

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

Publication Date: *2025-08-11*

Dataset Title: *LIS phase 4B LDEO sediment grab surface photos*

Online Linkage: *<https://www.marine-geo.org/collections/#!/collection/LIS>*

Abstract: *Still images of each sediment grab were taken for the Long Island Sound mapping phase 4B project. The images were taken during the LIS2302 and LIS2303 surveys in August and November 2023 respectively using a Canon PowerShot camera on the research vessels Pritchard and Seawolf respectively. 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: *2023-08-14 to 2023-11-18*

Dataset Status: *complete*

Update Frequency: *'none planned'*

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

Access Constraints: *none*

Use Constraints: Data and metadata are licensed under a [Creative Commons Attribution-Noncommercial-Share Alike 3.0 United States License](#). Appropriate acknowledgment with a byline/credit/link **must** be given to both the original scientists/data contributors by reference to their relevant publications and to the Marine Geoscience Data System (www.marine-geo.org). Where citation information has been provided to us by scientists it is included with the relevant database entries, and should be acknowledged when data are used. You may browse freely, but you may not circulate or publish materials you obtained from this site if you do not accept the terms of providing adequate citation.

Data are provided with the express understanding that they will not be sold to third parties or included in commercial databases.

Users are strongly encouraged to contact the original investigators responsible for data made available on this site. Where appropriate, researchers are also encouraged to consider collaboration and/or co-authorship with original investigators.

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*