

Resource Summary Report

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Lamont-Doherty Core Repository

RRID:SCR_002216

Type: Tool

Proper Citation

Lamont-Doherty Core Repository (RRID:SCR_002216)

Resource Information

URL: <http://www.ldeo.columbia.edu/core-repository>

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Description: Core repository and one of the world's most unique and important collections of scientific samples from the deep sea. Sediment cores from every major ocean and sea are archived at the Core Repository. The collection contains approximately 72,000 meters of core composed of 9,700 piston cores; 7,000 trigger weight cores; and 2,000 other cores such as box, kasten, and large diameter gravity cores. They also hold 4,000 dredge and grab samples, including a large collection of manganese nodules, many of which were recovered by submersibles. Over 100,000 residues are stored and are available for sampling where core material is expended. In addition to physical samples, a database of the Lamont core collection has been maintained for nearly 50 years and contains information on the geographic location of each collection site, core length, mineralogy and paleontology, lithology, and structure, and more recently, the full text of megascopic descriptions. Samples from cores and dredges, as well as descriptions of cores and dredges (including digital images and other cruise information), are provided to scientific investigators upon request. Materials for educational purposes and museum displays may also be made available in limited quantities when requests are adequately justified. Various services and data analyses, including core archiving, carbonate analyses, grain size analyses, and RGB line scan imaging, GRAPE, P-wave velocity and magnetic susceptibility runs, can also be provided at cost. The Repository operates a number of labs and instruments dedicated to making fundamental measurements on material entering the repository including several non-destructive methods. Instruments for conducting and/or assisting with analyses of deep-sea sediments include a GeoTek Multi-Sensor Core Logger, a UIC coulometer, a Micromeritics sedigraph, Vane Shear, X-radiograph, Sonic Sifter, freeze dryer, as well as a variety of microscopes, sieves, and sampling tools. They also make these instruments available to the scientific community for conducting analyses of deep-sea sediments. If you are interested in borrowing any field equipment, please contact the Repository Curator.

Abbreviations: LDEO-DSSR, LDCR

Synonyms: LDEO-Deep Sea Sample Repository, LDEO Core Repository, Lamont - Doherty Earth Observatory

Resource Type: access service resource, core facility, service resource

Keywords: deep sea, sediment, ocean, sea, geoscience, metadata

Funding: NSF ;
Lamont -Doherty Earth Observatory

Availability: Free, Freely available

Resource Name: Lamont-Doherty Core Repository

Resource ID: SCR_002216

Alternate IDs: DOI:10.26022, DOI:10.17616/R3PV10, nlx_154738

Alternate URLs: <https://doi.org/10.17616/R3PV10>, <https://doi.org/10.17616/r3pv10>, <https://doi.org/10.26022/>, <https://dx.doi.org/10.26022/>

Record Creation Time: 20220129T080212+0000

Record Last Update: 20260905T133322+0000

Ratings and Alerts

No rating or validation information has been found for Lamont-Doherty Core Repository.

No alerts have been found for Lamont-Doherty Core Repository.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.