

Dataset Originator: *Frank O. Nitsche, Timothy Kenna, Cecilia McHugh*

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Dataset Title: *LIS phase 3A LDEO sediment grab surface photos*

Online Linkage: *<http://www.marine-geo.org/portals/lis/>*

Abstract: *Still images of each sediment grab were taken for the Long Island Sound mapping phase 3A project. The images were taken during the LIS2301 surveys in June 2023 using a Canon PowerShot camera on the research vessel Weicker. After the sediment grab sampler was retrieved each side of the grab sampler was photographed. The different images are labeled A and B. For location the images were tagged with the location recorded for the sediment grab station.*

Dataset purpose: *Surface images were collected to get a better overview of the in-situ sample from which a sub-sample was taken for later analysis. The surface image also records any shells or rocks or pebbles that might be excluded from later analysis.*

Time period of content: *2023-06-12 to 2023-06-15*

Dataset Status: *complete*

Update Frequency: *'none planned'*

Theme Keywords: *Long Island Sound, sediment grabs, sample image*

Access Constraints: *none*

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Data should not be used for navigation purposes.

Point of Contact: *Frank Nitsche, Lamont-Doherty Earth Observatory of Columbia University, fnitsche@ldeo.columbia.edu*

Dataset Credit: *LIS mapping project, Frank O. Nitsche, Timothy Kenna, Cecilia McHugh*

Data Quality Considerations: *These are processed data.*

Attribute accuracy: *The location is based on the ship DGPS for grab locations. Location offset between ship GPS antenna and grab sampling device, and drift of grab sampling device in water have not been corrected.*

Completeness: *The dataset is complete.*

Positional accuracy: *Location is based on DGPS using the ship GPS antenna. Lateral offset between ship GPS antenna and grab sampling device, and drift of grab sampling device in water have not been corrected. The resulting absolute uncertainty could be of the order of 5-10m.*

Process Steps: *The images were taken during a survey in 2023 using a Canon Powershot camera. Several images were taken from both sides of the grab sampler and the best one for each side was selected. An exiftool script was used to add the location to the jpeg file.*

Attributes: none.

Metadata reference: *Frank Nitsche, Lamont-Doherty Earth Observatory of Columbia University, fnitsche@ldeo.columbia.edu*