Annual Report for the year 2022
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From the Co-Directors:

In 2022, the MBLWHOI Library returned to pre-pandemic services as well as growing in new directions. The Library offices and reading rooms are open and welcoming local patrons, visiting researchers, students and tours. The reading rooms, lobby, and Library office at MBL were refreshed and updated.

Two new staff members joined our team in 2022 bringing strong skills, positive energy, and enthusiasm for adopting new tools. The Library staff continue to move on the cutting edge of quality services with new tools such as Archivematica, Artificial Intelligence (AI), and Read and Publish Licenses for journals.

Great things are happening in the Library, stop by to check things out or request online training or introduction to any tools – new or old. We look forward to assisting you.

· 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  
John Furfey, Senior Automation Services Officer  
Audrey Mickle, Data Librarian  
Matthew Person, Tech Services Coordinator  
Samantha Porter, Scholarly Communications Librarian  
Debbie Roth, Repository Manager  
Nancy Stafford, Resource Sharing/Cataloging Librarian  
Karen Urbec, WHOI Archivist

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• **Library Volunteers**

Volunteer hours in the library and in the Herbarium  
In 2022, there were 674.5 volunteer hours contributed by 7 volunteers. Our volunteers were:  
Lorene Boyd  
Carol Knox  
Vicki Lefevre  
Tom Pilitz  
Pamela Polloni  
Jan Salick  
Jacqueline Webster

Carol Knox, Vicki Lefevre, Pamela Polloni, Jan Salick, and Jacqueline Webster volunteered in the Herbarium. Lorene Boyd's volunteer work included inventorying media resources. Tom Pilitz's volunteer work included digitizing and analyzing reduced data cards from the Legacy Data Collection.

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• **Activities and Services**

Through much of 2022, the Library in Lillie was only accessible with card access during staffed hours due to COVID protocols on MBL campus. In October, the MBL doors were unlocked during business hours and card holders could request evening and weekend access to the Library.
Core 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

BLC
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:
- **Jennifer**: Special Collections COI, Associate University Librarians Communities of Practice (COP)
- **Kirill**: Technology COI, Alma/Primo COI, OCLC Steering Committee
- **Audrey**: Head of Resource Management Standing Committee (SC)
- **Matt**: Continuing Resources and Metadata Management COI Co-chair, EAST Serials Working Group
- **Sam**: Health Sciences COI
- **Debbie**: Science and Engineering COI
- **Nancy**: Heads of Resource Sharing Standing Committee (SC), Resource Sharing COI
- **Karen**: Equity, Diversity, and Inclusion COI, Special Collections COI

IODE
The MBLWHOI Library continues to serve as an Associated Information Unit of the "International Oceanographic Data and Information Exchange" (IODE) of the "Intergovernmental Oceanographic Commission" (IOC) of UNESCO. In addition, Jennifer Walton served as co-chair and Lisa Raymond as an invited expert on the AquaDocs Steering Group. AquaDocs is a joint repository for IODE and IAMSLIC.
IAMSLIC
Jennifer Walton served as the Secretary and Lisa Raymond as Archivist for the International Association of Aquatic and Marine Science Libraries and Information Centers

BHL
With close to 300,000 freely accessible biodiversity volumes (over 12,500 of which contributed by MBLWHOI), the Library continues to be an active affiliate of the Biodiversity Heritage Library. Jennifer Walton represents the Library in the global BHL Consortium, and Matthew Person serves on the Collections Committee.

- Library Instruction, Outreach, and Events

Open Access Week 2022
The Open Access staff group met during 2022 to discuss developments in the Open Access landscape. A series of 3 Library blog posts were produced on: the new White House OST Open Access Policy, “Open for Climate Justice”: Woods Hole and the OA Week theme, and (earlier in the year), the new Read and Publish COB open access publishing agreement. These and other Library blog posts may be seen here.

Above graph shows open vs. closed access UN Sustainable Development Goals related publications by Woods Hole authors. (Graph: Audrey Mickle)
Lillie Library Rare Books and Library Instruction

New exhibits were in the Library lobby and Bay Reading Rooms. The Bay Room exhibit, created by Anna Guerro, demonstrates the ways that microscope technology has changed the ways that scientists see and understand cells. The lobby exhibit illustrates some of the ways that organisms, people, and emerging technologies have led to discoveries at MBL.

As the institutions continued to return to on-campus work, the demand for in person library instruction grew as well. The Library in person Orientations and Library Instruction sessions returned for SEA, University of Chicago Undergraduates, and SES. In addition, the Library offered Rare Books Showings to 60 groups in 2022.

Lunch and Learn Programs

Libkey program
Kirill Batyuk and Nancy Stafford shared information on improvements to research tools and expedited access to journal publications using Libkey, an online tool which streamlines access to articles. This program also covered new ways of searching the Library catalog and placing Interlibrary Loan requests.
Social Media
The highlight of our social media work in 2022 was the weekly posts of WHOI Archivist Karen Urbec on Instagram and Facebook which highlighted the history of the WHOI DSV Alvin. A Council on Library and Information Resources grant provided the funding to digitize over 400 Alvin moving images. In sharing these clips on social media, we hope to encourage more people to engage with these groundbreaking historic images.

Some highlights of the Library Instagram feed, including Alvin historical clips.
● Data Activities

The WHOI Library Director/Co-Director of the joint MBLWHOI Library is a member of the AGU, the Research Data Alliance, and the Council of Data Facilities, participating in remote meetings during 2022. 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 and presented “WHOAS: DSpace 7.2 migration” as a lightning talk.

The Data Librarian ingested 34 UNOLS cruise packages and prepared submission to the R2R repository.

The Data Library and Archives successfully completed the Council on Library and Information Resources Recordings at Risk grant for $47,900 to migrate early Alvin film and video. All the 419 video files were cataloged and uploaded into our repository system. Several requests for video data have already been fulfilled. The Data Librarian presented a poster at the International Oceanographic Data and Information Exchange (IODE) conference while attending virtually.

The NIH’s new Data Management and Sharing Policy went into effect on January 25th, 2023. To prepare for the implementation of this new policy, the Data Librarian and the Scholarly Communications Librarian reviewed the Data Management and Sharing Plan templates available to WHOI and MBL users in DMPTool and created a video tutorial to educate users about changes in the new policy.

● Bibliometrics and Institutional Research Services: Outreach and Partnerships

Tracking and measuring the scientific research output of individuals, departments, and organizations across the Woods Hole Scientific Community continues to be an important service the MBLWHOI Library provides.

Long time staff member John Furfey left the Library in January of 2022 and was replaced by Samantha Porter, filling the role of Scholarly Communications Librarian in May 2022.
Outreach efforts were made this year to educate our users about the use and benefits of Symplectic Elements and Altmetric Explorer. The MBL Library Director/Co-Director and Scholarly Communications Librarian have continued to work with the MBL Communications Department to implement the integration of Elements and Altmetric on the MBL website. This integration would automatically feed the Publications pages of MBL’s Research Centers with new publications by MBL authors and add Altmetric badges to those publications, streamlining the manual process currently in place.

The Library continues to track publication and bibliometric data for the following departments and initiatives:

- All new MBL and WHOI publications
- All courses at the MBL
- National Deep Submergence Facility (WHOI)
- National Ocean Sciences Accelerator Mass Spectrometry facility (WHOI)
- Ocean Observatories Initiative (WHOI)
- National Xenopus Resource Center (MBL)
- Central Microscopy Facility (MBL)
- Ocean Bottom Seismic Instrument Center (WHOI)
- MIT/WHOI Joint Program
- WHOI Sea Grant
- Martha’s Vineyard Coastal Observatory (WHOI)
- Eugene Bell Center (MBL)
- Josephine Bay Paul Center (MBL)
- Physical Oceanography (WHOI)

Additional assistance is provided on an as needed basis to collect publication and bibliometric data that supports grant and funding proposals and reporting.

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**2022 Interlibrary Loan Statistics**

Interlibrary Loan supports the library’s mission by providing the affiliated scientific community with access to print and electronic materials beyond the MBL WHOI Libraries carefully curated collection.

The Borrowing unit provides our affiliated users with rapid article or book chapter delivery and generous book loans from a vast network of local, statewide, national, and international libraries as well as from document suppliers.

The Lending unit supplies MBLWHOI Library owned materials to other libraries - articles are shared worldwide and books are loaned within the United States.
Both borrowing and lending requests are made through ILLiad, the software used by the Library. As a member of the Boston Library Consortium and thru participation in the BLC’s Resource Sharing Community of Interest, ILL staff are involved with setting ILL policies and Best Practices which are then reviewed and revised annually to take advantage of developments in the field.

The MBLWHOI Library complies with U.S. Copyright Law (Title 17, U.S. Code) and adheres to the principles of the ILL Code for the United States.

The MBLWHOI Library continues to be a ‘net lender’ of materials and in doing so maintains the trust we have developed with our partners. By providing them with the quality and rapid turnaround time they rely on we, in turn, can count on the same exceptional service which our patrons thank us for all the time.

### Interlibrary Loan

<table>
<thead>
<tr>
<th>Borrowing Statistics</th>
<th>2022</th>
<th>2021</th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Articles</td>
<td>838</td>
<td>453</td>
<td>776</td>
</tr>
<tr>
<td>Books</td>
<td>64</td>
<td>65</td>
<td>75</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>902</strong></td>
<td><strong>518</strong></td>
<td><strong>851</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lending Statistics</th>
<th>2022</th>
<th>2021</th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Articles</td>
<td>1305</td>
<td>1479</td>
<td>2112</td>
</tr>
<tr>
<td>Books</td>
<td>86</td>
<td>78</td>
<td>74</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1391</strong></td>
<td><strong>1557</strong></td>
<td><strong>2186</strong></td>
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</table>

### Library Collections

<table>
<thead>
<tr>
<th>Circulation Statistics</th>
<th>2022</th>
<th>2021</th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Items Charged</td>
<td>395</td>
<td>258</td>
<td>132</td>
</tr>
<tr>
<td>Renewsals</td>
<td>10</td>
<td>6</td>
<td>770</td>
</tr>
<tr>
<td>Items Discharged</td>
<td>94</td>
<td>90</td>
<td>144</td>
</tr>
</tbody>
</table>
• Circulating Collection Accessions

FTP 4
MBL 11
WHOI 108

• Item count by location

FTP
MBL Special Collections 1,440
Service Center at FTP 25,139
Total 26,579

MBL
Booking 11
Abstracts · Stack 1 55
Agassiz Room 137
Bay Room 520
Book Stacks 13,529
Journals 8,399
Rare Book Room 5,622
Total 28,273

WHOI
Archives 6,510
DLA Library Office 1
Data Library 31,353
Dive Locker Collection 809
Farrington Library 315
Herbarium 211
Microfiche 47
PO Fofonoff Library 599
Shepard Reading Room 403
Thompson Reading Room 102
Total 40,350
• **Serials and Journals Collections**

Most published in titles 2022
- Frontiers in Marine Science (39)
- Geophysical Research Letters (35)
- Journal of Physical Oceanography (24)
- Nature Communications (21)
- PNAS (18)
- Biophysical Journal (17)
- Geochemistry, Geophysics, Geosystems (13)
- Journal of the Acoustical Society of America (13)
- Nature (13)
- Oceanography (13)
- Scientific Reports (12)
- Geochimica et Cosmochimica Acta (11)
- Biogeosciences (10)
- Global Biogeochemical Cycles (10)
- Limnology and Oceanography (10)

**Subscribed to titles 2022**
- Electronic 861
- Print 12
- Freely accessible open access titles: a few thousand +

<table>
<thead>
<tr>
<th></th>
<th>2021</th>
<th>2020</th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Journal articles accessed</td>
<td>143,298</td>
<td>111,410*</td>
<td>126,743</td>
<td>196,112</td>
</tr>
</tbody>
</table>

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

**Landmark Read and Publish OA agreement signed**

In 2022 we continued to monitor opportunities in open access publishing and how this impacts the Woods Hole scientific community. The Library negotiated a Read and Publish Agreement with The Company of Biologists (COB), the nonprofit British publisher of the journals Development, Journal of Cell Science, Journal of Experimental Biology, Disease Models and Mechanisms, and Biology Open. This agreement repurposes our annual subscription payment to COB to pay open access article processing charges for scientists who are lead authors of articles from MBL, WHOI, SEA, WCRC, and USGS (Woods Hole.) All library users are also now able to freely access all Company of Biologists published content. “Read and Publish” is but one model of open access which publishers have developed to move beyond the traditional subscription model to a more fair, cost effective, and sustainable way of publishing scientific content. Other OA models are being developed by publishers, and the MBLWHOI Library works to participate in OA agreements with not-for-
profit publishing houses and projects such as Annual Reviews, the Microbiology Society, and SCOAP 3, all of which seek to publish at cost. This means library subscription dollars are transformed to a single annual fee which also covers the cost of individual scientist-funded OA article processing fees.

The long term stacks weeding and collaborative serials retention project continued during 2022.

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

WHOAS continues its steady growth track, having added 703 new metadata records and their associated digital objects in the 12-month period ending December 2022.

At the close of the period, metadata records totaled 22,601, 1,151 of which are from the International Association of Aquatic and Marine Science Libraries and Information Center (IAMSLIC). There were 48,085 sessions last year with 96,703 pageviews, and 618,160 DOI resolutions.
• WHOI Archives

Highlights of the year for the DLA Archives include researchers who traveled from away, digitization of analog collections, and the successful completion of our largest digitization project yet, thanks to funding from the Council on Library and Information Resources.

In a further return to normalcy, outside researchers visited the archives during 2022, studying such topics as US-Soviet scientific collaboration during the Cold War, the growth of environmental sciences during the Cold War era, underwater sound recording techniques, horseshoe crab conservation, and an upcoming biography of Henry Bryant Bigelow.

In other Bigelow news, this year the Henry Bryant Bigelow manuscript collection was digitized and made available online via WHOAS. This collection was selected because of Bigelow’s importance to WHOI and because this one-box collection was an attainable goal and test case to begin digitizing the analog collections. Future plans include continuing to digitize more analog collections so they can be accessed by more researchers.
Our biggest accomplishment this year was easily the success of our CLIR grant, where we digitized 419 Alvin films and videos. This project allowed us to rescue fragile moving image media, preserving historic original Alvin images while also making them available online.

The archives renewed our contacts with Digital Commonwealth and look forward to them harvesting the Bigelow and Alvin film metadata so it can be included in the Digital Public Library of America.

**Archives by the Numbers**

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Accessions</td>
<td>31</td>
</tr>
<tr>
<td>Visiting Researchers</td>
<td></td>
</tr>
<tr>
<td>Days in the archives</td>
<td>22</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>7</td>
</tr>
<tr>
<td>Reference Requests</td>
<td></td>
</tr>
<tr>
<td>Outside WHOI</td>
<td>24</td>
</tr>
<tr>
<td>Internal Requests</td>
<td>31</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>55</td>
</tr>
<tr>
<td>Reference Topics</td>
<td></td>
</tr>
<tr>
<td>General</td>
<td>14</td>
</tr>
<tr>
<td>Research</td>
<td>21</td>
</tr>
<tr>
<td>Images</td>
<td>4</td>
</tr>
<tr>
<td>Obituaries</td>
<td>16</td>
</tr>
</tbody>
</table>