



MBLWHOI
LIBRARY

Annual Report for the year 2021

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From the Co-Directors:

The MBLWHOI Library staff provided high quality services to the Woods Hole scientific community during another year of dealing with issues resulting from COVID restrictions. The Lillie Library office continued to be staffed and welcomed patrons back to the reading rooms in the spring. The Data Library and Archives staff all returned to the office on a part-time basis starting in June. As the situation continued to evolve throughout the year, Library staff worked creatively to meet users' needs in a variety of circumstances.

Beyond the complexities of COVID, the Library works to evolve to meet researchers' needs. Data deposits in our institutional repository, WHOAS have risen exponentially and staff members serve as a resource for best practices. The MBLWHOI Library continues to leverage new technologies to support research. In 2021 we added Altmetric Explorer for Institutions and LibKey. The addition of LibKey streamlines researcher access to pdfs from publishers and open access sources. The addition of the Altmetric Explorer subscription allows the Library, institutional staff and researchers to evaluate the impact of scientific research from a wider range of sources.

- Lisa Raymond and Jen Walton

- **Library Staff**

Lisa Raymond, Co-Director MBLWHOI Library, Director of Library Services at WHOI

Jennifer Walton, Co-Director MBLWHOI Library, Director of Library Services at MBL

Kirill Batyuk, Systems/Metadata Librarian

Brett Freiburger, WHOI Archivist

John Furfey, Senior Automation Services Officer

Audrey Mickle, Data Librarian

Matthew Person, Tech Services Coordinator

Debbie Roth, Repository Manager

Nancy Stafford, Resource Sharing/Cataloging Librarian

- **Library Volunteers**

Herbarium: Volunteer Hours

In 2021, there were 366.5 volunteer hours contributed by 8 volunteers, as follows:

Lorene Boyd	11.75
Carol Knox	32.75
Vicki Lefevre	37
Pamela Polloni	218
Jan Salick	33
Donald Schall	19
Joe de Veer	9
Jacqueline Webster	6

● Activities and Services

Library activities and services center around the missions of the institutions served. Built upon a foundation of core services, the Library has developed and continues to develop additional programs and projects to meet the growing needs of its users.

Core Library services include:

- Acquisitions and management of collections, including monographs, serials and databases
 - Citation management
 - Course reserves
 - Institutional archives
 - Instructional programming and public outreach
 - Interlibrary loan
 - Reference services
 - Records management
 - Remote access to electronic resources
 - Working space
-

● Consortial Activities

As a long-term Boston Library Consortium member all Library staff members have the opportunity to expand their roles through participation at the management, project, and Communities of Interest (COI) levels. The roles ultimately enhance the services offered to the MBLWHOI Library Community. These BLC Communities of Interest, Working Groups, and leadership roles are filled by our librarians:

- Technology COI
- Alma / Primo COI
- Continuing Resources and Metadata Management COI, Co-chair
- EAST (Eastern Academic Scholars Trust) - Member Representative and Serials Working Group
- AUL COI
- Special Collections COI
- Controlled Digital Lending Working Group
- Heads of Resource Management Committee
- BLC Board of Directors

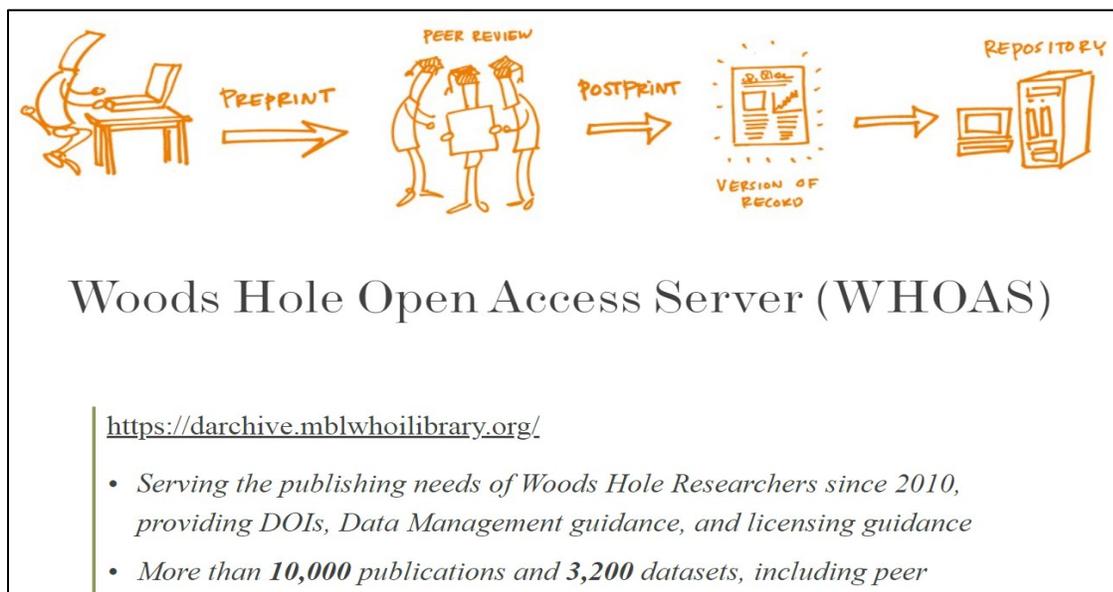
The Library continues its role contributing staff time to the operation of the **BHL Biodiversity Heritage Library**. Since its 2007 founding the BHL has been aware that scanning and making freely accessible historical scientific literature would also

illuminate inequities and imbalances in the history of scientific literature. To this end the BHL Collections Committee, on which the Tech Services Coordinator serves, developed this [Acknowledgement of Harmful Content](#). This acknowledges the existence of such content in the BHL corpus and commits to retaining the content as originally published as integral to the historic record. MBLWHOI Librarians have for many years and continue to be sensitive and open to discussion of any topic brought up in the community to better understand the history of science as related to today's world discourse and conversations in Woods Hole. In 2021 the Library also made its annual contribution to the [BHL Blog](#) which told the story of the extinction of the Heath Hen as reported by the MBL publication the Collecting Net in 1930.

- **Library Instruction, Outreach, and Events**

Open Access Week 2021

As a result of staff librarians meeting regularly throughout 2021 to discuss different aspects of open access development on campus, [this educational graphic](#) was developed with helpful information and links plus contact information to staff members who are able to assist users in navigating the OA tools and services landscape. This OA graphic, (a detail of which is shown below) was released on our website in conjunction with International Open Access Week 2021.



Above detail from library website: <https://bit.ly/3HSBudX>

Library social media outreach through Twitter, Facebook, Instagram, and library blog posts on our website are invaluable tools to communicate with locals and communities outside of Woods Hole. Library blog posts, seen and linked to from the library home page inform and alert users to news and tools, and other salient information. Of note the WHOI Archivist posted an interesting series of [Instagram posts](#) throughout 2021 showing video highlights from the history of WHOI, snippets which only an archivist would be able to capture and share with the community. In 2021 Twitter posts were seen a total of 98,100 times.

A snapshot of the Library Blog, below.

The image is a screenshot of a library blog's 'Latest News' section. It features four news items, each with a circular image on the left and text on the right. The first item has a green water drop icon. The second has a black and white photo of a man looking at a boat. The third has an orange padlock icon with the words 'OPEN ACCESS'. The fourth has a screenshot of a website interface.

Latest News

 **LibKey Delivers One-click Access to Millions of PDF and HTML Articles**
The Library now has a license to LibKey. We have set it up so that when you search in our catalog you can go directly to items we subscribe to or an open access version if available.
LibKey Link delivers one-click access to millions of PDF and HTML articles from your favorite database such as Google Scholar or Web of Science. Use the link provided to get instant access to content.

 **Scholarly Communications Librarian John Furfey moves on**
Sixteen years ago, newlywed librarian John Furfey returned to his hometown of Falmouth and began a journey of leadership at the MBLWHOI Library which had him rewrite the system of service to Woods Hole scientists. This week he moves on to a new challenge.

 **Celebrate Open Access Week with the MBLWHOI Library**
Are you interested in improving the visibility of your research? Creating a more just and global science community? Celebrate Open Access Week with the MBLWHOI Library. Check out our [social media posts](#) from this week and [this presentation of Open Access resources](#) available to the Woods Hole community.

 **The new Web of Science is coming**
Regular users of Web of Science will have seen the notice on the current landing page to check out the **new version**. On July 7, 2021, all users will be automatically taken to the new Web of Science platform

- **Data Activities**

The WHOI Co-Director is a member of the AGU, the Research Data Alliance and the Council of Data Facilities, participating in remote meetings during 2021. The Repository Manager is participating in the PID Instruments RDA group. The Data Librarian and Repository Manager participate in activities of the Earth Science Information Partners (ESIP).

The Data Librarian and the Repository Manager co-host a weekly “data science office hour” with other WHOI data scientists. The data science office hour is for discussions and questions about how data science can advance research and engineering at WHOI.

The Repository Manager attended Northeast Institutional Repository Day.

The Data Librarian ingested 19 UNOLS cruise packages and prepared submission to the R2R repository. The Data Librarian also co-led a SQL training session for WHOI staff.

The Data Library and Archives successfully applied for a grant from the Council on Library and Information Resources Recordings at Risk program for \$47,900 to migrate early Alvin film and Video.

- **Bibliometrics and Institutional Research Services: Outreach and partnerships**

While tracking citations to researcher’s work in scientific publication continues to be an important factor for showing research impact, it is now just one factor in showing the impact of a researcher's work. The Library has incorporated free tools such as Altmetric to track the wider impact of scientific publications. In 2020, the Library partnered with MBL Communications to purchase Altmetric Explorer that allows for expanded opportunities to track traditional and social media attention given to research at the Institutions.

The Library assisted researchers across the institutions to provide evidence of research outputs and collaborations. Requests were made on an as needed basis to support new funding opportunities as well as grants reporting. The Library continues to track publication and bibliometric data for a number of Woods Hole scientific initiatives including:

- All courses at the MBL
- National Deep Submergence Facility at WHOI

- National Ocean Sciences Accelerator Mass Spectrometry facility at WHOI
 - Ocean Observatories Initiative at WHOI
 - National Xenopus Resource at MBL
 - Central Microscopy Facility at MBL
 - WHOI OBSIC program
 - WHOI/MIT Joint program
 - WHOI Sea Grant
 - Martha's Vineyard Coastal Observatory at WHOI
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- **2021 Interlibrary Loan Statistics**

Interlibrary loan services during the year provided much needed assistance to users working remotely due to the pandemic. While physical access to the library was closed, our patrons received article requests electronically and book requests thru interoffice mail delivery.

Top 5 Journals: Articles borrowed from ILL partners

- Nature sustainability
- Briefings in functional genomics
- American journal of human genetics
- Biochemical pharmacology
- Food and chemical toxicology

Top 5 Journals: Articles requested by ILL partners

- Journal of experimental marine biology and ecology
- Nature ecology & evolution
- Marine biology
- Journal of fluid mechanics
- Nature climate change

Interlibrary Loan

Borrowing Statistics	2021	2020	2019
Articles	453	776	1136
Books	65	75	170
Total	518	2186	2523

Lending Statistics	2021	2020	2019
Articles	1479	2112	2351
Books	78	74	172
Total	1557	2186	2523

Library Collections

Circulation Statistics	2021	2020	2019
Items Charged	258	132	577
Renewals	6	770	626
Items Discharged	90	144	444

● Circulating Collection Accessions

MBL Book Stacks	24
Data Library and Archives*	14
*includes monographs, tech reports and thesis	

Item Count by Location

FTP

MBL Special Collections	1,441
Service Center at FTP	25,137
Total	25,578

MBL

Booking	11
Abstracts - Stack 1	55
Agassiz Room	137
Bay Room	527
Book Stacks	13,515
Journals	8,399

Rare Book Room	5,622
Total	28,266

WHOI

Archives	6,470
DLA Library Office	1
Data Library	31,424
Dive Locker Collection	809
Farrington Library	315
Herbarium	205
Microfiche	47
PO Fofonoff Library	598
Shepard Reading Room	404
Thompson Reading Room	102
Total	40,375

• Serials and Journals Collections

Top 20 titles Woods Hole authors were published-in 2021

- PNAS (23)
- JGR Oceans (23 articles)
- Geophysical Research Letters (20)
- Nature Communications (15)
- Nature (14)
- Science of the Total Environment (14)
- Frontiers in Marine Science (14)
- Earth and Planetary Science Letters (12)
- Global Biogeochemical Sciences (12)
- JGR Solid Earth (12)
- Science Advances (12)
- Scientific Reports (11)
- Journal of Physical Oceanography (10)
- CG: Isotope Geoscience (9)
- JGR Biogeosciences (8)
- Journal of the Acoustical Society of America ASA (7)
- Limnology and Oceanography (7)
- eLife (7)
- Estuaries and Coasts (6)
- G3 (6)

Information source: Symplectic Elements

Subscribed to titles 2021

Electronic	822
Print	18
Freely accessible open access titles	a few thousand +

	2020	2019	2018	2017
Journal articles accessed	111,410*	126,743	196,112	170,781

*Pandemic caused changes were reflected in journal usage in 2020 (usage increased in 2021).

In the continuation of the pandemic year in 2021, many publishers responded globally by **moderating or not raising their prices for annual journal subscriptions**. This meant that pre-pandemic annual price increases of 5-8 percent annually were closer to a 2 percent price overall increase from 2020 to 2021. Part of the price moderation pressure came from messages from well-endowed universities and smaller institutions such as MBLWHOI which have made it clear to publishers that there is no annual blank check available to institutions to pay for periodicals.

The **Library Open Access staff discussion group** allows staff members to keep abreast of OA developments which impact serials, data management, scholarly communications, and open access repository services. The Tech Services Coordinator attends virtual meetings of the OA Community of Practice, which is an international forum where libraries speak of the different pathways available to bring OA to their campus. The following formerly subscription-based titles have become freely available open access titles in recent years: G3, Natural Resource Modeling, Ecography, Space Weather, Genomics, Journal of Sea Research, Ecological Indicators, Earth, Planets, Space, Journal of Lipid Research, and Journal of Biological Chemistry.

The **stacks weeding and retention project** consolidates space to make accessible the most used titles in our historic paper books and journals collection. “Weeding” is used by libraries to improve their collections. From Lillie top stack 5 alone we have weeded about 300 shelves of journals in the last couple of years, or 18 percent of the stack. When we are the only library which holds a title in North America, we will hold that title in perpetuity on behalf of the entire science community. Other free and permanently available online titles may give up space in the stacks to further space consolidation. In this way we curate our collection to better serve the missions of the Library and the Woods Hole institutions.



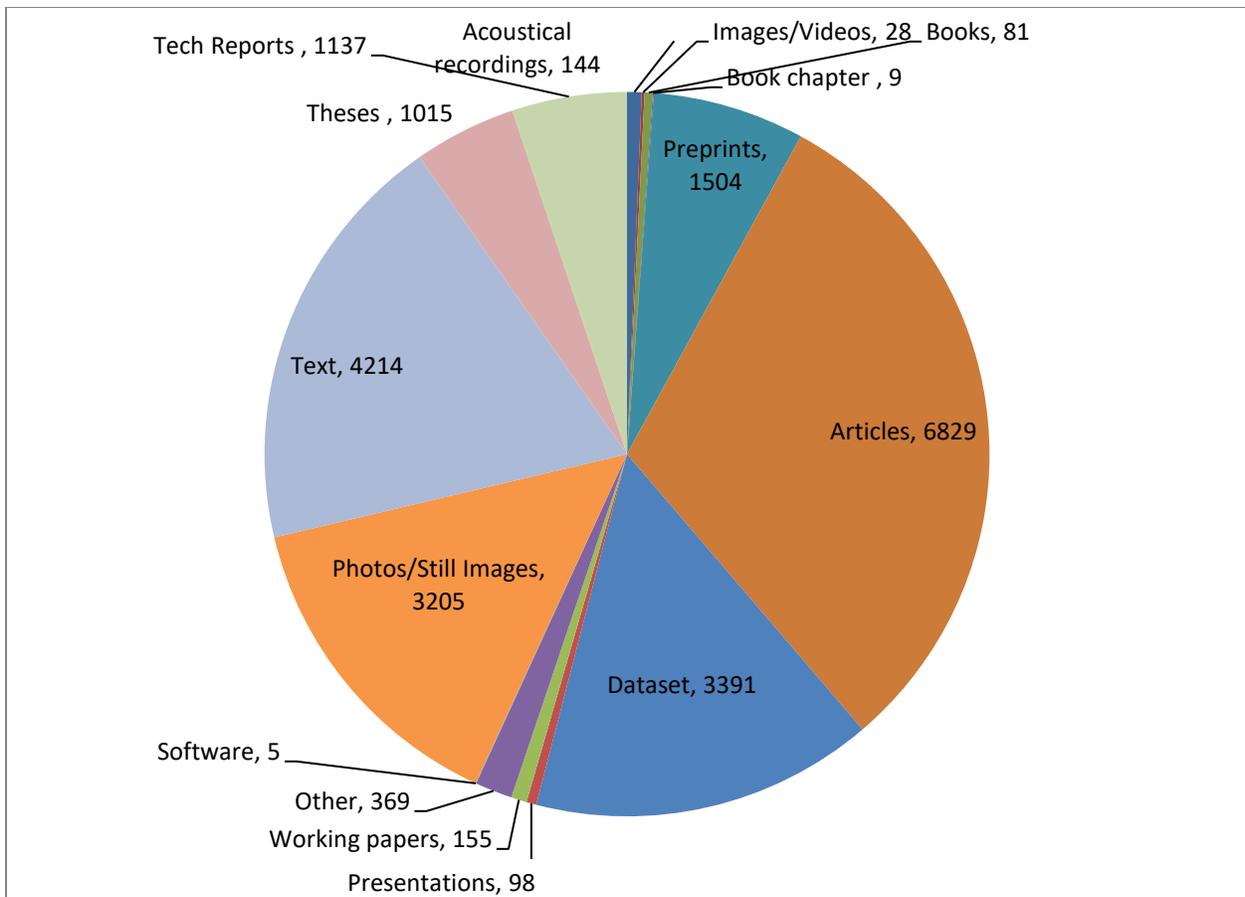
2021 Pandemic period use of Bay Reading Room was restricted to one student/researcher per table. Reading room use was steady through the Summer and the Fall for the students attending on site courses.

- **Woods Hole Open Access Server (WHOAS) Institutional Repository**

WHOAS continues its steady growth track, having added 648 new metadata records and their associated digital objects in the 12-month period ending December 2021. The Repository Manager deposited 67 datasets in 2021. The average in the previous years was less than 10 dataset deposits per year.

At the close of the period, metadata records totaled 22,184, 1,148 of which are from the International Association of Aquatic and Marine Science Libraries and Information Center (IAMSLIC). There were 40,384 sessions last year with 77,333 pageviews, and 503,789 DOI resolutions.

The Data Librarian and Repository Manager have been collaborating on further improvements to the WHOAS Repository. APA 7 format citations were added to all 1137 Technical Reports. The Data Librarian, Repository Manager, and the IT Librarian coordinated the WHOAS server migration to increase functionality.



WHOAS repository contents pie chart.

● WHOI Archives

Archives by the Numbers

New Accessions - 8

Updated Archive Space Records – 233

Reference Requests, total - 72

 Outside WHOI - 43

 Internal Requests - 29

Reference Topics

 General - 38

 Research - 20

 Images - 11

 Obituaries - 3