECCT	6.3	1.6	Ind	2-1	-4	3	Gravel Mixes	Sandy Gravel	P	N	N	None	None	N	N	Ind	Medium and coarse sand with gravels intermixed and at surface, trace of shell. Segmented worm at depth, subtle mixing.
ASOW-22-NECCT-SP-586	B	NECCT	4.1	1.4	Ind	-2 to -3/1-0	-3	>4	Gravelly	Gravelly Sand	P	N	N	Hermit crab	None	N	N	Ind	Gravels over coarse to very coarse sands, trace of shell hash. Few pebbles and granules in subsurface sediments. Single tube on SWI..
ASOW-22-NECCT-SP-586	E	NECCT	4.7	0.9	Ind	-1 to -2	-4	3	Gravel Mixes	Sandy Gravel	P	N	N	None	None	N	N	Ind	Mix of gravels with coarse sand and trace of shell hash.
ASOW-22-NECCT-SP-588	C	NECCT	4.0	2.1	Ind	-2 to -3/1-0	-4	2	Gravel Mixes	Sandy Gravel	P	N	N	None	None	N	N	Ind	Gravels (2 cm) layered over very coarse to coarse sand, some shell hash. Gravels covering surface.
ASOW-22-NECCT-SP-588	D	NECCT	5.7	1.0	Ind	2-1 and -1 to -2	-3	3	Gravel Mixes	Sandy Gravel	P	N	N	Sand dollar, Nassariid snail	None	N	N	Ind	Medium to coarse sand with mixing of gravels and shell hash throughout subsurface and overlying.
ASOW-22-NECCT-SP-588	E	NECCT	6.2	2.7	Ind	-1 to -2/1-0	-4	3	Gravel Mixes	Sandy Gravel	P	N	N	None	None	N	N	Ind	Mix of gravels with shell hash over coarse to medium sand, some mixing at depth.
ASOW-22-NECCT-SP-592	A	NECCT	4.4	0.5	1.1	3-2	-1	4	Sand	Fine/Very Fine Sand	B	N	N	Sand dollar, Nassariid snail	None	N	N	Ind	Fine to very fine sands, coarser near SWI. Trace of shell and very coarse sand. Sand dollars and snail on surface. aRPD is likely physical.
ASOW-22-NECCT-SP-592	B	NECCT	5.1	0.7	1.1	3-2	1	4	Sand	Fine/Very Fine Sand	B	N	N	Sand dollar	None	N	N	Ind	Rippled fine to very fine sand, well-sorted at depth. Trace of shell hash, sand dollar against prism and many on surface.
ASOW-22-NECCT-SP-592	E	NECCT	5.4	0.8	1.3	3-2	-1	4	Sand	Fine/Very Fine Sand	P	N	N	Sand dollar	None	N	N	Ind	Fine sand with trace of very coarse sands at SWI and at depth. Many sand dollars. aRPD is subtle.
ASOW-22-NECCT-SP-595	A	NECCT	4.2	0.6	1.9	3-2	0	4	Sand	Fine/Very Fine Sand	B	N	N	Scallop, Sand dollar, Limpets	None	N	N	Ind	Rippled fine to medium sand, limpets on scallop.
ASOW-22-NECCT-SP-595	B	NECCT	4.3	0.9	1.2	3-2	0	3	Sand	Fine/Very Fine Sand	B	N	N	Sand dollar	None	N	N	Ind	Fine to medium sand.
ASOW-22-NECCT-SP-595	E	NECCT	4.9	1.2	1.3	3-2	1	4	Sand	Fine/Very Fine Sand	P	N	N	Sand dollar	None	N	N	Ind	Rippled fine to medium sand.
ASOW-22-NECCT-SP-597	A	NECCT	5.0	1.6	1.4	3-2	0	4	Sand	Fine/Very Fine Sand	P	N	N	Nassariid snail	None	N	N	Ind	Rippled? fine to medium sand.
ASOW-22-NECCT-SP-597	B	NECCT	4.6	1.6	Ind	3-2	1	4	Sand	Fine/Very Fine Sand	P	N	N	Nassariid snail	None	N	N	Ind	Rippled fine to medium sand.
ASOW-22-NECCT-SP-597	D	NECCT	4.4	1.1	Ind	3-2	1	4	Sand	Fine/Very Fine Sand	P	N	N	Diopatra	None	N	N	Ind	Rippled fine to medium sand.
ASOW-22-NECCT-SP-598	B	NECCT	3.9	1.2	1.1	2-1	0	4	Sand	Medium Sand	B	N	N	Sand dollar	None	N	N	Ind	Medium to fine sand, many sand dollars.
ASOW-22-NECCT-SP-598	D	NECCT	3.7	0.6	1	2-1	0	4	Sand	Medium Sand	B	N	N	Skate egg case	None	N	N	Ind	Well-sorted medium sand.
ASOW-22-NECCT-SP-598	E	NECCT	4.8	2	1.3	2-1	0	4	Sand	Medium Sand	P	N	N	Sand dollar	None	N	N	Ind	Rippled medium to fine sand.
ASOW-22-NECCT-SP-599	A	NECCT	7.7	3.9	0.7	>4/3-2	0	>4	Sandy Mud	NA	B	N	N	Sand dollar	None	Y	N	2 -> 3	Reduced silt (6 cm) over fine sand, thin aRPD, large burrow.
ASOW-22-NECCT-SP-599	B	NECCT	9.8	0.6	0.6	>4	1	>4	Mud	NA	B	N	N	None	None	N	N	1 on 3	Silt layer (9 cm) over fine sand, many small worms at SWI and depth.
ASOW-22-NECCT-SP-599	C	NECCT	9.3	1.3	0.7	>4/3-2	0	>4	Sandy Mud	NA	B	N	N	None	None	N	N	2 -> 3	Silt layer (8 cm) over sand, large burrow, diverse surface assemblage.
ASOW-22-NECCT-SP-600	A	NECCT	5.7	0.9	Ind	1-0	-2	>4	Sand	Very Coarse/Coarse Sand	B	N	N	Sand dollar	None	N	N	2 -> 3	Medium sand grading to very coarse sand with depth, worms at depth.
ASOW-22-NECCT-SP-600	B	NECCT	4.7	2.1	1	2-1	0	3	Sand	Medium Sand	P	N	N	Sand dollar, Nassariid snail	None	N	N	Ind	Well-sorted medium sand, subtle rippling at SWI.
ASOW-22-NECCT-SP-600	D	NECCT	3.7	0.9	1.2	2-1	0	3	Sand	Medium Sand	P	N	N	Sand dollar	None	N	N	Ind	Well-sorted medium sand.
ASOW-22-NECCT-SP-601	A	NECCT	3.1	1.2	1.3	2-1	0	4	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Rippled medium sand, some shell on SWI.
ASOW-22-NECCT-SP-601	C	NECCT	4.2	1.4	1.2	2-1	0	3	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Rippled medium to fine sand.
ASOW-22-NECCT-SP-601	D	NECCT	2.9	1.6	1	2-1	0	4	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Rippled medium sand, veneer of silt.
ASOW-22-NECCT-SP-602	B	NECCT	4.2	1.2	Ind	2-1 and >4	0	>4	Muddy Sand	NA	P	N	N	None	None	N	N	Ind	Mix of dark medium sand and silt, rippled.
ASOW-22-NECCT-SP-602	C	NECCT	8.2	3.2	1.1	3-2	1	>4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Fine and very fine sand over mostly silt layer at 7 cm.
ASOW-22-NECCT-SP-602	D	NECCT	6.7	0.8	2.2	3-2/>4	0	>4	Sand	Fine/Very Fine Sand	B	N	N	Sand dollar	None	N	N	2 -> 3	Fine sand layer (3 cm) over reduced silt.
ASOW-22-NECCT-SP-603	E	NECCT	4.5	1.2	Ind	-2 to -3/1-0	-4	3	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Fine pebbles over very coarse/coarse sand with trace of shell hash.
ASOW-22-NECCT-SP-603	F	NECCT	7.4	1.3	0.7	>4/3-2	1	>4	Mud	NA	P	N	N	Sand dollar, Diopatra, Hermit crab	None	N	N	2 -> 3	Rippled silt and very fine sand layer (7 cm) over fine sand.
ASOW-22-NECCT-SP-603	G	NECCT	7.4	1.0	1.5	2-1/>4/2-1	0	>4	Sandy Mud	NA	P	N	N	Sand dollar	None	N	N	1 -> 2	Silt layer between 2 cm surface black medium sand/fine sand and similar sand layer at depth (6 cm).
ASOW-22-NECCT-SP-604	A	NECCT	10.4	1.0	3.1	3-2/>4	1	>4	Sandy Mud	NA	P	N	N	Nassariid snail	None	Y	N	1 -> 2	3-4 cm medium sand over reduced silt, gray silt layer at 10 cm.
ASOW-22-NECCT-SP-604	D	NECCT	4.1	1.1	1	2-1	0	4	Sand	Medium Sand	P	N	N	Hermit crab	None	N	N	Ind	Rippled medium to fine sand, amphipod tube.
ASOW-22-NECCT-SP-604	E	NECCT	11.9	0.5	1.3	2-1/>4	0	>4	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Medium to fine sand (8-10 cm) over reduced silt, possible agglutinating forams on SWI.
ASOW-22-NECCT-SP-605	A	NECCT	18.8	1.6	0.5	>4/3-2/>4	1	>4	Sandy Mud	NA	B	N	N	None	None	N	N	3	Silt and fine sand mix (10 cm) over reduced silt.
ASOW-22-NECCT-SP-605	B	NECCT	13.0	0.7	1.8	2-1/>4	0	>4	Sandy Mud	NA	P	N	N	None	None	Y	N	3	Medium sand (2 cm) over reduced silt.
ASOW-22-NECCT-SP-605	E	NECCT	18.3	0.9	1	>4	1	>4	Mud	NA	B	N	N	None	None	N	N	3	Very fine sand and silt over reduced silt at depth (12-14 cm).
ASOW-22-NECCT-SP-606	A	NECCT	2.8	2.3	Ind	2-1	0	>4	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Rippled medium sand, shell hash, tubes on SWI, silt smear appears to be artifact.

Sediment Profile Image Analysis Results, Atlantic Shores Offshore Wind, 2022

Station ID	Replicate	Location	Penetration Depth (cm)	Boundary Roughness (cm)	aRPD Depth (cm)	Grain Size Major Mode (phi units)	Grain Size Maximum (phi units)	Grain Size Minimum (phi units)	CMECS Substrate Group	CMECS Substrate Subgroup	Roughness Origin	Methane Present (Y/N)	*Beggiatoa* Present (Y/N)	Epifauna	Eel Grass	High Contrast aRPD	High Sediment Oxygen Demand	Successional Stage	Comments
ASOW-22-NECCT-SP-606	B	NECCT	2.3	3.1	Ind	2-1	0	>4	Sand	Medium Sand	P	N	N	None	None	N	N	Ind	Rippled medium to fine sand. Silt smears appear to be an artifact,
ASOW-22-NECCT-SP-606	D	NECCT	11.4	1.0	1.7	3-2/>4	1	>4	Sand	Fine/Very Fine Sand	P	N	N	Whip amphipod	None	N	N	2 -> 3	Fine sand (7 cm) over very fine silt and silt.
ASOW-22-NECCT-SP-607	C	NECCT	3.8	3.8	Ind	-1 to -2/1-0	-4	3	Gravelly	Gravelly Sand	P	N	N	None	None	N	N	Ind	Rippled granules over very coarse/coarse sand. Few pebbles intermixed.
ASOW-22-NECCT-SP-607	D	NECCT	6.5	1.2	Ind	-1 to -2	-4	3	Gravels	Pebble/Granule	P	N	N	None	None	N	N	Ind	Granules grading to very coarse sand at depth.
ASOW-22-NECCT-SP-607	E	NECCT	7.4	3.7	Ind	-2 to -3	-4	3	Gravels	Pebble/Granule	P	N	N	None	None	N	N	Ind	Fine pebbles on surface grading to very coarse sand at depth.
ASOW-22-NECCT-SP-608	C	NECCT	7.3	2.9	1.1	2-1/>4	0	>4	Muddy Sand	NA	P	N	N	None	None	N	N	2 -> 3	Medium to fine sand over reduced silt, worm at depth.
ASOW-22-NECCT-SP-608	D	NECCT	7.0	0.7	1.1	3-2/>4	1	>4	Muddy Sand	NA	P	N	N	None	None	N	N	3	Fine to medium sand over reduced silt, feeding void and burrow.
ASOW-22-NECCT-SP-608	E	NECCT	6.2	1.7	1.5	3-2/>4	1	>4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled fine sand over reduced silt, shell hash.
ASOW-22-NECCT-SP-609	A	NECCT	4.0	0.3	1	3-2	0	>4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Fine sand, aRPD shows burrows.
ASOW-22-NECCT-SP-609	B	NECCT	3.5	1.0	Ind	3-2	1	>4	Sand	Fine/Very Fine Sand	P	N	N	None	None	Y	N	Ind	Rippled fine sand.
ASOW-22-NECCT-SP-609	E	NECCT	4.1	0.5	Ind	3-2	1	4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled fine sand.
ASOW-22-NECCT-SP-610	A	NECCT	4.7	1.6	0.9	3-2	1	>4	Sand	Fine/Very Fine Sand	P	N	N	Nassariid snail	None	N	N	Ind	Rippled fine to medium sand.
ASOW-22-NECCT-SP-610	B	NECCT	4.1	3.8	1.3	3-2	1	4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled fine and medium sand, coarsening with depth.
ASOW-22-NECCT-SP-610	C	NECCT	5.4	2.8	1.1	2-1	0	4	Sand	Medium Sand	P	N	N	Nassariid snail	None	N	N	Ind	Rippled medium sand grading to fine sand at depth.
ASOW-22-NECCT-SP-611	A	NECCT	4.4	3.0	1.6	3-2	1	4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled fine to medium sand.
ASOW-22-NECCT-SP-611	B	NECCT	5.4	3.0	0.7	3-2	1	4	Sand	Fine/Very Fine Sand	P	N	N	Diopatra	None	N	N	Ind	Rippled fine to medium sand, some shell hash.
ASOW-22-NECCT-SP-611	C	NECCT	2.9	1.4	Ind	3-2	1	4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled well-sorted fine sand, agglutinating forams on SWI.
ASOW-22-NECCT-SP-613	A	NECCT	3.7	3.0	1.3	1-0	-2	4	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Rippled coarse sand, shell hash.
ASOW-22-NECCT-SP-614	A	NECCT	5.1	6.0	Ind	-1 to -2	-3	3	Gravels	Pebble/Granule	P	N	N	None	None	N	N	Ind	Very thin silt veneer on rippled granules.
ASOW-22-NECCT-SP-615	B	NECCT	0.0	0.0	Ind	Ind	Ind	Ind	Ind	Ind	P	N	N	Sponges, Hydroids	None	Ind	Ind	Ind	No penetration, prism sitting on cobble.
ASOW-22-NECCT-SP-617	A	NECCT	6.5	4.8	Ind	0 to -1	-4	3	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Very coarse sand and granules, rippled.
ASOW-22-NECCT-SP-618	A	NECCT	3.0	0.7	Ind	-1 to -2	-5	>4	Gravelly	Gravelly Sand	P	N	N	None	None	N	N	Ind	Gravel and coarse sand mix, pebbles on SWI.
ASOW-22-NECCT-SP-619	A	NECCT	4.6	5.6	Ind	0 to -1	-3	>4	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Silt veneer over very coarse/coarse sand, some gravel.
ASOW-22-NECCT-SP-620	A	NECCT	3.6	0.5	Ind	-1 to -2	-4	3	Gravelly	Gravelly Muddy Sand	P	N	N	None	None	N	N	Ind	Silt veneer over granules and coarse sand.
ASOW-22-NECCT-SP-621	A	NECCT	2.1	4.6	Ind	0 to -1 and >4	-4	>4	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Mix of gravel, coarse sand, and silt.
ASOW-22-NECCT-SP-622	A	NECCT	4.9	2.2	1.4	3-2/>4	1	>4	Muddy Sand	NA	P	N	N	Burrowing anemones	None	N	N	Ind	Rippled fine sand over reduced silt at 3-4 cm depth, one polychaete tube.
ASOW-22-NECCT-SP-623	A	NECCT	4.8	1.8	Ind	1-0	-3	3	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Very coarse and coarse sand, gravel in distance on SWI.
ASOW-22-NECCT-SP-624	B	NECCT	5.4	1.3	Ind	1-0 and -2 to -3	-4	3	Gravelly	Gravelly Sand	P	N	N	None	None	N	N	Ind	Mix of fine pebbles and very coarse/coarse sand, some shell hash.
ASOW-22-NECCT-SP-625	B	NECCT	4.8	2.1	Ind	1-0	-4	3	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	Y	Y	Ind	Very coarse and coarse sand, some gravel on SWI.
ASOW-22-NECCT-SP-626	B	NECCT	6.5	1.5	Ind	1-0	-2	3	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Very coarse/coarse sand, sand dollars.
ASOW-22-NECCT-SP-627	B	NECCT	4.0	0.9	Ind	-1 to -2	-3	3	Gravels	Pebble/Granule	P	N	N	Sand dollar	None	N	N	Ind	Pebble/granule bottom to penetration depth (5 cm).
ASOW-22-NECCT-SP-628	A	NECCT	4.2	0.7	Ind	3-2	1	4	Sand	Fine/Very Fine Sand	P	N	N	Sand dollar, Diopatra, Hermit crab	None	N	N	Ind	Rippled fine sand, three diopatra at SWI.
ASOW-22-NECCT-SP-629	A	NECCT	4.1	1.0	Ind	3-2	0	4	Sand	Fine/Very Fine Sand	P	N	N	Sand dollar, Diopatra	None	N	N	Ind	Well-sorted rippled fine sand. Sand dollars and diopatra on surface.
ASOW-22-NECCT-SP-630	A	NECCT	5.4	1.3	1	3-2	1	4	Sand	Fine/Very Fine Sand	P	N	N	Sand dollar	None	N	N	Ind	Well-sorted fine sand.
ASOW-22-NECCT-SP-631	A	NECCT	4.7	0.5	Ind	2-1	1	4	Sand	Medium Sand	B	N	N	Sand dollar, Hermit crab	None	N	N	Ind	Well-sorted medium to fine sand.
ASOW-22-NECCT-SP-632	A	NECCT	4.0	1.0	1.2	2-1	0	4	Sand	Medium Sand	P	N	N	Sand dollar, Nassariid snail	None	N	N	Ind	Medium sand with shell hash, sand clast is likely relic agglutinating forams.
ASOW-22-NECCT-SP-633	A	NECCT	5.2	1.3	Ind	1-0	-2	3	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Very coarse and coarse sand, limited gravel, some shell.
ASOW-22-NECCT-SP-634	A	NECCT	4.8	1.5	Ind	1-0	-3	3	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Very coarse, coarse sand, some gravel and shell.
ASOW-22-NECCT-SP-635	A	NECCT	4.7	1.4	Ind	1-0	-2	3	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Very coarse sand and gravel, possible agglutinating forams at SWI.
ASOW-22-NECCT-SP-636	A	NECCT	4.4	1.1	Ind	0 to -1	-3	3	Sand	Very Coarse/Coarse Sand	P	N	N	Hermit crab	None	N	N	Ind	Very coarse sand and gravel, shell fragments.
ASOW-22-NECCT-SP-637	A	NECCT	5.6	1.4	Ind	1-0	-3	3	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Coarse sand with scattered gravel.
ASOW-22-NECCT-SP-638	A	NECCT	5.3	1.2	Ind	1-0	-3	3	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Coarse sand with gravel on surface, some shell.
ASOW-22-NECCT-SP-639	A	NECCT	4.6	1.7	Ind	-3 to -4/1-0	-5	2	Gravel Mixes	Sandy Gravel	P	N	N	None	None	N	N	Ind	Pebbles over coarse sand, shell fragments, green line is fishing gear.
ASOW-22-NECCT-SP-640	A	NECCT	6.7	1.2	Ind	1-0	-3	3	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Coarse sand with gravel and shell hash, sand clast or agglutinating foram on SWI.
ASOW-22-NECCT-SP-641	A	NECCT	4.9	2.3	Ind	1-0	-3	3	Gravelly	Gravelly Sand	P	N	N	Sand dollar	None	N	N	Ind	Coarse sand with gravels intermixed and at surface. Few sand dollars
ASOW-22-NECCT-SP-642	A	NECCT	5.5	2.3	Ind	1-0	-3	3	Sand	Very Coarse/Coarse Sand	P	N	N	Nassariid snail	None	N	N	Ind	Coarse sand with some gravel, shell hash, snail on sand clast, possibly a relic agglutinating forams.
ASOW-22-NECCT-SPG-347	A	NECCT	3.4	1.4	Ind	>4 and -2 to -3	-4	>4	Gravel Mixes	Sandy Gravel	P	N	N	None	None	N	N	Ind	Pebble/granules with sand and silt, trace of shell.
ASOW-22-NECCT-SPG-347	E	NECCT	8.6	1.6	Ind	-1 to -2	-3	3	Gravel Mixes	Sandy Gravel	P	N	N	None	None	N	N	Ind	Mixed gravels with trace of shell, sand at depth.
ASOW-22-NECCT-SPG-347	J	NECCT	10.8	0.8	Ind	-1 to -2	-3	3	Gravels	Pebble/Granule	P	N	N	None	None	N	N	Ind	Granules grading to coarse sands with depth, trace of shell hash on SWI.
ASOW-22-NECCT-SPG-353	A	NECCT	5.0	0.6	Ind	1-0	-1	2	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Coarse sand with few granules, slightly rippled.
ASOW-22-NECCT-SPG-353	B	NECCT	6.9	2.1	Ind	1-0	-2	3	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Rippled coarse sand, few granules. Sand dollar on SWI.
ASOW-22-NECCT-SPG-353	C	NECCT	4.4	1.4	Ind	1-0	-3	3	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Gently rippled coarse sand with few granules. Sediment grades finer with depth, trace of shell hash on SWI.
ASOW-22-NECCT-SPG-372	A	NECCT	3.4	2.3	Ind	0 to -1	-2	2	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar, Snail	None	N	N	Ind	Very coarse to coarse sand, trace of shell on SWI. Snail and sand dollars in far view.
ASOW-22-NECCT-SPG-372	B	NECCT	7.9	0.7	Ind	1-0	-2	2	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Coarse to very coarse sand, few granules. Sediment is finer with depth. Sand dollars on SWI.

Sediment Profile Image Analysis Results, Atlantic Shores Offshore Wind, 2022

Station ID	Replicate	Location	Penetration Depth (cm)	Boundary Roughness (cm)	aRPD Depth (cm)	Grain Size Major Mode (phi units)	Grain Size Maximum (phi units)	Grain Size Minimum (phi units)	CMECS Substrate Group	CMECS Substrate Subgroup	Roughness Origin	Methane Present (Y/N)	*Beggiatoa* Present (Y/N)	Epifauna	Eel Grass	High Contrast aRPD	High Sediment Oxygen Demand	Successional Stage	Comments
ASOW-22-NECCT-SPG-372	C	NECCT	6.0	3.6	Ind	1-0	-3	2	Sand	Very Coarse/Coarse Sand	B	N	N	None	None	N	N	Ind	Coarse to medium sand, sand dollars on SWI.
ASOW-22-NECCT-SPG-378	A	NECCT	3.2	0.8	Ind	2-1	-4	3	Sand	Medium Sand	P	N	N	Sand dollar, Hermit crab	None	N	N	Ind	Medium to coarse sand, few pebbles.
ASOW-22-NECCT-SPG-378	D	NECCT	3.0	1.0	Ind	2-1	-1	3	Sand	Medium Sand	P	N	N	Astarte clam	None	N	N	Ind	Medium sand, slightly rippled. Shell hash and few granules on SWI.
ASOW-22-NECCT-SPG-378	E	NECCT	3.8	1.3	Ind	2-1	-4	3	Sand	Medium Sand	P	N	N	Sand dollar	None	N	N	Ind	Medium to coarse sand, one pebble and shell hash. Pebble/granules on SWI.
ASOW-22-NECCT-SPG-385	B	NECCT	5.9	2.3	Ind	1-0	-2	3	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Coarse to very coarse sand, slightly rippled, trace of shell hash.
ASOW-22-NECCT-SPG-385	C	NECCT	7.0	1.4	Ind	1-0	-3	2	Gravelly	Gravelly Sand	P	N	N	Sand dollar	None	N	N	Ind	Very coarse to coarse sand with few fine pebbles and granules. Sand dollars on SWI.
ASOW-22-NECCT-SPG-385	D	NECCT	6.4	0.9	Ind	1-0	-2	3	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Coarse to very coarse sand, few granules. Sand dollars on SWI.
ASOW-22-NECCT-SPG-391	A	NECCT	8.5	0.6	Ind	1-0	-3	3	Gravelly	Gravelly Sand	P	N	N	Sand dollar	None	N	N	Ind	Sands ranging from very coarse to medium sand, intermixed granules. Sand dollars on SWI.
ASOW-22-NECCT-SPG-391	B	NECCT	6.9	3.3	Ind	1-0	-3	3	Gravelly	Gravelly Sand	P	N	N	Sand dollar	None	N	N	Ind	Granules grading to predominantly coarse sands, shell on SWI.
ASOW-22-NECCT-SPG-391	C	NECCT	7.4	0.7	Ind	1-0	-3	3	Gravelly	Gravelly Sand	P	N	N	Sand dollar	None	N	N	Ind	Coarse to very coarse sand, some granules.
ASOW-22-NECCT-SPG-398	A	NECCT	5.0	1.4	Ind	3-2	0	3	Sand	Fine/Very Fine Sand	P	N	N	Sand dollar, Hermit crab	None	N	N	Ind	Fine to medium, slightly rippled with trace of shell.
ASOW-22-NECCT-SPG-398	C	NECCT	5.8	0.8	Ind	2-1	0	3	Sand	Medium Sand	P	N	N	Sand dollar, Nassariid snail	None	N	N	Ind	Gently rippled medium to fine sand, darker sand grains at depth.
ASOW-22-NECCT-SPG-398	E	NECCT	6.1	1.9	Ind	2-1	0	3	Sand	Medium Sand	P	N	N	Sand dollar, Nassariid snail	None	N	N	Ind	Medium sand, trace of shell hash. Sand clast on SWI.
ASOW-22-NECCT-SPG-409	A	NECCT	5.3	1.2	Ind	2-1	-1	3	Sand	Medium Sand	P	N	N	Hermit crab	None	N	N	Ind	Rippled medium sand to coarse sand. Few granules, buried sand dollar. Sand clasts on SWI.
ASOW-22-NECCT-SPG-409	B	NECCT	6.6	1.1	Ind	2-1	-1	3	Sand	Medium Sand	B	N	N	Hermit crab	None	N	N	Ind	Medium sand, some coarse particles.
ASOW-22-NECCT-SPG-409	C	NECCT	4.9	0.7	Ind	2-1	-1	3	Sand	Medium Sand	P	N	N	Nassariid snail	None	N	N	Ind	Medium sand, few granules and shell hash at depth. Forams or sand clasts on surface.
ASOW-22-NECCT-SPG-417	A	NECCT	6.3	2.0	Ind	1-0	-2	2	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Coarse sand with trace of gravel. Buried sand dollar and shell.
ASOW-22-NECCT-SPG-417	C	NECCT	4.4	0.6	Ind	1-0	-4	2	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Coarse sands with gravels in top cm and on SWI, trace of shell.
ASOW-22-NECCT-SPG-417	D	NECCT	4.5	1.1	Ind	1-0	-2	2	Sand	Very Coarse/Coarse Sand	P	N	N	Diopatra	None	N	N	Ind	Rippled coarse to medium sand, few granules.
ASOW-22-NECCT-SPG-435	A	NECCT	4.8	0.8	Ind	1-0	-1	3	Sand	Very Coarse/Coarse Sand	P	N	N	Hermit crab	None	N	N	Ind	Coarse to medium sand, slightly finer with depth. Detritus, shell hash on SWI.
ASOW-22-NECCT-SPG-435	B	NECCT	4.6	0.4	Ind	1-0	-2	2	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Coarse to very coarse sand, trace of shell. Sand clasts and sand dollars on SWI.
ASOW-22-NECCT-SPG-435	C	NECCT	4.9	1.4	Ind	1-0	-1	3	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Coarse sand, few coarser grains and shell near SWI.
ASOW-22-NECCT-SPG-461	A	NECCT	5.1	1.2	Ind	1-0	-3	3	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Mixed coarse to medium sand with granules. Sand dollar on SWI.
ASOW-22-NECCT-SPG-461	D	NECCT	6.1	2.9	Ind	2-1	-1	3	Sand	Medium Sand	P	N	N	Sand dollar	None	N	N	Ind	Rippled medium sands over coarse sands, shell hash buried at depth.
ASOW-22-NECCT-SPG-461	E	NECCT	4.9	3.1	Ind	1-0	-1	2	Sand	Very Coarse/Coarse Sand	P	N	N	Sand dollar	None	N	N	Ind	Coarse to medium sand, few pebble/granules near SWI.
ASOW-22-NECCT-SPG-569	A	NECCT	2.8	0.4	Ind	1-0	-2	3	Sand	Very Coarse/Coarse Sand	P	N	N	Nassariid snail	None	N	N	Ind	Coarse sands with few granule sand shell. Sand tubes on surface.
ASOW-22-NECCT-SPG-569	C	NECCT	5.4	0.5	Ind	1-0	-3	3	Sand	Very Coarse/Coarse Sand	P	N	N	Nassariid snail	None	N	N	Ind	Coarse sand with gravel, sand tubes on surface.
ASOW-22-NECCT-SPG-569	E	NECCT	3.9	1.6	Ind	1-0	-1	2	Sand	Very Coarse/Coarse Sand	P	N	N	None	None	N	N	Ind	Rippled coarse sand, trace of shell.
ASOW-22-NECCT-SPG-612	B	NECCT	3.3	2.5	1.2	3-2	1	4	Sand	Fine/Very Fine Sand	P	N	N	Moon Snail, Nassariid snail	None	N	N	Ind	Rippled, well-sorted fine to medium sand.
ASOW-22-NECCT-SPG-612	C	NECCT	3.5	3.9	0.9	3-2	1	4	Sand	Fine/Very Fine Sand	P	N	N	None	None	N	N	Ind	Rippled fine to medium sand with trace of shell hash. Possible agglutinating forams and on SWI.
ASOW-22-NECCT-SPG-612	D	NECCT	2.1	2.0	0.9	3-2	1	4	Sand	Fine/Very Fine Sand	P	N	N	Diopatra	None	N	N	Ind	Rippled fine to medium sand, some fine shell particles.
ASOW-22-NECCT-SPG-616	A	NECCT	0.3	0.7	Ind	2-1	-7	3	Sand	Medium Sand	P	N	N	Barnacles, Hydroids	None	N	N	Ind	Boulder on medium sand, minimal penetration.

Notes:

Bolded Stations = single replicate transect stations
aRPD = apparent redox potential discontinuity
B = biogenic
CMECS = Coastal and Marine Ecological Classification Standard
Ind = indeterminate
N = no
NA = not applicable
P = physical
SPI = sediment profile imaging
SWI = sediment–water interface
UTC = Coordinated Universal Time
Y = yes

Appendix C2

PV Image Data Set

Plan View Image Analysis Results, Atlantic Shores Offshore Wind, 2022

							CMECS Substrate Classifications						
Station ID	Replicate	Location	Image Width (cm)[a]	Image Height (cm)[a]	Image FOV (cm^2)[a]	Image FOV (m^2)[a]	Substrate Class	Substrate Subclass	Substrate Group	Substrate Subgroup	Substrate Group Percent	Habitat Type	Ripples Presence and Wavelength (cm)
ASOW0549-22-OCS-SP-418	A	OCS-A 0549	91	61	5518	0.55	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 97, Shell 2, Pebble/Granule 1	Sand with shell fragments	N
ASOW0549-22-OCS-SP-418	B	OCS-A 0549	85	57	4792	0.48	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 97, Pebble/Granule 2, Shell 1	Sand with granules and shell fragments	N
ASOW0549-22-OCS-SP-418	C	OCS-A 0549	86	57	4950	0.50	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 90, Pebble/Granule 9, Shell 1	Sand with gravel and very few shell fragments	N
ASOW0549-22-OCS-SP-421	A	OCS-A 0549	81	54	4411	0.44	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 98, Pebble/Granule 1, Shell 1	Sand with trace of shell and gravel	N
ASOW0549-22-OCS-SP-421	C	OCS-A 0549	90	60	5405	0.54	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 95, Pebble/Granule 4, Shell 1	Sand with gravel and shell fragments	N
ASOW0549-22-OCS-SP-421	E	OCS-A 0549	83	56	4636	0.46	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 95, Pebble/Granule 3, Shell 2	Sand with gravel and shell fragments	N
ASOW0549-22-OCS-SP-422	C	OCS-A 0549	87	58	5016	0.50	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Pebble/Granule 60, Sand 37, Shell 3	Hard Bottom Substrate	N
ASOW0549-22-OCS-SP-422	D	OCS-A 0549	83	55	4550	0.46	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 98, Shell 2	Sand with few shell fragments	N
ASOW0549-22-OCS-SP-422	E	OCS-A 0549	82	54	4437	0.44	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 99, Shell 1	Sand with shell fragments	N
ASOW0549-22-OCS-SP-429	A	OCS-A 0549	82	55	4467	0.45	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 75, Pebble/Granule 20, Shell 5	Sand with gravel and shell	N
ASOW0549-22-OCS-SP-429	C	OCS-A 0549	84	56	4706	0.47	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Pebble/Granule 60, Sand 35, Shell 5	Hard Bottom Substrate	N
ASOW0549-22-OCS-SP-429	D	OCS-A 0549	83	55	4581	0.46	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 96, Shell 3, Pebble/Granule 1	Sand with shell fragments	N
ASOW0549-22-OCS-SP-430	A	OCS-A 0549	84	56	4757	0.48	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 96, Shell 3, Pebble/Granule 1	Sand with shell fragments and few granules/pebbles	N
ASOW0549-22-OCS-SP-430	B	OCS-A 0549	79	53	4168	0.42	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 92, Pebble/Granule 5, Shell 3	Sand with gravel and shell	Y, Ind
ASOW0549-22-OCS-SP-430	C	OCS-A 0549	84	56	4731	0.47	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 99, Shell 1	Sand with very few shell fragments	N
ASOW0549-22-OCS-SP-431	A	OCS-A 0549	78	52	4095	0.41	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Pebble/Granule 75, Sand 23, Shell 2	Hard Bottom Substrate	N
ASOW0549-22-OCS-SP-431	B	OCS-A 0549	83	55	4609	0.46	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 60, Pebbles/Granule 38, Shell 2	Hard Bottom Substrate	N
ASOW0549-22-OCS-SP-431	D	OCS-A 0549	82	55	4518	0.45	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 70, Pebble/Granule 28, Shell 2	Sand with gravel and shell	N
ASOW0549-22-OCS-SP-434	A	OCS-A 0549	89	59	5258	0.53	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 50, Pebble/Granule 40, Shell 10	Hard Bottom Substrate	Y, Ind
ASOW0549-22-OCS-SP-434	C	OCS-A 0549	97	65	6337	0.63	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 70, Pebble/Granule 28, Shell 2	Sand with gravel	Y, Ind
ASOW0549-22-OCS-SP-434	D	OCS-A 0549	78	52	4095	0.41	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 55, Pebble/Granule 40, Shell 5	Rippled sand with gravel and shell	Y, Ind
ASOW0549-22-OCS-SP-437	A	OCS-A 0549	78	52	4077	0.41	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 75, Pebble/Granule 24, Shell 1	Rippled sand with gravel	Y, 15
ASOW0549-22-OCS-SP-437	B	OCS-A 0549	84	56	4729	0.47	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 80, Pebble/Granule 18, Shell 2	Rippled sand with gravel	Y, 21
ASOW0549-22-OCS-SP-437	C	OCS-A 0549	86	57	4954	0.50	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 74, Pebble/Granule 25, Shell 1	Rippled sand with gravels	Y, 20
ASOW0549-22-OCS-SP-438	A	OCS-A 0549	77	51	3951	0.40	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 80, Pebble/Granule 18, Shell 2	Sand with gravel and shell	N
ASOW0549-22-OCS-SP-438	D	OCS-A 0549	89	60	5336	0.53	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 94, Pebble/Granule 4, Shell 2	Sand with gravel and shell fragments	N
ASOW0549-22-OCS-SP-438	E	OCS-A 0549	81	54	4328	0.43	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 97, Shell 2, Pebble/Granule 1	Sand with few granules and shell fragments	N
ASOW0549-22-OCS-SP-439	B	OCS-A 0549	73	49	3584	0.36	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 65, Pebble/Granule 33, Shell 2	Hard Bottom Substrate	N
ASOW0549-22-OCS-SP-439	C	OCS-A 0549	79	53	4170	0.42	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 82, Pebble/Granule 15, Shell 3	Hard Bottom Substrate	N
ASOW0549-22-OCS-SP-439	E	OCS-A 0549	81	54	4330	0.43	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 80, Pebble/Granule 18, Shell 2	Hard Bottom Substrate	N
ASOW0549-22-OCS-SP-442	A	OCS-A 0549	90	60	5436	0.54	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 57, Pebble/Granule 40, Shell 3	Hard Bottom Substrate	N
ASOW0549-22-OCS-SP-442	B	OCS-A 0549	83	55	4609	0.46	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 60, Pebble/Granule 38, Shell 2	Hard Bottom Substrate	Y, Ind

Plan View Image Analysis Results, Atlantic Shores Offshore Wind, 2022

								CMECS Biotic Classifications					
Station ID	Replicate	Location	Burrows	Tubes	Tracks	Epifauna, Infauna & Fish Types and Counts	Macroalgae Presence[b]	Eel Grass Types[c] and Counts	Biotic Subclass	Co-occurring Biotic Subclass	Biotic Group	Co-occurring Biotic Group	Comments
ASOW0549-22-OCS-SP-418	A	OCS-A 0549	N	Y	Y	Diopatra (3), Snail (2)	N	None	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Mobile Mollusks on Soft Sediments	Medium to fine sand with large spisula shell. Few granules, many tracks.
ASOW0549-22-OCS-SP-418	B	OCS-A 0549	N	Y	Y	Diopatra (4), Sand dollar (2), Snail (1)	N	None	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Sand Dollar Bed	Medium sand with some granules and few shell fragments. Many tracks and trails.
ASOW0549-22-OCS-SP-418	C	OCS-A 0549	N	Y	Y	Sand dollar (9), Diopatra (2)	N	NA	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Medium sand with pebble/granules and shell fragments.
ASOW0549-22-OCS-SP-421	A	OCS-A 0549	Y	Y	Y	Sand dollar (11), Snail (3)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Medium to fine sand with few shell fragments.
ASOW0549-22-OCS-SP-421	C	OCS-A 0549	N	N	Y	Sand dollar (5), Hermit crab (3)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Coarse sand with pebble/granules and some shell fragments. Numerous tracks and trails.
ASOW0549-22-OCS-SP-421	E	OCS-A 0549	N	N	Y	Sand dollar (7), Hermit crab (4)	N	NA	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Medium sand with some pebble/granules towards bottom of image. Numerous tracks and trails.
ASOW0549-22-OCS-SP-422	C	OCS-A 0549	N	N	Y	Hermit crab (20), Burrowing Anemone (2)	N	None	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Burrowing Anemones	Pebble/granules with some medium sand and few shell fragments.
ASOW0549-22-OCS-SP-422	D	OCS-A 0549	N	Y	Y	Hermit crab (15), Snail (5), Hydroids (1)	N	None	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	Mobile Mollusks on Soft Sediments	Fine sand with a very high concentration of sand tubes or possible tunicate, few bivalve shells.
ASOW0549-22-OCS-SP-422	E	OCS-A 0549	N	N	Y	Hermit crab (7), Snail (6)	N	NA	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	Mobile Mollusks on Soft Sediments	Fine sand with numerous hermit crabs and snails, and associated tracks and trails.
ASOW0549-22-OCS-SP-429	A	OCS-A 0549	N	Y	N	Hermit crab (12), Nassariid snail (3), Sand dollar (1)	N	None	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	Mobile Mollusks on Hard or Mixed Substrates	Sand with gravel and shell. Many possible sand tubes/possible tunicate.
ASOW0549-22-OCS-SP-429	C	OCS-A 0549	N	Y	N	Hermit crab (7), Diopatra (1)	N	NA	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Pebble/Granules with fine and coarse sand. Shell fragments.
ASOW0549-22-OCS-SP-429	D	OCS-A 0549	N	Y	Y	Hermit crab (18), Snail (3)	N	None	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	Mobile Mollusks on Soft Sediments	Medium sand with few shell fragments. Possible sand tubes/possible tunicate.
ASOW0549-22-OCS-SP-430	A	OCS-A 0549	N	Y	Y	Diopatra (8), Hermit crab (3), Sand dollar (2)	N	None	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Mobile Crustaceans on Soft Sediments	Medium sand with shell fragments and few granules/pebbles.
ASOW0549-22-OCS-SP-430	B	OCS-A 0549	N	N	Y	Hermit crab (6)	N	NA	Soft Sediment Fauna	Inferred Fauna	Mobile Crustaceans on Soft Sediments	Tracks and Trails	Rippled medium sand with pebbles/granules and shell fragments.
ASOW0549-22-OCS-SP-430	C	OCS-A 0549	N	Y	Y	Hermit crab (3), Diopatra (1)	N	None	Soft Sediment Fauna	Inferred Fauna	Mobile Crustaceans on Soft Sediments	Tracks and Trails	Medium sand with moderate amount of possible sand tubes/possible tunicate.
ASOW0549-22-OCS-SP-431	A	OCS-A 0549	N	Y	N	Hermit crab (12)	N	None	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	None	Pebble/Granules over sand. Sandy areas have sand tubes/possible tunicate.
ASOW0549-22-OCS-SP-431	B	OCS-A 0549	N	Y	Y	Hermit crabs (~25), Diopatra (6)	N	None	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Coarse to medium sand with pebble/granules. Numerous possible sand tubes/possible tunicate.
ASOW0549-22-OCS-SP-431	D	OCS-A 0549	N	Y	Y	Hermit crab (7), Diopatra (3), Barnacles (10)	N	NA	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Medium sand with coarse sand and pebble/granules. Barnacles on one bivalve shell fragment.
ASOW0549-22-OCS-SP-434	A	OCS-A 0549	N	Y	Y	Hermit crab (3), Diopatra (3), Limpets (2)	N	None	Soft Sediment Fauna	Attached Fauna	Larger Tube-Building Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Rippled medium to coarse sand with pebble/granules and shell.
ASOW0549-22-OCS-SP-434	C	OCS-A 0549	N	Y	Y	Diopatra (6), Snail (3)	N	None	Soft Sediment Fauna	Attached Fauna	Larger Tube-Building Fauna	Mobile Mollusks on Hard or Mixed Substrates	Rippled very coarse sand with pebble/granules and shell fragments.
ASOW0549-22-OCS-SP-434	D	OCS-A 0549	N	N	N	Hermit crab (3)	N	None	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	None	Rippled very coarse sand with granules and shell fragments. Very few epifauna.
ASOW0549-22-OCS-SP-437	A	OCS-A 0549	N	N	Y	Hermit crab (1)	N	None	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	None	Rippled fine sands with pebble/granules in troughs. Few tracks and trails.
ASOW0549-22-OCS-SP-437	B	OCS-A 0549	N	N	Y	Mussels (12), Hermit crab (3), Crepidula (1)	N	None	Attached Fauna	NA	Attached Mussels	Mobile Crustaceans on Hard or Mixed Substrates	Fine sand with granules and coarse sand in troughs. Mussels attached to pebble/granules in troughs. One crepidula, large spisula clam shell.
ASOW0549-22-OCS-SP-437	C	OCS-A 0549	N	N	Y	Mussel (1)	N	None	Attached Fauna	Inferred Fauna	Attached Mussels	Tracks and Trails	Fine sand with pebble/granules in troughs. Mussel on right side of image. Few tracks.
ASOW0549-22-OCS-SP-438	A	OCS-A 0549	N	Y	Y	Diopatra (7), Sand dollar (3), Hermit crab (3)	N	None	Soft Sediment Fauna	Attached Fauna	Larger Tube-Building Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Sand from fine to coarse with granules. Numerous tracks and trails.
ASOW0549-22-OCS-SP-438	D	OCS-A 0549	N	Y	Y	Hermit crab (6), Diopatra (3), Astarte clam (2)	N	None	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	Larger Tube-Building Fauna	Sand with few granules and shell fragments. Some possible sand tubes/possible tunicate.
ASOW0549-22-OCS-SP-438	E	OCS-A 0549	N	Y	Y	Hermit crab (8), Snail (3), Skate egg case (1)	N	None	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	Mobile Mollusks on Soft Sediments	Sand with few granules and shell fragments. Dense clusters of sand tubes, possible tunicate or sand clasts, few tubes.
ASOW0549-22-OCS-SP-439	B	OCS-A 0549	N	Y	Y	Hermit crab (6), Mussels (2), Sand dollar (2), Diopatra (1), Skate egg case (1)	N	None	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Sand Dollar Bed	Very coarse sand and some granules and shell fragments. Possible sand tubes or tunicate.
ASOW0549-22-OCS-SP-439	C	OCS-A 0549	N	Y	Y	Hermit crab (6), Diopatra (1)	N	None	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Medium to coarse sand with granules/pebbles. Dense cluster of possible sand tubes/tunicate.
ASOW0549-22-OCS-SP-439	E	OCS-A 0549	N	Y	Y	Hermit crab (10), Snail (2), Sand dollar (1)	N	None	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Sand Dollar Bed	Medium sand with very coarse sand, some granules and shell fragments. Dense cluster of possible sand tubes/tunicate.
ASOW0549-22-OCS-SP-442	A	OCS-A 0549	N	Y	Y	Hermit crab (9), Gastropod egg case (1), Sea Star (1), Hydroids	N	None	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	Attached Hydroids	Sand with pebble/granules and shell fragments. Hydroids attached to bivalve shell. Sand tubes/tunicate cluster in sand portion of frame.
ASOW0549-22-OCS-SP-442	B	OCS-A 0549	N	Y	Y	Hermit crab (4), Diopatra (4), Astarte clams (3)	N	None	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Sand and pebble/granules with shell fragments. Few possible sand tubes/tunicate.

Plan View Image Analysis Results, Atlantic Shores Offshore Wind, 2022

							CMECS Substrate Classifications						
Station ID	Replicate	Location	Image Width (cm)[a]	Image Height (cm)[a]	Image FOV (cm^2)[a]	Image FOV (m^2)[a]	Substrate Class	Substrate Subclass	Substrate Group	Substrate Subgroup	Substrate Group Percent	Habitat Type	Ripples Presence and Wavelength (cm)
ASOW0549-22-OCS-SP-442	C	OCS-A 0549	86	57	4948	0.49	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 65, Pebble/Granule 25, Shell 10	Hard Bottom Substrate	N
ASOW0549-22-OCS-SP-443	A	OCS-A 0549	85	57	4853	0.49	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 93, Pebble/Granule 4, Shell 3	Sand with few pebble/granules and shell fragments	N
ASOW0549-22-OCS-SP-443	C	OCS-A 0549	83	55	4609	0.46	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 80, Pebble/Granule 15, Shell 5	Sand with gravel and shell	N
ASOW0549-22-OCS-SP-443	E	OCS-A 0549	87	58	5021	0.50	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 75, Pebble/Granule 20, Shell 5	Sand with gravel and shell	N
ASOW0549-22-OCS-SP-444	A	OCS-A 0549	78	52	4095	0.41	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 98, Shell 2, Pebbles/Granule <1	Rippled sand with shell and trace of gravel	Y, Ind
ASOW0549-22-OCS-SP-444	B	OCS-A 0549	88	59	5157	0.52	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 96, Shell 3, Pebble/Granule 1	Sand with shell and trace of gravel	N
ASOW0549-22-OCS-SP-444	C	OCS-A 0549	82	54	4439	0.44	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 97, Shell 2, Pebble/Granule 1	Sand with shell fragments and very few pebble/granules	N
ASOW0549-22-OCS-SP-445	A	OCS-A 0549	88	59	5220	0.52	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 92, Silt 3, Pebble/Granule 3, Shell 2	Rippled sand with silt, gravel and shell hash	Y, Ind
ASOW0549-22-OCS-SP-445	B	OCS-A 0549	85	57	4820	0.48	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 87, Shell 10, Pebble/Granule 3	Rippled sand with shell fragments and few granules	Y, 40
ASOW0549-22-OCS-SP-445	E	OCS-A 0549	86	58	4976	0.50	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 90, Silt 5, Shell 3, Pebble/Granule 2	Rippled sand with shell fragments and gravel	Y, 80
ASOW0549-22-OCS-SP-447	A	OCS-A 0549	77	51	3954	0.40	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 80, Pebble/Granule 15, Shell 3, Silt 2	Rippled sand with gravel and shell	Y, Ind
ASOW0549-22-OCS-SP-447	C	OCS-A 0549	96	64	6141	0.61	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 50, Pebble/Granule 45, Shell 5	Hard bottom substrate with sand	Y, Ind
ASOW0549-22-OCS-SP-447	D	OCS-A 0549	72	48	3411	0.34	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 59, Pebble/Granule 40, Shell 1	Hard bottom substrate over rippled sand	Y, Ind
ASOW0549-22-OCS-SP-449	B	OCS-A 0549	91	60	5477	0.55	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 60, Shell 25, Pebble/Granule 15	Rippled sand with shell and gravel	Y, 65
ASOW0549-22-OCS-SP-449	C	OCS-A 0549	84	56	4698	0.47	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 90, Shell 5, Pebble/Granule 5	Sand with gravel and shell hash	Y, Ind
ASOW0549-22-OCS-SP-449	D	OCS-A 0549	83	55	4611	0.46	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 70, Shell 15, Pebble/Granule 15	Rippled sand with gravel and shell	Y, 48
ASOW0549-22-OCS-SP-450	A	OCS-A 0549	81	54	4382	0.44	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 95, Shell 3, Pebble/Granule 1, Silt 1	Sand with few shell fragments	N
ASOW0549-22-OCS-SP-450	D	OCS-A 0549	77	51	3972	0.40	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 80, Pebble/Granule 10, Shell 10	Hard Bottom Substrate	N
ASOW0549-22-OCS-SP-450	E	OCS-A 0549	77	52	4003	0.40	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 65, Pebble/Granule 30, Shell 5	Hard bottom substrate with sand	N
ASOW0549-22-OCS-SP-455	A	OCS-A 0549	78	52	4017	0.40	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 74, Pebble/Granule 25, Shell 1	Sand with gravel and shell	N
ASOW0549-22-OCS-SP-455	D	OCS-A 0549	77	52	3998	0.40	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 65, Pebble/Granule 33, Shell 2	Hard bottom substrate over rippled sand	Y, 7
ASOW0549-22-OCS-SP-455	E	OCS-A 0549	89	59	5289	0.53	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 65, Pebble/Granule 32, Shell 3	Hard bottom substrate on rippled sand	Y, 10
ASOW0549-22-OCS-SP-460	A	OCS-A 0549	87	58	5014	0.50	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 91, Shell 4, Pebble/Granule 4	Ripples sand with shell and gravel	Y Ind
ASOW0549-22-OCS-SP-460	D	OCS-A 0549	83	55	4579	0.46	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 95, Pebble/Granule 3, Shell 2	Rippled sand with gravel and shell	Y, Ind
ASOW0549-22-OCS-SP-460	E	OCS-A 0549	91	60	5477	0.55	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 90, Shell 6, Pebble/Granule 4	Rippled sands with shell fragments	Y, Ind
ASOW0549-22-OCS-SP-465	B	OCS-A 0549	88	58	5127	0.51	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 99, Shell 1, Pebble/Granule <1	Rippled sand with shell hash	Y, 10
ASOW0549-22-OCS-SP-465	D	OCS-A 0549	84	56	4727	0.47	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 97, Silt 2, Shell 1, Pebble/Granule <1	Rippled sand with silt and shell hash	Y, Ind
ASOW0549-22-OCS-SP-465	E	OCS-A 0549	90	60	5442	0.54	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 97, Silt 2, Shell 1	Rippled sand trace of silt and shell hash	Y, Ind
ASOW0549-22-OCS-SP-468	A	OCS-A 0549	85	57	4849	0.48	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Muddy Sandy Gravel	Mud 40, Pebble/Granule 30, Shell 15, Sand 15	Hard Bottom Substrate	N
ASOW0549-22-OCS-SP-468	C	OCS-A 0549	72	48	3424	0.34	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 75, Pebble/Granule 22, Silt 2, Shell 1	Sand with gravel and shell fragments	N

Plan View Image Analysis Results, Atlantic Shores Offshore Wind, 2022

								CMECS Biotic Classifications				
Station ID	Replicate	Location	Burrows	Tubes	Tracks	Epifauna, Infauna & Fish Types and Counts	Macroalgae Presence[b]	Eel Grass Types[c] and Counts	Biotic Subclass	Co-occurring Biotic Subclass	Biotic Group	Co-occurring Biotic Group	Comments
ASOW0549-22-OCS-SP-442	C	OCS-A 0549	N	Y	N	Hermit crab (9), Diopatra (1), Astarte clam (1)	N	None	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Sand with pebble/granules and shell fragments.
ASOW0549-22-OCS-SP-443	A	OCS-A 0549	N	Y	Y	Hermit crab (10), Snail (10), Diopatra (2), Astarte clam (1)	N	None	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	Mobile Mollusks on Soft Sediments	Sand with few pebble granules and shell fragments. Possible sand tubes/tunicate.
ASOW0549-22-OCS-SP-443	C	OCS-A 0549	N	Y	Y	Mussels (~8), Barnacles, Diopatra (5), Hermit crab (4), Sand dollar (1)	N	None	Attached Fauna	Soft Sediment Fauna	Attached Mussels	Larger Tube-Building Fauna	Sand with granules and shell fragments. Cluster of live mussels lower right in image with barnacles attached.
ASOW0549-22-OCS-SP-443	E	OCS-A 0549	N	Y	N	Diopatra (7), Hermit crabs (3), Astarte clam (1)	N	None	Soft Sediment Fauna	Attached Fauna	Larger Tube-Building Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Sand with pebble/granules and shell fragments.
ASOW0549-22-OCS-SP-444	A	OCS-A 0549	N	N	Y	Sand dollar (50), Astarte clam (3), Snail (2)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Clam Bed	Rippled coarse sand with some shell fragments. Tracks and trails.
ASOW0549-22-OCS-SP-444	B	OCS-A 0549	N	N	Y	Sand dollar (38), Astarte clam (5)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Clam Bed	Sand with shell fragments. Surface heavily reworked by sand dollars.
ASOW0549-22-OCS-SP-444	C	OCS-A 0549	N	N	Y	Sand dollar (83), Astarte clam (3), Snail (2)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Clam Bed	Sand with few granules and shell fragments. Surface heavily reworked by sand dollars.
ASOW0549-22-OCS-SP-445	A	OCS-A 0549	N	Y	Y	Sand dollar (48), Hermit crab (1), Astarte clam (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Rippled coarse sand. Image captured portion of large period ripple. Coarse particles and veneer of silt in trough.
ASOW0549-22-OCS-SP-445	B	OCS-A 0549	N	Y	Y	Sand dollar (4), Diopatra (3), Hermit crab (3), Barnacles	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Coarse sand with shell fragments and larger bivalve shells. Barnacles are very small attached to Spisula shell.
ASOW0549-22-OCS-SP-445	E	OCS-A 0549	N	Y	Y	Sand dollar (4), Snail (4), Hermit crab (2), Astarte clam (1), Diopatra (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Coarse sand with coarser particles and veneer of silt in trough between ripple crests.
ASOW0549-22-OCS-SP-447	A	OCS-A 0549	N	Y	Y	Hermit crab (5), Astarte clam (1), Sand dollar (1)	N	None	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Very coarse sand and granules with shell fragments and veneer of silt. Some worm tubes and sand clasts.
ASOW0549-22-OCS-SP-447	C	OCS-A 0549	N	Y	Y	Hermit crab (4), Diopatra (1), crab (1), Nudibranch (1), Astarte clam (1)	N	None	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Gravels and very coarse sand, shell fragments in trough between ripples.
ASOW0549-22-OCS-SP-447	D	OCS-A 0549	N	N	Y	Sand dollar (4), Hermit crab (3), Astarte clam (1)	N	None	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Hard or Mixed Substrates	Gravels atop rippled coarse sand with few shell fragments. Captured portion of ripple.
ASOW0549-22-OCS-SP-449	B	OCS-A 0549	N	Y	Y	Hermit crab (~20), Sea Star (3), Sand dollar (3), Diopatra (3), Crepidula (3), Anemone (1),	N	None	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Rippled coarse sand with many shell fragments and coarser particles in troughs between ripple crests. Two sea stars top right image. Possible crepidula shells. Anthropogenically disturbed?
ASOW0549-22-OCS-SP-449	C	OCS-A 0549	N	Y	Y	Hermit crab (5), Sand dollar (3), Diopatra (2)	N	NA	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Sand Dollar Bed	Mixture of medium and coarse sand with granule/pebbles and shell fragments. Coarse particles in troughs between ripple crests. Possible sand tubes/tunicate throughout frame.
ASOW0549-22-OCS-SP-449	D	OCS-A 0549	N	Y	Y	Hermit crab (11), Sand dollar (7), Diopatra (3)	N	NA	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Sand Dollar Bed	Medium and coarse sand with shell fragments and pebble/granule in troughs. Few possible sand tubes/tunicate.
ASOW0549-22-OCS-SP-450	A	OCS-A 0549	Y	Y	N	Diopatra (5), Sand dollar (1), Astarte clam (1)	N	None	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Sand Dollar Bed	Sand with possible sand tubes/tunicate top 1/3 of image, some shell hash, veneer of silt or deposited flocculant material.
ASOW0549-22-OCS-SP-450	D	OCS-A 0549	N	Y	Y	Diopatra (8), Hermit crab (4)	N	None	Soft Sediment Fauna	Attached Fauna	Larger Tube-Building Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Sand with numerous bivalve shells and few granules.
ASOW0549-22-OCS-SP-450	E	OCS-A 0549	N	N	Y	Hermit crab (6)	N	None	Attached Fauna	Inferred Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Tracks and Trails	Coarse sand with pebble/granules and bivalve shells. Few possible sand tubes/tunicate.
ASOW0549-22-OCS-SP-455	A	OCS-A 0549	N	N	Y	Sand dollar (19), Hermit crab (2), Astarte clam (2)	N	None	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Hard or Mixed Substrates	Medium to coarse sand with pebble/granules. Dense patch of pebble/granules upper right image.
ASOW0549-22-OCS-SP-455	D	OCS-A 0549	N	Y	Y	Sand dollar (5), Astarte clam (2), Hermit crab (1), Diopatra (1)	N	None	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Hard or Mixed Substrates	Sand with numerous pebble/granules, trace of shell hash.
ASOW0549-22-OCS-SP-455	E	OCS-A 0549	N	N	Y	Sand dollar (7), Astarte clam (2), Hermit crab (1), Nassariid snail (1)	N	None	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Hard or Mixed Substrates	Rippled sand (eroded) with pebble/granules and shell fragments. Surface reworked by sand dollars.
ASOW0549-22-OCS-SP-460	A	OCS-A 0549	N	Y	Y	Diopatra (7), Sand dollar (4), Sea Star 1, Moon snail egg case (1), Hermit crab (1), Snail (1), Astarte clam (1)	N	None	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Sand Dollar Bed	Coarse sand with shell and coarser particles in depressions. Diverse species of epifauna throughout image.
ASOW0549-22-OCS-SP-460	D	OCS-A 0549	N	Y	Y	Sand dollar (15), Diopatra (2), Skate egg case (1), Snail (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Rippled coarse to medium sand, heavily re-worked by sand dollars. Ripples evident, wavelength indeterminate.
ASOW0549-22-OCS-SP-460	E	OCS-A 0549	N	Y	Y	Sand dollar (7), Hermit crabs (3), Diopatra (1), Tunicate Siphon (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Coarse sand with shell fragments and larger spisula shells. Coarse particles in trough between ripples. Many tracks and trails.
ASOW0549-22-OCS-SP-465	B	OCS-A 0549	N	N	Y	Sand dollar (~75), Hermit crab (2)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Rippled sand with few shell fragments. A moderate amount of sand clasts and tracks.
ASOW0549-22-OCS-SP-465	D	OCS-A 0549	N	Y	Y	Sand dollar (61), Snail (3), Tunicate Siphon (2), Diopatra (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Rippled medium sand with few shell fragments and numerous sand clasts, trace of deposited silt or detritus. Two circular single siphons, from a tunicate.
ASOW0549-22-OCS-SP-465	E	OCS-A 0549	N	Y	Y	Sand dollar (70), Hermit crab (2), Snail (2), Sponge (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Medium to fine sand. Upper portion of image many sand clasts and trace of silt. Orange sponge lower center image.
ASOW0549-22-OCS-SP-468	A	OCS-A 0549	N	N	N	Astarte clam (6), Hermit crab (3), crab (1), Skate egg case (1)	N	None	Soft Sediment Fauna	Attached Fauna	Clam Bed	Mobile Crustaceans on Hard or Mixed Substrates	Clay outcrop in middle of image with pebble/granules and sand. Many bivalve shells.
ASOW0549-22-OCS-SP-468	C	OCS-A 0549	N	N	Y	Hermit crab (2), Cerianthid anemone (1)	N	None	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Burrowing Anemones	Coarse sand and gravels with ceranthid, trace of shell.

Plan View Image Analysis Results, Atlantic Shores Offshore Wind, 2022

							CMECS Substrate Classifications						
Station ID	Replicate	Location	Image Width (cm)[a]	Image Height (cm)[a]	Image FOV (cm^2)[a]	Image FOV (m^2)[a]	Substrate Class	Substrate Subclass	Substrate Group	Substrate Subgroup	Substrate Group Percent	Habitat Type	Ripples Presence and Wavelength (cm)
ASOW0549-22-OCS-SP-468	D	OCS-A 0549	81	54	4404	0.44	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 55, Pebble/Granule 30, Shell 15	Hard bottom substrate with sand	N
ASOW0549-22-OCS-SP-471	A	OCS-A 0549	84	56	4702	0.47	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 55, Pebble/Granule 30, Shell 15	Hard bottom substrate and rippled sand with shell	Y, 14
ASOW0549-22-OCS-SP-471	B	OCS-A 0549	90	60	5370	0.54	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 70, Shell 15, Pebble/Granule 15	Sand with shell and gravel	Y, 10
ASOW0549-22-OCS-SP-471	D	OCS-A 0549	78	52	4029	0.40	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 55, Pebble/Granule 35, Shell 10	Hard Bottom Substrate	Y, 13
ASOW0549-22-OCS-SPC-474	A	OCS-A 0549	82	55	4504	0.45	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 97, Shell 3	Sand with some shell hash	N
ASOW0549-22-OCS-SPC-474	B	OCS-A 0549	91	61	5571	0.56	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 99, Shell 1	Rippled sand with shell	Y, 18
ASOW0549-22-OCS-SPC-474	C	OCS-A 0549	89	60	5327	0.53	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 98, Shell 2	Rippled sand with shell hash	Y, Ind
ASOW0549-22-OCS-SPC-475	A	OCS-A 0549	87	58	5033	0.50	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 90, Shell 10	Rippled sand with shell hash	Y, Ind
ASOW0549-22-OCS-SPC-475	B	OCS-A 0549	91	60	5463	0.55	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 92, Shell 8	Sand with shell hash	Y, Ind
ASOW0549-22-OCS-SPC-475	C	OCS-A 0549	90	60	5388	0.54	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 95, Silt 3, Shell 2	Sand with shell hash and deposited silt	N
ASOW0549-22-OCS-SPC-477	A	OCS-A 0549	91	61	5503	0.55	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 97, Shell 2, Silt 1	Sand with shell hash	N
ASOW0549-22-OCS-SPC-477	B	OCS-A 0549	88	59	5174	0.52	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 97, Shell 3	Rippled medium sand with shell hash	Y, 48
ASOW0549-22-OCS-SPC-477	C	OCS-A 0549	89	59	5270	0.53	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 98, Shell 1, Silt 1	Partially rippled sand with shell hash	Y, Ind
ASOW0549-22-OCS-SPC-478	A	OCS-A 0549	87	58	5066	0.51	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 90, Shell 10	Rippled sand with shell hash	Y, Ind
ASOW0549-22-OCS-SPC-478	C	OCS-A 0549	89	59	5284	0.53	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 89, Shell 10, Silt 1	Rippled sand with shell hash	Y, Ind
ASOW0549-22-OCS-SPC-478	D	OCS-A 0549	87	58	5059	0.51	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 94, Shell 5, Silt 1	Sand with shell fragments	N
ASOW0549-22-OCS-SPG-427	A	OCS-A 0549	74	49	3644	0.36	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Pebble/Granule 68, Sand 30, Shell 2	Hard Bottom Substrate	N
ASOW0549-22-OCS-SPG-427	B	OCS-A 0549	86	57	4950	0.50	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Pebble/Granule 70, Sand 25, Shell 5	Hard Bottom Substrate	N
ASOW0549-22-OCS-SPG-427	C	OCS-A 0549	71	47	3374	0.34	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 65, Pebble/Granule 33, Shell 2	Hard Bottom Substrate	N
ASOW0549-22-OCS-SPG-453	B	OCS-A 0549	83	55	4609	0.46	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 97, Shell 3	Sand with shell fragments	N
ASOW0549-22-OCS-SPG-453	C	OCS-A 0549	82	55	4525	0.45	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 95, Shell 5	Sand with shell fragments	N
ASOW0549-22-OCS-SPG-453	D	OCS-A 0549	81	54	4389	0.44	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 99, Shell 1	Sand with few shell fragments	N
ASOW0549-22-OCS-SPGC-476	B	OCS-A 0549	83	55	4610	0.46	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 90, Shell 10	Rippled sand with shell hash	Y, Ind
ASOW0549-22-OCS-SPGC-476	C	OCS-A 0549	89	59	5247	0.52	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 98, Shell 2	Rippled sand with shell	Y, 11
ASOW0549-22-OCS-SPGC-476	D	OCS-A 0549	88	59	5152	0.52	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 95, Shell 5	Rippled sand with shell hash	N
ASOW-22-NECCNJ-SP-358	A	NECCNJ	89	59	5258	0.53	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 98, Shell 2	Sand with shell	N
ASOW-22-NECCNJ-SP-358	B	NECCNJ	89	59	5299	0.53	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 99, Shell 1	Sand sheet	N
ASOW-22-NECCNJ-SP-358	C	NECCNJ	92	61	5642	0.56	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 99, Shell 1	Sand with shell hash	Y, Ind
ASOW-22-NECCNJ-SP-359	B	NECCNJ	86	57	4938	0.49	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 90, Shell 6, Silt 4	Sand with silt and shell	Y, 63
ASOW-22-NECCNJ-SP-359	C	NECCNJ	84	56	4653	0.47	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 91, Shell 5, Silt 4	Rippled sand with silt and shell hash	N

Plan View Image Analysis Results, Atlantic Shores Offshore Wind, 2022

								CMECS Biotic Classifications				
Station ID	Replicate	Location	Burrows	Tubes	Tracks	Epifauna, Infauna & Fish Types and Counts	Macroalgae Presence[b]	Eel Grass Types[c] and Counts	Biotic Subclass	Co-occurring Biotic Subclass	Biotic Group	Co-occurring Biotic Group	Comments
ASOW0549-22-OCS-SP-468	D	OCS-A 0549	N	N	Y	Hermit crab (3)	N	None	Attached Fauna	Inferred Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Tracks and Trails	Fine gravels over sand with shell fragments, numerous bivalve shells.
ASOW0549-22-OCS-SP-471	A	OCS-A 0549	N	N	N	Hermit crab (2)	N	None	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	None	Rippled sand with pebble/granules and shell fragments in trough.
ASOW0549-22-OCS-SP-471	B	OCS-A 0549	N	N	N	Hermit crab (5)	N	None	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	None	Rippled sand with pebbles/granule and bivalve shell fragments.
ASOW0549-22-OCS-SP-471	D	OCS-A 0549	N	N	N	Crepidula (10), Sand dollar (1), Hermit crab (1)	N	None	Attached Fauna	Soft Sediment Fauna	Sessile Gastropods	Sand Dollar Bed	Rippled coarse sand with pebble/granules and bivalve shell fragments. Three crepidula attached to larger shell.
ASOW0549-22-OCS-SPC-474	A	OCS-A 0549	Y	N	Y	Sand dollar (55), Nassariid snail (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Fine to medium sand, sand dollar bed.
ASOW0549-22-OCS-SPC-474	B	OCS-A 0549	N	Y	Y	Sand dollar (~85), Nassariid snail (7), Hermit crab (2)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Partially rippled medium sand, shell hash. Many sand dollars. Possible sand clasts
ASOW0549-22-OCS-SPC-474	C	OCS-A 0549	N	Y	Y	Sand dollar (~100), Nassariid snail (5), Hermit crab (1), Astarte clam (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Rippled sand with sand dollars and shell hash. Ripples are subtle, unable to discern wavelength. Possible tube and sand clasts.
ASOW0549-22-OCS-SPC-475	A	OCS-A 0549	N	Y	Y	Sand dollar (~60), Hermit crab (1), Nassariid snail (1)	N	None	Soft Sediment Fauna	Inferred Fauna	Sand Dollar Bed	Tracks and Trails	Rippled medium to coarse sand with aggregated shell hash. Ripple wavelength is indeterminate, few tracks.
ASOW0549-22-OCS-SPC-475	B	OCS-A 0549	N	Y	Y	Sand dollar (~30), Nassariid snail (3), Hermit crab (1), Astarte clam (1), Skate egg case (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Partially rippled sand with shell hash, sand dollars and tracks. Ripples are indeterminate. Possible sand clasts.
ASOW0549-22-OCS-SPC-475	C	OCS-A 0549	N	Y	Y	Sand dollar (~50), Diopatra (3), Skate egg case (1), Hermit crab (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Medium sand, trace of overlying silt and shell hash with sand dollars.
ASOW0549-22-OCS-SPC-477	A	OCS-A 0549	N	Y	Y	Sand dollar (~70), Nassariid snail (2), Diopatra (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Medium sand, trace of shell hash and deposited silt. Few sand clasts and many sand dollars.
ASOW0549-22-OCS-SPC-477	B	OCS-A 0549	N	Y	Y	Sand dollar (~70), Nassariid snail (3), Diopatra (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Medium sand with shell hash and sand clasts, many sand dollars. Some detrital aggregates, few tracks.
ASOW0549-22-OCS-SPC-477	C	OCS-A 0549	N	Y	Y	Sand dollar (~50), Nassariid snail (1), Diopatra (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Rippled medium sand with trace of deposited silt and shell hash. Many sand clasts, moderate amount of sand dollars, few tracks.
ASOW0549-22-OCS-SPC-478	A	OCS-A 0549	N	N	Y	Sand dollar (6), Hermit crab (1), Astarte clam (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Partially rippled coarse to medium sand with diverse shell hash and sand clasts, sand dollars.
ASOW0549-22-OCS-SPC-478	C	OCS-A 0549	N	N	Y	Sand dollar (10), Hermit crab (1), Snail (1)	N	None	Soft Sediment Fauna	Inferred Fauna	Sand Dollar Bed	Tracks and Trails	Rippled coarse sand with shell hash and trace of deposited silt, many tracks.
ASOW0549-22-OCS-SPC-478	D	OCS-A 0549	N	N	Y	Sand dollar (~70), Nassariid snail (3)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Medium to coarse sand, aggregated silt and shell hash. Few sand clasts, many sand dollars.
ASOW0549-22-OCS-SPG-427	A	OCS-A 0549	N	N	Y	Hermit crab (1)	N	NA	Attached Fauna	Inferred Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Tracks and Trails	Pebble/granules with fine to medium sand and shell fragments.
ASOW0549-22-OCS-SPG-427	B	OCS-A 0549	N	Y	N	Diopatra (2), Hermit crab (2)	N	None	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Pebble/granules with coarse and medium sand, moderate amount of shells.
ASOW0549-22-OCS-SPG-427	C	OCS-A 0549	N	N	Y	Hermit crab (2)	N	NA	Attached Fauna	Inferred Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Tracks and Trails	Pebble/granules with very coarse sand and fine sand.
ASOW0549-22-OCS-SPG-453	B	OCS-A 0549	N	N	Y	Sand dollar (1)	N	None	Soft Sediment Fauna	Inferred Fauna	Sand Dollar Bed	Tracks and Trails	Medium sand on the surface with shell fragments and large spisula shell. Many tracks.
ASOW0549-22-OCS-SPG-453	C	OCS-A 0549	N	Y	Y	Hermit crab (2), Sand dollar (2), Snail (1), Astarte clam (1)	N	None	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	Sand Dollar Bed	Medium to fine sand with shell fragments. Possible sand tubes/tunicate.
ASOW0549-22-OCS-SPG-453	D	OCS-A 0549	N	Y	Y	Snail (2), Hermit crab (1)	N	None	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Mobile Mollusks on Soft Sediments	Fine sand with few shell fragments. Biogenic depression on left side of image. Possible sand tubes/tunicate evident along margins of biogenically disturbed areas.
ASOW0549-22-OCS-SPGC-476	B	OCS-A 0549	N	N	Y	Sand dollar (11), Snail (3)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Rippled coarse sand with scattered shell debris. Ripples are variable, unable to discern wave length. Few possible sand clasts.
ASOW0549-22-OCS-SPGC-476	C	OCS-A 0549	N	N	Y	Sand dollar (~20), Nassariid snail (2)	N	None	Soft Sediment Fauna	Inferred Fauna	Sand Dollar Bed	Tracks and Trails	Rippled coarse sand with shell debris and hash. Sand dollars and tracks. Numerous possible sand clasts
ASOW0549-22-OCS-SPGC-476	D	OCS-A 0549	N	N	Y	Sand dollar (18), Nassariid snail (2), Anemone (1), Astarte clam (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Coarse sand with shell hash and mostly living sand dollars. Few distinct tracks.
ASOW-22-NECCNJ-SP-358	A	NECCNJ	N	N	Y	Sand dollar (~100), Hermit crab (5), Nassariid snail (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand with some shell hash. Dense sand dollar coverage and mobile epifauna, few tracks.
ASOW-22-NECCNJ-SP-358	B	NECCNJ	N	N	Y	Sand dollar (100+), Nassariid snail (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand with trace of shell and an abundance of sand dollars. Divot is a possible relic burrow.
ASOW-22-NECCNJ-SP-358	C	NECCNJ	Y	N	Y	Sand dollar (~50), Nassariid snail (1), Skate egg case (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Deep-Burrowing Fauna	Rippled sand, trace of shell hash. Many sand dollars, large burrow. Skate egg case lower right corner
ASOW-22-NECCNJ-SP-359	B	NECCNJ	N	N	Y	Sand dollar (100+), Nassariid snail (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Rippled coarse sand, veneer of silt. Ripples are shallow in height, shell hash in ripple trough. Many sand dollars.
ASOW-22-NECCNJ-SP-359	C	NECCNJ	N	Y	Y	Sand dollar (100+), Nassariid snail (2), Moon Snail egg case (2), Hermit crab (1), Astarte clam (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Rippled sand. Silt and shell hash in ripple troughs. Ripples are wide and uneven, wave length is not measurable. Many sand dollars, two moon snail egg cases.

Plan View Image Analysis Results, Atlantic Shores Offshore Wind, 2022

							CMECS Substrate Classifications						
Station ID	Replicate	Location	Image Width (cm)[a]	Image Height (cm)[a]	Image FOV (cm^2)[a]	Image FOV (m^2)[a]	Substrate Class	Substrate Subclass	Substrate Group	Substrate Subgroup	Substrate Group Percent	Habitat Type	Ripples Presence and Wavelength (cm)
ASOW-22-NECCNJ-SP-359	E	NECCNJ	81	54	4367	0.44	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 93, Silt 4, Shell 2, Pebble/Granule <1	Rippled sand with silt and shell hash	Y, Ind
ASOW-22-NECCNJ-SP-364	A	NECCNJ	45	30	1358	0.14	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 100, Shell <1	Rippled sand	Y, 9
ASOW-22-NECCNJ-SP-364	B	NECCNJ	53	36	1892	0.19	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 100, Pebble/Granule <1, Shell <1	Rippled sand	Y, 9
ASOW-22-NECCNJ-SP-364	C	NECCNJ	51	34	1705	0.17	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 100, Shell <1	Rippled sand	Y, 10
ASOW-22-NECCNJ-SP-366	A	NECCNJ	87	58	5008	0.50	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 70, Silt 25, Shell 5	Rippled sand with silt and shell	Y, 12
ASOW-22-NECCNJ-SP-366	B	NECCNJ	83	56	4625	0.46	Unconsolidated Mineral	Fine Unconsolidated	Sand	Ind	Sand 60, Silt 37, Shell 3	Rippled sand with silt and shell hash	N
ASOW-22-NECCNJ-SP-366	D	NECCNJ	86	57	4932	0.49	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 50, Silt 45, Shell 5	Rippled sand with silt and shell	Y, Ind
ASOW-22-NECCNJ-SP-643	A	NECCNJ	78	52	4022	0.40	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 95, Shell 3, Gravel 2	Sand with shell hash	N
ASOW-22-NECCNJ-SP-644	A	NECCNJ	92	61	5613	0.56	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 85, Shell 12, Gravel 3	Sand with shell fragments	N
ASOW-22-NECCNJ-SP-645	A	NECCNJ	90	60	5343	0.53	Unconsolidated Mineral	Coarse Unconsolidated	Gravels	Pebble/Granule	Pebble/Granule 90, Sand 7, Shell 3	Hard bottom substrate with sand and shell	N
ASOW-22-NECCNJ-SP-646	A	NECCNJ	82	55	4516	0.45	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 95, Shell 5, Pebble/Granule <1	Rippled sand with shell hash	Y, 18
ASOW-22-NECCNJ-SP-647	A	NECCNJ	82	55	4507	0.45	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 98, Shell 2	Sand	N
ASOW-22-NECCNJ-SP-648	A	NECCNJ	86	58	4987	0.50	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 85, Shell 15	Medium sand with shell hash	Y, Ind
ASOW-22-NECCNJ-SP-649	A	NECCNJ	84	56	4698	0.47	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 95, Shell 3, Gravel 2	Rippled sand with shell hash	Y, Ind
ASOW-22-NECCNJ-SP-650	A	NECCNJ	88	58	5122	0.51	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 98, Shell 2	Sand with shell hash	Y, Ind
ASOW-22-NECCNJ-SP-651	A	NECCNJ	85	57	4845	0.48	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 95, Shell 5	Rippled sand with scattered shell hash and Crepidula	Y, 12
ASOW-22-NECCNJ-SP-652	A	NECCNJ					Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Ind	Ind	Ind
ASOW-22-NECCNJ-SPC-362	B	NECCNJ	89	60	5315	0.53	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 75, Pebble/Granule 25, Shell <1	Rippled sand with gravel	Y, Ind
ASOW-22-NECCNJ-SPC-362	C	NECCNJ	87	58	5053	0.51	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 80, Pebble/Granule 20, Shell <1	Rippled sand with gravels	Y, Ind
ASOW-22-NECCNJ-SPC-362	D	NECCNJ	91	60	5467	0.55	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 63, Pebble/Granule 35, Shell 2	Rippled sand with gravel	Y, 11
ASOW-22-NECCNJ-SPC-363	B	NECCNJ	89	59	5294	0.53	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 93, Shell 4, Silt 2, Pebble/Granule 1	Sand with trace silt and trace of gravel and shell	N
ASOW-22-NECCNJ-SPC-363	C	NECCNJ	90	60	5402	0.54	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 93, Pebble/Granule 5, Shell 2	Sand with gravel and shell	N
ASOW-22-NECCNJ-SPC-363	D	NECCNJ	93	62	5718	0.57	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 91, Pebble/Granule 8, Shell 1	Rippled sand with gravel and shell	Y, 14
ASOW-22-NECCNJ-SPC-365	A	NECCNJ	82	55	4536	0.45	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 67, Pebble/Granule 30, Shell 3	Rippled sand with gravel and shell	Y, 69
ASOW-22-NECCNJ-SPC-365	B	NECCNJ	93	62	5818	0.58	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 73, Pebble/Granule 25, Shell 2	Rippled sand with gravel	Y, Ind
ASOW-22-NECCNJ-SPC-365	D	NECCNJ	96	64	6119	0.61	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 58, Pebble/Granule 40, Shell 2	Sand with gravel and shell	N
ASOW-22-NECCNJ-SPC-368	B	NECCNJ	90	60	5370	0.54	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 96, Pebble/Granule 3, Shell 1	Sand with mobile gravels	N
ASOW-22-NECCNJ-SPC-368	C	NECCNJ	92	61	5596	0.56	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 80, Pebble/Granule 15, Shell 5	Rippled sand with mobile gravels	Y, Ind
ASOW-22-NECCNJ-SPC-368	E	NECCNJ	85	56	4788	0.48	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Pebble/Granule 55, Sand 42, Shell 3	Hard bottom substrate with sand and shell	N
ASOW-22-NECCNJ-SPG-357	C	NECCNJ	88	59	5137	0.51	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 95, Silt 4 Shell 1	Rippled sand	Y, Ind
ASOW-22-NECCNJ-SPG-357	D	NECCNJ	87	58	4999	0.50	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 95, Silt 4, Shell 1	Rippled sand with silt	Y, Ind

Plan View Image Analysis Results, Atlantic Shores Offshore Wind, 2022

							CMECS Biotic Classifications					
Station ID	Replicate	Location	Burrows	Tubes	Tracks	Epifauna, Infauna & Fish Types and Counts	Macroalgae Presence[b]	Eel Grass Types[c] and Counts	Biotic Subclass	Co-occurring Biotic Subclass	Biotic Group	Co-occurring Biotic Group	Comments
ASOW-22-NECCNJ-SP-359	E	NECCNJ	N	N	N	Sand dollar (75+), Hermit crab (4), Nassariid snail (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Rippled dark sands, wide and uneven ripple crests. Silt and shell hash aggregated in troughs at edges of frame. Trace of granules, many sand dollars.
ASOW-22-NECCNJ-SP-364	A	NECCNJ	N	Y	N	Diopatra (~10), Flounder (1)	N	None	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	None	Partially rippled sand with gravels and trace of shell. Skate captured in frame.
ASOW-22-NECCNJ-SP-364	B	NECCNJ	Y	Y	N	Diopatra (~30)	N	Green Detached (1)	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	None	Rippled sand with gravel and trace of shell hash.
ASOW-22-NECCNJ-SP-364	C	NECCNJ	N	Y	N	Diopatra (4), Anemone (1)	N	None	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Burrowing Anemones	Rippled sand with low crest heights and moderate amount of gravel. Trace of shell hash.
ASOW-22-NECCNJ-SP-366	A	NECCNJ	Y	N	N	Nassariid snail (2), Anemone (1), Hermit crab (1)	N	None	Soft Sediment Fauna	NA	Burrowing Anemones	Mobile Mollusks on Soft Sediments	Rippled sand with silt and shell debris and hash. Many small tracks, few burrows.
ASOW-22-NECCNJ-SP-366	B	NECCNJ	Y	Y	Y	Diopatra (1)	N	None	Soft Sediment Fauna	Inferred Fauna	Larger Tube-Building Fauna	Tracks and Trails	Rippled sand with overlying silt and trace of shell hash.
ASOW-22-NECCNJ-SP-366	D	NECCNJ	Y	Y	Y	Snail (3) Anemone (1), Diopatra (1), Bivalve Siphon (1)	N	None	Soft Sediment Fauna	NA	Mobile Mollusks on Soft Sediments	Burrowing Anemones	Subtly rippled sand with overlying silt. Shell hash and spisula clam shell debris. Few burrows.
ASOW-22-NECCNJ-SP-643	A	NECCNJ	Y	N	Y	Cerianthid anemones (2)	N	None	Soft Sediment Fauna	Inferred Fauna	Burrowing Anemones	Tracks and Trails	Sand with scattered shell and gravel, many tracks and trails.
ASOW-22-NECCNJ-SP-644	A	NECCNJ	N	N	Y	Sand dollar (12), Nassariid snail (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand with shell fragments, trace of gravel.
ASOW-22-NECCNJ-SP-645	A	NECCNJ	N	N	N	Cerianthid anemone (2), Nassariid snail (1)	N	None	Attached Fauna	NA	Attached Anemones	Mobile Mollusks on Hard or Mixed Substrates	Granule bottom (90%), some coarse sand patches, shell fragments.
ASOW-22-NECCNJ-SP-646	A	NECCNJ	Y	Y	Y	Sand dollar (17), Nassariid snail (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Rippled (weathered) sand with shell hash, diopatra.
ASOW-22-NECCNJ-SP-647	A	NECCNJ	N	Y	Y	Sand dollar (40), Nassariid snail (2), Diopatra (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Medium sand with many sand dollars, diopatra.
ASOW-22-NECCNJ-SP-648	A	NECCNJ	N	Y	Y	Nassariid snail (1)	N	None	Soft Sediment Fauna	Inferred Fauna	Mobile Mollusks on Soft Sediments	Tracks and Trails	Medium sand with shell hash, weathered ripples.
ASOW-22-NECCNJ-SP-649	A	NECCNJ	N	N	Y	Sand dollar (1)	N	None	Soft Sediment Fauna	Inferred Fauna	Sand Dollar Bed	Tracks and Trails	Sand with weathered, small ripples. Some gravel, shell hash.
ASOW-22-NECCNJ-SP-650	A	NECCNJ	Y	N	Y	Sand dollar (4), Nassariid snail (1), Hermit crab (1), Crepidula (1)	N	None	Soft Sediment Fauna	Inferred Fauna	Sand Dollar Bed	Tracks and Trails	Medium sand with weathered ripples, burrows and tracks and trails.
ASOW-22-NECCNJ-SP-651	A	NECCNJ	N	N	Y	Hermit crab (1), Crepidula, Sand dollar (1)	N	None	Soft Sediment Fauna	Attached Fauna	Mobile Crustaceans on Soft Sediments	Sessile Gastropods	Rippled (weathered) medium to coarse sand, isolated Crepidula clusters.
ASOW-22-NECCNJ-SP-652	A	NECCNJ	Ind	Ind	Ind	Ind	Ind	Ind	Ind	Ind	Ind	Ind	No plan view image captured. Physical parameters derived from SPI image.
ASOW-22-NECCNJ-SPC-362	B	NECCNJ	N	N	N	Crepidula (11), Hermit crab (1), Skate (1)	N	None	Attached Fauna	NA	Sessile Gastropods	Mobile Crustaceans on Hard or Mixed Substrates	Sand with trace of gravels and crepidula shell debris. Many fecal mounds and some possible sand tubes/tunicate.
ASOW-22-NECCNJ-SPC-362	C	NECCNJ	N	N	Y	Nassariid snail (1), Sand dollar (1)	N	None	Soft Sediment Fauna	Inferred Fauna	Mobile Mollusks on Soft Sediments	Tracks and Trails	Sand with scattered gravels and shell hash. Many tracks.
ASOW-22-NECCNJ-SPC-362	D	NECCNJ	N	N	N	Hermit crab (6), Anemone (1)	N	None	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Burrowing Anemones	Rippled sand with gravels and trace of shell hash. Ripples are variable with low crest heights. Moon snail egg case with foraging gastropods. Some fecal casts. Crepidula shells.
ASOW-22-NECCNJ-SPC-363	B	NECCNJ	N	Y	Y	Anemone (3), Crepidula (8), Snail (5)	N	None	Soft Sediment Fauna	Inferred Fauna	Burrowing Anemones	Fecal Mounds	Well-defined rippled sand, trace of shell hash. Piece of wood debris and some thin tubes.
ASOW-22-NECCNJ-SPC-363	C	NECCNJ	N	N	Y	Anemone (3), Hermit crab (3)	N	None	Soft Sediment Fauna	Attached Fauna	Burrowing Anemones	Mobile Crustaceans on Hard or Mixed Substrates	Rippled sand, trace of shell hash and gravel. Many diopatra, large burrow.
ASOW-22-NECCNJ-SPC-363	D	NECCNJ	N	N	Y	Nassariid snail (~10), Anemone (3)	N	None	Attached Fauna	Soft Sediment Fauna	Mobile Mollusks on Hard or Mixed Substrates	Burrowing Anemones	Rippled sand, trace of shell and some deposited detritus. Ripple wavelength decreasing right to left.
ASOW-22-NECCNJ-SPC-365	A	NECCNJ	N	N	Y	Anemone (4), Nassariid snail (3), Hermit crab (1)	N	None	Soft Sediment Fauna	Attached Fauna	Burrowing Anemones	Mobile Mollusks on Soft Sediments	Rippled sand with gravels and trace of shell in ripple trough. Tracks on ripple crest.
ASOW-22-NECCNJ-SPC-365	B	NECCNJ	Y	N	Y	Anemone (5), Crepidula (2)	N	None	Soft Sediment Fauna	Attached Fauna	Burrowing Anemones	Sessile Gastropods	Subtly rippled sand with moderate gravel coverage and trace of shell hash. Some buried anemones, calcareous growth on pebbles, possible burrow.
ASOW-22-NECCNJ-SPC-365	D	NECCNJ	N	Y	Y	Crepidula (1), Anemone (2),	N	None	Attached Fauna	Soft Sediment Fauna	Sessile Gastropods	Burrowing Anemones	Gravels and trace of shell over coarse sand, few tubes and few fecal casts.
ASOW-22-NECCNJ-SPC-368	B	NECCNJ	Y	Y	Y	Nassariid snail (~4), Anemone (1)	N	None	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Mobile Mollusks on Soft Sediments	Coarse sands with mobile fine pebbles and granules, trace of shell hash. Few possible sand tubes/tunicate. Some tubes, possibly shell-less diopatra.
ASOW-22-NECCNJ-SPC-368	C	NECCNJ	N	Y	Y	Hermit crab (1), Nassariid snail (1), Anemone (1)	N	None	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	Mobile Mollusks on Soft Sediments	Rippled sand with gravels and shell hash, mostly clam shell debris. Ripples apparent in sand portion of frame.
ASOW-22-NECCNJ-SPC-368	E	NECCNJ	N	N	N	Nassariid snail (2), Anemone (2)	N	None	Attached Fauna	Soft Sediment Fauna	Mobile Mollusks on Hard or Mixed Substrates	Burrowing Anemones	Gravel and shell hash over sand.
ASOW-22-NECCNJ-SPG-357	C	NECCNJ	N	Y	N	Sand dollar (100+), Diopatra (4)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Rippled sand with silt and shell hash. Many sand dollars.
ASOW-22-NECCNJ-SPG-357	D	NECCNJ	N	N	N	Sand dollar (100+), Hermit crab (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Rippled dark sands with silt and trace of shell hash. Many sand dollars.

Plan View Image Analysis Results, Atlantic Shores Offshore Wind, 2022

							CMECS Substrate Classifications						
Station ID	Replicate	Location	Image Width (cm)[a]	Image Height (cm)[a]	Image FOV (cm^2)[a]	Image FOV (m^2)[a]	Substrate Class	Substrate Subclass	Substrate Group	Substrate Subgroup	Substrate Group Percent	Habitat Type	Ripples Presence and Wavelength (cm)
ASOW-22-NECCNJ-SPG-357	E	NECCNJ	83	55	4538	0.45	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 91 Silt 4, Shell 5	Rippled sand with silt and shell	Y, Ind
ASOW-22-NECCNJ-SPG-371	F	NECCNJ	50	33	1659	0.17	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 60, Shell 37, Pebble/Granule 3	Rippled sand with shell hash and gravel	Y, 44
ASOW-22-NECCNJ-SPG-371	H	NECCNJ	56	38	2110	0.21	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 96, Silt 4, Shell 2	Rippled sand with trace of shell	Y, 11
ASOW-22-NECCNJ-SPG-371	J	NECCNJ	56	38	2116	0.21	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 94, Silt 4, Shell 2	Rippled sand with silt and trace of shell hash	Y, 10
ASOW-22-NECCNJ-SPGC-367	A	NECCNJ					Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 95, Pebble/Granule 3, Shell 2	Rippled sand with trace of gravel and shell	Y, Ind
ASOW-22-NECCNJ-SPGC-367	B	NECCNJ	91	61	5531	0.55	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 97, Shell 3, Pebble/Granule 1	Rippled sand with shell	Y, Ind
ASOW-22-NECCNJ-SPGC-367	C	NECCNJ	89	59	5288	0.53	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 97, Pebble/Granule 2, Shell 1	Sand with gravel	N
ASOW-22-NECCNY-SP-301	A	NECCNY	49	33	1598	0.16	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 92, Shell 5, Pebble/Granule 3	Rippled sand with some gravel	Y, 12
ASOW-22-NECCNY-SP-301	B	NECCNY	50	33	1647	0.16	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 88, Shell 10, Pebble/Granule 2	Rippled sand with shell fragments	Y, 12
ASOW-22-NECCNY-SP-301	C	NECCNY	51	34	1725	0.17	Unconsolidated Mineral	Fine Unconsolidated	Muddy Sand	NA	Sand 75, Silt 20, Shell 5	Sand and silt with shell fragments	N
ASOW-22-NECCNY-SP-302	A	NECCNY	39	26	1012	0.10	Shell Substrate	Shell Hash	NA	NA	Shell 85, Sand 15	Hard Bottoms Substrate	N
ASOW-22-NECCNY-SP-302	C	NECCNY	48	32	1565	0.16	Shell Substrate	Shell Hash	NA	NA	Shell 70, Silt 20, Sand 10	Hard Bottom Substrate	N
ASOW-22-NECCNY-SP-302	D	NECCNY	46	31	1411	0.14	Shell Substrate	Shell Hash	NA	NA	Shell 85, Silt 15	Hard Bottom Substrate	N
ASOW-22-NECCNY-SP-307	A	NECCNY	36	24	855	0.09	Shell Substrate	Shell Hash	NA	NA	Shell 80, Silt 20	Hard Bottom Substrate	N
ASOW-22-NECCNY-SP-307	C	NECCNY	41	27	1113	0.11	Shell Substrate	Shell Hash	NA	NA	Shell 80, Silt 15, Sand 5	Hard Bottom Substrate	N
ASOW-22-NECCNY-SP-307	E	NECCNY	50	33	1683	0.17	Shell Substrate	Shell Hash	NA	NA	Shell 60, Silt 40	Hard Bottom Substrate	N
ASOW-22-NECCNY-SP-313	C	NECCNY	48	32	1556	0.16	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 98, Shell 2	Rippled sand	Y, 20
ASOW-22-NECCNY-SP-313	D	NECCNY	52	35	1801	0.18	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 98, Shell 2	Rippled sand	Y, 20
ASOW-22-NECCNY-SP-313	E	NECCNY	53	35	1839	0.18	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 95, Shell 5	Rippled sand	Y, 11
ASOW-22-NECCNY-SP-315	A	NECCNY	53	35	1852	0.19	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 85, Shell 15, Gravel <1	Rippled sand with shell fragments	Y, Ind
ASOW-22-NECCNY-SP-315	C	NECCNY	37	25	933	0.09	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 65, Shell 35	Rippled sand with mussels	Y, Ind
ASOW-22-NECCNY-SP-315	D	NECCNY	41	28	1146	0.11	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 85, Shell 12, Gravel 3	Rippled sand with shell fragments	Y, 8
ASOW-22-NECCNY-SP-321	A	NECCNY	51	34	1719	0.17	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 98, Shell 2	Rippled sand	Y, 9
ASOW-22-NECCNY-SP-321	B	NECCNY	47	32	1500	0.15	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 100, Shell <1	Rippled sand	Y, 10
ASOW-22-NECCNY-SP-321	C	NECCNY	49	33	1616	0.16	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 98, Shell 2	Rippled sand	Y, 11
ASOW-22-NECCNY-SP-322	B	NECCNY					Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 98, Gravel 1, Shell 1	Rippled sand	Y, Ind
ASOW-22-NECCNY-SP-322	D	NECCNY					Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 82, Shell 12, Pebble/Granule 6	Hard Bottom Substrate	Y, Ind
ASOW-22-NECCNY-SP-322	E	NECCNY					Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 96, Shell 3, Pebble/Granule 1	Rippled sand	Y, Ind
ASOW-22-NECCNY-SP-324	A	NECCNY					Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 100	Rippled fine sand	Y, Ind
ASOW-22-NECCNY-SP-324	B	NECCNY					Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 100	Rippled sand	Y, Ind
ASOW-22-NECCNY-SP-324	D	NECCNY					Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 100	Rippled sand	Y, Ind
ASOW-22-NECCNY-SP-325	A	NECCNY	48	32	1551	0.16	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 99, Shell 1	Rippled Sand	Y, 9
ASOW-22-NECCNY-SP-325	D	NECCNY	42	28	1165	0.12	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 98, Shell 2	Rippled sand	Y, 10
ASOW-22-NECCNY-SP-325	F	NECCNY	47	31	1447	0.14	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 99, Shell 1	Rippled sand	Y, 10
ASOW-22-NECCNY-SP-326	A	NECCNY	48	32	1557	0.16	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 55, Shell 43, Pebble/Granule 2	Coarse sand with many shells	N

Plan View Image Analysis Results, Atlantic Shores Offshore Wind, 2022

								CMECS Biotic Classifications				
Station ID	Replicate	Location	Burrows	Tubes	Tracks	Epifauna, Infauna & Fish Types and Counts	Macroalgae Presence[b]	Eel Grass Types[c] and Counts	Biotic Subclass	Co-occurring Biotic Subclass	Biotic Group	Co-occurring Biotic Group	Comments
ASOW-22-NECCNJ-SPG-357	E	NECCNJ	N	Y	Y	Sand dollar (100+), Diopatra (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Dark particle sands with large patch of silt and some shell debris. Many sand dollars.
ASOW-22-NECCNJ-SPG-371	F	NECCNJ	N	N	N	Hermit crab (2), Nassariid snail (1)	N	None	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	Mobile Mollusks on Soft Sediments	Rippled sand, moderate shell hash in troughs and some gravel. Large spisula clam shell.
ASOW-22-NECCNJ-SPG-371	H	NECCNJ	N	Y	Y	Diopatra (1)	N	None	Soft Sediment Fauna	Inferred Fauna	Larger Tube-Building Fauna	Tracks and Trails	Rippled sand with trace of shell and deposited silt and detritus. Diopatra and other co-existing polychaete tubes.
ASOW-22-NECCNJ-SPG-371	J	NECCNJ	N	Y	N	Diopatra (~8), Hermit crab (1)	N	None	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Mobile Crustaceans on Soft Sediments	Rippled sand with trace of shell hash. Suspended detritus and some deposited silt.
ASOW-22-NECCNJ-SPGC-367	A	NECCNJ	N	N	Y	Anemone (6), Hermit crab (2), Skate egg case (1), Barnacles	N	None	Soft Sediment Fauna	NA	Burrowing Anemones	Mobile Crustaceans on Soft Sediments	Partially rippled sand with overlying gravels and shell. Some burrowing anemones, barnacles attached to largest pebble.
ASOW-22-NECCNJ-SPGC-367	B	NECCNJ	N	N	Y	Anemone (4), Sand dollar (1)	N	None	Soft Sediment Fauna	Inferred Fauna	Burrowing Anemones	Tracks and Trails	Rippled sand with trace of shell hash and buried spisula clam shell. Few pebble/granules, many tracks.
ASOW-22-NECCNJ-SPGC-367	C	NECCNJ	N	N	N	Anemone (7), Hermit crab (2), Snail (1)	N	None	Soft Sediment Fauna	NA	Burrowing Anemones	Mobile Crustaceans on Soft Sediments	Subtly rippled sand with trace of mixed gravels and some shell hash. Buried anemones, one large gastropod.
ASOW-22-NECCNY-SP-301	A	NECCNY	N	Y	Y	Hydroids, Hermit crab (2)	N	None	Soft Sediment Fauna	Attached Fauna	Mobile Crustaceans on Soft Sediments	Attached Hydroids	Rippled sand with shell, some pebble/granules. Large razor clam shell bottom of image.
ASOW-22-NECCNY-SP-301	B	NECCNY	N	Y	Y	Hydroids, Diopatra (3)	N	None	Soft Sediment Fauna	Attached Fauna	Larger Tube-Building Fauna	Attached Hydroids	Rippled sand with shells and few larger diameter pebbles.
ASOW-22-NECCNY-SP-301	C	NECCNY	N	Y	Y	Hydroids, Diopatra (2)	N	None	Soft Sediment Fauna	Attached Fauna	Larger Tube-Building Fauna	Attached Hydroids	Sand and silt with shell fragments, hydroids and diopatra.
ASOW-22-NECCNY-SP-302	A	NECCNY	N	N	N	Mussel, Crepidula, Hydroids	N	None	Soft Sediment Fauna	Attached Fauna	Mussel Bed	Attached Hydroids	Mussel bed on muddy sand.
ASOW-22-NECCNY-SP-302	C	NECCNY	N	N	N	Mussels, Hydroids, Hermit crab (2)	N	None	Soft Sediment Fauna	Attached Fauna	Mussel Bed	Attached Hydroids	Mussel bed and shells on silt and sand.
ASOW-22-NECCNY-SP-302	D	NECCNY	N	N	N	Mussels, Crepidula, Hydroids, Hermit crab (2)	N	None	Soft Sediment Fauna	Attached Fauna	Mussel Bed	Attached Hydroids	Mussel with hydroids on silt, many dead shells.
ASOW-22-NECCNY-SP-307	A	NECCNY	N	N	N	Crepidula, Hydroids, Hermit crab (3)	N	None	Attached Fauna	Soft Sediment Fauna	Sessile Gastropods	Mobile Crustaceans on Soft Sediments	Crepidula bed (mostly dead) on silt.
ASOW-22-NECCNY-SP-307	C	NECCNY	N	N	N	Crepidula, Mussels, Hydroids	N	None	Attached Fauna	NA	Sessile Gastropods	None	Crepidula/Mussels on silt.
ASOW-22-NECCNY-SP-307	E	NECCNY	N	N	N	Crepidula, Hermit crab (1)	N	None	Attached Fauna	NA	Sessile Gastropods	None	Crepidula on silt.
ASOW-22-NECCNY-SP-313	C	NECCNY	N	Y	Y	Hermit crab (1)	N	None	Inferred Fauna	Soft Sediment Fauna	Tracks and Trails	Mobile Crustaceans on Soft Sediments	Rippled sand with large worm tubes, tracks.
ASOW-22-NECCNY-SP-313	D	NECCNY	Y	Y	Y	Hermit crab (2), Diopatra (1), Nassariid snail (1)	N	None	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	Larger Tube-Building Fauna	Rippled sand.
ASOW-22-NECCNY-SP-313	E	NECCNY	N	Y	N	Hermit crab (3), Nassariid snail (2)	N	None	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	Mobile Mollusks on Soft Sediments	Rippled (eroded) sand with some shell.
ASOW-22-NECCNY-SP-315	A	NECCNY	Y	N	Y	Hydroids	N	None	Soft Sediment Fauna	NA	Hydroid Bed	None	Large shell hash on complex, rippled sand, hydroids encrusted on shell fragments.
ASOW-22-NECCNY-SP-315	C	NECCNY	N	N	Y	Mussels, Hermit crab (1)	N	None	Soft Sediment Fauna	NA	Mussel Bed	Mobile Crustaceans on Soft Sediments	Live mussels on medium and coarse sand.
ASOW-22-NECCNY-SP-315	D	NECCNY	N	N	Y	Hydroids, Hermit crab (1)	N	None	Inferred Fauna	Soft Sediment Fauna	Tracks and Trails	Mobile Crustaceans on Soft Sediments	Sand with shell fragments.
ASOW-22-NECCNY-SP-321	A	NECCNY	N	Y	Y	Diopatra (4), Comb Jelly (1), Snail (1)	N	None	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Mobile Mollusks on Soft Sediments	Rippled fine sand, diopatra, comb jelly near bottom.
ASOW-22-NECCNY-SP-321	B	NECCNY	N	Y	Y	None	N	None	Inferred Fauna	NA	Tracks and Trails	None	Rippled sand, large moon snail egg case, sand clasts.
ASOW-22-NECCNY-SP-321	C	NECCNY	N	Y	Y	Diopatra (3), Nassariid snail (3)	N	None	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Mobile Mollusks on Soft Sediments	Rippled sand, diopatra, possible sand clasts.
ASOW-22-NECCNY-SP-322	B	NECCNY	N	Y	Y	Mussels, Hydroids	N	None	Soft Sediment Fauna	Inferred Fauna	Mussel Bed	Tracks and Trails	Rippled sand, isolated clump of mussels, small amount of granules, only one laser.
ASOW-22-NECCNY-SP-322	D	NECCNY	N	N	Y	None	N	None	Inferred Fauna	NA	Tracks and Trails	None	Rippled sand with shell lag and pebble/granules in troughs, only one laser.
ASOW-22-NECCNY-SP-322	E	NECCNY	N	Y	Y	Diopatra (1)	N	None	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	None	Rippled sand, diopatra, scattered shells. One laser visible.
ASOW-22-NECCNY-SP-324	A	NECCNY	Y	Y	Y	Hermit crab (6), Snail (6)	N	None	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	Mobile Mollusks on Soft Sediments	Rippled fine sand with many hermit crabs and snails, only one laser.
ASOW-22-NECCNY-SP-324	B	NECCNY	Y	Y	Y	Hermit crab (1), Hydroids	N	None	Soft Sediment Fauna	Inferred Fauna	Mobile Crustaceans on Soft Sediments	Tracks and Trails	Rippled sand with silt, tracks.
ASOW-22-NECCNY-SP-324	D	NECCNY	Y	Y	Y	None	N	None	Soft Sediment Fauna	Inferred Fauna	Small Tube-Building Fauna	Tracks and Trails	Rippled fine sand, many surface tubes.
ASOW-22-NECCNY-SP-325	A	NECCNY	N	Y	Y	None	T	None	Inferred Fauna	NA	Tracks and Trails	None	Rippled sand, bidirectional flow.
ASOW-22-NECCNY-SP-325	D	NECCNY	N	Y	Y	Nassariid snail (2), Diopatra (2)	N	None	Soft Sediment Fauna	NA	Mobile Mollusks on Soft Sediments	Larger Tube-Building Fauna	Rippled sand with some shell hash.
ASOW-22-NECCNY-SP-325	F	NECCNY	N	Y	Y	None	N	None	Soft Sediment Fauna	NA	Small Tube-Building Fauna	None	Rippled sand, small tubes, possible plant detritus.
ASOW-22-NECCNY-SP-326	A	NECCNY	N	Y	N	Mussels, Hydroids, Crepidula, Diopatra (1)	N	None	Soft Sediment Fauna	Attached Fauna	Mussel Bed	Attached Hydroids	Coarse sand with many large and small shell fragments that provide substrate for mussels and hydroids.

Plan View Image Analysis Results, Atlantic Shores Offshore Wind, 2022

							CMECS Substrate Classifications						
Station ID	Replicate	Location	Image Width (cm)[a]	Image Height (cm)[a]	Image FOV (cm^2)[a]	Image FOV (m^2)[a]	Substrate Class	Substrate Subclass	Substrate Group	Substrate Subgroup	Substrate Group Percent	Habitat Type	Ripples Presence and Wavelength (cm)
ASOW-22-NECCNY-SP-326	C	NECCNY	46	31	1412	0.14	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 61, Shell 35, Pebble/Granule 4	Sand with shell fragments	N
ASOW-22-NECCNY-SP-326	E	NECCNY	44	29	1282	0.13	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 85, Shell 15	Rippled sand with shell fragments	Y, 15
ASOW-22-NECCNY-SP-329	A	NECCNY					Unconsolidated Mineral	Fine Unconsolidated	Mud	NA	Silt 100	Silt bottom	N
ASOW-22-NECCNY-SP-329	B	NECCNY					Unconsolidated Mineral	Fine Unconsolidated	Mud	NA	Silt 100	Silt bottom	N
ASOW-22-NECCNY-SP-329	C	NECCNY					Unconsolidated Mineral	Fine Unconsolidated	Mud	NA	Silt 100	Silt bottom	N
ASOW-22-NECCNY-SP-330	A	NECCNY					Unconsolidated Mineral	Fine Unconsolidated	Muddy Sand	NA	Sand 80, Silt 20	Very fine sand/silt bottom	N
ASOW-22-NECCNY-SP-330	B	NECCNY	43	29	1227	0.12	Unconsolidated Mineral	Fine Unconsolidated	Sandy Mud	NA	Silt 80, Sand 20	Soft bottom	N
ASOW-22-NECCNY-SP-330	D	NECCNY	41	28	1143	0.11	Unconsolidated Mineral	Fine Unconsolidated	Sandy Mud	NA	Silt 90. Sand 10	Silt bottom	N
ASOW-22-NECCNY-SP-332	A	NECCNY	39	26	1007	0.10	Unconsolidated Mineral	Fine Unconsolidated	Muddy Sand	NA	Sand 90, Silt 10	Soft Bottom	N
ASOW-22-NECCNY-SP-332	D	NECCNY					Shell Substrate	Shell Hash	NA	NA	Shell 70, Sand 30	Hard Bottom Substrate	N
ASOW-22-NECCNY-SP-332	H	NECCNY					Unconsolidated Mineral	Fine Unconsolidated	Muddy Sand	NA	Sand 80, Silt 20	Soft bottom	N
ASOW-22-NECCNY-SP-333	A	NECCNY	50	33	1637	0.16	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 92, Shell 7, Gravel 1	Rippled sand with shell fragments	Y, 8
ASOW-22-NECCNY-SP-333	B	NECCNY					Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 95, Shell 5	Rippled sand with shell fragments	Y, Ind
ASOW-22-NECCNY-SP-333	D	NECCNY	49	33	1632	0.16	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 90, Shell 10	Rippled sand with shell fragments	Y, 10
ASOW-22-NECCNY-SP-335	A	NECCNY	47	32	1501	0.15	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 100, Shell <1	Rippled sand and silt	Y, 6
ASOW-22-NECCNY-SP-335	B	NECCNY					Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand	Rippled sand and silt	Y, Ind
ASOW-22-NECCNY-SP-335	G	NECCNY	45	30	1344	0.13	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 95, Shell 5	Rippled sand with silt	Y, 9
ASOW-22-NECCNY-SP-338	A	NECCNY					Unconsolidated Mineral	Fine Unconsolidated	Mud	NA	Silt 100	Silt bottom	N
ASOW-22-NECCNY-SP-338	C	NECCNY	50	33	1647	0.16	Unconsolidated Mineral	Fine Unconsolidated	Mud	NA	Silt 100	Silt bottom	N
ASOW-22-NECCNY-SP-338	D	NECCNY					Unconsolidated Mineral	Fine Unconsolidated	Mud	NA	Silt 100	Silt bottom	N
ASOW-22-NECCNY-SP-340	A	NECCNY					Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 85, Shell 10, Silt 5	Sand with shells	N
ASOW-22-NECCNY-SP-340	B	NECCNY					Unconsolidated Mineral	Fine Unconsolidated	Muddy Sand	NA	Sand 55, Shell 30, Silt 15	Sand/silt with shell fragments	N
ASOW-22-NECCNY-SP-340	D	NECCNY					Shell Substrate	Shell Hash	NA	NA	Shell 60, Sand 25, Silt 15	Shell on sand/silt	N
ASOW-22-NECCNY-SP-342	A	NECCNY	45	30	1350	0.14	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 100	Rippled sand	Y, 8
ASOW-22-NECCNY-SP-342	D	NECCNY	49	33	1586	0.16	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 100	Rippled sand	Y, 10
ASOW-22-NECCNY-SP-342	F	NECCNY	61	40	2457	0.25	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 100	Rippled sand	Y, Ind
ASOW-22-NECCNY-SP-344	A	NECCNY	58	39	2237	0.22	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 99, Shell 1	Rippled sand	Y, 9
ASOW-22-NECCNY-SP-344	B	NECCNY	60	40	2385	0.24	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand	Rippled sand	Y, 15
ASOW-22-NECCNY-SP-344	C	NECCNY	57	38	2173	0.22	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 99, Shell 1	Rippled sand with shell	Y, 12
ASOW-22-NECCNY-SPC-308	B	NECCNY	48	32	1510	0.15	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 95, Pebble/Granule 3, Shell 2	Rippled sand	Y, 9
ASOW-22-NECCNY-SPC-308	C	NECCNY	45	30	1358	0.14	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 94, Shell 5, Pebble/Granule 1	Rippled sand	Y, 10
ASOW-22-NECCNY-SPC-308	D	NECCNY	48	32	1521	0.15	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 92, Shell 5, Pebble/Granule 3	Rippled sand	Y, 6
ASOW-22-NECCNY-SPC-309	A	NECCNY	52	35	1831	0.18	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 97, Shell 2, Pebble/Granule 1	Rippled sand	Y, 12
ASOW-22-NECCNY-SPC-309	C	NECCNY	36	24	884	0.09	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 90, Shell 8, Pebble/Granule 2	Rippled sand with shell fragments	Y, 11
ASOW-22-NECCNY-SPC-309	D	NECCNY	41	28	1139	0.11	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 90, Shell 7, Pebble/Granule 3	Rippled sand with shell fragments	Y, 15
ASOW-22-NECCNY-SPC-310	A	NECCNY	51	34	1736	0.17	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 95, Shell 3, Granule/Pebble 2	Rippled sand	Y, 12
ASOW-22-NECCNY-SPC-310	B	NECCNY	47	31	1479	0.15	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 98, Shell 1, Pebble/Granule 1	Rippled sand	Y, 8

Plan View Image Analysis Results, Atlantic Shores Offshore Wind, 2022

								CMECS Biotic Classifications				
Station ID	Replicate	Location	Burrows	Tubes	Tracks	Epifauna, Infauna & Fish Types and Counts	Macroalgae Presence[b]	Eel Grass Types[c] and Counts	Biotic Subclass	Co-occurring Biotic Subclass	Biotic Group	Co-occurring Biotic Group	Comments
ASOW-22-NECCNY-SP-326	C	NECCNY	N	N	Y	Mussels, Crepidula, Hydroids	N	None	Soft Sediment Fauna	Attached Fauna	Mussel Bed	Attached Hydroids	Scattered shells on medium sand, mussels, hydroids, crepidula.
ASOW-22-NECCNY-SP-326	E	NECCNY	N	N	Y	Hydroids	N	None	Attached Fauna	NA	Attached Hydroids	None	Coarse and medium sand with shell hash, hydroids.
ASOW-22-NECCNY-SP-329	A	NECCNY	N	Y	N	Ampelisca tube mat	N	None	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	None	Ampelisca tube mat on silt, poor water clarity due to turbidity.
ASOW-22-NECCNY-SP-329	B	NECCNY	N	Y	N	Hydroids	N	None	Soft Sediment Fauna	NA	Hydroid Bed	None	Silt bottom with hydroids, no lasers.
ASOW-22-NECCNY-SP-329	C	NECCNY	N	Y	Y	Snail (1)	N	None	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	None	Ampelisca tubes, with some tracks. Poor water clarity. No lasers visible.
ASOW-22-NECCNY-SP-330	A	NECCNY	Y	Y	Y	Snail (1), Hermit crab (1)	N	None	Soft Sediment Fauna	NA	Larger Deep-Burrowing Fauna	None	Image obscured by turbidity, SPI images informs PV data. No lasers
ASOW-22-NECCNY-SP-330	B	NECCNY	Y	Y	Y	None	N	None	Inferred Fauna	NA	Tracks and Trails	None	Silt bottom with burrows, tracks, and trails.
ASOW-22-NECCNY-SP-330	D	NECCNY	N	Y	Y	Hermit crab (2)	N	None	Soft Sediment Fauna	Inferred Fauna	Mobile Crustaceans on Soft Sediments	Tracks and Trails	Soft sediment with tubes, tracks, and trails.
ASOW-22-NECCNY-SP-332	A	NECCNY	Y	Y	Y	Hermit crab (2)	N	None	Soft Sediment Fauna	Inferred Fauna	Mobile Crustaceans on Soft Sediments	Tracks and Trails	Silt bottom with burrows, tubes, tracks, and trails.
ASOW-22-NECCNY-SP-332	D	NECCNY	N	N	N	Hydroids	N	None	Attached Fauna	NA	Attached Hydroids	None	Clam shells on very fine sand/silt.
ASOW-22-NECCNY-SP-332	H	NECCNY	Y	N	Y	Hydroids, Hermit crab (1)	N	None	Attached Fauna	Soft Sediment Fauna	Attached Hydroids	Mobile Crustaceans on Soft Sediments	Image obscured by turbidity, SPI image informs PV data.
ASOW-22-NECCNY-SP-333	A	NECCNY	N	N	Y	Hermit crab (3), Mussels, Hydroids	N	None	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	Mussel Bed	Cross rippled sand, gravel, shell in troughs, some live mussels.
ASOW-22-NECCNY-SP-333	B	NECCNY	Y	N	Y	Hermit crab (2)	N	None	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	None	Cross-rippled sand, shell hash, one laser.
ASOW-22-NECCNY-SP-333	D	NECCNY	N	N	Y	Hydroids	N	None	Inferred Fauna	Soft Sediment Fauna	Tracks and Trails	Hydroid Bed	Rippled sand with non-living mussel shells, many trails, hydroids attached to shells.
ASOW-22-NECCNY-SP-335	A	NECCNY	Y	Y	Y	None	N	None	Inferred Fauna	NA	Tracks and Trails	None	Rippled fine sand/silt, possible hermit crabs and diopatra.
ASOW-22-NECCNY-SP-335	B	NECCNY	Y	Y	Y	Hermit crab (1), Diopatra	N	None	Soft Sediment Fauna	Inferred Fauna	Larger Tube-Building Fauna	Tracks and Trails	Rippled fine and silt, many tubes, tracks, trails, only one laser.
ASOW-22-NECCNY-SP-335	G	NECCNY	Y	Y	Y	Diopatra (3), Hermit crab (1)	N	None	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Mobile Crustaceans on Soft Sediments	Rippled sand and silt diopatra, shell fragments.
ASOW-22-NECCNY-SP-338	A	NECCNY	N	Y	Y	None	N	None	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	None	Silt with ampelisca tube mat, no lasers.
ASOW-22-NECCNY-SP-338	C	NECCNY	N	Y	Y	Finfish (1)	N	None	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	None	Silt bottom with extensive tubes.
ASOW-22-NECCNY-SP-338	D	NECCNY	N	Y	Y	Hermit crab (1)	N	None	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	None	Silt bottom with tube mat, no lasers.
ASOW-22-NECCNY-SP-340	A	NECCNY	N	Y	Y	Hydroids	N	None	Inferred Fauna	Soft Sediment Fauna	Tracks and Trails	Hydroid Bed	Very fine sand, silt with many large shells, no lasers.
ASOW-22-NECCNY-SP-340	B	NECCNY	N	Y	Y	Snail (1), Hydroids	N	None	Soft Sediment Fauna	NA	Mobile Mollusks on Soft Sediments	Hydroid Bed	Very fine/fine sand and silt with large shell fragments, no lasers.
ASOW-22-NECCNY-SP-340	D	NECCNY	N	Y	Y	Hydroids	N	None	Attached Fauna	Soft Sediment Fauna	Attached Hydroids	Mobile Crustaceans on Soft Sediments	Shell on sand and silt, no lasers.
ASOW-22-NECCNY-SP-342	A	NECCNY	N	Y	Y	None	N	None	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	None	Rippled sand, several large tubes.
ASOW-22-NECCNY-SP-342	D	NECCNY	N	Y	Y	Mussels (3)	N	None	Soft Sediment Fauna	NA	Mussel Bed	None	Rippled sand with small mussels attached.
ASOW-22-NECCNY-SP-342	F	NECCNY	N	Y	Y	Mussels, Nassariid snail (1), Hermit crab (1)	N	None	Soft Sediment Fauna	Inferred Fauna	Mussel Bed	Tracks and Trails	Chaotic ripples, two mussel clumps, tracks and trails.
ASOW-22-NECCNY-SP-344	A	NECCNY	N	Y	N	None	N	None	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	None	Rippled sand with shell hash. Ripples have variable wavelengths, few tubes in troughs.
ASOW-22-NECCNY-SP-344	B	NECCNY	N	Y	N	None	N	None	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	None	Rippled sand with trace of shell hash. Ripples are variable in size. Large tubes.
ASOW-22-NECCNY-SP-344	C	NECCNY	N	Y	Y	Diopatra (2), Anemone (1)	N	None	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Burrowing Anemones	Uneven rippled sand with shell hash in ripple troughs. Some tubes.
ASOW-22-NECCNY-SPC-308	B	NECCNY	N	N	Y	Hermit crab (1)	N	None	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	None	Rippled sand with shell and granules in the troughs.
ASOW-22-NECCNY-SPC-308	C	NECCNY	N	N	N	None	N	None	None	NA	None	None	Rippled sand, no visible of evidence biota, possible live mussel.
ASOW-22-NECCNY-SPC-308	D	NECCNY	N	N	Y	None	N	None	Inferred Fauna	NA	Tracks and Trails	None	Rippled sand with shell, pebble/granules in troughs, no visible fauna, few tracks/trails.
ASOW-22-NECCNY-SPC-309	A	NECCNY	N	N	Y	Nudibranch (1)	N	None	Inferred Fauna	NA	Tracks and Trails	None	Rippled sand, unidentified organisms at edge of image.
ASOW-22-NECCNY-SPC-309	C	NECCNY	N	Y	Y	None	N	None	Inferred Fauna	NA	Tracks and Trails	None	Rippled sand with shell hash, some granules in troughs.
ASOW-22-NECCNY-SPC-309	D	NECCNY	N	N	Y	None	N	None	Inferred Fauna	NA	Tracks and Trails	None	Rippled sand with shell, no visible fauna.
ASOW-22-NECCNY-SPC-310	A	NECCNY	N	Y	Y	None	N	None	Inferred Fauna	NA	Tracks and Trails	None	Rippled sand, no visible epifauna.
ASOW-22-NECCNY-SPC-310	B	NECCNY	N	Y	Y	None	N	None	Inferred Fauna	NA	Tracks and Trails	None	Rippled sand, limited sand and gravel in troughs, no obvious fauna.

Plan View Image Analysis Results, Atlantic Shores Offshore Wind, 2022

							CMECS Substrate Classifications						
Station ID	Replicate	Location	Image Width (cm)[a]	Image Height (cm)[a]	Image FOV (cm^2)[a]	Image FOV (m^2)[a]	Substrate Class	Substrate Subclass	Substrate Group	Substrate Subgroup	Substrate Group Percent	Habitat Type	Ripples Presence and Wavelength (cm)
ASOW-22-NECCNY-SPC-310	D	NECCNY	43	29	1230	0.12	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 97, Shell 2, Pebble/Granule 1	Rippled sand	Y, 10
ASOW-22-NECCNY-SPC-311	A	NECCNY	46	30	1393	0.14	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 98, Shell 1, Pebble/Granule 1	Rippled sand	Y, 10
ASOW-22-NECCNY-SPC-311	B	NECCNY	50	33	1677	0.17	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 97, Shell 2, Pebble/Granule 1	Rippled sand	Y, 12
ASOW-22-NECCNY-SPC-311	C	NECCNY	49	33	1621	0.16	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 95, Shell 3, Pebble/Granule 2	Rippled sand	Y, 8
ASOW-22-NECCNY-SPC-317	C	NECCNY	74	49	3637	0.36	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 50, Cobble 30, Pebble/Granule 15 Shell 5	Hard Bottom Substrate	N
ASOW-22-NECCNY-SPC-317	E	NECCNY					Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 98, Shell 2	Rippled sand	Y, Ind
ASOW-22-NECCNY-SPC-317	F	NECCNY	50	33	1641	0.16	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 95, Shell 5	Rippled sand with shell fragments	Y, 10
ASOW-22-NECCNY-SPC-318	A	NECCNY					Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 100	Rippled sand	Y, Ind
ASOW-22-NECCNY-SPC-318	B	NECCNY					Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 100	Rippled sand	Y, Ind
ASOW-22-NECCNY-SPC-318	C	NECCNY					Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand100	Rippled sand	Y, Ind
ASOW-22-NECCNY-SPC-319	A	NECCNY					Ind	Ind	Sand	Fine/Very Fine Sand	Ind		Y, Ind
ASOW-22-NECCNY-SPC-319	B	NECCNY					Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 100	Rippled sand	Y, Ind
ASOW-22-NECCNY-SPC-319	F	NECCNY					Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 65, Cobble 23, Pebble/Granule 10, Shell 2	Cobbles/pebbles on sand	N
ASOW-22-NECCNY-SPC-320	G	NECCNY					Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 100	Rippled sand	Y, Ind
ASOW-22-NECCNY-SPC-320	H	NECCNY					Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 100	Rippled sand	Y, Ind
ASOW-22-NECCNY-SPC-320	I	NECCNY					Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 100	Rippled sand	Y, Ind
ASOW-22-NECCNY-SPG-306	B	NECCNY					Unconsolidated Mineral	Fine Unconsolidated	Sandy Mud	NA	Silt 80, Sand 20	Rippled fine sand/silt bottom	Y, Ind
ASOW-22-NECCNY-SPG-306	D	NECCNY					Unconsolidated Mineral	Fine Unconsolidated	Sandy Mud	NA	Ind	Ind	Ind
ASOW-22-NECCNY-SPG-306	G	NECCNY					Unconsolidated Mineral	Fine Unconsolidated	Sandy Mud	NA	Ind	Ind	Ind
ASOW-22-NECCNY-SPG-327	A	NECCNY	46	31	1432	0.14	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 85, Shell 13, Pebble/Granule 2	Rippled sand with shell fragments	Y, 5
ASOW-22-NECCNY-SPG-327	B	NECCNY	45	30	1378	0.14	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 60, Shell 30, Pebble/Granule 5	Hard Bottom Substrate	N
ASOW-22-NECCNY-SPG-327	C	NECCNY	42	28	1192	0.12	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 55, Shell 40, Pebble/Granule 5	Hard Bottom Substrate	Y, 9
ASOW-22-NECCNY-SPG-341	A	NECCNY	71	48	3407	0.34	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 98, Shell 2, Pebble/Granule <1	Rippled sand with shell hash	Y, 66
ASOW-22-NECCNY-SPG-341	B	NECCNY	74	49	3627	0.36	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 98, Shell 1, Pebble/Granule 1	Rippled sand	Y, 48
ASOW-22-NECCNY-SPG-341	C	NECCNY	65	43	2822	0.28	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 97, Shell 3, Pebble/Granule <1	Rippled sand with shell	Y, >69
ASOW-22-NECCNY-SPGC-312	A	NECCNY	86	58	4972	0.50	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 95, Shell 4, Pebble/Granule 1	Rippled sand	Y, 12
ASOW-22-NECCNY-SPGC-312	B	NECCNY	95	63	6031	0.60	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 95, Shell 4, Pebble/Granule 1	Rippled sand	Y, 10
ASOW-22-NECCNY-SPGC-312	E	NECCNY	87	58	5094	0.51	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 95, Shell 3, Pebble/Granule 2	Rippled sand with shell hash	Y, 10
ASOW-22-NECCNY-SPGC-316	C	NECCNY					Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 95, Silt 5	Rippled sand	Y, Ind
ASOW-22-NECCNY-SPGC-316	D	NECCNY					Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 100	Sand	Ind
ASOW-22-NECCNY-SPGC-316	F	NECCNY					Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 100	Rippled sand	Y, 10 (from SPI image)
ASOW-22-NECCT-SP-346	B	NECCT	56	37	2080	0.21	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Muddy Sand	Sand 55, Silt 30, Pebble/Granule 10, Shell 5	Rippled sand with silt and gravel	Y, Ind
ASOW-22-NECCT-SP-346	C	NECCT	48	32	1560	0.16	Unconsolidated Mineral	Coarse Unconsolidated	Gravels	Pebble/Granule	Pebble/Granule 85, Sand 15, Shell <1	Hard bottom substrate over sand	N
ASOW-22-NECCT-SP-346	D	NECCT					Unconsolidated Mineral	Coarse Unconsolidated	Gravels	Pebble/Granule	Pebble/Granule 85, Sand 10, Shell 5	Hard bottom substrate and shell over sand	N
ASOW-22-NECCT-SP-349	B	NECCT	45	30	1351	0.14	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 80, Pebble/Granule 20, Shell <1	Rippled sand and gravel	Y, >33

Plan View Image Analysis Results, Atlantic Shores Offshore Wind, 2022

								CMECS Biotic Classifications				
Station ID	Replicate	Location	Burrows	Tubes	Tracks	Epifauna, Infauna & Fish Types and Counts	Macroalgae Presence[b]	Eel Grass Types[c] and Counts	Biotic Subclass	Co-occurring Biotic Subclass	Biotic Group	Co-occurring Biotic Group	Comments
ASOW-22-NECCNY-SPC-310	D	NECCNY	N	Y	Y	None	N	None	Inferred Fauna	NA	Tracks and Trails	None	Rippled sand, no obvious fauna.
ASOW-22-NECCNY-SPC-311	A	NECCNY	N	Y	Y	None	N	None	Inferred Fauna	NA	Tracks and Trails	None	Rippled sand, no obvious fauna.
ASOW-22-NECCNY-SPC-311	B	NECCNY	N	N	Y	None	N	None	Inferred Fauna	NA	Tracks and Trails	None	Rippled sand, no obvious fauna.
ASOW-22-NECCNY-SPC-311	C	NECCNY	N	Y	Y	None	N	None	Inferred Fauna	NA	Tracks and Trails	None	Rippled sand, no obvious fauna.
ASOW-22-NECCNY-SPC-317	C	NECCNY	N	Y	Y	Sponge, Hydroids, Hermit crab (7)	N	None	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	Attached Sponges	Cobbles, pebbles on sand, encrusting fauna.
ASOW-22-NECCNY-SPC-317	E	NECCNY	N	Y	Y	Hydroids	N	None	Soft Sediment Fauna	NA	Small Tube-Building Fauna	None	Rippled sand, many small tubes, only one laser.
ASOW-22-NECCNY-SPC-317	F	NECCNY	N	Y	Y	Nassariid snail (3), Hermit crab (1)	N	None	Soft Sediment Fauna	NA	Mobile Mollusks on Soft Sediments	Small Tube-Building Fauna	Rippled sand with many small tubes, some shell fragments.
ASOW-22-NECCNY-SPC-318	A	NECCNY	Ind	Y	Ind	Ind	N	None	Soft Sediment Fauna	NA	Small Tube-Building Fauna	Ind	Poor image clarity due to near bottom turbidity, no lasers.
ASOW-22-NECCNY-SPC-318	B	NECCNY	N	Y	Y	Diopatra (1)	N	None	Soft Sediment Fauna	Ind	Larger Deep-Burrowing Fauna	Ind	Poor image clarity due to near bottom turbidity, rippled sand, diopatra, no lasers.
ASOW-22-NECCNY-SPC-318	C	NECCNY	N	Y	Y	Hermit crab (1), Ind	N	None	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	Small Tube-Building Fauna	Poor image clarity due to near bottom turbidity, no lasers, rippled sand.
ASOW-22-NECCNY-SPC-319	A	NECCNY	Ind	Ind	Ind	Ind	Ind	Ind	Soft Sediment Fauna	Ind	Small Tube-Building Fauna	Ind	Poor image clarity due to near bottom turbidity, no lasers, CMECS designations based on SPI image.
ASOW-22-NECCNY-SPC-319	B	NECCNY	Y	Y	Y	Nassariid snail (1)	N	None	Soft Sediment Fauna	Inferred Fauna	Mobile Mollusks on Soft Sediments	Fecal Mounds	Rippled sand, many tubes and fecal casts on SWI, no lasers.
ASOW-22-NECCNY-SPC-319	F	NECCNY	N	Y	Y	Hydroids, Sponge, Snail (1)	N	None	Attached Fauna	NA	Attached Sponges	Attached Hydroids	Cobbles/pebbles on sand, encrusting hydroids, sponges, no lasers.
ASOW-22-NECCNY-SPC-320	G	NECCNY	N	Y	Y	Hermit crab (3)	N	None	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	Small Tube-Building Fauna	Rippled sand, many tubes, no lasers.
ASOW-22-NECCNY-SPC-320	H	NECCNY	N	Y	Y	Ind	N	None	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Ind	Poor image clarity due to near bottom turbidity, no lasers, some entries informed by SPI image.
ASOW-22-NECCNY-SPC-320	I	NECCNY	N	Y	Y	Diopatra (1)	N	None	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	None	Rippled sand, diopatra, poor image clarity due to near bottom turbidity, no lasers.
ASOW-22-NECCNY-SPG-306	B	NECCNY	N	Y	Y	None	N	None	Inferred Fauna	NA	Tracks and Trails	None	Very turbid image, no lasers, rippled silt/very fine sand, tracks, tubes.
ASOW-22-NECCNY-SPG-306	D	NECCNY	Ind	Ind	Ind	Ind	Ind	Ind	Ind	Ind	Ind	Ind	No analyzable image. Substrate classifications inferred from sediment profile image.
ASOW-22-NECCNY-SPG-306	G	NECCNY	Ind	Ind	Ind	Ind	Ind	Ind	Ind	Ind	Ind	Ind	No analyzable PV image. Substrate classifications inferred from sediment profile image.
ASOW-22-NECCNY-SPG-327	A	NECCNY	N	Y	Y	Hydroids, Mussels, Crepidula	N	None	Attached Fauna	Soft Sediment Fauna	Attached Hydroids	Mussel Bed	Rippled sand with shells encrusted with hydroids, some mussels.
ASOW-22-NECCNY-SPG-327	B	NECCNY	N	N	N	Mussels, Hydroids	N	n	Soft Sediment Fauna	Attached Fauna	Mussel Bed	Attached Hydroids	Sand with shell hash, some granules, mussels attached to large shell fragments.
ASOW-22-NECCNY-SPG-327	C	NECCNY	N	N	N	Mussels, Hydroids	N	None	Soft Sediment Fauna	Attached Fauna	Mussel Bed	Attached Hydroids	Rippled sand with mussels and hydroids on large shell fragments, some gravel.
ASOW-22-NECCNY-SPG-341	A	NECCNY	N	N	N	Hermit crab (1)	N	None	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	None	Rippled sand with shell hash mostly mussel shell debris and few granules in ripple troughs. One ripple crest caught in frame.
ASOW-22-NECCNY-SPG-341	B	NECCNY	N	N	Y	Astarte clam (1)	N	None	Inferred Fauna	NA	Tracks and Trails	None	Rippled sand with trace of shell hash and gravel in ripple troughs. Well-defined ripple crests.
ASOW-22-NECCNY-SPG-341	C	NECCNY	N	N	N	Hermit crab (4)	N	None	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	None	Rippled sand with shell hash and trace of granules in ripple trough. Ripple wavelength is indeterminate, only one captured in frame.
ASOW-22-NECCNY-SPGC-312	A	NECCNY	N	Y	Y	None	N	None	Inferred Fauna	NA	Tracks and Trails	None	Rippled sand, no obvious fauna.
ASOW-22-NECCNY-SPGC-312	B	NECCNY	N	N	Y	None	N	None	Inferred Fauna	NA	Tracks and Trails	None	Rippled sand, no obvious fauna
ASOW-22-NECCNY-SPGC-312	E	NECCNY	n	Y	y	Hermit crab (2)	N	None	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	None	Rippled sand, shells, possible diopatra.
ASOW-22-NECCNY-SPGC-316	C	NECCNY	N	Y	Y	Ind	N	None	Soft Sediment Fauna	NA	Ind	None	Poor image clarity due to near bottom turbidity, no lasers.
ASOW-22-NECCNY-SPGC-316	D	NECCNY	N	Y	Y	Snail (2), Shrimp (1)	Ind	None	Soft Sediment Fauna	NA	Mobile Mollusks on Soft Sediments	None	Poor image clarity due to near bottom turbidity, no lasers. PV observations inferred from SPI.
ASOW-22-NECCNY-SPGC-316	F	NECCNY	N	Y	Y	Ind	N	None	Inferred Fauna	NA	Tracks and Trails	None	Poor image clarity due to near bottom turbidity, no lasers.
ASOW-22-NECCT-SP-346	B	NECCT	Ind	Ind	Ind	Ind	Ind	Ind	Ind	Ind	Ind	Ind	Rippled sand with overlying silt, gravels and shell debris. Highly turbid, ripples are evident in SPI yet wavelength is indeterminate.
ASOW-22-NECCT-SP-346	C	NECCT	N	N	N	Ind	Ind	Ind	Ind	Ind	Ind	Ind	Gravels ranging in size over sand, trace of shell. Highly turbid.
ASOW-22-NECCT-SP-346	D	NECCT	Ind	Ind	Ind	Ind	Ind	Ind	Ind	Ind	Ind	Ind	Pebble/granules and shell, highly turbid.
ASOW-22-NECCT-SP-349	B	NECCT	N	N	N	None	N	None	None	NA	None	None	Rippled sand with granules, trace of shell. Highly turbid.

Plan View Image Analysis Results, Atlantic Shores Offshore Wind, 2022

							CMECS Substrate Classifications						
Station ID	Replicate	Location	Image Width (cm)[a]	Image Height (cm)[a]	Image FOV (cm^2)[a]	Image FOV (m^2)[a]	Substrate Class	Substrate Subclass	Substrate Group	Substrate Subgroup	Substrate Group Percent	Habitat Type	Ripples Presence and Wavelength (cm)
ASOW-22-NECCT-SP-349	C	NECCT	55	37	2044	0.20	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 94, Gravel 4, Shell 2	Rippled sand with gravel and shell	Y, Ind
ASOW-22-NECCT-SP-349	E	NECCT	54	36	1925	0.19	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 80, Pebble/Granule 20, Shell <1	Rippled sand with gravel	Y, Ind
ASOW-22-NECCT-SP-351	B	NECCT	54	36	1910	0.19	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 99, Shell 1	Rippled sand	Y, 11
ASOW-22-NECCT-SP-351	C	NECCT	49	32	1583	0.16	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 99, Shell 1	Rippled sand	Y, 11
ASOW-22-NECCT-SP-351	D	NECCT	47	31	1476	0.15	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 99, Shell 1	Rippled Sand	Y, 7
ASOW-22-NECCT-SP-354	A	NECCT	87	58	5081	0.51	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 85, Shell 10, Pebble/Granule 5	Sand with gravel and shell	Y, Ind
ASOW-22-NECCT-SP-354	C	NECCT	87	58	5052	0.51	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 75, Pebble/Granule 10, Shell 10, Cobble 5	Sand with gravel and shell	N
ASOW-22-NECCT-SP-354	D	NECCT	89	59	5294	0.53	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 80, Pebble/Granule 15, Shell 5	Sand with gravel and shell	N
ASOW-22-NECCT-SP-356	A	NECCT	84	56	4749	0.47	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 90, Shell 10	Sand with shell hash	N
ASOW-22-NECCT-SP-356	B	NECCT	95	63	5969	0.60	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 97, Shell 3	Sand with shell hash	N
ASOW-22-NECCT-SP-356	C	NECCT	94	63	5899	0.59	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 99, Shell 1	Sand with trace of shell hash	N
ASOW-22-NECCT-SP-370	A	NECCT	88	58	5128	0.51	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 98, Shell 1, Gravel 1	Sand with trace of gravel and shell	N
ASOW-22-NECCT-SP-370	B	NECCT	89	60	5324	0.53	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 99, Shell 1	Sand	N
ASOW-22-NECCT-SP-370	C	NECCT	88	59	5190	0.52	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 98, Shell 2	Sand with shell hash	N
ASOW-22-NECCT-SP-374	A	NECCT	87	58	4995	0.50	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 100, Shell <1	Rippled sand	N
ASOW-22-NECCT-SP-374	D	NECCT	94	63	5884	0.59	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 90, Shell 10	Sand with shell hash	N
ASOW-22-NECCT-SP-374	E	NECCT	90	60	5442	0.54	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 99, Shell 1	Sand with trace of shell	N
ASOW-22-NECCT-SP-376	A	NECCT	82	55	4479	0.45	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 97, Gravel 2, Shell 1	Sand with gravel and shell	N
ASOW-22-NECCT-SP-376	B	NECCT	87	58	5036	0.50	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 92, Pebble/Granule 7, Shell 1	Sand with gravel and shell hash	N
ASOW-22-NECCT-SP-376	C	NECCT	82	55	4471	0.45	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 90, Pebble/Granule 10, Shell <1	Sand with gravel and shell hash	N
ASOW-22-NECCT-SP-379	A	NECCT	86	57	4928	0.49	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 60, Pebble/Granule 35, Shell 5	Sand and shell	N
ASOW-22-NECCT-SP-379	B	NECCT	85	56	4783	0.48	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 75, Pebble/Granule 20, Shell 5	Sand with gravel and shell	N
ASOW-22-NECCT-SP-379	E	NECCT	84	56	4725	0.47	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium sand	Sand 96, Pebble/Granule 3, Shell 1	Sand with trace of gravel and shell	N
ASOW-22-NECCT-SP-381	A	NECCT	83	55	4607	0.46	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 80, Pebble/Granule 17, Shell 3	Sand with gravel and shell	N
ASOW-22-NECCT-SP-381	C	NECCT	80	53	4228	0.42	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Pebble/Granule 55, Sand 44, Shell 1	Gravel with sand and shell	N
ASOW-22-NECCT-SP-381	D	NECCT	86	57	4874	0.49	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Pebble/Granule 65, Sand 32, Shell 3	Gravel with sand and shell	N
ASOW-22-NECCT-SP-384	A	NECCT	87	58	5028	0.50	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 65, Pebble/Granule 30, Shell 5	Sand with gravel and shell	N
ASOW-22-NECCT-SP-384	B	NECCT	86	57	4914	0.49	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Pebble/Granule 55, Sand 40, Shell 5	Gravel with sand and shell	N
ASOW-22-NECCT-SP-384	C	NECCT	95	63	6001	0.60	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 50, Pebble/Granule 45, Shell 5	Gravel with sand and shell	N
ASOW-22-NECCT-SP-386	A	NECCT	82	55	4507	0.45	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 98, Shell 2, Pebble/Granule <1	Rippled sand with shell	Y, Ind
ASOW-22-NECCT-SP-386	B	NECCT	88	59	5147	0.51	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 99, Shell 1	Rippled sand with trace of shell hash	Y?
ASOW-22-NECCT-SP-386	D	NECCT	86	57	4940	0.49	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 99, Shell 1	Sand with shell	N

Plan View Image Analysis Results, Atlantic Shores Offshore Wind, 2022

								CMECS Biotic Classifications				
Station ID	Replicate	Location	Burrows	Tubes	Tracks	Epifauna, Infauna & Fish Types and Counts	Macroalgae Presence[b]	Eel Grass Types[c] and Counts	Biotic Subclass	Co-occurring Biotic Subclass	Biotic Group	Co-occurring Biotic Group	Comments
ASOW-22-NECCT-SP-349	C	NECCT	Ind	Ind	Ind	Ind	Ind	Ind	Ind	Ind	Ind	Ind	Rippled coarse sand with gravel and clam shell.
ASOW-22-NECCT-SP-349	E	NECCT	Ind	Ind	Ind	Ind	Ind	Ind	Ind	Ind	Ind	Ind	Coarse sand with pebble/granules, shell hash. Possibly rippled, highly turbid.
ASOW-22-NECCT-SP-351	B	NECCT	N	N	N	Cerianthid anemone (1)	N	None	Soft Sediment Fauna	NA	Burrowing Anemones	None	Rippled fine to medium sand, few granules and shell fragments.
ASOW-22-NECCT-SP-351	C	NECCT	N	N	N	Cerianthid anemone (2)	N	None	Soft Sediment Fauna	NA	Burrowing Anemones	None	Variably rippled sand, trace of shell hash.
ASOW-22-NECCT-SP-351	D	NECCT	N	N	Y	Anemone (1)	N	None	Soft Sediment Fauna	NA	Burrowing Anemones	None	Rippled sand, trace of shell and aggregated material (sand clasts).
ASOW-22-NECCT-SP-354	A	NECCT	N	N	Y	None	N	None	Inferred Fauna	NA	Tracks and Trails	None	Rippled coarse sand, gravel and diverse shell overlying.
ASOW-22-NECCT-SP-354	C	NECCT	N	N	N	Bryozoans, Astarte (1), Nassariid snail (1)	T	None	Attached Fauna	Soft Sediment Fauna	Attached Bryozoans	Clam Bed	Coarse sand with range of gravels and diverse shell debris. Cobble with attached fauna.
ASOW-22-NECCT-SP-354	D	NECCT	N	N	Y	Astarte clam (1)	N	None	Inferred Fauna	NA	Tracks and Trails	None	Coarse sand, possibly rippled, pebble/granules and shell hash.
ASOW-22-NECCT-SP-356	A	NECCT	N	N	Y	Sand dollar (100+), Hermit crab (1), Diopatra (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Coarse sand with shell hash and many sand dollars.
ASOW-22-NECCT-SP-356	B	NECCT	N	N	Y	Sand dollar (75+), Skate egg case (2), Diopatra (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	None	Coarse sand, shell hash and sand dollars. Few tracks.
ASOW-22-NECCT-SP-356	C	NECCT	N	Y	Y	Sand dollar (~75), Diopatra (3)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Coarse sand, trace of shell and many sand dollars.
ASOW-22-NECCT-SP-370	A	NECCT	N	N	Y	Sand dollar (100+), Nassariid snail (1), Moon snail (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Coarse to medium sand with trace of granules and shell hash. Many sand dollars and evidence of tracks.
ASOW-22-NECCT-SP-370	B	NECCT	N	N	Y	Sand dollar (~50), Nassariid snail (2), Astarte (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Coarse sand, trace of shell. Many sand dollars, moon snail is a co-occurring element.
ASOW-22-NECCT-SP-370	C	NECCT	N	N	Y	Sand dollar (100+), Nassariid snail (2), Sea star (1), Hermit crab (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Coarse sand with an abundance of sand dollars and trace of shell hash.
ASOW-22-NECCT-SP-374	A	NECCT	N	N	Y	Sand dollar (~75), Hermit crab (2)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Medium sand with trace of shell hash. Many sand dollars and some tracks. Few sediment mounds.
ASOW-22-NECCT-SP-374	D	NECCT	N	N	Y	Sand dollar (~20), Hermit crab (~15), Atlantic puffer (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Coarse sand with diverse shell hash and debris. Moderate amount of sand dollars, few deceased and foraging crustaceans.
ASOW-22-NECCT-SP-374	E	NECCT	N	Y	Y	Sand dollar (~50), Nassariid snail (4), Diopatra (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand with shell hash. Moderate amount of sand dollars, tracks.
ASOW-22-NECCT-SP-376	A	NECCT	N	N	Y	Sand dollar (100+), Nassariid snail (4), Astarte clam (2)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Coarse sand, trace of pebble/granules and shell hash. Many sand dollars.
ASOW-22-NECCT-SP-376	B	NECCT	N	N	Y	Sand dollar (~70), Astarte clam (2)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Clam Bed	Coarse sand with pebbles and granules and diverse shell hash overlying. Many sand dollars.
ASOW-22-NECCT-SP-376	C	NECCT	N	N	Y	Sand dollar (~40), Nassariid snail (5), Astarte clam (1)	N	None	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Mollusks on Hard or Mixed Substrates	Sand with pebbles and fine granules aggregated top of frame. Sand dollars and tracks evident.
ASOW-22-NECCT-SP-379	A	NECCT	N	N	Y	Sand dollar (1), Hermit crab (1)	N	None	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Hard or Mixed Substrates	Mixed substrate composed of pebble/granules and coarse sand, shell hash.
ASOW-22-NECCT-SP-379	B	NECCT	N	N	Y	Sand dollar (5), Hermit crab (4)	N	None	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Hard or Mixed Substrates	Coarse sand with pebble/granules and shell debris.
ASOW-22-NECCT-SP-379	E	NECCT	N	N	Y	Sand tubes (50+), Nassariid snail (4), Hermit crab (2), Sand dollar (1), Anemone (1)	N	None	Soft Sediment Fauna	NA	Tunicate Bed	Mobile Mollusks on Soft Sediments	Sand with trace of granules and shell debris. Many sand tubes, some snails.
ASOW-22-NECCT-SP-381	A	NECCT	N	N	N	Sand dollar (16), Nassariid snail (3), Hermit crab (3), Anemone (1), Astarte clam (1)	N	None	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Mollusks on Hard or Mixed Substrates	Pebble/Granules and shell hash over very coarse sands. Possible moon snail bottom of frame.
ASOW-22-NECCT-SP-381	C	NECCT	N	N	N	Sand dollar (4), Nassariid snail (2)	N	None	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Mollusks on Hard or Mixed Substrates	Pebbles and granules with very coarse to medium sands and shell hash.
ASOW-22-NECCT-SP-381	D	NECCT	N	N	N	Nassariid snail (6), Hermit crab (1), Moon Snail egg case (1)	N	None	Attached Fauna	NA	Mobile Mollusks on Hard or Mixed Substrates	None	Pebbles and granules over very coarse to coarse sands. Moon snail egg case.
ASOW-22-NECCT-SP-384	A	NECCT	N	N	Y	Hermit crab (2), Anemone (2), Nassariid snail (1), Astarte clam (1)	N	None	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Burrowing Anemones	Pebble/granules with very coarse sand and shell debris. Pebbles aggregated right side of frame.
ASOW-22-NECCT-SP-384	B	NECCT	N	N	N	Hermit crab (3)	N	None	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	None	Pebble/granules and shell hash over very coarse sand.
ASOW-22-NECCT-SP-384	C	NECCT	N	N	N	Sand dollar (6), Hermit crab (1), Anemone (1),	N	None	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Hard or Mixed Substrates	Pebbles, granules and shell hash over very coarse sands.
ASOW-22-NECCT-SP-386	A	NECCT	N	N	Y	Sand dollar (32), Hermit crab (1), Nassariid snail (1)	N	None	Soft Sediment Fauna	Inferred Fauna	Sand Dollar Bed	Tracks and Trails	Subtly rippled medium sand. Many tracks and a biogenic depression.
ASOW-22-NECCT-SP-386	B	NECCT	N	N	Y	Sand dollar (~30), Nassariid snail (4), Hermit crab (1)	T	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Partially rippled sand with most living sand dollars (one deceased). Many tracks and trace of shell hash.
ASOW-22-NECCT-SP-386	D	NECCT	N	Y	Y	Sand dollar (~40), Nassariid snail (3), Diopatra (1), Anemone (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Medium sand trace of shell hash. Many sand dollars and tracks

Plan View Image Analysis Results, Atlantic Shores Offshore Wind, 2022

							CMECS Substrate Classifications						
Station ID	Replicate	Location	Image Width (cm)[a]	Image Height (cm)[a]	Image FOV (cm^2)[a]	Image FOV (m^2)[a]	Substrate Class	Substrate Subclass	Substrate Group	Substrate Subgroup	Substrate Group Percent	Habitat Type	Ripples Presence and Wavelength (cm)
ASOW-22-NECCT-SP-388	B	NECCT	85	56	4782	0.48	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 99, Shell 1	Sand with trace of shell hash	N
ASOW-22-NECCT-SP-388	C	NECCT	86	57	4879	0.49	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 99, Shell 1	Sand with shell hash	N
ASOW-22-NECCT-SP-388	E	NECCT	83	55	4577	0.46	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 97, Shell 3	Sand with shell hash	N
ASOW-22-NECCT-SP-395	A	NECCT	85	57	4824	0.48	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 90, Shell 8, Pebble/Granule 2	Sand with shell and gravel	N
ASOW-22-NECCT-SP-395	B	NECCT	88	59	5203	0.52	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 92, Shell 8	Rippled sand with shell hash	Y, Ind
ASOW-22-NECCT-SP-395	C	NECCT	82	54	4438	0.44	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 95, Shell 5, Pebble/Granule <1	Sand with shell hash and few granules	N
ASOW-22-NECCT-SP-396	A	NECCT	95	63	6018	0.60	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 65, Pebble/Granule 25, Shell 5	Sand with gravels and shell	Y, 11
ASOW-22-NECCT-SP-396	B	NECCT	84	56	4664	0.47	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 92, Shell 5, Pebble/Granule 3	Sand with shell hash and gravels	Y, Ind
ASOW-22-NECCT-SP-396	C	NECCT	84	56	4682	0.47	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 93, Pebble/Granule 3, Shell 2, Silt 2	Sand with gravel, shell hash	Y, Ind
ASOW-22-NECCT-SP-405	A	NECCT	88	59	5172	0.52	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 97, Pebble/Granule 3, Shell <1	Rippled sand with trace of gravel	Y, 9
ASOW-22-NECCT-SP-405	C	NECCT	89	59	5292	0.53	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 97, Shell 2, Pebble/Granule 1	Rippled sand	Y, 9
ASOW-22-NECCT-SP-405	D	NECCT	88	59	5190	0.52	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 98, Shell 2, Pebble/Granule <1	Rippled sand	Y, 11
ASOW-22-NECCT-SP-407	A	NECCT	87	58	5090	0.51	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 97, Pebble/Granule 3, Shell <1	Sand with trace of gravel	N
ASOW-22-NECCT-SP-407	B	NECCT	82	55	4537	0.45	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 95, Pebble/Granule 3, Shell 2	Rippled sand with gravel and shell	Y, 13
ASOW-22-NECCT-SP-407	E	NECCT	88	59	5171	0.52	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 70, Pebble/Granule 25, Shell 5	Sand with gravel and shell	N
ASOW-22-NECCT-SP-410	B	NECCT	76	51	3883	0.39	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 74, Pebble/Granule 25, Shell 1	Sand with gravel and shell	Y, >66
ASOW-22-NECCT-SP-410	C	NECCT	78	52	4050	0.41	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 65, Pebble/Granule 30, Shell 5	Sand with gravel and shell	N
ASOW-22-NECCT-SP-410	D	NECCT	83	55	4563	0.46	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Pebble/Granule 60, Sand 35, Shell 5	Gravel with sand and shell	N
ASOW-22-NECCT-SP-413	B	NECCT	86	58	4960	0.50	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 75, Pebble/Granule 20, Shell 5	Sand with gravel and shell	Y, Ind
ASOW-22-NECCT-SP-413	F	NECCT	85	57	4827	0.48	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 75, Pebble/Granule 24, Shell 1	Sand with gravel and trace of shell	N
ASOW-22-NECCT-SP-413	J	NECCT	83	55	4592	0.46	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 80, Pebble/Granule 17, Shell 3	Sand with gravels and shell hash	N
ASOW-22-NECCT-SP-416	A	NECCT	81	54	4413	0.44	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 55, Pebble/Granule 35, Shell 10	Gravel with sand and shell	N
ASOW-22-NECCT-SP-416	B	NECCT	88	59	5133	0.51	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 65, Pebble/Granule 30, Shell 5	Sand with gravel and shell	N
ASOW-22-NECCT-SP-416	E	NECCT	81	54	4340	0.43	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 50, Pebble/Granule 48, Shell 2	Sand and gravel with shell	N
ASOW-22-NECCT-SP-426	C	NECCT	89	59	5277	0.53	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 75, Silt 22, Shell 2, Gravel 1	Sand with silt and shell hash	N
ASOW-22-NECCT-SP-426	D	NECCT	87	58	5005	0.50	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 75, Silt 22, Shell 3, Pebble/Granule <1	Rippled sand with silt and shell	Y, Ind
ASOW-22-NECCT-SP-426	E	NECCT	88	58	5116	0.51	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 80, Silt 14, Pebble/Granule 3, Shell 3	Sand with silt, gravel and shell	Y, Ind
ASOW-22-NECCT-SP-432	A	NECCT	83	55	4572	0.46	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 98, Shell 2, Pebble/Granule <1	Rippled sands with shell hash	Y, Ind
ASOW-22-NECCT-SP-432	C	NECCT	86	58	4978	0.50	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 97, Shell 3, Pebble/Granule <1	Rippled sand with shell hash	Y, Ind

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								CMECS Biotic Classifications				
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ASOW-22-NECCT-SP-388	B	NECCT	N	Y	Y	Sand dollar (100+), Nassariid snail (11), Hermit crab (2), Diopatra (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Fine to medium sand, trace of shell hash. Many sand dollars.
ASOW-22-NECCT-SP-388	C	NECCT	N	N	Y	Sand dollar (50+), Nassariid snail (8), Hermit crab (2)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Fine sand, trace of shell hash. Many sand dollars, some tracks.
ASOW-22-NECCT-SP-388	E	NECCT	N	N	Y	Sand dollar (~70), Nassariid snail (4)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Fine sand with shell hash. Many sand dollars, distinct tracks.
ASOW-22-NECCT-SP-395	A	NECCT	N	Y	Y	Sand dollar (~60), Hermit crab (1)	T	None	Soft Sediment Fauna	Inferred Fauna	Sand Dollar Bed	Tracks and Trails	Medium to coarse sand with overlying shell hash and few granules. Possible trace of macroalgae and some tracks, anthropogenically disturbed?.
ASOW-22-NECCT-SP-395	B	NECCT	N	N	Y	Sand dollar (~50), Hermit crab (3)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Subtly rippled medium to coarse sand with shell hash. Detrital aggregates and many sand dollars, few clam shells, anthropogenically disturbed?.
ASOW-22-NECCT-SP-395	C	NECCT	N	Y	Y	Sand dollar (~45), Hermit crab (3), Diopatra (2), Nassariid snail (2)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Medium to coarse sand with shell hash and few granules. Possible detrital aggregates and some tracks.
ASOW-22-NECCT-SP-396	A	NECCT	N	Y	Y	Sand dollar (~50), Hermit crab (3), Nassariid snail (1), Diopatra (1), Astarte clam (1)	N	None	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Hard or Mixed Substrates	Partially rippled very coarse sand with overlying pebble/granules and shell hash, anthropogenically disturbed?
ASOW-22-NECCT-SP-396	B	NECCT	N	N	Y	Sand dollar (~80), Hermit crab (3), Diopatra (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Subtle rippled coarse sands with overlying pebble/granules and shell hash. Many sand dollars, anthropogenically disturbed?
ASOW-22-NECCT-SP-396	C	NECCT	N	N	Y	Sand dollar (~75), Hermit crab (3), Nassariid snail (2), Astarte clam (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Slightly rippled coarse sand with few pebble/granules and shell hash. Some deposited silt and detritus, anthropogenically disturbed?
ASOW-22-NECCT-SP-405	A	NECCT	N	N	Y	Sand dollar (~30), Nassariid snail (5), Hydroids	T	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Rippled sand with trace of gravels and shell hash, distinct tracks. Anthropogenically disturbed?
ASOW-22-NECCT-SP-405	C	NECCT	N	N	Y	Sand dollar (15), Nassariid snail (6), Hermit crab (2), Astarte clam (1), Anemone (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Partially rippled sand with trace of shell and few pebble/granules. Worm tubes or possible tunicate, top of frame, anthropogenically disturbed?
ASOW-22-NECCT-SP-405	D	NECCT	N	N	Y	Sand dollar (~30), Nassariid snail (6), Hermit crab (2), Anemone (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Partially rippled sand with trace of shell hash and few granules. Many sand tubes/possible tunicate with snails foraging. Distinct tracks and trails. Anthropogenically disturbed?
ASOW-22-NECCT-SP-407	A	NECCT	N	Y	Y	Nassariid snail (7)	N	None	Soft Sediment Fauna	Inferred Fauna	Mobile Mollusks on Soft Sediments	Tracks and Trails	Medium sand, few pebble/granules and trace of shell hash. Many tracks, detrital or fecal aggregates.
ASOW-22-NECCT-SP-407	B	NECCT	N	N	Y	Hermit crab (4)	N	None	Soft Sediment Fauna	Inferred Fauna	Mobile Crustaceans on Soft Sediments	Tracks and Trails	Rippled medium sand, some pebble/granules and shell hash. Many tracks and depressions.
ASOW-22-NECCT-SP-407	E	NECCT	N	Y	Y	Hermit crab (4), Diopatra (3)	N	None	Soft Sediment Fauna	Attached Fauna	Larger Tube-Building Fauna	Mobile Mollusks on Hard or Mixed Substrates	Sand with pebble and granules and shell hash. Some tracks. Anthropogenically disturbed?
ASOW-22-NECCT-SP-410	B	NECCT	N	Y	Y	Forams/worms (~25), Nassariid snail (5), Diopatra (1)	N	None	Attached Fauna	Inferred Fauna	Mobile Mollusks on Hard or Mixed Substrates	Tracks and Trails	Coarse sand with gravels aggregated left side of frame, trace of shell hash. Cluster of sand tubes (possible tunicate). Anthropogenically disturbed?
ASOW-22-NECCT-SP-410	C	NECCT	N	N	N	Hermit crab (2)	N	None	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	None	Gravels and shell hash over coarse sands. Anthropogenically disturbed?
ASOW-22-NECCT-SP-410	D	NECCT	N	N	N	Anemone (1)	N	None	Attached Fauna	NA	Attached Anemones	None	Pebble/granules with shell atop coarse sand. One anemone, possible sand tubes/tunicate. Anthropogenically disturbed?
ASOW-22-NECCT-SP-413	B	NECCT	N	Y	N	Diopatra (1), Astarte clam (1), Hermit crab (1)	N	None	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	None	Coarse sand, subtly rippled. Shell and gravel aggregated in center of frame. Anthropogenically disturbed?
ASOW-22-NECCT-SP-413	F	NECCT	N	N	Y	Sand dollar (~25), Hermit crab (3)	N	None	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Hard or Mixed Substrates	Coarse sand, gravel aggregated top of frame. Possible sand tubes or tunicate. Anthropogenically disturbed?
ASOW-22-NECCT-SP-413	J	NECCT	N	N	Y	Sand dollar (13), Hermit crab (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	None	Sand with gravels top of frame, some shell hash. Anthropogenically disturbed?
ASOW-22-NECCT-SP-416	A	NECCT	N	N	Y	Hermit crab (2)	N	None	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	None	Gravels with sand and diverse shell debris. High density of tubes through middle of frame. Anthropogenically disturbed?
ASOW-22-NECCT-SP-416	B	NECCT	N	Y	Y	Diopatra (2), Hermit crab (1)	N	None	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	None	Gravels and shell hash over coarse sand. Small cluster of tubes. Some tracks and diopatra. Anthropogenically disturbed?
ASOW-22-NECCT-SP-416	E	NECCT	N	N	N	Hermit crab (3)	N	None	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	None	Gravel with sand and shell. Many tubes. Anthropogenically disturbed?
ASOW-22-NECCT-SP-426	C	NECCT	N	Y	Y	Sand dollar (~55), Diopatra (2)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Sand with deposited silt, trace of shell and few granules. Moderate amount of sand tubes or possible tunicate. Anthropogenically disturbed?
ASOW-22-NECCT-SP-426	D	NECCT	N	N	Y	Sand dollar (~75)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	None	Partially rippled sands. Silt in rippled trough, shell hash scattered on surface. Some sand tubes or possible tunicate. Anthropogenically disturbed?
ASOW-22-NECCT-SP-426	E	NECCT	N	Y	Y	Sand dollar (~75), Nassariid snail (6), Hermit crab (1), Diopatra (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Rippled coarse sands. Silt, shell and gravel in rippled trough. Few sand tubes/possible tunicate. Anthropogenically disturbed?
ASOW-22-NECCT-SP-432	A	NECCT	N	N	Y	Sand dollar (~30), Nassariid snail (1)	N	None	Soft Sediment Fauna	Inferred Fauna	Sand Dollar Bed	Tracks and Trails	Subtly rippled medium sand, wavelength is indeterminate. Few distinct tracks.
ASOW-22-NECCT-SP-432	C	NECCT	N	N	Y	Sand dollar (~50)	N	None	Soft Sediment Fauna	Inferred Fauna	Sand Dollar Bed	Tracks and Trails	Rippled sand with shell hash and few granules, tracks are present.

Plan View Image Analysis Results, Atlantic Shores Offshore Wind, 2022

							CMECS Substrate Classifications						
Station ID	Replicate	Location	Image Width (cm)[a]	Image Height (cm)[a]	Image FOV (cm^2)[a]	Image FOV (m^2)[a]	Substrate Class	Substrate Subclass	Substrate Group	Substrate Subgroup	Substrate Group Percent	Habitat Type	Ripples Presence and Wavelength (cm)
ASOW-22-NECCT-SP-432	E	NECCT	82	55	4527	0.45	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 95, Shell 5	Sand with shell hash	Y, Ind
ASOW-22-NECCT-SP-441	A	NECCT	84	56	4666	0.47	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 97, Shell 3	Rippled sand with shell hash	Y, Ind
ASOW-22-NECCT-SP-441	B	NECCT	84	56	4673	0.47	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 85, Shell 10, Silt 5	Rippled sand with shell and silt	Y, Ind
ASOW-22-NECCT-SP-441	D	NECCT	92	61	5633	0.56	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 90, Shell 10	Rippled sand with shell	Y, Ind
ASOW-22-NECCT-SP-451	A	NECCT	76	51	3892	0.39	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 99, Shell 1	Sand with trace of shell hash	N
ASOW-22-NECCT-SP-451	B	NECCT	86	57	4878	0.49	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 95, Silt 3, Shell 2	Rippled sand with shell hash	Y, Ind
ASOW-22-NECCT-SP-451	D	NECCT	81	54	4364	0.44	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 90, Silt 5, Shell 5	Rippled sand with silt and shell	Y, Ind
ASOW-22-NECCT-SP-458	A	NECCT	76	51	3891	0.39	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 80, Silt 15, Shell 5, Pebble/Granule <1	Rippled sand with shell hash and silt	Y, Ind
ASOW-22-NECCT-SP-458	B	NECCT	87	58	5047	0.50	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 79, Shell 15, Silt 5, Pebble/Granule 1	Rippled sand with silt and shell	Y, Ind
ASOW-22-NECCT-SP-458	C	NECCT	87	58	5016	0.50	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 83, Shell 10, Silt 5, Pebble/Granule 2	Rippled sand with shell hash and silt	Y, Ind
ASOW-22-NECCT-SP-543	C	NECCT	85	57	4818	0.48	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 99, Shell 1	Rippled sand	Y, 9
ASOW-22-NECCT-SP-543	D	NECCT	81	54	4417	0.44	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 100, Shell <1	Rippled sand	Y, 10
ASOW-22-NECCT-SP-543	E	NECCT	85	56	4761	0.48	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 100, Shell <1	Rippled sand	Y, 19
ASOW-22-NECCT-SP-544	A	NECCT	93	62	5727	0.57	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Mud	Silt 85, Pebble/Granule 14, Shell 1	Silt with gravel	N
ASOW-22-NECCT-SP-544	C	NECCT	81	54	4407	0.44	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Muddy Sandy Gravel	Sand 40, Pebble/Granule 30, Silt 28, Shell 2	Hard bottom substrate with silt and sand	Y, >62
ASOW-22-NECCT-SP-544	E	NECCT	75	50	3708	0.37	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 75, Silt 15, Pebble/Granule 10, Shell <1	Rippled sand with gravel and silt	Y, Ind
ASOW-22-NECCT-SP-545	A	NECCT	83	55	4574	0.46	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Muddy Gravel	Pebble/Granule 70, Silt 20, Shell 10	Hard bottom substrate with silt	N
ASOW-22-NECCT-SP-545	B	NECCT	84	56	4755	0.48	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 100, Shell <1	Rippled sand with shell hash	Y, 20
ASOW-22-NECCT-SP-545	D	NECCT	86	57	4950	0.50	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 99, Shell 1	Rippled sand	Y, 18
ASOW-22-NECCT-SP-546	A	NECCT	81	54	4342	0.43	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 90, Silt 10, Shell 1	Rippled sand with silt	Y, 16
ASOW-22-NECCT-SP-546	D	NECCT	86	57	4953	0.50	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 95, Silt 5	Rippled sands with silt	Y, 17
ASOW-22-NECCT-SP-546	E	NECCT	72	48	3463	0.35	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 98, Shell 2	Rippled sand with shell hash	Y, 13
ASOW-22-NECCT-SP-547	B	NECCT	82	54	4448	0.44	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 99, Shell 1	Rippled sand with trace of shell	Y, 12
ASOW-22-NECCT-SP-547	C	NECCT	86	57	4895	0.49	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 99, Shell 1	Rippled sand	Y, 15
ASOW-22-NECCT-SP-547	D	NECCT	84	56	4670	0.47	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 98, Silt 2, Shell <1	Rippled sand	Y, 20
ASOW-22-NECCT-SP-548	A	NECCT	84	56	4667	0.47	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Pebble/Granule 60, Sand 37, Shell 3	Gravel with sand and shell	N
ASOW-22-NECCT-SP-548	B	NECCT	84	56	4654	0.47	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Pebble/Granule 60, Sand 38, Shell 2	Hard bottom substrate with sand	N
ASOW-22-NECCT-SP-548	C	NECCT	84	56	4684	0.47	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 64, Pebble/Granule 35, Shell 1	Hard bottom substrate with sand	N
ASOW-22-NECCT-SP-550	B	NECCT	87	58	4990	0.50	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 90, Pebble/Granule 5, Shell 5	Sand with gravel and shell	N
ASOW-22-NECCT-SP-550	C	NECCT	85	57	4858	0.49	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 95, Shell 4, Pebble/Granule 1	Rippled sand with shell	Y, Ind
ASOW-22-NECCT-SP-550	D	NECCT	88	58	5125	0.51	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 93, Pebble/Granule 5, Shell 2	Sand with gravel and shell	N
ASOW-22-NECCT-SP-551	A	NECCT	82	55	4480	0.45	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 98, Shell 2	Rippled sand with shell hash	Y, 16
ASOW-22-NECCT-SP-551	B	NECCT	84	56	4732	0.47	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 98, Shell 2	Rippled sand with shell hash	Y, 19

Plan View Image Analysis Results, Atlantic Shores Offshore Wind, 2022

								CMECS Biotic Classifications				
Station ID	Replicate	Location	Burrows	Tubes	Tracks	Epifauna, Infauna & Fish Types and Counts	Macroalgae Presence[b]	Eel Grass Types[c] and Counts	Biotic Subclass	Co-occurring Biotic Subclass	Biotic Group	Co-occurring Biotic Group	Comments
ASOW-22-NECCT-SP-432	E	NECCT	N	N	Y	Sand dollar (~30), Nassariid snail (5), Diopatra (2), Hermit crab (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Possibly rippled medium sand with shell hash, some tracks. Anthropogenically disturbed?
ASOW-22-NECCT-SP-441	A	NECCT	N	N	Y	Sand dollar (~65), Nassariid snail (4), Hermit crab (1), Astarte clam (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Rippled sand with shell hash. Sand clast scattered throughout frame.
ASOW-22-NECCT-SP-441	B	NECCT	N	N	Y	Sand dollar (~35), Hermit crab (3), Nassariid snail (2), Astarte clam (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Rippled coarse sands with shell hash and deposited silt. Many tracks and some sand clasts.
ASOW-22-NECCT-SP-441	D	NECCT	N	N	Y	Sand dollar (~40), Nassariid snail (~10), Hermit crab (3), Astarte clam (3), Moon snail (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Subtly rippled sand with shell hash. High concentration of sand clasts. Anthropogenically disturbed?
ASOW-22-NECCT-SP-451	A	NECCT	N	N	N	Sand dollar (~25), Hermit crab (3), Astarte clam (1), Nassariid snail (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Coarse sands with trace of shell. Some sand clasts or possible tunicate.
ASOW-22-NECCT-SP-451	B	NECCT	N	N	Y	Sand dollar (100+)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	None	Rippled medium to coarse sand with shell hash. Ripples are variable, trace of silt in troughs. Sand clasts.
ASOW-22-NECCT-SP-451	D	NECCT	N	N	Y	Sand dollar (100+), Nassariid snail (3), Astarte clam (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Rippled sand with some deposited silt and shell hash in trough. Many sand clasts on surface.
ASOW-22-NECCT-SP-458	A	NECCT	N	N	Y	Sand dollar (100+)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	None	Partially rippled coarse sand, shell hash and deposited silt in ripple trough. Anthropogenically disturbed?
ASOW-22-NECCT-SP-458	B	NECCT	N	N	N	Sand dollar (100+), Nassariid snail (3), Astarte clam (2)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	None	Rippled sand, shell and silt in ripple trough, sand clasts. Anthropogenically disturbed?
ASOW-22-NECCT-SP-458	C	NECCT	N	N	N	Sand dollar (~60), Nassariid snail (1), Hermit crab (1), Astarte clam (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Variably rippled coarse sand. Shell hash and deposited silt in ripple trough, sand clasts. Anthropogenically disturbed?
ASOW-22-NECCT-SP-543	C	NECCT	Ind	Ind	Ind	Anemone (2)	Ind	Ind	Soft Sediment Fauna	NA	Burrowing Anemones	None	Well-defined rippled sand, trace of shell hash. Highly turbid environment.
ASOW-22-NECCT-SP-543	D	NECCT	N	Y	Y	Diopatra (3), Anemone (1)	N	None	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Burrowing Anemones	Well-defined rippled sand, highly turbid.
ASOW-22-NECCT-SP-543	E	NECCT	N	N	Y	Anemone (1), Nassariid snail (1)	N	None	Soft Sediment Fauna	NA	Burrowing Anemones	Mobile Mollusks on Soft Sediments	Well-defined rippled sand.
ASOW-22-NECCT-SP-544	A	NECCT	N	N	N	Anemone (5), Hermit crab (2)	N	None	Soft Sediment Fauna	Attached Fauna	Burrowing Anemones	Mobile Mollusks on Hard or Mixed Substrates	Gravels over silt, some shell hash.
ASOW-22-NECCT-SP-544	C	NECCT	N	N	N	Anemone (3), Hermit crab (2)	N	NA	Soft Sediment Fauna	Attached Fauna	Burrowing Anemones	Mobile Crustaceans on Soft Sediments	Mixed substrate of gravel, sand and silt. Large ripple crest in frame, gravels aggregated in trough.
ASOW-22-NECCT-SP-544	E	NECCT	N	N	N	Anemone (2), Nassariid snail (1)	N	None	Soft Sediment Fauna	Attached Fauna	Burrowing Anemones	Mobile Mollusks on Hard or Mixed Substrates	Rippled sand with overlying silt and gravel, trace of shell.
ASOW-22-NECCT-SP-545	A	NECCT	N	N	N	Anemone (1)	N	None	Soft Sediment Fauna	NA	Burrowing Anemones	None	High concentration of pebble/granules with some shell over silt. Cobble/Boulders with attached barnacles in PV rep C.
ASOW-22-NECCT-SP-545	B	NECCT	N	N	N	None	N	None	None	NA	None	None	Well-defined rippled sand.
ASOW-22-NECCT-SP-545	D	NECCT	N	Y	Y	None	N	None	Inferred Fauna	NA	Tracks and Trails	None	Rippled sand with scattered shell hash.
ASOW-22-NECCT-SP-546	A	NECCT	N	Y	Y	Diopatra (5), Moon snail (1)	N	None	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Mobile Mollusks on Soft Sediments	Rippled medium sand with silt in ripple troughs.
ASOW-22-NECCT-SP-546	D	NECCT	N	Y	Y	Diopatra (3)	N	None	Soft Sediment Fauna	Inferred Fauna	Larger Tube-Building Fauna	Tracks and Trails	Rippled sand with trace of shell hash. Silt in ripple trough, ripples are disturbed. Some tracks and depressions.
ASOW-22-NECCT-SP-546	E	NECCT	N	Y	Y	Diopatra (2)	N	None	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	None	Rippled sand with shell hash. Trace of silt in troughs.
ASOW-22-NECCT-SP-547	B	NECCT	Y	Y	Y	Diopatra (3), Sand dollar (3), Nassariid snail (3)	N	None	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Sand Dollar Bed	Rippled sands, trace of shell. One recently excavated burrow, many tracks.
ASOW-22-NECCT-SP-547	C	NECCT	Y	Y	Y	Diopatra (6), Sand dollar (3), Nassariid snail (3), Hermit crab (1)	N	None	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Sand Dollar Bed	Rippled sand with shell hash, many burrows.
ASOW-22-NECCT-SP-547	D	NECCT	Y	Y	Y	Sand dollar (4), Hermit crab (2), Snail (1)			Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Rippled sand, many tracks, a few burrows.
ASOW-22-NECCT-SP-548	A	NECCT	N	N	N	Hermit crab (2)	N	None	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	None	Gravels ranging in size, shell and coarse sands.
ASOW-22-NECCT-SP-548	B	NECCT	N	N	N	Hermit crab (1)	N	None	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	None	Gravel over coarse sands, trace of shell.
ASOW-22-NECCT-SP-548	C	NECCT	N	N	N	Sea star (1), Anemone (1)	N	None	Attached Fauna	Soft Sediment Fauna	Attached Starfish	Burrowing Anemones	Gravel and shell over coarse sand. Sea star top right of frame.
ASOW-22-NECCT-SP-550	B	NECCT	N	Y	Y	Hermit crab (5), Nassariid snail (2), Anemone (1)	N	None	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Burrowing Anemones	Mixed gravels over sand, some shell hash. Many sand tubes or possible tunicate.
ASOW-22-NECCT-SP-550	C	NECCT	N	Y	Y	Diopatra (2), Nassariid snail (1), Astarte clam (1)	N	None	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Mobile Mollusks on Soft Sediments	Rippled medium sand with shell hash. Ripples are subtle and variable, wavelength is indeterminate.
ASOW-22-NECCT-SP-550	D	NECCT	N	N	N	Hermit crab (2), Sea urchin (1), Moon snail (1)	N	None	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	Attached Sea Urchins	Sand with gravel and shell. Many sand tubes/possible tunicate and some fecal casts. Moon snail is a co-occurring element.
ASOW-22-NECCT-SP-551	A	NECCT	N	Y	Y	Sand dollar (10), Hermit crab (6), Nassariid snail (6), Diopatra (3), Skate egg case (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Rippled sand with shell hash.
ASOW-22-NECCT-SP-551	B	NECCT	N	N	Y	Nassariid snail (8), Sand dollar (7), Hermit crab (2)	N	None	Soft Sediment Fauna	NA	Mobile Mollusks on Soft Sediments	Sand Dollar Bed	Rippled sand, trace of shell hash. Hermit crab preying upon decayed skate egg case. Many tracks.

Plan View Image Analysis Results, Atlantic Shores Offshore Wind, 2022

							CMECS Substrate Classifications						
Station ID	Replicate	Location	Image Width (cm)[a]	Image Height (cm)[a]	Image FOV (cm^2)[a]	Image FOV (m^2)[a]	Substrate Class	Substrate Subclass	Substrate Group	Substrate Subgroup	Substrate Group Percent	Habitat Type	Ripples Presence and Wavelength (cm)
ASOW-22-NECCT-SP-551	C	NECCT	89	59	5248	0.52	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 99, Shell 1	Rippled sand, trace of shell	Y, 23
ASOW-22-NECCT-SP-553	A	NECCT	85	57	4855	0.49	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 99, Shell 1, Pebble/Granule <1	Rippled sand	Y, 45
ASOW-22-NECCT-SP-553	C	NECCT	90	60	5442	0.54	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 85, Pebble/Granule 10, Shell 5	Rippled sand with gravel and shell	Y, Ind
ASOW-22-NECCT-SP-553	E	NECCT	85	56	4777	0.48	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 98, Shell 2	Rippled sand with shell hash	Y, 12
ASOW-22-NECCT-SP-555	A	NECCT	82	55	4529	0.45	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Pebble/Granule 50, Sand 45, Shell 5	Hard bottom substrate with sand and shell	N
ASOW-22-NECCT-SP-555	B	NECCT	80	54	4318	0.43	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Pebble/Granule 70, Sand 25, Shell 5	Hard bottom substrate with sand and shell	N
ASOW-22-NECCT-SP-555	C	NECCT	87	58	5041	0.50	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Pebble/Granule 60, Sand 35, Shell 5	Hard bottom substrate with sand and shell	N
ASOW-22-NECCT-SP-560	B	NECCT	89	59	5289	0.53	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 96, Shell 3, Pebble/Granule 1	Rippled sand with shell	Y, Ind
ASOW-22-NECCT-SP-560	C	NECCT	82	55	4520	0.45	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 99, Shell 1	Rippled sand with shell	Y, Ind
ASOW-22-NECCT-SP-560	D	NECCT	90	60	5365	0.54	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 95, Shell 5	Rippled sand with shell	Y, Ind
ASOW-22-NECCT-SP-562	A	NECCT	83	55	4607	0.46	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 55, Pebble/Granule 40, Shell 5	Hard bottom substrate with sand and shell	N
ASOW-22-NECCT-SP-562	B	NECCT	86	58	4961	0.50	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Pebble/Granule 50, Sand 45, Shell 5	Hard bottom substrate with sand and shell	N
ASOW-22-NECCT-SP-562	C	NECCT	81	54	4399	0.44	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 75, Pebble/Granule 20, Shell 5	Sand with gravel and shell	N
ASOW-22-NECCT-SP-568	A	NECCT	89	59	5287	0.53	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 95, Pebble/Granule 3, Shell 2	Sand with gravel and shell	N
ASOW-22-NECCT-SP-568	B	NECCT	84	56	4695	0.47	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 67, Pebble/Granule 30, Shell 3	Hard bottom substrate with sand and shell	N
ASOW-22-NECCT-SP-568	D	NECCT	81	54	4410	0.44	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Pebble/Granule 60, Sand 30, Shell 10	Hard bottom substrate with sand and shell	N
ASOW-22-NECCT-SP-572	B	NECCT	86	57	4950	0.50	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 85, Pebble/Granule 10, Shell 5	Sand with gravel and shell	N
ASOW-22-NECCT-SP-572	C	NECCT	90	60	5354	0.54	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 70, Pebble/Granule 25, Shell 5	Sand with gravel and shell	N
ASOW-22-NECCT-SP-572	D	NECCT	83	55	4607	0.46	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Pebble/Granule 60, Sand 30, Shell 10	Hard bottom substrate with sand and shell	N
ASOW-22-NECCT-SP-573	A	NECCT	81	54	4388	0.44	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 87, Shell 8, Silt 5	Sand with shell hash and silt	N
ASOW-22-NECCT-SP-573	B	NECCT	85	57	4806	0.48	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 90, Shell 8, Silt 2	Rippled sand with shell hash	Y, 17
ASOW-22-NECCT-SP-573	D	NECCT	78	52	4069	0.41	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 92, Silt 5, Shell 3	Rippled sand with silt and shell	Y, Ind
ASOW-22-NECCT-SP-574	B	NECCT	90	60	5407	0.54	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 97, Shell 3	Rippled sand with shell hash	Y, Ind
ASOW-22-NECCT-SP-574	C	NECCT	89	59	5289	0.53	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 97, Shell 3	Rippled sand with shell hash	Y, Ind
ASOW-22-NECCT-SP-574	D	NECCT	86	57	4930	0.49	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 97, Shell 3	Rippled sand with shell	Y, 14
ASOW-22-NECCT-SP-575	A	NECCT	84	56	4757	0.48	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand	Rippled sand with shell	Y, Ind
ASOW-22-NECCT-SP-575	B	NECCT	81	54	4330	0.43	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 95, Shell 4, Pebble/Granule 1	Rippled sand with shell hash	Y, Ind
ASOW-22-NECCT-SP-575	C	NECCT	90	60	5436	0.54	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 95, Shell 4, Pebble/Granule 1	Rippled sand with shell hash	Y, Ind
ASOW-22-NECCT-SP-576	A	NECCT	82	55	4493	0.45	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 85, Shell 10, Silt 5	Rippled sand with silt and shell hash	Y, Ind
ASOW-22-NECCT-SP-576	B	NECCT	81	54	4351	0.44	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 94, Silt 3, Shell 3	Rippled sand with shell hash	Y, Ind
ASOW-22-NECCT-SP-576	D	NECCT	78	52	4072	0.41	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 96, Shell 3, Pebble/Granule 1	Rippled sand with shell	Y, Ind

Plan View Image Analysis Results, Atlantic Shores Offshore Wind, 2022

								CMECS Biotic Classifications				
Station ID	Replicate	Location	Burrows	Tubes	Tracks	Epifauna, Infauna & Fish Types and Counts	Macroalgae Presence[b]	Eel Grass Types[c] and Counts	Biotic Subclass	Co-occurring Biotic Subclass	Biotic Group	Co-occurring Biotic Group	Comments
ASOW-22-NECCT-SP-551	C	NECCT	N	Y	Y	Sand dollar (9), Hermit crab (7), Nassariid snail (4), Diopatra (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Rippled sand with shell hash, many tracks.
ASOW-22-NECCT-SP-553	A	NECCT	N	Y	Y	Sand dollar (~55), Hermit crab (4), Diopatra (2), Nassariid snail (2)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Rippled sand, trace of shell hash and gravel. Some tracks and depressions.
ASOW-22-NECCT-SP-553	C	NECCT	N	N	N	Sand dollar (100+), Hermit crab (3), Nassariid snail (3)	N	None	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Hard or Mixed Substrates	Rippled sand with granules and shell in ripple trough, ripple crests not visible in frame. Many sand dollars and a moon snail egg casing. Anthropogenically disturbed?
ASOW-22-NECCT-SP-553	E	NECCT	N	Y	Y	Sand dollar (100+), Nassariid snail (9), Hermit crab (2), Diopatra (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Rippled sand with shell hash. Many sand dollars.
ASOW-22-NECCT-SP-555	A	NECCT	N	N	N	Hermit crabs (2), Polychaete (1)	N	None	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	None	Gravels and sand with shell.
ASOW-22-NECCT-SP-555	B	NECCT	N	N	N	Hermit crab (1), Sea robin (1)	T	None	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	None	Gravel mixes with diverse shell debris over sand.
ASOW-22-NECCT-SP-555	C	NECCT	Y	N	N	Nassariid snail (5), Sand dollar (1)	T	None	Attached Fauna	NA	Mobile Mollusks on Hard or Mixed Substrates	None	Range of gravels and shell debris over sand. Recently excavated burrow, few sand tubes/possible tunicate.
ASOW-22-NECCT-SP-560	B	NECCT	N	N	Y	Sand dollar (~75), Nassariid snail (8), Hermit crab (2)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Rippled sand with shell hash and trace of granules. Many sand dollars.
ASOW-22-NECCT-SP-560	C	NECCT	N	Y	Y	Sand dollar (~65), Nassariid snail (8), Diopatra (1)	N	NA	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Rippled sand with shell hash, few tracks and depressions.
ASOW-22-NECCT-SP-560	D	NECCT	N	N	N	Sand dollar (~60), Nassariid snail (4), Hermit crab (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Rippled sand, shell hash in ripple trough. Anthropogenically disturbed?
ASOW-22-NECCT-SP-562	A	NECCT	N	N	N	Nassariid snail (12), Hermit crab (5), Diopatra (1)	N	None	Attached Fauna	Soft Sediment Fauna	Mobile Mollusks on Hard or Mixed Substrates	Larger Tube-Building Fauna	Pebble/granules and shell hash over sand. Many sand tubes.
ASOW-22-NECCT-SP-562	B	NECCT	N	Y	Y	Nassariid snail (6), Diopatra (5), Hermit crab (4),	N	None	Attached Fauna	Soft Sediment Fauna	Mobile Mollusks on Hard or Mixed Substrates	Larger Tube-Building Fauna	Pebble/granules and shell over sand. Scallop shell.
ASOW-22-NECCT-SP-562	C	NECCT	N	N	N	Nassariid snail (~15), Hermit crab (1)	N	None	Attached Fauna	NA	Mobile Mollusks on Hard or Mixed Substrates	Mobile Crustaceans on Hard or Mixed Substrates	Sand tubes present throughout.
ASOW-22-NECCT-SP-568	A	NECCT	N	Y	N	Diopatra (10), Nassariid snail (9) Sand dollar (4), Nudibranch (2)	N	None	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Mobile Mollusks on Soft Sediments	Sand with trace of gravels and shell hash. Sand tubes present.
ASOW-22-NECCT-SP-568	B	NECCT	N	Y	N	Hermit crab (3), Diopatra (2), Nassariid snail (1)	N	None	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Medium sand with gravels and shell debris. Sand tubes present.
ASOW-22-NECCT-SP-568	D	NECCT	N	Y	N	Hermit crab (~10), Hydroids, Diopatra (3), Nassariid snail (~3)	N	None	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Gravels and shell over sand, few sand tubes/possible tunicate. Possible hydroids attached to shell.
ASOW-22-NECCT-SP-572	B	NECCT	N	Y	N	Hermit crab (6), Nassariid snail (3), Diopatra (3)	N	None	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Gravel and shell over sand, possible sand tubes/tunicate.
ASOW-22-NECCT-SP-572	C	NECCT	N	Y	N	Hermit crab (~3), Nassariid snail (~3), Diopatra (1)	N	None	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Sand with gravels and shell overlying. Sand tubes/possible tunicate present in clusters throughout image.
ASOW-22-NECCT-SP-572	D	NECCT	N	N	N	Hermit crab (8), Nassariid snail (2), Diopatra (1)	N	None	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Many foraging hermit crabs and snails.
ASOW-22-NECCT-SP-573	A	NECCT	N	N	Y	Sand dollar (~40), Hermit crab (2), Nassariid snail (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Variably rippled coarse sand with shell hash. Some sand clasts. Anthropogenically disturbed?
ASOW-22-NECCT-SP-573	B	NECCT	N	N	Y	Sand dollar (~50), Nassariid snail (2)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Rippled sand with shell hash. Moderate amount of sand dollars.
ASOW-22-NECCT-SP-573	D	NECCT	N	N	Y	Sand dollar (~50), Hermit crab (3), Nassariid snail (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Subtly rippled coarse sand with some deposited silt and detritus, trace shell hash. Moderate amount of sand dollars.
ASOW-22-NECCT-SP-574	B	NECCT	N	Y	Y	Sand dollar (~100), Nassariid snail (~5), Diopatra (1), Hermit crab (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Rippled sand with shell hash. Many sand dollars and tracks.
ASOW-22-NECCT-SP-574	C	NECCT	N	Y	Y	Sand dollar (~70), Nassariid snail (4), Diopatra (1), Hermit crab (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Rippled sands with some shell hash and an abundance of sand dollars and tracks. Unidentifiable debris, possible stick left of frame near diopatra.
ASOW-22-NECCT-SP-574	D	NECCT	N	N	Y	Sand dollar (75+), Nassariid snail (~5)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Partially rippled fine sand with shell hash. Many sand dollars, one decayed. Possible relic burrow top left of frame, large depression.
ASOW-22-NECCT-SP-575	A	NECCT	N	Y	Y	Sand dollar (55), Diopatra (3), Hermit crab (3), Anemone (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Gently rippled sand with shell hash and few granules. Many sand dollars, few large diopatra. Tracks are evident.
ASOW-22-NECCT-SP-575	B	NECCT	N	Y	Y	Sand dollar (~90), Hermit crab (3), Nassariid snail (2), Diopatra (2)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Rippled sand with shell hash, very coarse sands to granules in troughs. Many sand dollars.
ASOW-22-NECCT-SP-575	C	NECCT	N	N	Y	Sand dollar (~70), Nassariid snail (2), Astarte clam (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Rippled sand, ripples are irregular. Shell hash, few fine granules in ripple trough.
ASOW-22-NECCT-SP-576	A	NECCT	N	N	Y	Sand dollar (100+), Astarte clam (1)	N	None	Soft Sediment Fauna	Inferred Fauna	Sand Dollar Bed	Tracks and Trails	Rippled coarse sand, few granules. Wave length is variable, few wide ripple crests. Sand tubes and tracks. Anthropogenically disturbed?
ASOW-22-NECCT-SP-576	B	NECCT	N	N	Y	Sand dollar (~65), Astarte clam (2)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Clam Bed	Rippled coarse sand, shell hash and silt in trough. Sand tubes. Anthropogenically disturbed?
ASOW-22-NECCT-SP-576	D	NECCT	N	N	N	Sand dollar (~100)	N	None	Soft Sediment Fauna	Na	Sand Dollar Bed	None	Rippled sand with shell hash and few granules. Aggregated silt or detritus, many sand dollars. Some sand tubes. Anthropogenically disturbed?

Plan View Image Analysis Results, Atlantic Shores Offshore Wind, 2022

							CMECS Substrate Classifications						
Station ID	Replicate	Location	Image Width (cm)[a]	Image Height (cm)[a]	Image FOV (cm^2)[a]	Image FOV (m^2)[a]	Substrate Class	Substrate Subclass	Substrate Group	Substrate Subgroup	Substrate Group Percent	Habitat Type	Ripples Presence and Wavelength (cm)
ASOW-22-NECCT-SP-577	A	NECCT	86	57	4936	0.49	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 94, Silt 5 Shell 1, Pebble/Granule <1	Rippled sand with shell	Y, Ind
ASOW-22-NECCT-SP-577	C	NECCT	81	54	4376	0.44	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 90, Silt 5, Shell 4, Pebble/Granule 1	Rippled sand with shell hash and silt	Y, Ind
ASOW-22-NECCT-SP-577	D	NECCT	80	53	4266	0.43	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 95, Shell 3, Silt 2, Pebble/Granule <1	Rippled sand with shell hash	Y, Ind
ASOW-22-NECCT-SP-578	B	NECCT	81	54	4355	0.44	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 97, Shell 3	Rippled sand with shell	Y, Ind
ASOW-22-NECCT-SP-578	C	NECCT	78	52	4036	0.40	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 95, Silt 3, Shell 2	Rippled sand with silt and shell	N
ASOW-22-NECCT-SP-578	D	NECCT	85	57	4865	0.49	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 92, Shell 4, Sand 3, Pebble/Granule 1	Rippled sand with shell hash	Y, 10
ASOW-22-NECCT-SP-579	B	NECCT	86	58	4988	0.50	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 89, Shell 7, Pebble/Granule 3, Silt 1	Rippled sand with shell and gravel	Y, 6
ASOW-22-NECCT-SP-579	D	NECCT	84	56	4706	0.47	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 95, Shell 3, Pebble/Granule 2	Rippled sand with shell and gravel	Y, Ind
ASOW-22-NECCT-SP-579	E	NECCT	82	55	4480	0.45	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 97, Pebble/Granule 2, Shell 1	Rippled sand with trace of gravel and shell	Y, 6
ASOW-22-NECCT-SP-580	A	NECCT	78	52	4103	0.41	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 97, Shell 5, Silt 3	Rippled sand with silt and shell	Y, Ind
ASOW-22-NECCT-SP-580	C	NECCT	85	57	4859	0.49	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 92, Shell 5, Silt 3	Rippled sand with silt and shell hash	Y, Ind
ASOW-22-NECCT-SP-580	D	NECCT	80	54	4296	0.43	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 94, Silt 3, Shell 3	Rippled sand with silt and shell	Y, Ind
ASOW-22-NECCT-SP-581	B	NECCT	85	57	4806	0.48	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 95, Shell 4, Pebble/Granule 1	Rippled sand with shell	Y, 5
ASOW-22-NECCT-SP-581	C	NECCT	85	57	4852	0.49	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 95, Shell 4, Pebble/Granule 1	Rippled sand with shell	Y, 5
ASOW-22-NECCT-SP-581	E	NECCT	89	59	5235	0.52	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 90, Shell 5, Pebble/Granule 5	Rippled sand with gravel and shell	Y, Ind
ASOW-22-NECCT-SP-582	C	NECCT	88	59	5164	0.52	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 95, Shell 4, Pebble/Granule 1	Sand with shell	N
ASOW-22-NECCT-SP-582	D	NECCT	88	58	5108	0.51	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 96, Shell 4	Sand with shell hash	N
ASOW-22-NECCT-SP-582	E	NECCT	78	52	4104	0.41	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 82, Shell 15, Pebble/Granule 3	Sand with shell and gravel	N
ASOW-22-NECCT-SP-583	A	NECCT	89	59	5246	0.52	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 67, Pebble/Granule 30, Shell 3	Sand with gravel and shell	N
ASOW-22-NECCT-SP-583	B	NECCT	85	57	4871	0.49	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 55, Pebble/Granule 45, , Shell 5	Hard bottom substrate with sand and shell	N
ASOW-22-NECCT-SP-583	C	NECCT	82	54	4432	0.44	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Pebble/Granule 50 Sand 45, Shell 5	Hard bottom substrate with sand and shell	N
ASOW-22-NECCT-SP-584	A	NECCT	86	58	4975	0.50	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Pebble/Granule 60, Sand 25, Shell 15	Hard bottom sand with shell and gravel	N
ASOW-22-NECCT-SP-584	B	NECCT	81	54	4426	0.44	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 73, Pebble/Granule 20 Shell 7	Sand with gravel and shell	N
ASOW-22-NECCT-SP-584	C	NECCT	85	57	4864	0.49	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 65, Pebble/Granule 25, Shell 10	Sand with gravel and shell	N
ASOW-22-NECCT-SP-586	A	NECCT	81	54	4409	0.44	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Pebble/Granule 65, Sand 32, Shell 3	Hard bottom substrate with sand and shell	N
ASOW-22-NECCT-SP-586	B	NECCT	86	57	4915	0.49	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 67, Pebble/Granule 30, Shell 3	Sand with gravel and shell	N
ASOW-22-NECCT-SP-586	E	NECCT	83	55	4552	0.46	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Pebble/Granule 60, Sand 38, Shell 2	Hard bottom substrate with sand and shell	N
ASOW-22-NECCT-SP-588	C	NECCT	80	53	4275	0.43	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Pebble/Granule 75, Sand 22, Shell 3	Hard bottom substrate with sand and shell	N

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								CMECS Biotic Classifications				
Station ID	Replicate	Location	Burrows	Tubes	Tracks	Epifauna, Infauna & Fish Types and Counts	Macroalgae Presence[b]	Eel Grass Types[c] and Counts	Biotic Subclass	Co-occurring Biotic Subclass	Biotic Group	Co-occurring Biotic Group	Comments
ASOW-22-NECCT-SP-577	A	NECCT	N	N	Y	Sand dollar (100+), Astarte clam (2), Nassariid snail (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	None	Subtly rippled sand with deposited silt and shell hash, few granules. Many sand dollars and some sand tubes.
ASOW-22-NECCT-SP-577	C	NECCT	N	Y	N	Sand dollar (~75), Astarte clam (4), Diopatra (2)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Clam Bed	Faintly rippled coarse sand. Some shell hash and silt, few pebble/granules. Many sand clasts. Anthropogenically disturbed?
ASOW-22-NECCT-SP-577	D	NECCT	N	N	Y	Sand dollar (~50), Astarte clam (1), Hermit crab (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	None	Rippled sand, trace of silt and shell hash, few granules. Moderate amount of sand dollars, few tracks. Anthropogenically disturbed?
ASOW-22-NECCT-SP-578	B	NECCT	N	Y	Y	Sand dollar (~35), Astarte clam (2)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Clam Bed	Rippled sand with shell hash, large clam shell. Sand dollars and tracks. Few sand tubes and sand clasts.
ASOW-22-NECCT-SP-578	C	NECCT	N	N	Y	Sand dollar (~40), Anemone (1), Nassariid snail (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Burrowing Anemones	Subtly rippled coarse sands. Trace of shell hash and moderate amount of sand clasts, few sand tubes. Partially buried anemone.
ASOW-22-NECCT-SP-578	D	NECCT	N	Y	Y	Sand dollar (~60), Astarte clam (2)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Clam Bed	Rippled sands with overlying silt and shell hash. Ripples are inconsistent and possible weathered. One pebble, few granules. Some sand clasts and sand tubes.
ASOW-22-NECCT-SP-579	B	NECCT	N	Y	Y	Sand dollar (27), Hermit crab (4), Astarte clam (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Rippled sand with shell hash and rubble. Granules in ripple troughs. Some sand tubes and clasts.
ASOW-22-NECCT-SP-579	D	NECCT	N	N	Y	Sand dollar (~65), Astarte clam (5), Nassariid snail (2)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Clam Bed	Partially rippled sand, shell hash and granules in troughs. Many sand dollars, some sand clasts.
ASOW-22-NECCT-SP-579	E	NECCT	N	Y	Y	Sand dollar (~40), Diopatra (1), Astarte clam (1), Anemone (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Rippled sand with trace of gravel, most granules and shell. Many tracks
ASOW-22-NECCT-SP-580	A	NECCT	N	Y	Y	Sand dollar (~35), Diopatra (2), Hermit crab (2), Nassariid snail (1), Astarte clam (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Rippled sand, silt and shell hash in trough. Many clasts, few tracks.
ASOW-22-NECCT-SP-580	C	NECCT	N	Y	Y	Sand dollar (~50), Hermit crab (4), Astarte clam (2), Diopatra (1), Juvenile crab (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Rippled sand, silt and shell hash in trough, ripples are variable. Sand tubes and sand clasts present, many sand dollars.
ASOW-22-NECCT-SP-580	D	NECCT	N	Y	Y	Sand dollar (~40), Nassariid snail (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Rippled sand with silt and shell hash overlying. Wood debris bottom right of frame, few tracks. Some sands clasts.
ASOW-22-NECCT-SP-581	B	NECCT	N	Y	Y	Sand dollar (~70), Nassariid snail (2)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Rippled sand with shell hash, few fine pebbles/granules. Sand tubes, few tracks.
ASOW-22-NECCT-SP-581	C	NECCT	N	Y	Y	Sand dollar (45), Diopatra (1), Astarte clam (1), Nassariid snail (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Gently rippled sand with shell hash, detritus and some pebble/granules. Large clam shell, few tracks. Sand clasts.
ASOW-22-NECCT-SP-581	E	NECCT	N	Y	Y	Sand dollar (~60), Diopatra (4) Astarte clam (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Rippled sand, shell hash and mobile gravels aggregated in troughs. Ripples are variable. Veneer of detritus, few sand tubes.
ASOW-22-NECCT-SP-582	C	NECCT	N	N	N	Hermit crab (5), Nassariid snail (4)	N	None	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	Mobile Mollusks on Soft Sediments	Fine sand with diverse shell hash and trace of gravel. High density of sand tubes.
ASOW-22-NECCT-SP-582	D	NECCT	N	Y	Y	Sand dollar (30), Nassariid snail (~5), Diopatra (1), Hermit crab (1), Skate egg case (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand with overlying shell hash, many tracks. Cluster of sand tubes.
ASOW-22-NECCT-SP-582	E	NECCT	N	Y	N	Hermit crab (7)	N	None	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	None	Sand with diverse shell debris and gravels. Moderate amount of sand tubes, few dead sand dollars.
ASOW-22-NECCT-SP-583	A	NECCT	N	Y	Y	Hermit crab (4), Diopatra (4)	N	None	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Pebbles and granules with shell hash over sand. Sand Tubes.
ASOW-22-NECCT-SP-583	B	NECCT	N	Y	N	Hermit crab (4)	N	None	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	None	Mix of gravels ranging in size and shell hash over sand. Many sand tubes.
ASOW-22-NECCT-SP-583	C	NECCT	N	Y	Y	Hermit crab (2), Diopatra (1), Anemone (1)	N	None	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Gravel, mostly pebbles and shell debris over sand. Sand tubes.
ASOW-22-NECCT-SP-584	A	NECCT	N	Y	Y	Hermit crab (4), Nassariid snail (2), Diopatra (1)	N	None	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Gravels ranging in size, mostly pebbles with shell hash and rubble over sand. Trace of fecal casts.
ASOW-22-NECCT-SP-584	B	NECCT	N	Y	Y	Hermit crab (~5),	N	None	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	None	Sand with pebbles, granules and shell debris overlying. Few groups of sand tubes/possible tunicate evident in sands. Piece of plastic debris.
ASOW-22-NECCT-SP-584	C	NECCT	N	Y	N	Hermit crab (~10), Diopatra (2), Sea urchin (1), Nassariid snail (1), Hydroids	N	None	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Fine pebbles and granules with shell hash over sand. Possible sand tubes or tunicate. Sea urchin attached to clam shell left side of frame.
ASOW-22-NECCT-SP-586	A	NECCT	N	Y	N	Diopatra (3), Hermit crabs (4), Anemone	N	None	Soft Sediment Fauna	Attached Fauna	Larger Tube-Building Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Sand with high coverage of gravel and some shell hash. Possible sand tubes or tunicate in sand portions of image.
ASOW-22-NECCT-SP-586	B	NECCT	N	Y	N	Hermit crab (~5), Sand dollar (3), Anemone (1)	N	None	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Sand Dollar Bed	Sand with gravels aggregated through center of frame and diverse shell debris and hash. Possible sand tubes/tunicate in sand. Possible anthropogenically created trough.
ASOW-22-NECCT-SP-586	E	NECCT	N	Y	Y	Anemone (1)	N	None	Attached Fauna	NA	Attached Anemones	None	Gravels and shell hash over coarse sand. Granules through center of frame with pebbles on edges. Few possible sand tubes or tunicate in sands.
ASOW-22-NECCT-SP-588	C	NECCT	N	N	N	Hermit crab (5), Sand dollar (1)	N	None	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Sand Dollar Bed	Sand with high coverage of pebbles and granules, some shell hash.

Plan View Image Analysis Results, Atlantic Shores Offshore Wind, 2022

							CMECS Substrate Classifications						
Station ID	Replicate	Location	Image Width (cm)[a]	Image Height (cm)[a]	Image FOV (cm^2)[a]	Image FOV (m^2)[a]	Substrate Class	Substrate Subclass	Substrate Group	Substrate Subgroup	Substrate Group Percent	Habitat Type	Ripples Presence and Wavelength (cm)
ASOW-22-NECCT-SP-588	D	NECCT	82	55	4475	0.45	Unconsolidated Mineral	Coarse Unconsolidated	Gravels	Pebble/Granule	Pebble/Granule 80, Sand 15, Shell 5	Hard bottom substrate with sand and shell	N
ASOW-22-NECCT-SP-588	E	NECCT	77	51	3955	0.40	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Pebble/Granule 60, Sand 37, Shell 2	Hard bottom substrate with sand and shell	N
ASOW-22-NECCT-SP-592	A	NECCT	87	58	5047	0.50	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 97, Shell 2, Pebble/Granule 1	Sand with shell hash	N
ASOW-22-NECCT-SP-592	B	NECCT	85	57	4849	0.48	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 99, Shell 1	Rippled sand	Y, Ind
ASOW-22-NECCT-SP-592	E	NECCT	87	58	5016	0.50	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 99, Shell 1	Rippled sand	Y, Ind
ASOW-22-NECCT-SP-595	A	NECCT	86	57	4911	0.49	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 98, Shell 2	Rippled sand	Y, 14
ASOW-22-NECCT-SP-595	B	NECCT	84	56	4694	0.47	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 100, Shell <1	Sand	N
ASOW-22-NECCT-SP-595	E	NECCT	83	55	4573	0.46	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 98, Shell 2	Rippled sand	Y, 8
ASOW-22-NECCT-SP-597	A	NECCT	86	58	4974	0.50	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 100, Shell <1	Rippled sand	Y, Ind
ASOW-22-NECCT-SP-597	B	NECCT	90	60	5445	0.54	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 100, Shell <1	Rippled Sand	Y, 12
ASOW-22-NECCT-SP-597	D	NECCT	84	56	4717	0.47	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 100, Shell <1	Rippled sand	Y, 15
ASOW-22-NECCT-SP-598	B	NECCT	84	56	4701	0.47	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 97, Shell 3	Sand	N
ASOW-22-NECCT-SP-598	D	NECCT	85	57	4858	0.49	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 97, Shell 3	Sand bottom	N
ASOW-22-NECCT-SP-598	E	NECCT	89	59	5228	0.52	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 97, Shell 3	Sand	N
ASOW-22-NECCT-SP-599	A	NECCT	75	50	3764	0.38	Unconsolidated Mineral	Fine Unconsolidated	Mud	NA	Silt 100, Shell <1	Silt bottom	N
ASOW-22-NECCT-SP-599	B	NECCT	81	54	4326	0.43	Unconsolidated Mineral	Fine Unconsolidated	Mud	NA	Silt 100	Silt bottom	N
ASOW-22-NECCT-SP-599	C	NECCT	82	54	4440	0.44	Unconsolidated Mineral	Fine Unconsolidated	Mud	NA	Silt 99, Shell 1	Silt bottom	N
ASOW-22-NECCT-SP-600	A	NECCT	82	54	4442	0.44	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 90, Pebble/Granule 7, Shell 3, Silt <1	Hard bottom substrate over sand	Y, Ind
ASOW-22-NECCT-SP-600	B	NECCT	87	58	5011	0.50	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 97, Shell 3	Rippled sand	Y, Ind
ASOW-22-NECCT-SP-600	D	NECCT	83	55	4615	0.46	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 97, Shell 3	Sand with some shell	N
ASOW-22-NECCT-SP-601	A	NECCT	87	58	5035	0.50	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 90, Silt 8, Shell 2	Rippled sand with trace of silt	Y, 15
ASOW-22-NECCT-SP-601	C	NECCT	88	59	5176	0.52	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 95, Silt 5, Shell <1	Rippled sand with silt	Y, 12
ASOW-22-NECCT-SP-601	D	NECCT	84	56	4666	0.47	Unconsolidated Mineral	Fine Unconsolidated	Muddy Sand	NA	Sand 90, Silt 10, Shell <1	Rippled sand with silt	Y, 16
ASOW-22-NECCT-SP-602	B	NECCT	86	57	4887	0.49	Unconsolidated Mineral	Fine Unconsolidated	Muddy Sand	NA	Sand 55, Silt 45	Sand and silt mixture	Y, Ind
ASOW-22-NECCT-SP-602	C	NECCT	89	59	5278	0.53	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 95, Silt 5	Rippled fine sand	Y, Ind
ASOW-22-NECCT-SP-602	D	NECCT	84	56	4711	0.47	Unconsolidated Mineral	Fine Unconsolidated	Muddy Sand	NA	Sand 60, Silt 40	Sand and silt	N
ASOW-22-NECCT-SP-603	E	NECCT	82	55	4506	0.45	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Pebble/Granule 50, Sand 40, Shell 10	Hard bottom substrate	N
ASOW-22-NECCT-SP-603	F	NECCT	79	52	4112	0.41	Unconsolidated Mineral	Fine Unconsolidated	Sandy Mud	NA	Silt 90, Sand 10	Rippled sand and silt	Y, 9
ASOW-22-NECCT-SP-603	G	NECCT	79	52	4120	0.41	Unconsolidated Mineral	Fine Unconsolidated	Sandy Mud	NA	Silt 80, Sand 20	Rippled sand	Y, 9
ASOW-22-NECCT-SP-604	A	NECCT	84	56	4751	0.48	Unconsolidated Mineral	Fine Unconsolidated	Muddy Sand	NA	Sand 55, Silt 40, Shell 5	Sand and mud	N
ASOW-22-NECCT-SP-604	D	NECCT	83	56	4644	0.46	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 95, Silt 5	Sand with some silt	N

Plan View Image Analysis Results, Atlantic Shores Offshore Wind, 2022

								CMECS Biotic Classifications				
Station ID	Replicate	Location	Burrows	Tubes	Tracks	Epifauna, Infauna & Fish Types and Counts	Macroalgae Presence[b]	Eel Grass Types[c] and Counts	Biotic Subclass	Co-occurring Biotic Subclass	Biotic Group	Co-occurring Biotic Group	Comments
ASOW-22-NECCT-SP-588	D	NECCT	N	N	N	Sand dollar (~30), Hermit crab (3), Nassariid snail (2), Anemone (1). Hydroid	N	None	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Hard or Mixed Substrates	Pebble/granules and shell hash on sand. Moderate sand dollar coverage.
ASOW-22-NECCT-SP-588	E	NECCT	N	N	N	Hermit crab (2), Sand dollar (1), Moon snail (1), Sea Star (1)	N	None	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Sand Dollar Bed	Gravels and diverse shell over sand. Deceased sand dollar, arm of sea star captured left side of frame.
ASOW-22-NECCT-SP-592	A	NECCT	N	Y	Y	Sand dollar (100+), Hermit crab (~10), Diopatra (7), Nassariid snail (2), Skate egg case (1), Anemone (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Sand with shell hash, few granules and sand clasts. Many sand dollars, some diopatra.
ASOW-22-NECCT-SP-592	B	NECCT	N	Y	Y	Sand dollar (~100+), Diopatra (3), Hermit crab (3), Nassariid snail (1), Anemone (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Subtly rippled sand, trace of shell and some sand clasts. An abundance of sand dollars, few diopatra and tracks. Possible bivalve siphon.
ASOW-22-NECCT-SP-592	E	NECCT	N	Y	Y	Sand dollar (100+), Hermit crab (5), Nassariid snail (2), Diopatra (1), Bivalve siphon (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Partially rippled sand with trace of shell hash. Some sand clasts. Many sand dollars and some tracks evident.
ASOW-22-NECCT-SP-595	A	NECCT	Y	Y	Y	Sand dollar (15), Nassariid snail (3), Sea Star (1), Diopatra (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Diverse Soft Sediments Epifauna	Rippled sand, high diversity, many tracks and trails.
ASOW-22-NECCT-SP-595	B	NECCT	Y	Y	Y	Sand dollar (48), Nassariid snail (5), Diopatra (3), Hermit crab (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand with many sand dollars, diopatra.
ASOW-22-NECCT-SP-595	E	NECCT	Y	Y	Y	Sand dollar (~40), Anemone (2), Nassariid snail (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Burrowing Anemones	Rippled fine to medium sand, many sand dollars, tracks.
ASOW-22-NECCT-SP-597	A	NECCT	Y	Y	Y	Nassariid snail (4), Cerianthid anemone (2), Hermit crab (1)	N	None	Soft Sediment Fauna	NA	Mobile Mollusks on Soft Sediments	Burrowing Anemones	Rippled (weathered) sand, lots of tracks.
ASOW-22-NECCT-SP-597	B	NECCT	N	Y	Y	Nassariid snail (7), Crepidula (5), Anemone (2), Sand dollar (1)	N	None	Soft Sediment Fauna	NA	Mobile Mollusks on Soft Sediments	Diverse Soft Sediments Epifauna	Rippled sand with diverse soft sediment fauna, isolated Crepidula stack.
ASOW-22-NECCT-SP-597	D	NECCT	Y	Y	Y	Nassariid snail (4), Sand dollar (3), Anemone (2), Hermit crab (2), Diopatra (2)	N	None	Soft Sediment Fauna	NA	Diverse Soft Sediments Epifauna	Mobile Mollusks on Soft Sediments	Rippled sand, tracks and trails, diverse epifauna.
ASOW-22-NECCT-SP-598	B	NECCT	N	N	Y	Sand dollar (150+), Nassariid snail (3)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand, some shell, many sand dollars, some snails.
ASOW-22-NECCT-SP-598	D	NECCT	N	N	Y	Sand dollar (55), Nassariid snail (6), Hermit crab (1), Anemone (1), Skate egg case (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand with many sand dollars and tracks, skate egg case.
ASOW-22-NECCT-SP-598	E	NECCT	Y	N	Y	Sand dollar (~45), Nassariid snail (7), Hermit crab (3)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand and sand dollars, possible weathered ripples.
ASOW-22-NECCT-SP-599	A	NECCT	Y	Y	Y	Sand dollar (1), Moon Snail (1)?, Nassariid snail (1)	N	None	Soft Sediment Fauna	Inferred Fauna	Larger Deep-Burrowing Fauna	Tracks and Trails	Silt bottom with many burrows, tracks, and trails.
ASOW-22-NECCT-SP-599	B	NECCT	Y	Y	Y	Nassariid snail (6), Diopatra (1)	N	None	Soft Sediment Fauna	Inferred Fauna	Mobile Mollusks on Soft Sediments	Tracks and Trails	Silt bottom with many tracks and trails, burrow excavations on SWI.
ASOW-22-NECCT-SP-599	C	NECCT	Y	Y	Y	Nassariid snail (8)	N	None	Soft Sediment Fauna	Inferred Fauna	Mobile Mollusks on Soft Sediments	Tracks and Trails	Silt bottom, many small snails, tracks.
ASOW-22-NECCT-SP-600	A	NECCT	Y	Y	Y	Sand dollar (25), Hermit crab (2), Nassariid snail (2)	N	None	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Hard or Mixed Substrates	Rippled coarse sand with gravel, shells in troughs. Large, emergent worm tube on left.
ASOW-22-NECCT-SP-600	B	NECCT	N	N	Y	Sand dollar (75), Nassariid snail (6)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Rippled sand with many sand dollars and snails.
ASOW-22-NECCT-SP-600	D	NECCT	N	N	Y	Sand dollar (100+), Nassariid snail (5), egg mass?	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand with many sand dollars, possible egg mass at right center.
ASOW-22-NECCT-SP-601	A	NECCT	Y	Y	Y	Diopatra (1)	N	None	Inferred Fauna	NA	Tracks and Trails	None	Rippled sand with some silt, shell.
ASOW-22-NECCT-SP-601	C	NECCT	Y	Y	Y	Nassariid snail (2), Sand dollar (1), Diopatra (1)	N	None	Soft Sediment Fauna	Inferred Fauna	Mobile Mollusks on Soft Sediments	Tracks and Trails	Rippled sand with overlying silt and trace of shell hash.
ASOW-22-NECCT-SP-601	D	NECCT	Y	N	Y	Hermit crab (2), Nassariid snail (1), Sand dollar (1)	N	None	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	Mobile Mollusks on Soft Sediments	Rippled sand with overlying silt, burrows, tracks.
ASOW-22-NECCT-SP-602	B	NECCT	Y	Y	Y	Sand dollar (8), Nassariid snail (4)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Medium sand and silt mix, ripples.
ASOW-22-NECCT-SP-602	C	NECCT	Y	Y	Y	Sand dollar (5), Nassariid snail (5), Diopatra (2)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Rippled fine and very fine sand, large burrows/depressions.
ASOW-22-NECCT-SP-602	D	NECCT	Y	Y	Y	Sand dollar (150+), Nassariid snail (6), Hermit crab (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Deep-Burrowing Fauna	Find sand and silt mixture, large burrows with tubes, many sand dollars.
ASOW-22-NECCT-SP-603	E	NECCT	N	N	N	Cerianthid anemone (2)	N	None	Soft Sediment Fauna	NA	Burrowing Anemones	None	Gravel, sand, and shell mix.
ASOW-22-NECCT-SP-603	F	NECCT	Y	Y	Y	Sand dollar (15), Cerianthid anemone (2), Diopatra (2)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Deep-Burrowing Fauna	Silt and very fine sand mix, many burrows and small sand dollars partially covered in silt.
ASOW-22-NECCT-SP-603	G	NECCT	Y	Y	Y	Sand dollar (120+), Cerianthid anemone (4), Diopatra (3)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Burrowing Anemones	Rippled silt and fine sand, many small sand dollars, large burrows, diopatra without shells for ornamentation?
ASOW-22-NECCT-SP-604	A	NECCT	Y	Y	Y	Nassariid snail (4), Cerianthid anemone (1)	N	None	Soft Sediment Fauna	NA	Mobile Mollusks on Soft Sediments	Burrowing Anemones	Sand and silt mix/surface transition, many burrows in silt area.
ASOW-22-NECCT-SP-604	D	NECCT	Y	Y	Y	Sand dollar (2), Nassariid snail (2), Hermit crab (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand with some silt, burrows, and tracks.

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							CMECS Substrate Classifications						
Station ID	Replicate	Location	Image Width (cm)[a]	Image Height (cm)[a]	Image FOV (cm^2)[a]	Image FOV (m^2)[a]	Substrate Class	Substrate Subclass	Substrate Group	Substrate Subgroup	Substrate Group Percent	Habitat Type	Ripples Presence and Wavelength (cm)
ASOW-22-NECCT-SP-604	E	NECCT	83	55	4575	0.46	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 95, Silt 5	Sand with some silt	N
ASOW-22-NECCT-SP-605	A	NECCT	75	50	3727	0.37	Unconsolidated Mineral	Fine Unconsolidated	Mud	NA	Silt 100	Silt	N
ASOW-22-NECCT-SP-605	B	NECCT	82	55	4470	0.45	Unconsolidated Mineral	Fine Unconsolidated	Sandy Mud	NA	Silt 60, Sand 40	Silt and sand	Y, 8
ASOW-22-NECCT-SP-605	E	NECCT	78	52	4104	0.41	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 75, Silt 25	Rippled fine sand and silt	Y, 7
ASOW-22-NECCT-SP-606	A	NECCT	85	57	4870	0.49	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 90, Silt 5, Shell 3, Pebble/Granule 2	Rippled sand with silt and shell fragments	Y, 14
ASOW-22-NECCT-SP-606	B	NECCT	83	55	4575	0.46	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 90, Shell 6, Silt 3, Pebble/Granule 1	Rippled sand with shell hash	Y, 15
ASOW-22-NECCT-SP-606	D	NECCT	86	57	4912	0.49	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 92, Silt 4, Shell 4, Pebble/Granule <1	Rippled sand	Y, 14
ASOW-22-NECCT-SP-607	C	NECCT	93	62	5793	0.58	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Pebble/Granule 70, Sand 23, Cobble 5, Shell 2	Hard bottom substrate with sand and shell	Y, 45
ASOW-22-NECCT-SP-607	D	NECCT	86	57	4898	0.49	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Pebble/Granule 80, Sand 17, Shell 3	Hard bottom substrate with sand	N
ASOW-22-NECCT-SP-607	E	NECCT	93	62	5715	0.57	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Muddy Sandy Gravel	Pebble/Granule 75, Sand 15, Silt 5, Shell 5	Hard bottom substrate with sand, silt and shell	N
ASOW-22-NECCT-SP-608	C	NECCT	82	55	4526	0.45	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 100	Rippled sand	Y, 15
ASOW-22-NECCT-SP-608	D	NECCT	84	56	4668	0.47	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 96, Silt 4	Rippled sand with silt	Y, 12
ASOW-22-NECCT-SP-608	E	NECCT	82	55	4513	0.45	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 95, Shell 5, Silt <1	Rippled sand with shell hash	Y, 12
ASOW-22-NECCT-SP-609	A	NECCT	81	54	4380	0.44	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 98, Shell 2	Rippled sand with shell hash	Y, 20
ASOW-22-NECCT-SP-609	B	NECCT	89	59	5258	0.53	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 99, Shell 1	Rippled sand	Y, 12
ASOW-22-NECCT-SP-609	E	NECCT	79	53	4207	0.42	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 100, Shell <1	Rippled sand	Y, 10
ASOW-22-NECCT-SP-610	A	NECCT	76	51	3875	0.39	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 100, Shell <1	Rippled sand	Y, 20
ASOW-22-NECCT-SP-610	B	NECCT	85	57	4793	0.48	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 100, Shell <1	Rippled sand	Y, 14
ASOW-22-NECCT-SP-610	C	NECCT	90	60	5436	0.54	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 100, Shell <1	Rippled Sand	Y, 16
ASOW-22-NECCT-SP-611	A	NECCT	86	58	4985	0.50	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 100	Rippled sand	Y, 20
ASOW-22-NECCT-SP-611	B	NECCT	79	53	4162	0.42	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 100	Rippled sand	Y, 22
ASOW-22-NECCT-SP-611	C	NECCT	82	55	4528	0.45	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 100, Shell <1	Rippled sand	Y, 25
ASOW-22-NECCT-SP-613	A	NECCT	87	58	5087	0.51	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 95, Gravel 3, Shell 2	Rippled sand with gravel and shell fragments	Y, Ind
ASOW-22-NECCT-SP-614	A	NECCT	79	52	4127	0.41	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 55, Pebble/Granule 40, Shell 5	Hard bottom substrate with sand and shell	Y, 22
ASOW-22-NECCT-SP-615	B	NECCT	77	51	3947	0.39	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Boulder 50, Sand 38, Cobble 7, Pebble/Granule 3, Shell 2	Hard bottom substrate with sand	N
ASOW-22-NECCT-SP-617	A	NECCT	78	52	4051	0.41	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 85, Pebble/Granule 15, Shell <1	Hard bottom substrate	Y, 45
ASOW-22-NECCT-SP-618	A	NECCT	88	59	5158	0.52	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 89, Pebble/Granule 10, Shell 1	Hard bottom substrate with sand	N
ASOW-22-NECCT-SP-619	A	NECCT	89	60	5313	0.53	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 95, Pebble/Granule 3, Shell 2	Rippled sand with trace of gravel and shell	Y, 16
ASOW-22-NECCT-SP-620	A	NECCT	80	53	4246	0.42	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Mud	Silt 80, Sand 15, Pebble/Granule 5	Silt over sand and gravel	N
ASOW-22-NECCT-SP-621	A	NECCT	78	52	4024	0.40	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Muddy Sand	Sand 55, Silt 38, Pebble/Granule 7, Shell <1	Silt and sand with gravel	N
ASOW-22-NECCT-SP-622	A	NECCT	87	58	5081	0.51	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 98, Shell 2	Rippled sand	Y, Ind
ASOW-22-NECCT-SP-623	A	NECCT	90	60	5348	0.53	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 75, Pebble/Granule 20, Shell 5	Hard bottom substrate with sand and shell	Y, Ind
ASOW-22-NECCT-SP-624	B	NECCT	88	59	5153	0.52	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 50, Pebble/Granule 45, Shell 5	Hard bottom substrate with sand and shell	N

Plan View Image Analysis Results, Atlantic Shores Offshore Wind, 2022

								CMECS Biotic Classifications				
Station ID	Replicate	Location	Burrows	Tubes	Tracks	Epifauna, Infauna & Fish Types and Counts	Macroalgae Presence[b]	Eel Grass Types[c] and Counts	Biotic Subclass	Co-occurring Biotic Subclass	Biotic Group	Co-occurring Biotic Group	Comments
ASOW-22-NECCT-SP-604	E	NECCT	Y	Y	Y	Sand dollar (10), Hermit crab (3), Nassariid snail	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand with some silt, burrows, tracks.
ASOW-22-NECCT-SP-605	A	NECCT	Y	N	Y	Cerianthid anemone (3), Nassariid snail (2)	N	None	Soft Sediment Fauna	NA	Burrowing Anemones	Mobile Mollusks on Soft Sediments	Silt bottom with large burrows, anemones, snails, many tracks and trails.
ASOW-22-NECCT-SP-605	B	NECCT	Y	Y	Y	Cerianthid anemone (3), Nassariid snail (1)	N	None	Soft Sediment Fauna	NA	Burrowing Anemones	Mobile Mollusks on Soft Sediments	Rippled silt and sand substrate, large burrows.
ASOW-22-NECCT-SP-605	E	NECCT	Y	Y	Y	Cerianthid anemone (1), Nassariid snail (1)	N	None	Soft Sediment Fauna	Inferred Fauna	Burrowing Anemones	Tracks and Trails	Rippled fine sand and silt, many tracks and some burrows.
ASOW-22-NECCT-SP-606	A	NECCT	Y	Y	Y	Cerianthid anemone (9)	N	None	Soft Sediment Fauna	NA	Burrowing Anemones	Small Tube-Building Fauna	Rippled sand with silt in troughs, some shell, many anemones.
ASOW-22-NECCT-SP-606	B	NECCT	N	Y	Y	Cerianthid anemones (1)	N	None	Inferred Fauna	Soft Sediment Fauna	Tracks and Trails	Burrowing Anemones	Rippled fine to medium sand, shell hash, lots of tracks and trails.
ASOW-22-NECCT-SP-606	D	NECCT	Y	Y	Y	Cerianthid anemone (5), Whip Amphipods (10)	N	None	Soft Sediment Fauna	NA	Burrowing Anemones	None	Rippled fine sand with some silt and shell, many whip amphipods, burrow excavations.
ASOW-22-NECCT-SP-607	C	NECCT	N	N	N	Cerianthid anemone (1)	N	None	Attached Fauna	NA	Attached Anemones	None	Gravels and coarse sand, a few cobbles.
ASOW-22-NECCT-SP-607	D	NECCT	N	N	N	None	N	None	None	NA	None	None	Sandy gravel substrate without visible fauna.
ASOW-22-NECCT-SP-607	E	NECCT	N	N	N	None	N	None	None	NA	None	None	Sandy gravel with some reduced silt on SWI, no organisms evident.
ASOW-22-NECCT-SP-608	C	NECCT	Y	N	Y	Cerianthid anemones (4), Diopatra (2), Hermit crab (1)	N	None	Soft Sediment Fauna	NA	Burrowing Anemones	Larger Tube-Building Fauna	Rippled sand, burrows and fecal casts.
ASOW-22-NECCT-SP-608	D	NECCT	Y	Y	Y	Cerianthid anemones (11), Nassariid snail (3), Moon Snail (1), Whip amphipods	N	None	Soft Sediment Fauna	NA	Burrowing Anemones	Mobile Mollusks on Soft Sediments	Rippled sand with trace of silt. Many burrowing anemones, tracks, whip amphipods, gastropods, and tracks.
ASOW-22-NECCT-SP-608	E	NECCT	Y	Y	Y	Cerianthid anemones (9)	N	None	Soft Sediment Fauna	NA	Burrowing Anemones	None	Rippled sand with burrowing anemones, few moon snail egg casings.
ASOW-22-NECCT-SP-609	A	NECCT	Y	N	Y	Diopatra (1)	N	None	Soft Sediment Fauna	Inferred Fauna	Larger Tube-Building Fauna	Tracks and Trails	Rippled fine sand (eroded ripples), many tracks and trails.
ASOW-22-NECCT-SP-609	B	NECCT	Y	Y	Y	Diopatra (1)	N	None	Inferred Fauna	Soft Sediment Fauna	Tracks and Trails	Larger Tube-Building Fauna	Rippled (eroded) sand, many tracks/trails, fecal mounds, burrows.
ASOW-22-NECCT-SP-609	E	NECCT	Y	N	Y	Cerianthid anemone (1), Diopatra (1)	N	None	Soft Sediment Fauna	NA	Burrowing Anemones	Small Tube-Building Fauna	Rippled sand. Many burrows and fecal casts, possible decaying skate egg case.
ASOW-22-NECCT-SP-610	A	NECCT	Y	N	Y	Cerianthid anemone (2), Nassariid snail (2), Flat Fish (1)	N	None	Soft Sediment Fauna	NA	Burrowing Anemones	Mobile Mollusks on Soft Sediments	Rippled sand, finer sediment with tracks in troughs.
ASOW-22-NECCT-SP-610	B	NECCT	Y	N	Y	Cerianthid anemone (2), Nassariid snail (1)	N	None	Soft Sediment Fauna	NA	Burrowing Anemones	Mobile Mollusks on Soft Sediments	Rippled fine to medium sand, trace of shell. Few sand tubes/possible tunicate and burrows.
ASOW-22-NECCT-SP-610	C	NECCT	N	Y	Y	Nassariid snail (1), Diopatra (1)	N	None	Soft Sediment Fauna	NA	Mobile Mollusks on Soft Sediments	None	Rippled sand, possible diopatra.
ASOW-22-NECCT-SP-611	A	NECCT	Y	N	Y	Cerianthid anemone (1)	N	None	Soft Sediment Fauna	Inferred Fauna	Burrowing Anemones	Tracks and Trails	Rippled sand, tracks, fecal mound.
ASOW-22-NECCT-SP-611	B	NECCT	N	N	Y	Diopatra (1)	N	None	Soft Sediment Fauna	Inferred Fauna	Larger Tube-Building Fauna	Fecal Mounds	Rippled sand, diopatra and fecal mound. A sand tube/possible tunicate.
ASOW-22-NECCT-SP-611	C	NECCT	Y	N	Y	Diopatra (1)	N	None	Soft Sediment Fauna	Inferred Fauna	Larger Tube-Building Fauna	Fecal Mounds	Rippled sand, diopatra, tracks, fecal mounds. Sand tubes/possible tunicate present.
ASOW-22-NECCT-SP-613	A	NECCT	Y	N	Y	Diopatra (2)	N	None	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Larger Deep-Burrowing Fauna	Rippled very coarse/coarse sand, lots of burrows, diopatra.
ASOW-22-NECCT-SP-614	A	NECCT	Y	N	Y	Cerianthid anemones (2)	N	None	Soft Sediment Fauna	NA	Burrowing Anemones	None	Rippled granules/coarse sand, finer material in trough, shell fragments. Few sand tubes/possible tunicate.
ASOW-22-NECCT-SP-615	B	NECCT	N	N	Y	Hydroids, Sponge, Anemones, Astarte (1)	N	None	Attached Fauna	NA	Diverse Colonizers	None	Encrusted gravels on sand. One boulder, few cobbles and some pebble/granules.
ASOW-22-NECCT-SP-617	A	NECCT	Y	Y	Y	Nassariid snail (2), Cerianthid anemone (2)	N	None	Attached Fauna	Soft Sediment Fauna	Mobile Mollusks on Hard or Mixed Substrates	Burrowing anemones	Gravel in trough of rippled coarse sand, tube encrusted detritus in upper left.
ASOW-22-NECCT-SP-618	A	NECCT	N	N	Y	Cerianthid anemone (3), Hermit crab (1)	N	None	Soft Sediment Fauna	Attached Fauna	Burrowing Anemones	Mobile Crustaceans on Hard or Mixed Substrates	Gravel band in coarse sand, some shell hash. Turbid image.
ASOW-22-NECCT-SP-619	A	NECCT	N	N	Y	Cerianthid anemone (1)	N	None	Soft Sediment Fauna	Inferred Fauna	Burrowing Anemones	Tracks and Trails	Turbid image, rippled sand with some granules, scattered sand tubes or possible tunicate.
ASOW-22-NECCT-SP-620	A	NECCT	N	N	N	Cerianthid anemone (7)	N	None	Soft Sediment Fauna	NA	Burrowing Anemones	None	Turbid image, silt veneer over granules and coarse sand.
ASOW-22-NECCT-SP-621	A	NECCT	N	Y	Y	Cerianthid anemone (1), Hermit crab (1)	N	None	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	Burrowing Anemones	Image partially obscured by turbidity, scattered gravel on sand and mud.
ASOW-22-NECCT-SP-622	A	NECCT	N	Y	N	Cerianthid anemone (2), Nassariid snail (1)	N	None	Soft Sediment Fauna	NA	Burrowing Anemones	Mobile Mollusks on Soft Sediments	Turbidity obscures image, sand clasts or emergent infauna present.
ASOW-22-NECCT-SP-623	A	NECCT	N	N	Y	Sand dollar (30), Sea Star (1), Nassariid snail (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	None	Sand with gravel in trough, sea star at top right, mostly outside frame.
ASOW-22-NECCT-SP-624	B	NECCT	N	N	N	Hermit crab (2), Nassariid snail (1), Sand dollar (1), Skate egg case	N	None	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Sand Dollar Bed	Coarse sand and gravel (in trough?), snail feeding on decaying skate egg case.

Plan View Image Analysis Results, Atlantic Shores Offshore Wind, 2022

							CMECS Substrate Classifications						
Station ID	Replicate	Location	Image Width (cm)[a]	Image Height (cm)[a]	Image FOV (cm^2)[a]	Image FOV (m^2)[a]	Substrate Class	Substrate Subclass	Substrate Group	Substrate Subgroup	Substrate Group Percent	Habitat Type	Ripples Presence and Wavelength (cm)
ASOW-22-NECCT-SP-625	B	NECCT	82	55	4484	0.45	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 82, Pebble/Granule 15, Shell 3	Hard bottom substrate with sand and shell fragments	Y, Ind
ASOW-22-NECCT-SP-626	B	NECCT	83	55	4564	0.46	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 99, Shell 1	Sand with limited shell fragments	N
ASOW-22-NECCT-SP-627	B	NECCT	91	60	5470	0.55	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Pebble/Granule 70, Sand 25, Shell 5	Hard bottom substrate with sand and shell fragments	Y, Ind
ASOW-22-NECCT-SP-628	A	NECCT	83	55	4612	0.46	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 99, Shell 1	Rippled (weathered) sand	Y, 15
ASOW-22-NECCT-SP-629	A	NECCT	82	55	4501	0.45	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 97, Shell 3, Pebble/Granule <1	Rippled sand with shell hash	Y, 17
ASOW-22-NECCT-SP-630	A	NECCT	84	56	4684	0.47	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 98, Shell 2	Rippled sand	Y, 10
ASOW-22-NECCT-SP-631	A	NECCT	80	54	4301	0.43	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 97, Shell 3	Rippled sand	Y, 10
ASOW-22-NECCT-SP-632	A	NECCT	88	58	5123	0.51	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 90, Shell 10	Sand with shell hash	Y, 16
ASOW-22-NECCT-SP-633	A	NECCT	86	57	4918	0.49	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 80, Pebble/Granule 10, Shell 10	Hard bottom substrate with sand and shell fragments	N
ASOW-22-NECCT-SP-634	A	NECCT	81	54	4402	0.44	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 90, Pebble/Granule 7, Shell 3	Hard bottom substrate with shell fragments	N
ASOW-22-NECCT-SP-635	A	NECCT	84	56	4702	0.47	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 60, Pebble/Granule 33, Shell 7	Hard bottom substrate with shell fragments	N
ASOW-22-NECCT-SP-636	A	NECCT	90	60	5421	0.54	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 50, Pebble/Granule 45, Shell 5	Hard bottom substrate with shell fragments	N
ASOW-22-NECCT-SP-637	A	NECCT	91	60	5471	0.55	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 70, Pebble/Granule 25, Shell 5	Hard bottom substrate with rippled sand and shell fragments	Y, 12
ASOW-22-NECCT-SP-638	A	NECCT	87	58	5010	0.50	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 80, Pebble/Granule 15, Shell 5	Hard bottom substrate with sand and shell	Y, 8
ASOW-22-NECCT-SP-639	A	NECCT	83	55	4619	0.46	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 65, Pebble/Granule 25, Shell 10	Hard bottom substrate with shell fragments	N
ASOW-22-NECCT-SP-640	A	NECCT	81	54	4398	0.44	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 70, Pebble/Granule 25, Shell 5	Sand with gravel and shell	N
ASOW-22-NECCT-SP-641	A	NECCT	90	60	5385	0.54	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 88, Pebble/Granule 7, Shell 5	Sand with mobile gravels and shell	N
ASOW-22-NECCT-SP-642	A	NECCT	85	57	4822	0.48	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 95, Gravel 3, Shell 2	Sand with some gravel, shell	N
ASOW-22-NECCT-SPG-347	A	NECCT	46	31	1398	0.14	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Sand 65, Pebble/Granule 25, Silt 5, Shell <1	Sand with gravel	N
ASOW-22-NECCT-SPG-347	E	NECCT	44	29	1273	0.13	Unconsolidated Mineral	Coarse Unconsolidated	Gravel Mixes	Sandy Gravel	Pebble/Granule 65, Sand 35, Shell <1	Hard bottom substrate with shell over sand	Y, Ind
ASOW-22-NECCT-SPG-347	J	NECCT					Unconsolidated Mineral	Coarse Unconsolidated	Gravels	Pebble/Granule	Pebble/Granule 80, Sand 10, Shell 10	Ind	Ind
ASOW-22-NECCT-SPG-353	A	NECCT	86	58	4978	0.50	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 93, Shell 5, Gravel 2	Sand with shell and gravel	Y, Ind
ASOW-22-NECCT-SPG-353	B	NECCT	84	56	4757	0.48	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 94, Shell 5, Gravel 1	Rippled sand with shell and gravel	Y, Ind
ASOW-22-NECCT-SPG-353	C	NECCT	87	58	5056	0.51	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 94, Gravel 3, Shell 3	Rippled Sand	Y, Ind
ASOW-22-NECCT-SPG-372	A	NECCT	91	61	5563	0.56	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 97, Shell 3	Sand with shell hash	N
ASOW-22-NECCT-SPG-372	B	NECCT	91	61	5562	0.56	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 98, Shell 1, Gravel 1	Sand with trace of gravel and shell	N
ASOW-22-NECCT-SPG-372	C	NECCT	93	62	5719	0.57	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 93, Shell 7	Sand with shell hash	Y, >55
ASOW-22-NECCT-SPG-378	A	NECCT	86	57	4926	0.49	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 95, Pebble/Granule 4, Shell 1	Sand with gravel and shell	N
ASOW-22-NECCT-SPG-378	D	NECCT	87	58	5021	0.50	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 95, Pebble/Granule 3, Shell 2	Sand with gravel and shell	N
ASOW-22-NECCT-SPG-378	E	NECCT	84	56	4707	0.47	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 80, Pebble/Granule 18, Shell 2	Sand with gravel and shell	N

Plan View Image Analysis Results, Atlantic Shores Offshore Wind, 2022

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Station ID	Replicate	Location	Burrows	Tubes	Tracks	Epifauna, Infauna & Fish Types and Counts	Macroalgae Presence[b]	Eel Grass Types[c] and Counts	Biotic Subclass	Co-occurring Biotic Subclass	Biotic Group	Co-occurring Biotic Group	Comments
ASOW-22-NECCT-SP-625	B	NECCT	N	N	Y	Sand dollar (24), Hermit crab (3)	N	None	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Hard or Mixed Substrates	Coarse sand with gravel concentrated in a band/trough.
ASOW-22-NECCT-SP-626	B	NECCT	N	N	Y	Sand dollar (105), Hermit crab (2), Astarte (1), Nassariid snail (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Coarse sand with many sand dollars, trough on left appears to be filled with sand tubes/possible tunicate.
ASOW-22-NECCT-SP-627	B	NECCT	N	N	N	Sand dollar (60), Nassariid snail (3)	N	None	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Mollusks on Hard or Mixed Substrates	Rippled? gravel, shell, coarser gravel (pebbles), shell in trough, many sand dollars but only to right of trough.
ASOW-22-NECCT-SP-628	A	NECCT	N	N	Y	Sand dollar (26), Hermit crab (2)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Rippled sand, some sand clasts.
ASOW-22-NECCT-SP-629	A	NECCT	N	Y	Y	Sand dollar (31), Hermit crab (2), Nassariid snail (1), Diopatra (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Rippled sand, shell, limited gravel, scattered sand tubes/possible tunicate.
ASOW-22-NECCT-SP-630	A	NECCT	Y	N	Y	Sand dollar (11), Nassariid snail (4), Hermit crab (2), Diopatra (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Diverse Soft Sediments Epifauna	Rippled sand with shell hash. Tracks present throughout.
ASOW-22-NECCT-SP-631	A	NECCT	N	N	Y	Sand dollar (52), Nassariid snail (4), Hermit crab (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Rippled fine to medium sand, tracks and trails. Sand tubes/possible tunicate.
ASOW-22-NECCT-SP-632	A	NECCT	N	N	Y	Sand dollar (60), Nassariid snail (5), Diopatra (2), Hermit crab (2)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Diverse Soft Sediments Epifauna	Rippled (weathered) sand with shell hash, tracks.
ASOW-22-NECCT-SP-633	A	NECCT	N	N	Y	Sand dollar (1), Astarte (1), Nassariid snail (1), crab (1)	N	None	Soft Sediment Fauna	NA	Diverse Soft Sediments Epifauna	None	Coarse sand with gravel and shell fragments.
ASOW-22-NECCT-SP-634	A	NECCT	N	N	Y	Sand dollar (5), Nassariid snail (3), Diopatra (2), Hermit crab (1)	N	None	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Mollusks on Hard or Mixed Substrates	Coarse sand and gravel, shell, some tracks and trails, diopatra.
ASOW-22-NECCT-SP-635	A	NECCT	N	N	Y	Hermit crab (2), Nassariid snail (1)	N	None	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	Mobile Mollusks on Hard or Mixed Substrates	Gravel and coarse sand, shells and shell fragments. Few sand tubes/possible tunicate.
ASOW-22-NECCT-SP-636	A	NECCT	N	N	Y	Hermit crab (4), Nassariid snail (2), Anemone (1), Diopatra (1)	N	None	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Burrowing Anemones	Gravel and coarse sand, shell fragments, sand tubes/possible tunicate cluster in left portion of image.
ASOW-22-NECCT-SP-637	A	NECCT	N	Y	Y	Diopatra (2), Hermit crab (1), Shrimp (1), Anemone (1)	N	None	Soft Sediment Fauna	Attached Fauna	Larger Tube-Building Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Rippled coarse sand with gravel and shell fragments, diverse epifauna.
ASOW-22-NECCT-SP-638	A	NECCT	N	Y	Y	Sand dollar (4), Diopatra (2), Nassariid snail (1)	N	None	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Mollusks on Hard or Mixed Substrates	Rippled (weathered) coarse sand with gravel and shell fragments, some tracks and trails, sand tube/possible tunicate at left of image.
ASOW-22-NECCT-SP-639	A	NECCT	N	Y	Y	Nassariid snail (1), Diopatra (1)	N	None	Soft Sediment Fauna	NA	Mobile Mollusks on Soft Sediments	Larger Tube-Building Fauna	Coarse sand and gravel with shell fragments, some tracks and trails.
ASOW-22-NECCT-SP-640	A	NECCT	N	Y	Y	Hermit crab (2), Finfish (1)	N	None	Attached Fauna	Inferred Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Tracks and Trails	Coarse sand and gravel, small patch of sand tubes/possible tunicate, many tracks and trails.
ASOW-22-NECCT-SP-641	A	NECCT	N	N	N	Nassariid snail (5), Sand dollar (1)	N	None	Attached Fauna	Soft Sediment Fauna	Mobile Mollusks on Hard or Mixed Substrates	Sand Dollar Bed	Sand with gravel and shell debris with sand tubes or tunicate in stalks throughout frame.
ASOW-22-NECCT-SP-642	A	NECCT	N	N	Y	Sand dollar (22), Nassariid snail (3), Hermit crab (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand with some gravel, anthropogenically disturbed? Sand clasts, track and trails.
ASOW-22-NECCT-SPG-347	A	NECCT	N	N	N	None	N	None	Ind	Ind	Ind	Ind	Pebble/granules over sand, gravels aggregated right side of frame. Fairly turbid.
ASOW-22-NECCT-SPG-347	E	NECCT	N	N	N	Cerianthid anemone (2)	N	None	Soft Sediment Fauna	NA	Burrowing Anemones	None	Pebble/granules and shell atop partially rippled sand. Few cerianthid anemones appear buried. Image obscured by water column turbidity.
ASOW-22-NECCT-SPG-347	J	NECCT	Ind	Ind	Ind	Ind	Ind	Ind	Ind	Ind	Ind	Ind	Highly turbid image, substrate classifications informed by paired SPI image.
ASOW-22-NECCT-SPG-353	A	NECCT	N	N	Y	Diopatra (10), Sand dollar (7)	N	None	Soft Sediment Fauna	NA	Larger Tube-Building Fauna	Sand Dollar Bed	Subtly rippled coarse sand with some granules and shell hash.
ASOW-22-NECCT-SPG-353	B	NECCT	N	N	Y	Sand dollar (27), Hermit crab (2)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Subtly rippled sand with shell hash and few granules. Many sand dollars on right, left side anthropogenically disturbed?
ASOW-22-NECCT-SPG-353	C	NECCT	N	N	Y	Sand dollar (7), Moon snail (1)	N	None	Soft Sediment Fauna	Inferred Fauna	Sand Dollar Bed	Tracks and Trails	Partially rippled coarse sand with overlying gravels and shell. Large moon snail (co-occurring element), tracks.
ASOW-22-NECCT-SPG-372	A	NECCT	N	N	Y	Sand dollar (100+), Nassariid snail (1), Moon snail (1), Hermit crab (1), Astarte clam (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand with shell hash, high density of sand dollars. Possible relic ripples.
ASOW-22-NECCT-SPG-372	B	NECCT	N	N	Y	Sand dollar (100+), Astarte clam (3), Moon snail (2), Anemone (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Clam Bed	Coarse sand with trace of shell hash and granules, many sand dollars.
ASOW-22-NECCT-SPG-372	C	NECCT	N	Y	Y	Sand dollar (100+), Astarte clam (2), Anemone (1), Diopatra (1), Cerianthid anemone (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	None	Rippled coarse sand with shell hash. Only one ripple crest in image, wave length is an approximate.
ASOW-22-NECCT-SPG-378	A	NECCT	N	N	Y	Sand dollar (18), Nassariid snail (5), Hermit crab (4), Nudibranch (1), Anemone (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Sand with pebbles and few granules, shell hash. Tracks are evident.
ASOW-22-NECCT-SPG-378	D	NECCT	N	N	Y	Sand dollar (11), Nassariid snail (2), Astarte clam (1),	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Medium to coarse sand with pebble/granules and shell hash.
ASOW-22-NECCT-SPG-378	E	NECCT	N	N	Y	Sand dollar (4), Hermit crab (3), Nassariid snail (1)	N	None	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Hard or Mixed Substrates	Medium to coarse sand with overlying pebbles and shell hash.

Plan View Image Analysis Results, Atlantic Shores Offshore Wind, 2022

							CMECS Substrate Classifications						
Station ID	Replicate	Location	Image Width (cm)[a]	Image Height (cm)[a]	Image FOV (cm^2)[a]	Image FOV (m^2)[a]	Substrate Class	Substrate Subclass	Substrate Group	Substrate Subgroup	Substrate Group Percent	Habitat Type	Ripples Presence and Wavelength (cm)
ASOW-22-NECCT-SPG-385	B	NECCT	88	59	5147	0.51	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 95, Gravel 3, Shell 2	Sand with gravel and shell	Y, Ind
ASOW-22-NECCT-SPG-385	C	NECCT	85	56	4773	0.48	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 90, Pebble/Granule 8, Shell 2	Rippled sand with gravel and shell	N
ASOW-22-NECCT-SPG-385	D	NECCT	85	57	4853	0.49	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 90, Pebble/Granule 5, Shell 5	Sand with gravel and shell	N
ASOW-22-NECCT-SPG-391	A	NECCT	81	54	4374	0.44	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 80, Pebble/Granule 15, Shell 5	Sand with gravel and shell	N
ASOW-22-NECCT-SPG-391	B	NECCT	83	55	4554	0.46	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 92, Pebble/Granule 5, Shell 3	Rippled sand with gravel and shell	Y, Ind
ASOW-22-NECCT-SPG-391	C	NECCT	83	56	4635	0.46	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 90, Pebble/Granule 8, Shell 2	Sand with gravel and shell	N
ASOW-22-NECCT-SPG-398	A	NECCT	85	57	4855	0.49	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 99, Shell 1	Rippled sand	Y, 9
ASOW-22-NECCT-SPG-398	C	NECCT	91	61	5505	0.55	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 98, Shell 2, Pebble/Granule <1	Rippled sand	Y, Ind
ASOW-22-NECCT-SPG-398	E	NECCT	83	55	4583	0.46	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 98, Shell 2, Pebble/Granule <1	Rippled sand	Y, Ind
ASOW-22-NECCT-SPG-409	A	NECCT	83	55	4592	0.46	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 98, Shell 2	Sand with shell hash	N
ASOW-22-NECCT-SPG-409	B	NECCT	77	51	3914	0.39	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 99, Shell 1, Pebble/Granule <1	Sand with trace of shell	N
ASOW-22-NECCT-SPG-409	C	NECCT	77	52	3986	0.40	Unconsolidated Mineral	Fine Unconsolidated	Sand	Medium Sand	Sand 97, Shell 3	Sand with shell	N
ASOW-22-NECCT-SPG-417	A	NECCT	86	57	4922	0.49	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 88, Silt 5, Shell 4, Pebble/Granule 3	Sand	N
ASOW-22-NECCT-SPG-417	C	NECCT	83	55	4611	0.46	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 90, Pebble/Granule 5, Shell 5	Sand with gravel and shell	Y, Ind
ASOW-22-NECCT-SPG-417	D	NECCT	85	57	4806	0.48	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 90, Silt 5, Shell 3, Gravel 2	Rippled sand with silt and shell	Y, Ind
ASOW-22-NECCT-SPG-435	A	NECCT	79	53	4148	0.41	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 88, Silt 5, Shell 5, Pebble/Granule 2	Rippled sand with silt and shell	Y, Ind
ASOW-22-NECCT-SPG-435	B	NECCT	84	56	4711	0.47	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 95, Shell 5, Pebble/Granule <1	Rippled sand with shell hash	Y, 6
ASOW-22-NECCT-SPG-435	C	NECCT	78	52	4032	0.40	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 80, Silt 13, Shell 5, Pebble/Granule 2	Sand with silt and shell hash	Y?
ASOW-22-NECCT-SPG-461	A	NECCT	89	59	5247	0.52	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 88, Shell 10, Pebble/Granule 2	Rippled sand with gravel and shell hash	Y, Ind
ASOW-22-NECCT-SPG-461	D	NECCT	90	60	5385	0.54	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 80, Pebble/Granule 10, Shell 10	Rippled sand with gravel and shell	Y, Ind
ASOW-22-NECCT-SPG-461	E	NECCT	89	59	5245	0.52	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 87, Shell 8, Pebble/Granule 5	Rippled sand with shell and gravel	Y, 33
ASOW-22-NECCT-SPG-569	A	NECCT	91	61	5557	0.56	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 70, Pebble/Granule 27, Shell 3	Sand with gravel and shell	N
ASOW-22-NECCT-SPG-569	C	NECCT	85	57	4871	0.49	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 92, Pebble/Granule 5, Shell 3	Sand with gravel and shell	N
ASOW-22-NECCT-SPG-569	E	NECCT	75	50	3748	0.37	Unconsolidated Mineral	Fine Unconsolidated	Sand	Very Coarse/Coarse Sand	Sand 93, Shell 5, Pebble/Granule 2	Rippled sand with shell and gravel	Y, Ind
ASOW-22-NECCT-SPG-612	B	NECCT	81	54	4373	0.44	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 100	Rippled sand	Y, 28
ASOW-22-NECCT-SPG-612	C	NECCT	81	54	4367	0.44	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 100, Shell <1	Rippled sand	Y, 18
ASOW-22-NECCT-SPG-612	D	NECCT	79	52	4118	0.41	Unconsolidated Mineral	Fine Unconsolidated	Sand	Fine/Very Fine Sand	Sand 99, Shell 1	Rippled sand	Y, 23
ASOW-22-NECCT-SPG-616	A	NECCT	87	58	5078	0.51	Unconsolidated Mineral	Coarse Unconsolidated	Gravelly	Gravelly Sand	Sand 70, Boulder 20, Pebble/Granule 5, Shell 5	Hard bottom substrate over sand	Y, 14

Plan View Image Analysis Results, Atlantic Shores Offshore Wind, 2022

								CMECS Biotic Classifications				
Station ID	Replicate	Location	Burrows	Tubes	Tracks	Epifauna, Infauna & Fish Types and Counts	Macroalgae Presence[b]	Eel Grass Types[c] and Counts	Biotic Subclass	Co-occurring Biotic Subclass	Biotic Group	Co-occurring Biotic Group	Comments
ASOW-22-NECCT-SPG-385	B	NECCT	N	Y	Y	Sand dollar (100+), Astarte clam (4), Hermit crab (3), Nassariid snail (2)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Clam Bed	Possibly rippled coarse sand, some gravel and shell hash. Large spisula clam shell, many sand dollars, anthropogenically disturbed?
ASOW-22-NECCT-SPG-385	C	NECCT	N	N	Y	Sand dollar (~70), Hermit crab (2), Astarte clam (2), Nassariid snail (2), Anemone (1)	N	None	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Hard or Mixed Substrates	Rippled coarse sand with gravel, shell hash and sand clasts aggregated in partial ripple trough. Many sand dollars and associated tracks, anthropogenically disturbed?
ASOW-22-NECCT-SPG-385	D	NECCT	N	Y	Y	Sand dollar (~100), Hermit crab (3), Nassariid snail (2), Astarte clam (1)	Possible?	Possible??	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Coarse sand with overlying granules and shell hash/rubble. Many sand dollars, tracks, anthropogenically disturbed?
ASOW-22-NECCT-SPG-391	A	NECCT	N	N	Y	Sand dollar (~90), Hermit crab (2), Nassariid snail (2)	N	None	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Hard or Mixed Substrates	Fine pebbles and granules over medium to coarse sand, trace of shell hash.
ASOW-22-NECCT-SPG-391	B	NECCT	N	N	Y	Sand dollar (23), Nassariid snail (3), Hermit crab (2)	N	None	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Mollusks on Hard or Mixed Substrates	Coarse sand with pebble/granules and shell hash.
ASOW-22-NECCT-SPG-391	C	NECCT	N	N	Y	Sand dollar (10), Nassariid snail (2), Hermit crab (1)	N	None	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Hard or Mixed Substrates	Gravels and shell atop coarse sands, tracks bottom of frame.
ASOW-22-NECCT-SPG-398	A	NECCT	N	Y	Y	Sand dollar (~60), Diopatra (9), Nassariid snail (6), Hermit crab (4)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Rippled fine to medium sand with trace of shell hash. Abundance of epifauna and tracks.
ASOW-22-NECCT-SPG-398	C	NECCT	N	N	Y	Sand dollar (~70), Nassariid snail (4), Hermit crab (2)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Rippled medium sand, trace of shell hash and gravel. Many sand dollars and tracks, possible tube.
ASOW-22-NECCT-SPG-398	E	NECCT	N	N	Y	Sand dollar (+75), Hermit crab (5), Nassariid snail (3), Diopatra (3), Astarte clam (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Rippled medium sand with trace of shell hash, gravels. Few sand clasts or possible tunicate, large clam shell bottom right of frame.
ASOW-22-NECCT-SPG-409	A	NECCT	N	N	Y	Hermit crab (~40), Astarte clam (1)	N	None	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	None	Medium sand with shell hash. Many sand tubes or possible tunicate. Anthropogenically disturbed?
ASOW-22-NECCT-SPG-409	B	NECCT	N	N	Y	Hermit crab (~30), Astarte clam (1)	N	None	Soft Sediment Fauna	NA	Mobile Crustaceans on Soft Sediments	None	Medium sand, trace of shell hash and granules. Sand tubes or possible tunicate. Anthropogenically disturbed?
ASOW-22-NECCT-SPG-409	C	NECCT	N	N	Y	Sand dollar (2), Hermit crab (2)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Crustaceans on Soft Sediments	Sand with shell hash, possible tube top of frame. Sand tubes or possible tunicate. Anthropogenically disturbed?
ASOW-22-NECCT-SPG-417	A	NECCT	N	N	Y	Sand dollar (~40), Nassariid snail (3)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Coarse sand with deposited silt. Some shell hash and gravel, many tracks. Anthropogenically disturbed?
ASOW-22-NECCT-SPG-417	C	NECCT	N	Y	Y	Sand dollar (~30), Diopatra (1), Hydroid	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Partially rippled coarse sand with gravel and shell. Anthropogenically disturbed?
ASOW-22-NECCT-SPG-417	D	NECCT	N	N	Y	Sand dollar (~20), Nassariid snail (3)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Gently rippled sand with shell hash and deposited silt in trough. Few sand tubes or possible tunicate. Anthropogenically disturbed?
ASOW-22-NECCT-SPG-435	A	NECCT	N	N	Y	Sand dollar (~60), Anemone (1), Hermit crab (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Burrowing Anemones	Rippled sand with shell hash and trace of granules. Silt and sand clasts or possible tunicate in ripple trough. Anthropogenically disturbed?
ASOW-22-NECCT-SPG-435	B	NECCT	N	N	Y	Sand dollar (~45), Nassariid snail (1), Hermit crab (1), Astarte clam (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Mobile Mollusks on Soft Sediments	Rippled sand with shell hash, trace of granules and sand tubes/possible tunicate. Ripples are variable. Anthropogenically disturbed?
ASOW-22-NECCT-SPG-435	C	NECCT	N	N	Y	Sand dollar (~40), Astarte clam (2), Nassariid snail (2), Hermit crab (1)	N	None	Soft Sediment Fauna	Inferred Fauna	Sand Dollar Bed	Tracks and Trails	Coarse sand with shell hash, trace of granules. Silt, sand tubes/possible tunicate aggregated in trough. Anthropogenically disturbed?
ASOW-22-NECCT-SPG-461	A	NECCT	N	Y	Y	Sand dollar (14), Diopatra (1), Nassariid snail (1), Astarte clam (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Rippled coarse sand, ripples are disturbed due to mobile sand dollars. Shell and gravel in trough. Anthropogenically disturbed?
ASOW-22-NECCT-SPG-461	D	NECCT	N	N	Y	Sand dollar (30), Hermit crab (2)	N	None	Soft Sediment Fauna	Attached Fauna	Sand Dollar Bed	Mobile Crustaceans on Hard or Mixed Substrates	Rippled sands, granules and shell hash in troughs. Anthropogenically disturbed?
ASOW-22-NECCT-SPG-461	E	NECCT	N	Y	Y	Sand dollar (15), Diopatra (1)	N	None	Soft Sediment Fauna	NA	Sand Dollar Bed	Larger Tube-Building Fauna	Rippled coarse sand, gravels and shell debris in troughs. Anthropogenically disturbed?
ASOW-22-NECCT-SPG-569	A	NECCT	N	N	N	Sea star (1), Nassariid snail (4), Anemone (1), Astarte clam (1)	N	None	Soft Sediment Fauna	Attached Fauna	Burrowing Anemones	Attached Starfish	Pebble/granules and shell over sand. Many clusters of sand tubes/possible tunicate.
ASOW-22-NECCT-SPG-569	C	NECCT	N	N	N	Hermit crab (~10), Nassariid snail (2), Nudibranch (1)	N	None	Attached Fauna	NA	Mobile Crustaceans on Hard or Mixed Substrates	Mobile Mollusks on Hard or Mixed Substrates	Some gravel and trace of shell hash over sand. High concentration of sand tubes/possible tunicate with foraging mollusks and hermit crabs.
ASOW-22-NECCT-SPG-569	E	NECCT	Y	Y	Y	Hermit crab (4), Nassariid snail (2), Diopatra (1)	N	None	Attached Fauna	Soft Sediment Fauna	Mobile Crustaceans on Hard or Mixed Substrates	Larger Tube-Building Fauna	Partially rippled coarse sand with shell hash and few pebbles. Sand tubes, few large with foraging juvenile snails or hermit crabs.
ASOW-22-NECCT-SPG-612	B	NECCT	N	Y	Y	Nassariid snail (2), Moon Snail (1), Diopatra (1)	N	None	Soft Sediment Fauna	Inferred Fauna	Mobile Mollusks on Soft Sediments	Tracks and Trails	Rippled fine to medium sand.
ASOW-22-NECCT-SPG-612	C	NECCT	Y	Y	Y	Nassariid snail (1), Cerianthid anemone (1)	N	None	Soft Sediment Fauna	NA	Mobile Mollusks on Soft Sediments	Burrowing Anemones	Rippled sands, sand tubes/possible tunicate at left.
ASOW-22-NECCT-SPG-612	D	NECCT	Y	N	Y	Moon Snail (1)	N	None	Inferred Fauna	NA	Fecal Mounds	None	Rippled sand, many fecal casts, tracks. Moon snail is co-occurring element.
ASOW-22-NECCT-SPG-616	A	NECCT	N	N	Y	Hydroids, Barnacles, Cerianthid anemone (1), Nassariid snail (1)	N	None	Attached Fauna	Soft Sediment Fauna	Attached Hydroids	Diverse Soft Sediments Epifauna	Encrusted boulder on rippled sand, some pebbles and granules. Sand tubes or possible tunicate just left of center of image.

Notes:

Plan View Image Analysis Results, Atlantic Shores Offshore Wind, 2022

							CMECS Substrate Classifications						
Station ID	Replicate	Location	Image Width (cm)[a]	Image Height (cm)[a]	Image FOV (cm^2)[a]	Image FOV (m^2)[a]	Substrate Class	Substrate Subclass	Substrate Group	Substrate Subgroup	Substrate Group Percent	Habitat Type	Ripples Presence and Wavelength (cm)

Plan View Image Analysis Results, Atlantic Shores Offshore Wind, 2022

								CMECS Biotic Classifications				
Station ID	Replicate	Location	Burrows	Tubes	Tracks	Epifauna, Infauna & Fish Types and Counts	Macroalgae Presence[b]	Eel Grass Types[c] and Counts	Biotic Subclass	Co-occurring Biotic Subclass	Biotic Group	Co-occurring Biotic Group	Comments
						Bolded Stations = single replicate transect stations							
						CMECS = Coastal and Marine Ecological Classification Standard							
						E = epifauna							
						FOV = field of view							
						I = emergent infauna							
						Ind = indeterminate							
						MA = macroalgae							
						N = no							
						NA = not applicable							
						PV = plan view							
						SPI = sediment profile imaging							
						Y = yes							

[a] Blank cells indicate scaling lasers were not visible in images. Dimensions in image library are an approximate.
[b] Macroalgae: N = none; T = Trace (<10%); S = Some (10–25%); C = Common (>25% to 100%).
[c] Eel grass types include : Brown, Detached, Green, and Detrital