

# **Woods Hole Oceanographic Institution**

**Report on Federal Awards in Accordance with the  
Uniform Guidance**

**December 31, 2023**

**EIN #042105850**

# Woods Hole Oceanographic Institution

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December 31, 2023

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## **Report of Independent Auditors**

To the Board of Trustees of  
Woods Hole Oceanographic Institution

### **Report on the Audit of the Financial Statements**

#### ***Opinion***

We have audited the accompanying financial statements of Woods Hole Oceanographic Institution (the “Institution”), which comprise the statements of financial position as of December 31, 2023 and December 31, 2022, and the related statements of activities and of cash flows for the years then ended, including the related notes (collectively referred to as the “financial statements”).

In our opinion, the accompanying financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2023 and December 31, 2024, and the changes in its net assets and its cash flows for the years then ended in accordance with accounting principles generally accepted in the United States of America.

#### ***Basis for Opinion***

We conducted our audit in accordance with auditing standards generally accepted in the United States of America (US GAAS) and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Our responsibilities under those standards are further described in the Auditors’ Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of the Company and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audit. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

#### ***Other Matter***

We previously audited the statement of financial position as of December 31, 2022, and the related statements of activities and of cash flows for the year then ended (the statement of activities is not presented herein), and in our report dated July 14, 2023, we expressed an unmodified opinion on those financial statements. In our opinion, the information set forth in the accompanying summarized financial information for the year then ended is consistent, in all material respects, with the audited financial statements from which it has been derived.

#### ***Responsibilities of Management for the Financial Statements***

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America, and for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.



In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the Company's ability to continue as a going concern for one year after the date the financial statements are available to be issued.

### ***Auditors' Responsibilities for the Audit of the Financial Statements***

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with US GAAS and *Government Auditing Standards*, will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with US GAAS and *Government Auditing Standards*, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the Company's ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control-related matters that we identified during the audit.

### ***Supplemental Information***

Our audit was conducted for the purpose of forming an opinion on the financial statements as a whole. The accompanying schedule of expenditures of federal awards for the year ended December 31, 2023 is presented for purposes of additional analysis as required by Title 2 U.S. *Code of Federal Regulations* Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance) and is not a required part of the financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the financial statements. The information has been subjected to the auditing procedures applied in the audit of the financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used



to prepare the financial statements or to the financial statements themselves, and other additional procedures, in accordance with auditing standards generally accepted in the United States of America. In our opinion, the schedule of expenditures of federal awards is fairly stated, in all material respects, in relation to the financial statements taken as a whole.

**Other Reporting Required by *Government Auditing Standards***

In accordance with *Government Auditing Standards*, we have also issued our report dated July 22, 2024 on our consideration of the Company's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts and grant agreements and other matters for the year ended December 31, 2023. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing and not to provide an opinion on the effectiveness of internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the Company's internal control over financial reporting and compliance.

*PricewaterhouseCoopers LLP*

Boston, Massachusetts  
July 22, 2024

**Woods Hole Oceanographic Institution**  
**Statements of Financial Position**  
**December 31, 2023 and 2022**

	2023	2022
<b>Assets</b>		
Cash and cash equivalents, unrestricted	\$ 9,308,063	\$ 15,296,998
Cash and cash equivalents, restricted	36,508,259	30,074,299
Billed accounts receivable (net of provision for expected credit losses)	4,789,805	8,105,213
Unbilled accounts receivable	32,774,952	20,410,413
Receivable for investments sold	171,089,941	22,245,556
Other receivables	839,609	877,956
Inventory	3,433,344	3,267,226
Deferred charges and prepaid expenses	6,446,888	5,794,419
Deposits with trustees for construction	-	1,573,237
Pledges receivable, net (Note 5)	52,170,437	39,009,603
Right of use asset	189,018	224,553
Investments designated for retiree and active medical plans (Note 3 & 10)	8,866,786	9,396,946
Investments, pooled (Note 3)	323,431,125	442,922,825
Other assets	5,309,108	4,051,380
	<u>655,157,335</u>	<u>603,250,624</u>
Property, plant and equipment		
Land, buildings and improvements	233,742,048	226,291,720
Vessels and dock facilities	25,286,712	26,246,608
Laboratory and other equipment	53,728,911	52,265,248
Construction in process	5,797,968	3,103,312
	<u>318,555,639</u>	<u>307,906,888</u>
Accumulated depreciation	(199,646,739)	(187,298,611)
Net property, plant and equipment	<u>118,908,900</u>	<u>120,608,277</u>
Contributions receivable from remainder trusts, long-term, net (Note 6)	942,506	823,813
Total assets	<u>\$ 775,008,741</u>	<u>\$ 724,682,714</u>
<b>Liabilities</b>		
Accounts payable and other liabilities	\$ 28,178,399	\$ 20,590,535
Accrued payroll and related liabilities	14,083,224	12,998,172
Deferred revenue and refundable advances	3,097,143	1,501,124
Deferred fixed rate variance (Note 7)	3,306,200	4,203,722
Right of use liability	189,018	224,553
Accrued postretirement liability (Note 10)	19,601,470	20,521,433
Accrued pension liability (Note 9)	37,505,068	37,041,900
Bonds payable (Note 8)	76,482,751	78,371,087
Total liabilities	<u>182,443,273</u>	<u>175,452,526</u>
Net assets		
Without donor restrictions	70,486,409	70,415,581
With donor restrictions	522,079,059	478,814,607
Total net assets	<u>592,565,468</u>	<u>549,230,188</u>
Total liabilities and net assets	<u>\$ 775,008,741</u>	<u>\$ 724,682,714</u>

The accompanying notes are an integral part of these financial statements.

**Woods Hole Oceanographic Institution**  
**Statement of Activities**  
**Year Ended December 31, 2023**  
**With Summarized Financial Information for the Year Ended December 31, 2022**

	Without Donor Restrictions	With Donor Restrictions	2023	2022
<b>Revenues</b>				
Sponsored research				
Government	\$ 183,498,494	\$ -	\$ 183,498,494	\$ 159,260,338
Ships and submersibles operations	38,746,902	-	38,746,902	37,450,506
Subcontracts and nongovernment	25,697,406	44,149,219	69,846,625	75,070,349
Sponsored research assets released to operations	39,235,505	(39,235,505)	-	-
Fixed price awards	947,025	-	947,025	380,001
Education				
Joint program income	8,446,531	-	8,446,531	7,510,039
Endowment income	-	9,700,986	9,700,986	9,373,398
Education funds released from restriction	10,065,770	(10,065,770)	-	-
Education fees	368,303	-	368,303	297,046
Contributions and gifts	6,894,533	40,998,392	47,892,925	76,172,169
Contributions in kind	643,333	--	643,333	217,656
Investment return designated for current operations	4,395,044	-	4,395,044	4,246,132
Releases from restrictions	-	(24,770,676)	(24,770,676)	(13,328,349)
Fees	1,277,263	-	1,277,263	1,939,441
Rental income	552,800	-	552,800	566,402
Communication and publications	520,840	-	520,840	471,083
Other	2,332,035	-	2,332,036	2,797,825
Total revenues	<u>323,621,784</u>	<u>20,776,646</u>	<u>344,398,430</u>	<u>362,424,036</u>
<b>Expenses</b>				
Research	234,399,286	-	234,399,286	206,434,133
Marine operations	14,032,119	-	14,032,119	9,746,380
Academic programs	15,210,585	-	15,210,585	14,869,166
Other Institution activities	20,165,001	-	20,165,001	19,237,348
Un-sponsored research	6,937,159	-	6,937,159	5,317,696
Ships and submersibles	38,746,902	-	38,746,902	37,450,507
Total expenses	<u>329,491,052</u>	<u>-</u>	<u>329,491,052</u>	<u>293,055,230</u>
Change in net assets from operating activities	<u>(5,869,268)</u>	<u>20,776,646</u>	<u>14,907,378</u>	<u>69,368,806</u>
<b>Nonoperating revenue and expenses</b>				
Investment return greater than / (less than) amounts designated for sponsored research, education and current operations	4,458,763	22,078,014	26,536,777	(80,655,478)
Return on investments for retiree and active medical plans	1,684,136	-	1,684,136	(2,872,006)
Net realized/unrealized gain on interest rate swap	-	-	-	3,617,331
Change in split interest agreements	210,351	409,792	620,143	(399,846)
Other nonoperating expenses	(51,936)	-	(51,936)	(51,936)
Investment in plant	-	-	-	6,597,222
Net periodic benefit cost	5,577,629	-	5,577,629	(2,275,884)
Pension and post-retirement related changes other than net periodic benefit costs (Note 9 & Note 10)	(5,938,847)	-	(5,938,847)	54,503,382
Change in net assets from nonoperating activities	<u>5,940,096</u>	<u>22,487,806</u>	<u>28,427,902</u>	<u>(21,537,215)</u>
Total change in net assets	<u>70,828</u>	<u>43,264,452</u>	<u>43,335,280</u>	<u>47,831,591</u>
<b>Net assets at</b>				
Beginning of year	<u>70,415,581</u>	<u>478,814,607</u>	<u>549,230,188</u>	<u>501,398,597</u>
End of year	<u>\$ 70,486,409</u>	<u>\$ 522,079,059</u>	<u>\$ 592,565,468</u>	<u>\$ 549,230,188</u>

The accompanying notes are an integral part of these financial statements.

# Woods Hole Oceanographic Institution

## Statements of Cash Flows

### Years Ended December 31, 2023 and 2022

	2023	2022
<b>Cash flows from operating activities</b>		
Total change in net assets	\$ 43,335,280	\$ 47,831,591
Adjustments to reconcile total change in net assets to net cash (used in) / provided by operating activities		
Depreciation	12,348,127	13,330,522
Amortization	(528,336)	(541,261)
Change in split interest agreements	(620,143)	399,847
Allowance for uncollectible pledges	1,064,708	1,655,770
Discount on pledges	915,397	2,101,090
Donation of plant	-	(9,500,000)
Net realized and unrealized (gain)/loss on investments	(51,369,514)	62,771,054
Unrealized loss on interest swap	-	(6,489,981)
Pension related changes other than net periodic pension costs	5,938,847	(54,503,382)
Contributions to be used for long-term investment	(2,091,371)	(8,193,487)
Receipt of contributed securities	(193,908)	(2,354,463)
Liquidation of contributed securities	193,908	2,354,463
(Increase) decrease in assets		
Reimbursable costs and fees		
Billed	3,315,408	(2,015,891)
Unbilled	(12,364,539)	6,322,943
Other receivables	38,347	(80,778)
Pledges receivable	(15,140,938)	(27,925,844)
Inventory	(166,119)	326,615
Deferred charges and prepaid expenses	(652,469)	(708,239)
Other assets	342,571	110,764
Remainder trusts	(118,693)	246,184
Increase (decrease) in liabilities		
Accrued pension and postretirement liability	(6,395,640)	1,350,612
Accounts payable and other liabilities	7,534,920	852,122
Accrued payroll and related liabilities	1,084,465	457,400
Deferred revenue and refundable advances	1,596,018	(1,227,751)
Deferred fixed rate variance	(897,523)	(597,349)
Net cash (used in) / provided by operating activities	<u>(12,831,197)</u>	<u>25,972,551</u>
<b>Cash flows from investing activities</b>		
Other Assets		
Contribution to investment	(1,600,000)	-
Capital expenditures		
Additions to property, plant and equipment	(9,975,661)	(10,188,677)
Bond Proceeds		
Proceeds used for property, plant and equipment, net	1,573,237	298,573
Endowment and other		
Purchase of investments	(41,825,622)	(32,065,173)
Sale of investments	211,002,986	22,244,000
Receivable for investments sold	(148,844,385)	(998,540)
Proceeds from the sale of investments designated for retiree and active medical plans	2,214,296	(1,229,951)
Net cash provided by / (used in) investing activities	<u>12,544,851</u>	<u>(21,939,768)</u>
<b>Cash flows from financing activities</b>		
Repayments under debt agreement	(1,360,000)	(1,290,000)
Contributions to be used for long-term investment	2,091,371	8,193,487
Net cash provided by financing activities	<u>731,371</u>	<u>6,903,487</u>
Net increase in cash and cash equivalents	444,025	10,936,270
<b>Cash and cash equivalents</b>		
Beginning of year	45,371,297	34,435,028
End of year	<u>\$ 45,816,322</u>	<u>\$ 45,371,297</u>
<b>Supplemental disclosures</b>		
Cash paid for interest	\$ 3,501,000	\$ 4,371,298
Noncash activity		
Construction in process additions remaining in accounts payable	673,091	484,706
Contributed securities	193,908	2,354,463
Donation of plant	-	9,500,000

The accompanying notes are an integral part of these financial statements.

# Woods Hole Oceanographic Institution

## Notes to Financial Statements

### December 31, 2023 and 2022

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#### 1. Background

Woods Hole Oceanographic Institution (the "Institution") is a private, independent not-for-profit research and educational institution located in Woods Hole, Massachusetts. Founded in 1930, the Institution is dedicated to advancing knowledge of the ocean and its interaction with the Earth system through a sustained commitment to excellence in science, engineering, and education and to the application of this knowledge to problems facing society.

The Institution is a qualified tax-exempt organization under Section 501(c)(3) of the Internal Revenue Code as it is organized and operated for education and scientific purposes.

#### 2. Summary of Significant Accounting Policies

##### Basis of Presentation

The accompanying financial statements have been prepared on the accrual basis and in accordance with accounting principles generally accepted in the United States of America.

The financial statements include certain prior-year summarized comparative information in total but not by net asset class. Such information does not include sufficient detail to constitute a presentation in conformity with accounting principles generally accepted in the United States of America. Accordingly, such information should be read in conjunction with the Institution's audited financial statements for the year ended December 31, 2022, from which the summarized information was derived.

Net assets, revenues, and realized and unrealized gains and losses are classified based on the existence or absence of donor-imposed restrictions and legal restrictions imposed under Massachusetts State law. Accordingly, net assets and changes therein are classified as follows:

##### Net Assets With Donor Restrictions

Donor-imposed restricted net assets are subject to donor-imposed stipulations that they be maintained by the Institution in perpetuity, or may or will be met by actions of the Institution and/or the passage of time. Generally, the donors of donor-restricted endowment funds permit the Institution to use all or part of the income earned and capital appreciation, if any, on related investments for general or specific purposes. Assets in an endowment fund are donor restricted assets until the Institution appropriates and spends such sums in accordance with the terms of the underlying endowment funds and in accordance with Massachusetts law, at which time they will be released to revenues without donor restrictions.

##### Net Assets Without Donor Restrictions

Net assets without donor restrictions are not subject to donor-imposed stipulations. Revenues are reported as increases in net assets without donor restrictions unless use of the related assets is limited by donor-imposed restrictions with the exception of certain investment expenses which are required to be netted against investment return. Expenses are reported as decreases in net assets without donor restrictions. Gains and losses on investments and other assets or liabilities are reported as increases or decreases in net assets without donor restrictions unless their use is restricted by explicit donor stipulations or law. Expirations of net assets with donor restrictions, that is, the donor-imposed stipulated purpose has been accomplished and/or the stipulated time period has elapsed, are reported as releases between the applicable classes of net assets. Amounts received for sponsored research are reflected in sponsored research revenue and released to operations when spent for the appropriate purpose, or as deferred revenue if expenditures have yet to be incurred.

# Woods Hole Oceanographic Institution

## Notes to Financial Statements

December 31, 2023 and 2022

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### Contributions

Contributions, including promises to give, are recognized as revenues in the period received. Contributions subject to donor-imposed stipulations that are met in the same reporting period are reported as support without donor restrictions. Promises to give that are scheduled to be received after the balance sheet date or are subject to donor-imposed stipulations are shown as increases in net assets with donor restrictions and are released to net assets without donor restrictions when the purpose or restriction is met. Promises to give, subject to donor-imposed stipulations that the corpus be maintained in perpetuity, are recognized as increases in net assets with donor restrictions. Conditional promises to give are not recognized until the conditions on which they depend are substantially met. Contributions other than cash are generally recorded at market value on the date of the gift (or an estimate of fair value); although certain noncash gifts, for which a readily determinable market value cannot be established, are recorded at a nominal value until such time as the value becomes known. Contributed securities are sold immediately upon receipt. Contributions to be received after one year are discounted at the appropriate rate commensurate with risk. Amortization of such discount is recorded as additional contribution revenue in accordance with restrictions imposed by the donor on the original contribution, as applicable. Amounts receivable for contributions are reflected net of an applicable reserve for collectability.

The Institution reports contributions in the form of land, buildings, or equipment as operating support without donor restrictions at fair market value when received.

Dividends, interest and net gains on investments of endowment and similar funds are reported as follows:

- As increases in net assets with donor restrictions if the terms of the gift require that they be added to the principal of a donor restricted endowment fund;
- As increases in net assets with donor restrictions if the terms of the gift or relevant state law impose restrictions on the current use of the income or net realized and unrealized gains until they are appropriated for expenditure and/or the purpose restrictions are met; and
- As increases in net assets without donor restrictions in all other cases.

### Operations

The statement of activities reports the Institution's operating and nonoperating activities. Operating revenues and expenses consist of those activities attributable to the Institution's current annual research or educational programs, all gifts received, charter income, and a component of endowment income appropriated for operations (Note 3). Endowment investment income, gains and losses, from endowment funds without donor restrictions, over or under the amount appropriated under the Institution's spending plan are reported as nonoperating revenue (expense) as investment return (less than) in excess of amounts designated for sponsored research, education and current operations.

Nonoperating revenues (expenses) also include the change in value of split interest agreements, realized/unrealized (losses) gains on interest rate swaps, and the net periodic pension income (cost) on the noncontributory defined benefit pension plan that is not reimbursed through negotiated fixed rate agreements with the federal government. Additionally, nonoperating activities include redesignation of donor gifts, depreciation on certain government-funded facilities and pension related changes other than net periodic pension costs.

**Woods Hole Oceanographic Institution**  
**Notes to Financial Statements**  
**December 31, 2023 and 2022**

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As a result of an amendment to the postretirement health plan, in 2012 and forward, the Institution recognizes the return on investments designated for retiree and active medical plan expenses, and actual active and retiree medical expenses as nonoperating activities when these expenses are funded by withdrawals from the postretirement plan (Note 10).

**Cash and Cash Equivalents**

Cash and cash equivalents consist of cash, money market accounts, certificates of deposit and overnight repurchase agreements with initial maturities of three months or less when purchased which are stated at cost, which approximates market value.

The Institution has elected to treat all short-term highly liquid investments, (i.e., cash equivalents), embedded in pooled investments, investments designated for retiree and active medical plans and split interest agreements as short-term investments.

The Institution invests its cash and cash equivalents in money market funds at a financial institution which fully insures the balances held.

Included in restricted cash at December 31, 2023 and 2022, respectively, are advances received from the United States Navy, other U.S. Government and state agencies as well as contributions from donors who have restricted money for specific research initiatives. Interest earned on unspent funds from federal agencies is remitted to the federal government. Restricted cash also includes Board designated cash and is detailed in the table below:

	<b>2023</b>	<b>2022</b>
US Navy & Other Government Advances	\$ 34,829,163	\$ 29,122,976
Massachusetts Radiation Control	282,324	271,720
Cape Cod 5 Endowment Cash	702,857	-
Board designated cash	<u>693,915</u>	<u>679,603</u>
Total cash and cash equivalents, restricted	<u>\$ 36,508,259</u>	<u>\$ 30,074,299</u>

The following table provides a reconciliation of cash, cash equivalents and restricted cash reported within the statements of financial position that sum to the total of the same such amounts presented in the statements of cash flows.

	<b>2023</b>	<b>2022</b>
Cash and cash equivalents, unrestricted	\$ 9,308,063	\$ 15,296,998
Cash and cash equivalents, restricted	<u>36,508,259</u>	<u>30,074,299</u>
Total cash, cash equivalents and restricted cash in the statement of cash flows	<u>\$ 45,816,322</u>	<u>\$ 45,371,297</u>

**Investments**

Investment securities are carried at market value and determined as follows: securities traded on a national securities exchange are valued at the last reported sales price on the last business day of the year; securities traded in the over-the-counter market and listed securities for which no sales prices were reported on that day are valued at closing bid prices. The value of publicly traded securities or mutual funds are based upon quoted market prices and net asset values. Other investments, such as private equity funds, venture capital funds and hedge funds for which no such

# Woods Hole Oceanographic Institution

## Notes to Financial Statements

December 31, 2023 and 2022

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quotations or valuations are readily available, are carried at fair value as estimated by management using values provided by external investment managers. The Institution reviews and evaluates the valuations provided by investment managers and believes that these valuations are a reasonable estimate of fair value as of December 31, 2023 and 2022 but are subject to uncertainty and, therefore, may differ from the value that would have been used had a ready market for the investments existed and such differences could be material.

Purchases and sales of investment securities are recorded on a trade date basis. Realized gains and losses are computed on a specific identification method. Investment income, net of investment expenses, is distributed on the unit method.

The Institution makes investments in funds that make direct investments in public securities, over the counter securities, and other securities which may or may not have readily available market prices. The Institution follows authoritative guidance under generally accepted accounting principles for estimating the fair value of investments in those funds that have calculated net asset value per share in accordance with the specialized accounting guidance for investment companies. Accordingly, the Institution uses the net asset value, (NAV) without further adjustment as a practical expedient to determine the fair value of these funds which (a) do not have a readily determinable fair value and (b) either have the attributes of an investment company or prepare their financial statements consistent with the measurement principles of an investment company. These values are reviewed and approved by the Institution.

### **Investment Income Unitization**

The Institution's investments are pooled in an endowment fund and the investments and allocation of income are tracked on a unitized basis. The Institution distributes to operations for each individual fund an amount of investment income earned by each of the fund's proportionate share of investments based on a total return policy.

The Board of Trustees has appropriated all of the income and a specified percentage of the net appreciation (depreciation) to operations as prudent considering the Institution's long- and short-term needs, present and anticipated financial requirements, expected total return on its investments, price level trends, and general economic conditions. Under the Institution's current endowment spending policy, which is within the guidelines specified under state law, the Institution's annual operating budget should not exceed 5.0% of the Fund's (pooled investments) trailing 36 month rolling average market value. This amounted to \$22,244,000 and \$21,247,000 for the years ended December 31, 2023 and 2022, respectively, and is classified in operating revenues (research, education, and operations). The Institution is subject to the Massachusetts Uniform Prudent Management of Institutional Funds Act (UPMIFA) and, thus, classifies amounts in its donor-restricted endowment funds as net assets with donor restrictions because those net assets are time restricted until the Board of Trustees appropriates such amounts for expenditure. Most of those net assets also are subject to purpose restrictions that must be met before reclassifying those net assets to net assets without donor restrictions. The Board of Trustees has interpreted UPMIFA as not requiring the maintenance of purchasing power of the original gift amount contributed to an endowment fund, unless a donor stipulates the contrary. As a result of this interpretation, when reviewing its donor-restricted endowment funds the Institution considers a fund to be underwater if the fair value of the fund is less than the sum of (a) the original value of initial and subsequent gift amounts donated to the fund and (b) any accumulations to the fund that are required to be maintained in perpetuity in accordance with the direction of the applicable donor gift instrument. The Institution has interpreted UPMIFA to permit spending from underwater funds in accordance with the prudent measures required under the law. From time to time, the fair value of assets associated with individual donor-restricted endowment funds may fall below the level that

# Woods Hole Oceanographic Institution

## Notes to Financial Statements

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the donor requires the Institution to retain as a fund of perpetual duration. There were no underwater endowment funds at December 31, 2023.

#### **Deposits with Trustees for Construction**

Deposits with trustees for construction consist principally of investments in United States Government obligations and have been deposited with trustees under certain loan agreements. These amounts are restricted for use on approved construction projects and facility improvements set forth under the Series 2018 Bond issue (see Note 8). At December 31, 2023 and 2022, \$0 and \$1,573,237 was available for these purposes.

#### **Other Assets**

Other assets consist of investments held by various split-interest agreements, donated property, and, cash equivalents with a maturity date greater than ninety days.

#### **Inventories**

Inventories are stated at the lower of cost or net realizable value. Cost is determined using the first-in, first-out method. Included in inventories are costs associated with the construction of engineered equipment under contracts totaling \$619,140 and \$50,448 for the years ended December 31, 2023 and 2022, respectively.

#### **Contracts and Grants**

Revenue earned on grants for research is recognized as related costs are incurred. Revenue on contracts is recognized as value is transferred to customers, which is comparable to when related costs are incurred for research and research and development contracts. For engineered equipment contracts, revenue is recognized at a point in time when the equipment is delivered.

The Institution received 85% and 85% of its sponsored research revenues from government agencies including 49% and 49% of its operating revenues directly from the National Science Foundation and 12% and 13% from the United States Navy in fiscal years 2023 and 2022, respectively. Although applications for research funding to federal agencies historically have been funded, authorizations are subject to annual Congressional appropriations and payment.

#### **Joint Program Revenue**

The Institution operates a joint graduate program in Oceanography with another institution under a memorandum of agreement. Tuition is charged to students per semester at agreed upon rates.

#### **Other Income**

Included in other income is membership, royalty, and other ancillary income.

#### **Deferred Financing Costs**

Costs incurred in connection with the placement of the MassDevelopment, Revenue Bonds, Woods Hole Oceanographic Institution Issue, Series 2018, have been deferred and are being amortized over the term of the obligation on a straight-line basis, which approximates the effective interest method. The unamortized portion of the deferred financing costs are included in the offset to long-term debt on the statement of financial position.

#### **Interest Rate Swap**

The Institution entered into an interest rate swap agreement ("SWAP") on the MassDevelopment, Variable Rate Revenue Bonds, Woods Hole Oceanographic Institution Issue Series A Bonds in order to convert a portion of the variable rate debt to fixed rate, thereby economically hedging against changes in the cash flow requirements of the Institution's variable rate debt obligations.

# Woods Hole Oceanographic Institution

## Notes to Financial Statements

### December 31, 2023 and 2022

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The Series A bonds were retired on January 2, 2009. On October 28, 2022 the Institution terminated this SWAP agreement. Final payment of \$2,085,000 was paid in full with final settlement on this date.

#### **Property, Plant and Equipment**

Property, plant and equipment are stated at cost. Depreciation is provided on a straight-line basis at annual rates of 12 to 39 years on buildings and improvements, 10 to 15 years on vessels and dock facilities and 5 to 10 years on laboratory and other equipment. Depreciation expense on property, plant, and equipment purchased by the Institution in the amounts of \$12,278,251 and \$13,260,646 in 2023 and 2022, respectively, has been charged to operating activities. Depreciation on certain government-funded facilities (the Laboratory for Marine Science and the dock facility) amounting to \$51,936 and \$51,936 in 2023 and 2022, respectively, has been charged to nonoperating expenses as these assets were gifted by the Government.

#### **Leases**

The Institution leases portions of certain buildings to others under arrangements that are classified as operating leases. The term of these two agreements does not exceed five years. Annual rental income under these agreements is \$379,358 for the years ended December 31, 2023 and 2022 respectively. Income under other operating agreements totaled \$ 104,498 and \$112,982 for the years ended December 31, 2023 and 2022, respectively. Operating leases are included in right of use assets and right of use lease liabilities in the Institution's statement of financial position at December 31, 2023 and 2022.

#### **Expenses**

Expenses are recognized when incurred and charged to the functions to which they are directly related. Sponsored research includes general research, marine operations research and services and ship and submersible operation and usage. Academic programs costs are associated primarily with the Joint program. Unsponsored research includes internally funded research activities of the Institution. Other institutional activities include development, communications, marine operations support and other unsponsored activities.

Included in other institution activities are fund raising expenses totaling \$4,538,200 and \$4,493,293 for the years ended December 31, 2023 and 2022. Fund raising expenses totaled approximately 9% and 7% of revenue from contributions for the years ending December 31, 2023 and 2022. The calculation includes costs associated with the Institution's Development Office, (including direct support activities) and the Contributions and gifts total presented on the statement of activities (excluding Contributions in kind).

#### **Use of Estimates**

The preparation of the financial statements in accordance with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and the disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the period. Actual results could differ from those estimates.

#### **New Accounting Pronouncements**

In June 2016, The FASB issued ASU No.2016-13 Measurement of Credit Losses on Financial Instruments (Topic 326), which replaces the current GAAP incurred loss impairment methodology with one that reflects expected credit losses and requires consideration of a broader range of reasonable and supportable information to inform credit loss estimates. The amendments in this Update for the Institution are effective for the year ended December 31, 2023.

# Woods Hole Oceanographic Institution

## Notes to Financial Statements

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The Institution's accounts receivable is reported at an amount equal to the amount that is expected to be collected for providing services to customers. Because accounts receivable is typically paid for by highly-solvent, creditworthy payors, such as government agencies, credit losses are infrequent and insignificant in nature; as such, the Institution generally does not recognize provision for expected credit losses. Amounts recognized for expected credit losses are immaterial to the financial statements.

### 3. Investments

The Institution has retained and outsourced services for manager selection, risk management and asset allocation of endowment assets to a third party. The assets transferred for investment under this arrangement, titled "Multi-strategy Investment Fund", represent holdings in the following classifications: Equity, Long/Short Equity, Real Assets, Commodities/Resources Credit/Special Situations, Absolute return, Fixed Income and Hedges/Opportunistic. These assets represent a concentrated investment in one investment manager. A consequence of this concentration is that the performance may be more favorably or unfavorably affected by the performance of the individual manager. The Institution invests in two separate sub-funds within the Multi-strategy Investment Fund. One sub-fund allows for annual withdrawals while the other allows for daily withdrawals with a notice of ten business days.

The following table presents the classification and carrying value of investments at December 31:

	<b>Market</b>	
	<b>2023</b>	<b>2022</b>
<b>Assets</b>		
Cash and short-term investments	\$ 3,821,904	\$ 967,954
Multi-strategy Investment Funds - Short-term Liquidity Funds	25,012,610	23,844,212
Multi-strategy Investment Funds - WHOI Investment Holdings, LP	<u>294,596,611</u>	<u>418,110,659</u>
Total investments pooled	<u>323,431,125</u>	<u>442,922,825</u>
<b>Investments designated for retiree and active medical plans</b>		
Commingled funds	8,866,786	9,396,946
Total investments designated for retiree and active medical plans	<u>8,866,786</u>	<u>9,396,946</u>
Total investments at fair value	<u>\$ 332,297,911</u>	<u>\$ 452,319,771</u>

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The following schedule summarizes the investment return and its classification in the statement of activities:

	<b>Without Donor Restrictions</b>	<b>With Donor Restrictions</b>	<b>Total 2023</b>
Change in unrealized appreciation	\$ 9,022,045	\$ 39,757,544	\$ 48,779,589
Total return on investments	<u>9,022,045</u>	<u>39,757,544</u>	<u>48,779,589</u>
Investment return designated for			
Sponsored research	-	(8,147,970)	(8,147,970)
Education	-	(9,700,986)	(9,700,986)
Current operations	<u>(4,395,044)</u>	<u>-</u>	<u>(4,395,044)</u>
Total distributed to operations	<u>(4,395,044)</u>	<u>(17,848,956)</u>	<u>(22,244,000)</u>
Investment return in excess of amounts designated for sponsored research, education and current operations	<u>\$ 4,627,001</u>	<u>\$ 21,908,588</u>	<u>\$ 26,535,589</u>
	<b>Without Donor Restrictions</b>	<b>With Donor Restrictions</b>	<b>Total 2022</b>
Change in unrealized depreciation	\$ (11,542,999)	\$ (47,865,479)	\$ (59,408,478)
Total return on investments	<u>(11,542,999)</u>	<u>(47,865,479)</u>	<u>(59,408,478)</u>
Investment return designated for			
Sponsored research	-	(7,627,470)	(7,627,470)
Education	-	(9,373,398)	(9,373,398)
Current operations	<u>(4,246,132)</u>	<u>-</u>	<u>(4,246,132)</u>
Total distributed to operations	<u>(4,246,132)</u>	<u>(17,000,868)</u>	<u>(21,247,000)</u>
Investment return less than amounts designated for sponsored research, education and current operations	<u>\$ (15,789,131)</u>	<u>\$ (64,866,347)</u>	<u>\$ (80,655,478)</u>

Net realized and unrealized (losses)/gains attributable to investments designated for retiree and active medical plans were \$1,684,136 and \$(2,872,006) for the years ended December 31, 2023 and 2022, respectively.

Investment securities are exposed to various risks such as interest rate, market and credit risks. Due to the level of risk associated with certain investments, it is at least reasonably possible that changes in the value of investment securities will occur in the near term and that such changes could materially affect the market values and the amounts reported in the statement of financial position.

**4. Fair Value Measurements**

Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date (also referred to as "exit price"). Therefore, a fair value measurement should be determined based on the assumptions that market participants would use in pricing the asset or liability. In determining fair value, the use of various valuation approaches, including market, income and cost approaches, is permitted.

# Woods Hole Oceanographic Institution

## Notes to Financial Statements

### December 31, 2023 and 2022

#### Fair Value Hierarchy

A fair value hierarchy has been established based on whether the inputs to valuation techniques are observable or unobservable. Observable inputs reflect market data obtained from independent sources, while unobservable inputs reflect the reporting entity's assumptions about the inputs market participants would use. The fair value hierarchy requires the reporting entity to maximize the use of observable inputs and minimize the use of unobservable inputs when measuring fair value.

The hierarchy is described below:

- Level 1 Valuations using quoted prices in active markets for identical assets or liabilities. Valuations of these products do not require a significant degree of judgment. Level 1 assets and liabilities primarily include debt and equity securities that are traded in an active exchange market.
- Level 2 Valuations using observable inputs other than Level 1 prices such as quoted prices in active markets for similar assets or liabilities; quoted prices for identical or similar assets or liabilities in markets that are not active; broker or dealer quotations; or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the assets or liabilities.
- Level 3 Valuations using unobservable inputs that are supported by little or no market activity and are significant to the fair value of the assets or liabilities. Level 3 includes assets and liabilities whose value is determined using pricing models, discounted cash flow methodologies, or similar techniques.

Inputs broadly refer to the assumptions that market participants use to make valuation decisions, including assumptions about risk. As described in Note 2, the Institution generally uses the net asset value per share of the investment (or its equivalent) reported by the investee fund manager as the primary input to its valuation; however, adjustments to the reported amount may be made based on various factors.

Investments that are valued using the "practical expedient" or net asset value per share ("NAV") are excluded from the fair value leveling hierarchy. Investments include private equity, venture capital, other limited partnerships and multi strategy funds.

The following tables summarize fair value measurements at December 31, 2023 and 2022 for financial assets and liabilities measured at fair value:

	2023				
	Quoted Prices in Active Markets Level 1	Significant Other Observable Inputs Level 2	Significant Unobservable Inputs Level 3	NAV as Practical Expedient (NAV)	Total Fair Value
<b>Assets</b>					
Cash and short-term investments	\$ 3,821,904	\$ -	\$ -	\$ -	\$ 3,821,904
Multi-strategy Investment Funds - Short-term Liquidity Funds	-	-	-	25,012,610	25,012,610
Multi-strategy Investment Funds - WHOI Investment Holdings, LP	-	-	-	294,596,611	294,596,611
Total pooled	3,821,905	-	-	319,609,221	323,431,125
Contributions receivable from remainder trust	-	-	942,506	-	942,506
Other assets	3,076,893	-	532,215	-	3,609,108
Investments designated for retiree and active medical plans - commingled funds	-	-	-	8,866,786	8,866,786
Total assets at fair value	\$ 6,898,797	\$ -	\$ 1,474,721	\$ 328,476,007	\$ 336,849,525
Total liabilities at fair value	\$ -	\$ -	\$ -	\$ -	\$ -

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	2022				
	Quoted Prices in Active Markets Level 1	Significant Other Observable Inputs Level 2	Significant Unobservable Inputs Level 3	NAV as Practical Expedient (NAV)	Total Fair Value
<b>Assets</b>					
Cash and short-term investments	\$ 967,954	\$ -	\$ -	\$ -	\$ 967,954
Multi-strategy Investment Funds - Short-term Liquidity Funds	-	-	-	23,844,212	23,844,212
Multi-strategy Investment Funds - WHOI Investment Holdings, LP	-	-	-	418,110,659	418,110,659
Total pooled	967,954	-	-	441,954,871	442,922,825
Contributions receivable from remainder trust	-	-	823,813	-	823,813
Other assets	3,008,448	-	942,930	-	3,951,378
Investments designated for retiree and active medical plans - commingled funds	-	-	-	9,396,946	9,396,946
Total assets at fair value	<u>\$ 3,976,402</u>	<u>\$ -</u>	<u>\$ 1,766,743</u>	<u>\$ 451,351,817</u>	<u>\$ 457,094,962</u>
Total liabilities at fair value	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>

The Institution has adopted a policy that defines near-term liquidity as those investments allowing liquidity within 90 days of the reporting period.

The following table presents the assets and liability carried at fair value as of December 31, 2023 and 2022 that are classified within Level 3 of the fair value hierarchy defined above:

	2023	
	Fair Value Measurements Using Significant Unobservable Inputs (Level 3)	
	Contributions Receivable From Remainder	
	Trust	Other Assets
<b>Balance at January 1, 2023</b>	\$ 823,813	\$ 942,930
Settlements	-	(548,835)
New gifts	-	100,000
Unrealized gains	<u>118,693</u>	<u>38,120</u>
<b>Balance at December 31, 2023</b>	<u>\$ 942,506</u>	<u>\$ 532,215</u>

**Woods Hole Oceanographic Institution**  
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	<u>2022</u>	
	<b>Fair Value Measurements Using Significant Unobservable Inputs (Level 3)</b>	
	<b>Contributions Receivable From Remainder</b>	
	<b>Trust</b>	<b>Other Assets</b>
<b>Balance at January 1, 2022</b>	\$ 1,069,997	\$ 1,057,618
Settlements	-	-
New gifts	-	118,000
Unrealized losses	<u>(246,184)</u>	<u>(232,688)</u>
<b>Balance at December 31, 2022</b>	<u>\$ 823,813</u>	<u>\$ 942,930</u>

The change in unrealized gain/(loss) related to Level 3 assets held as of December 31, 2023 and 2022 was \$620,143 and \$(399,846), respectively. These amounts are included in the line item "Changes in split interest agreements" in the statement of activities.

Contributions from Remainder Trusts and split interest agreements (included in the category "Other Assets") have stated interest rates and mortality estimates applied for discounting the future cash flows to the Institution for these arrangements. Interest rates and discount rates associated with establishing or recording these agreements are set at the date of gift and the current interest rate environment may be considerably different which affects the fair value calculation. Mortality (the expected length of time until the Institution received the settlement), is also an estimate impacting the fair value calculation. Actual results differing from these estimates in conjunction with deviations in interest rates directly impact the amount of gain or loss recorded in the Changes in split interest agreements in the statement of activities.

The fair market value of the investments described in the table below are based on net asset value per share of the investments as of December 31, 2023.

<b>Assets</b>	<b>Fair Value</b>	<b>Redemption Terms</b>	<b>Redemption Restrictions</b>
Multi-strategy Investment Funds			
Short-term liquidity funds	\$ 25,012,610	Monthly redemption terms	
Multi-strategy Investment Funds		Annual (year end), redemption terms	\$4,295,680 designated as illiquid remaining lives up to 5 years
WHOI Investment Holdings, LP	294,596,611		
Investments designated for retiree and active medical plans - commingled funds	<u>8,866,786</u>	Daily redemption terms	
Total investments	<u>\$ 328,476,007</u>		

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The fair market value of the investments described in the table below are based on net asset value per share of the investments as of December 31, 2022.

<b>Assets</b>	<b>Fair Value</b>	<b>Redemption Terms</b>	<b>Redemption Restrictions</b>
Multi-strategy Investment Funds			
Short-term liquidity funds	\$ 23,844,212	Monthly redemption terms	
Multi-strategy Investment Funds		Annual (year end), redemption terms	\$5,973,636 designated as illiquid remaining lives up to 5 years
WHOI Investment Holdings, LP	418,110,659		
Investments designated for retiree and active medical plans - commingled funds	<u>9,396,946</u>	Daily redemption terms	
Total investments	<u>\$ 451,351,817</u>		

**5. Pledges Receivable, Net**

Pledges that are expected to be collected within one year are recorded at their net realizable value. Pledges that are expected to be collected in future years are recorded at the present value of estimated future cash flows. Discount rates used to calculate the present value of pledges receivable ranged from 4.64% to 5.26% at December 31, 2023 and 2022.

Pledges receivable consist of the following at December 31:

	<b>2023</b>	<b>2022</b>
<b>Unconditional promises expected to be collected in</b>		
Less than one year	\$ 21,755,323	\$ 16,521,279
One year to five years	37,351,539	27,444,645
Reserve for uncollectible pledges receivable	(3,668,725)	(2,604,017)
Unamortized discount	<u>(3,267,700)</u>	<u>(2,352,304)</u>
	<u>\$ 52,170,437</u>	<u>\$ 39,009,603</u>

The total amount of conditional pledges which are not recognized in the Institution's financial statements were \$3,759,276 and \$6,695,784 at December 31, 2023 and 2022.

**6. Contribution Receivable From Remainder Trusts, Net and Other Split Interest Agreements**

Contributions receivable from remainder trusts at December 31, 2023 and 2022 were \$942,506 and \$823,813, respectively. In addition, the Institution is the beneficiary for split interest agreements held in gift annuity and pooled income funds totaling \$532,215 and \$942,930 for the years ended December 31, 2023 and 2022, respectively. These amounts are presented in other assets. Included in accounts payable and other liabilities are net expected payouts of \$219,554 and \$571,236 for the years ended December 31, 2023 and 2022, respectively. Contribution revenue for split interest agreements totaled \$0 for the years ended December 31, 2023 and 2022.

The receivable and other split interest agreements and related revenues are measured at the present value of estimated future cash flows to be received, net of expected payouts, and recorded in the appropriate net asset category based on donor stipulation. During the term of these agreements, changes in the value are recognized based on amortization of discounts and changes in actuarial assumptions. Discount rates used in these calculations was 4.74%, at December 31, 2023 and 2022.

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**7. Deferred Fixed Rate Variance**

The Institution receives funding or reimbursement from federal government agencies for sponsored research under government grants and contracts. Revenue is recognized as related costs are incurred. The Institution has negotiated fixed rates with the federal government for the recovery of certain fringe benefits and indirect costs on these grants and contracts. Such recoveries are subject to carryforward provisions that provide for adjustments to be included in the negotiation of future fixed rates. The deferred fixed rate variance accounts represent the cumulative amount owed to or due from the federal government. The Institution's rates are negotiated with the Office of Naval Research (ONR), the Institution's cognizant agency.

The composition of the deferred fixed rate variance is as follows:

<b>Deferred fixed rate variance liability at December 31, 2021</b>	<u>\$ (4,801,072)</u>
2022 indirect costs	102,022,519
Amounts recovered	<u>(101,425,169)</u>
2022 change	<u>597,350</u>
<b>Deferred fixed rate variance liability at December 31, 2022</b>	<u>(4,203,722)</u>
2023 indirect costs	112,498,073
Amounts recovered	<u>(111,600,552)</u>
2023 change	<u>897,522</u>
<b>Deferred fixed rate variance liability at December 31, 2023</b>	<u>\$ (3,306,200)</u>

As of December 31, 2023, the Institution has expended a cumulative amount less than recovered amounts of \$3,306,200 which will be reflected as a deduction to future year recoveries. This amount has been reported as a liability of the Institution. Included in the Institution's rate agreements with their cognizant agency is a provision requiring full liquidation of any deferred rate variance generated in a specific year two years into the future as part of that year's rate calculation.

**8. Line of Credit, Bonds Payable and Interest Rate Swap**

Indebtedness at December 31, 2023 and 2022 includes bonds issued through MassDevelopment. Balances of outstanding bonds payable at December 31 consist of the following:

	<b>2023</b>	<b>2022</b>
MassDevelopment, Series 2018, Fixed Rate Revenue Bonds	\$ 69,340,000	\$ 70,700,000
Add: Series 2018 unamortized bond premium	7,665,347	8,215,160
Less: Series 2018 unamortized bond discount	(197,572)	(205,692)
Deferred financing costs	<u>(325,024)</u>	<u>(338,381)</u>
Bonds payable	<u>\$ 76,482,751</u>	<u>\$ 78,371,087</u>

In fiscal 2004, proceeds were received from the offering of the \$54,850,000 MassDevelopment, Variable Rate Revenue Bonds, Woods Hole Oceanographic Institution Issue, Series A (2004), (the "Series A Bonds"), which were used to repay the MassDevelopment B Pool loans and for campus construction completed in December 2007. The bonds contain certain restrictive covenants including limitations on obtaining additional debt, filings of annual financial statements

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and limitations on the creation of liens. In addition, the Institution agrees that, subject to any governmental restrictions, its fiduciary obligations and limitations imposed by law, it will maintain resources with and without donor restrictions at a market value equal to at least 75% of all outstanding indebtedness.

On December 1, 2008, the Institution issued \$65,000,000 MassDevelopment, Fixed Rate Revenue Bonds, Woods Hole Oceanographic Institution Issue, Series B (2008), (the "Series B Bonds"). The proceeds were used for major maintenance and renovation projects throughout the Institution and were used to retire the Series A Bonds. The Series B Bonds mature in 2034 and bear fixed interest rates from 4.0% to 5.5% payable on June 1 and December 1 beginning in 2009.

The Series B Bonds are collateralized by the Institution's revenues without donor restrictions. The Institution incurred costs of \$268,500 associated with the issue which have been capitalized and are being amortized over the life of the bonds. Debt covenants were with the requirements under the Series A bond agreement until the interest rate swap agreement was terminated in 2022.

On May 9, 2018 the Institution issued \$75,510,000 MassDevelopment, Fixed Rate Revenue Bonds, Woods Hole Oceanographic Series 2018. The Institution received proceeds of \$86,306,214 net of issuance costs of \$644,296, which included underwriter's discount, legal, consulting and Issuer costs. Of this amount \$50,660,224 was used to retire the Series B (2008) obligations of outstanding principal and interest with the remaining amount held by trustees that will be drawn down to fund future maintenance and renovation projects throughout the Institution along with the building of new facilities. The Bonds mature in 2048 and bear a fixed interest rates ranging from 4% to 5%. The Series 2018 Bonds contain no financial covenants. Interest expense on the Bonds totaled \$2,945,520 and \$3,004,513.

The Institution maintains two uncollateralized lines of credit with two separate banks. The lines of credit in the aggregate allow for a maximum borrowing capacity of \$45,000,000. One agreement, with a maximum capacity of \$30,000,000, bears interest at 1% below the Wall Street Journal Prime Rate, contains no expiration date but is subject to annual reviews on or about September 30.

The Institution entered into a second line of credit with a new bank in 2022 upon the expiration of the former credit line. This new line of credit allows for borrowing with a maximum capacity of \$15,000,000 and bears interest at the current WSJ Prime Rate minus 1%. The current Prime Rate is 8.5%. The agreement requires the Institution to open a deposit account and maintain a \$3,000,000 balance. The loan must be repaid in full for a minimum of thirty consecutive days annually. The Institution had no outstanding borrowings on the lines of credit at either December 31, 2023 or 2022, respectively.

The aggregate maturities due on the Series 2018 long-term debt at December 31, 2023 are as follows:

<b>Fiscal year</b>	<b>Principal Amount</b>
2024	\$ 1,425,000
2025	1,500,000
2026	1,575,000
2027	1,660,000
2028	1,745,000
Thereafter	<u>61,435,000</u>
	<u>\$ 69,340,000</u>

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In June 2004, the Institution entered into an interest rate swap agreement (“SWAP”) on the Series A Bonds (subsequently refinanced to Series B Bonds) in order to convert a portion of the variable rate debt to fixed rate, thereby economically hedging against changes in the cash flow requirements of the Institution’s variable rate debt obligations. The Institution terminated this SWAP on October 28, 2022 with a final payment of \$2,085,000.

The effect of the interest rate swap on the statement of activities for 2023 and 2022 was as follows:

	<b>Amount of Loss Recognized in Statement of Activities</b>	
	<b>2023</b>	<b>2022</b>
<b>Location of loss recognized in statement of activities</b>		
Nonoperating income and expenses		
Net realized/unrealized (loss) / gain on interest rate swap	\$ -	\$ (804,649)

**9. Retirement Plans**

The Institution maintains a noncontributory defined benefit pension plan covering certain employees of the Institution (Qualified Plan), and a supplemental benefit plan for certain other employees. Pension benefits are earned based on years of service and compensation received. The Institution’s policy is to fund at least the minimum required by the Employee Retirement Income Security Act of 1974. The Institution sponsors a 403(b) Defined Contribution Plan (DC Plan). Contributions for the defined contribution plan totaled \$9,784,206 and \$8,626,581 for the years ended December 31, 2023 and 2022, respectively. Effective January 1, 2010, no new participants were allowed to enter the Qualified Plan but were eligible to participate in the DC Plan. The Qualified Plan was placed under a soft freeze for current participants with all future retirement benefits being earned through the new DC Plan and prior benefits adjusted for future salary increases.

**Woods Hole Oceanographic Institution**  
**Notes to Financial Statements**  
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	<b>Qualified Plan Pension Benefits</b>	
	<b>2023</b>	<b>2022</b>
<b>Change in benefit obligation</b>		
Benefit obligation at beginning of year	\$ 213,980,602	\$ 302,724,290
Interest cost	11,522,401	10,207,523
Actuarial (gain)/loss	10,720,345	(75,801,408)
Benefits paid	(14,836,473)	(9,570,614)
Settlements	-	(13,912,386)
Transfers from other plans	-	333,197
Benefit obligation at end of year	<u>221,386,875</u>	<u>213,980,602</u>
<b>Change in plan assets</b>		
Fair value of plan assets at beginning of year	176,938,702	221,518,638
Employer contributions	5,025,000	3,300,000
Actual return on plan assets	16,754,578	(24,730,133)
Benefits paid	(14,836,473)	(9,570,614)
Settlements	-	(13,912,386)
Transfers from other plans	-	333,197
Fair value of plan assets at end of year	<u>183,881,807</u>	<u>176,938,702</u>
Funded status	<u>\$ (37,505,068)</u>	<u>\$ (37,041,900)</u>
<b>Amounts recognized in the statement of financial position consist of</b>		
Accrued benefit liability	<u>\$ 37,505,068</u>	<u>\$ 37,041,900</u>
Net amount recognized	<u>\$ 37,505,068</u>	<u>\$ 37,041,900</u>
<b>Amounts recognized in net assets without donor restrictions</b>		
Net actuarial loss	<u>\$ -</u>	<u>\$ (242,242)</u>
<b>Information for pension plans with accumulated benefit obligations in excess of plan assets</b>		
Projected benefit obligation	\$ 221,386,875	\$ 213,980,602
Accumulated benefit obligation	216,024,114	208,947,939
	<u>\$ 437,410,989</u>	<u>\$ 422,928,541</u>
<b>Components of net periodic benefit cost</b>		
Service cost	\$ -	\$ -
Interest cost	11,522,401	10,207,523
Expected return on plan assets	(12,472,131)	(8,782,696)
Amortization of net actuarial loss	-	3,270,196
Settlements	-	-
Net periodic benefit cost	<u>\$ (949,730)</u>	<u>\$ 4,695,023</u>
<b>Other changes in plan assets and benefit obligations recognized in unrestricted net assets</b>		
Amortization of net actuarial loss	\$ -	\$ (3,270,196)
Net actuarial loss/(gain)	6,437,898	(42,288,579)
Immediate recognition of loss due to settlements	-	(722,424)
Total recognized in nonoperating revenues (expenses)	<u>\$ 6,437,898</u>	<u>\$ (46,281,199)</u>

**Woods Hole Oceanographic Institution**  
**Notes to Financial Statements**  
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The Institution has reflected \$5,025,000 and \$3,300,000 for the years ended December 31, 2023 and 2022, respectively, in the operating section of the statement of activities which represents employer contributions reimbursed through the employee benefit fixed rate as negotiated with the United States Government. Any difference between the employer contributions and the net periodic benefit cost is recorded in the nonoperating section of the statement of activities. This difference amounted to (income) expenses of \$(5,974,730) and \$2,117,447 for the years ended December 31, 2023 and 2022, respectively.

	<b>Qualified Plan Pension Benefits</b>	
	<b>2023</b>	<b>2022</b>
<b>Weighted-average assumptions used to determine benefit obligations at December 31</b>		
Discount rate	5.30 %	5.60 %
Rate of compensation increase	5.00 %	8.50 %
<b>Weighted-average assumptions used to determine net periodic benefit cost for years ended December 31</b>		
Discount rate	5.30 %	5.60 %
Expected long-term rate of return on plan assets	7.10 %	7.50 %
Rate of compensation increase	5.00 %	8.50 %

To develop the expected long-term rate of return on assets assumption, the Institution considered the current level of expected returns on risk-free investments (primarily government bonds), the historical level of the risk premium associated with the other asset classes in which the portfolio is invested and the expectations for future returns of each asset class. The expected return for each asset class was then weighted based on the target asset allocation to develop the expected long-term rate of return on assets assumption for the portfolio, net of expenses expected to be paid.

This resulted in a 7.10% and 7.50% assumption as of December 31, 2023 and 2022, respectively.

**Plan Assets**

The long-term investment objectives of the Plan are to (1) achieve an average real total return assessed over rolling five year periods, that is consistent with the Plan's actuarial assumptions; (2) generate acceptable long-term returns, as determined by measurement against the Fund's benchmarks and (3) generate acceptable long-term returns without compromising the liquidity and stability required to support the Plan's annual payments to the Plan's beneficiaries.

The Institution has retained and outsourced services for manager selection, risk management and asset allocation of the Plan's assets to a third party to assist with implementing the Plan's investment policy. In addition, Target Allocations for asset classes have been revised to include two broad categories; (1) Growth and Excess Return Portfolio, (2) Fixed Income/Liability Hedging Portfolio. These categories have been assigned a 60% and 40% Target Allocation, respectively.

**Expected amounts amortized from net assets without donor restrictions into net periodic pension cost for the next fiscal year**

Amortization of net loss	\$	-
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**Woods Hole Oceanographic Institution**  
**Notes to Financial Statements**  
**December 31, 2023 and 2022**

**Fair Value Disclosures**

The following fair value hierarchy table's present information about the Qualified Plan's financial assets measured at fair value on a recurring basis, (as described in Note 4).

	2023				
	Level 1	Level 2	Level 3	NAV as Practical Expedient	Total
<b>Assets</b>					
Cash and cash equivalents	\$ 5,206,983	\$ -	\$ -	\$ -	\$ 5,206,983
Private equity, venture capital and other limited partnerships	-	-	-	74,040,115	74,040,115
Commingled funds	-	-	-	25,314,885	25,314,885
Exchange traded funds	9,103,856	-	-	-	9,103,856
Hedge funds	-	-	-	45,948,983	45,948,983
Mutual funds	17,286,290	-	-	-	17,286,290
Domestic common stock	6,980,695	-	-	-	6,980,695
Total assets at fair value	<u>\$ 38,577,824</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 145,303,983</u>	<u>\$ 183,881,807</u>

	2022				
	Level 1	Level 2	Level 3	NAV as Practical Expedient	Total
<b>Assets</b>					
Cash and cash equivalents	\$ 7,516,486	\$ -	\$ -	\$ -	\$ 7,516,486
Private equity, venture capital and other limited partnerships	-	-	-	64,447,958	64,447,958
Commingled funds	-	-	-	24,846,663	24,846,663
Exchange traded funds	7,238,193	-	-	-	7,238,193
Hedge funds	-	-	-	51,136,091	51,136,091
Mutual funds	13,708,209	-	-	-	13,708,209
Domestic common stock	6,079,104	-	-	-	6,079,104
Total assets at fair value	<u>\$ 34,541,992</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 140,430,712</u>	<u>\$ 174,972,704</u>

Included in plan assets are net investment related (payables)/receivables of \$0 and \$1,965,998 as of December 31, 2023 and 2022, respectively. There were no transfers to or from Level 3 for the years ended December 31, 2023 and 2022.

The following unfunded commitments and redemption terms within the retirement trust are detailed below:

	Fair Value	Unfunded Commitments	2023	
			Redemption Frequency	Redemption Notice Period
Private equity, venture capital and other limited partnerships	\$ 74,040,115	\$ 33,759,335	Restricted from Redemption	Restricted from Redemption
Commingled funds	25,314,885	-	Daily-Triennially	Business Day-90 Calendar Days
Hedge funds	45,948,983	-	Monthly-Triennially	17 Business Days - 4 Months
Total	<u>\$ 145,303,983</u>	<u>\$ 33,759,335</u>		

**Woods Hole Oceanographic Institution**  
**Notes to Financial Statements**  
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	2022			
	Fair Value	Unfunded Commitments	Redemption Frequency	Redemption Notice Period
Private equity, venture capital and other limited partnerships	\$ 64,447,958	\$ 33,082,589	Restricted from Redemption	Restricted from Redemption
Commingled funds	24,846,663	-	Daily-Triennially	Business Day-90 Calendar Days
Hedge funds	51,136,091	1,341,271	Monthly-Triennially	17 Business Days - 4 Months
Total	<u>\$ 140,430,712</u>	<u>\$ 34,423,860</u>		

**Expected Contributions**

The Institution anticipates contributing \$5,500,000 to the Qualified Plan in 2024.

**Estimated Future Benefit Payments**

The following benefit payments, which reflect expected future service are expected to be paid as follows:

Years	Benefit Payments
2024	\$ 17,716,193
2025	17,799,048
2026	18,138,475
2027	17,232,898
2028	16,411,304
2029–2033	76,728,427

**Amortization of Gains and Losses**

Amortization of the net gain or loss resulting from experience different from that assumed and from changes in assumptions (excluding asset gains and losses not yet reflected in market-related value) is included as a component of net periodic benefit income (cost) for the year. If, as of the beginning of the year, that net gain or loss exceeds 10% of the greater of the projected benefit obligation and the market-related value of plan assets, the amortization is that excess divided by the average remaining service period until 25 years of service of participating employees expected to receive benefits under the plan.

**10. Other Postretirement Benefits**

In addition to providing retirement plan benefits, the Institution provides certain health care benefits for retired employees and their spouses. Substantially all of the Institution's employees may become eligible for the benefits if they reach normal retirement age (as defined) or elect early retirement after having met certain time in service criteria. Effective January 1, 2012 the Trust agreement which had been funding the Plan was amended to include active employees. Accordingly, assets of the Plan were then decoupled and recorded on the Institution's statement of financial position as investments designated for retiree and active medical plans along with a corresponding increase to the accrued postretirement liability. Actual returns from investments designated for retiree and active medical plans totaled gains/(losses) of \$1,801,439 and (\$2,839,989) for the years ended December 31, 2023 and 2022, respectively, and are presented in the nonoperating section of the statement of activities, net of administrative fees of \$166,331 and \$32,017 for 2023 and 2022, respectively. Health care benefits for active employees funded from these investments totaled \$0 for the years ended December 31, 2023 and 2022.

**Woods Hole Oceanographic Institution**  
**Notes to Financial Statements**  
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	<b>Other</b>	
	<b>Postretirement Benefits</b>	
	<b>2023</b>	<b>2022</b>
<b>Change in benefit obligation</b>		
Benefit obligation at beginning of year	\$ 20,521,433	\$ 29,510,451
Service cost	166,331	304,679
Interest cost	1,114,971	880,861
Benefits paid, net of participant contributions	(984,344)	(1,229,951)
Actuarial (gain)/loss	(1,216,921)	(8,944,607)
Benefit obligation at end of year	<u>19,601,470</u>	<u>20,521,433</u>
<b>Change in plan assets</b>		
Fair value of plan assets at beginning of year	-	-
Employer contributions	984,344	1,229,951
Actual return on plan assets	-	-
Benefits paid, net of participant contributions	(984,344)	(1,229,951)
Fair value of plan assets at end of year	<u>-</u>	<u>-</u>
Funded status	<u>\$ (19,601,470)</u>	<u>\$ (20,521,433)</u>
<b>Amounts recognized in the statement of financial position consist of</b>		
Accrued benefit liability	\$ 19,601,470	\$ 20,521,433
Net amount recognized	<u>\$ 19,601,470</u>	<u>\$ 20,521,433</u>
<b>Amounts recognized in net assets without donor restrictions</b>		
Net prior service credit	\$ -	\$ -
Net actuarial (gain)/loss	(8,797,115)	(8,298,064)
Net amount recognized	<u>\$ (8,797,115)</u>	<u>\$ (8,298,064)</u>
<b>Components of net periodic benefit cost</b>		
Service cost	\$ 166,331	\$ 304,679
Interest cost	1,114,971	880,861
Expected return on plan assets	-	-
Amortization of prior service credit	-	-
Amortization of net actuarial loss	(717,870)	-
Net periodic benefit cost	<u>\$ 563,433</u>	<u>\$ 1,185,540</u>
<b>Other changes in plan assets and benefit obligations recognized in net assets without donor restrictions</b>		
Amortization of prior service credit	\$ -	\$ -
Amortization of net actuarial loss	-	-
Net actuarial (gain)/loss	(1,216,921)	(8,944,607)
Total recognized in nonoperating expense (revenue)	<u>\$ (1,216,921)</u>	<u>\$ (8,944,607)</u>

**Woods Hole Oceanographic Institution**  
**Notes to Financial Statements**  
**December 31, 2023 and 2022**

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The Institution recognizes the net periodic benefit cost, except for the service cost, in the nonoperating section of the statement of activities. This amounted to \$397,101 and \$880,861 for the years ended December 31, 2023 and 2022, respectively.

	2023	2022
<b>Weighted-average assumptions used to determine benefit obligations at December 31</b>		
Discount rate	5.30 %	5.60 %
<b>Weighted-average assumptions used to determine net periodic benefit cost for years ended December 31</b>		
Discount rate	5.60 %	3.05 %
Expected long-term rate of return on plan assets	N/A	N/A

The plan does not provide prescription drug benefits for post-65 retirees; therefore, there is no anticipated Medicare employer subsidy.

	2023		2022	
	Pre-65	Post-65	Pre-65	Post-65
<b>Assumed health care cost trend rates at December 31,</b>				
Health care cost trend rate assumed for next year	7.0 %	5.5 %	7.0 %	5.5 %
Rate to which the cost trend rate is assumed to decline (the ultimate trend rate)	5.0 %	5.0 %	5.0 %	5.0 %
Year that the rate reaches the ultimate trend rate	2032	2026	2032	2026

**Expected Contributions**

The Institution provides contributions as expenses are incurred. The Institution expects contributions to the Retiree Medical Plan in 2024 to be equal to the expected benefit in 2024 of \$1,118,218.

**Estimated Future Benefit Payments**

The following benefit payments, which reflect expected future service are expected to be paid as follows:

Years	Benefit Payments
2024	\$ 1,118,218
2025	1,155,340
2026	1,206,437
2027	1,238,364
2028	1,253,682
2029–2033	6,365,691

**Woods Hole Oceanographic Institution**  
**Notes to Financial Statements**  
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**11. Net Assets**

The Institution's endowment consists of 161 individual funds established for a variety of purposes. The endowment includes both donor-restricted endowment funds and funds designed by the Board of Trustees to function as endowments. Net assets associated with endowment funds, including funds designated by the Board of Trustees to function as endowments, are classified and reported based on the existence or absence of donor-imposed restrictions.

At December 31, the net asset composition by type consisted of the following:

	<b>2023</b>		
	<b>Without Donor Restrictions</b>	<b>With Donor Restrictions</b>	<b>Total</b>
<b>Endowment funds</b>			
Perpetual in nature	-	\$ 119,670,559	\$ 119,670,559
Purpose restricted	-	284,417,639	284,417,639
Board designated funds	<u>90,432,868</u>	-	<u>90,432,868</u>
Endowment net assets	90,432,868	404,088,198	494,521,066
Purpose restricted - research	-	65,136,675	65,136,675
Purpose restricted - education	-	3,305,858	3,305,858
Time restricted and other	-	47,548,329	47,548,329
Pension and postretirement benefits	(48,239,754)	-	(48,239,754)
Undesignated	<u>28,293,295</u>	<u>2,000,000</u>	<u>30,293,295</u>
Total net assets	<u>\$ 70,486,409</u>	<u>\$ 522,079,059</u>	<u>\$ 592,565,468</u>

	<b>2022</b>		
	<b>Without Donor Restrictions</b>	<b>With Donor Restrictions</b>	<b>Total</b>
<b>Endowment funds</b>			
Perpetual in nature	\$ -	\$ 117,473,774	\$ 117,473,774
Purpose restricted	-	262,149,677	262,149,677
Board designated funds	<u>85,544,932</u>	-	<u>85,544,932</u>
Endowment net assets	85,544,932	379,623,451	465,168,383
Purpose restricted - research	-	60,121,087	60,121,087
Purpose restricted - education	-	3,435,081	3,435,081
Time restricted and other	-	34,134,987	34,134,987
Pension and postretirement benefits	(48,166,748)	-	(48,166,748)
Undesignated	<u>33,037,397</u>	<u>1,500,000</u>	<u>34,537,397</u>
Total net assets	<u>\$ 70,415,581</u>	<u>\$ 478,814,607</u>	<u>\$ 549,230,188</u>

**Woods Hole Oceanographic Institution**  
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Changes in endowment net assets for the year ended December 31, consisted of the following:

	<b>2023</b>		
	<b>Without Donor Restrictions</b>	<b>With Donor Restrictions</b>	<b>Total</b>
<b>Net assets beginning of year</b>	\$ 85,544,932	\$ 379,623,451	\$ 465,168,383
Investment return			
Net appreciation	8,853,807	39,926,970	48,780,777
Total investment return	8,853,807	39,926,970	48,780,777
New gifts	218,823	1,976,940	2,195,763
Appropriation of endowment assets for expenditure under spending policy	(4,395,044)	(17,848,956)	(22,244,000)
Change in split interest agreements	210,351	409,792	620,143
<b>Net assets end of year</b>	<b>\$ 90,432,868</b>	<b>\$ 404,088,198</b>	<b>\$ 494,521,066</b>

	<b>2022</b>		
	<b>Without Donor Restrictions</b>	<b>With Donor Restrictions</b>	<b>Total</b>
<b>Net assets beginning of year</b>	\$ 101,374,438	\$ 411,643,327	\$ 513,017,766
Investment return			
Net depreciation	(11,542,999)	(47,865,479)	(59,408,478)
Total investment return	(11,542,999)	(47,865,479)	(59,408,478)
New gifts	(608)	33,206,550	33,205,942
Appropriation of endowment assets for expenditure under spending policy	(4,246,132)	(17,000,868)	(21,247,000)
Change in split interest agreements	(39,767)	(360,079)	(399,846)
<b>Net assets end of year</b>	<b>\$ 85,544,932</b>	<b>\$ 379,623,451</b>	<b>\$ 465,168,383</b>

**12. Liquidity and Availability of Financial Assets**

The Institution's financial assets available within one year of the balance sheet date for general expenditures are as follows:

	<b>2023</b>	<b>2022</b>
Cash and cash equivalents	\$ 9,308,063	\$ 15,296,998
Accounts receivable billed and unbilled	37,564,757	28,515,626
Receivable for investments sold	4,534,113	4,395,044
Pledges receivable	21,755,323	16,521,279
	<b>\$ 73,162,256</b>	<b>\$ 64,728,947</b>

The Institution's endowment funds consist of donor-restricted and Board designated funds. Income from donor-restricted funds are restricted by purpose and are not available for general expenditure. The Institution defines general expenditures as any costs included in total expenses from operating

# Woods Hole Oceanographic Institution

## Notes to Financial Statements

December 31, 2023 and 2022

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activities. As described in Note 2 the Board designated endowment has a spending rate of 5% and 5% will be available for general use within the next twelve months.

The Institution's liquidity management policy is to structure its financial assets to be available as its general expenditures, liabilities and other obligations come due. In addition, the Institution invests cash in excess of daily liquidity needs in short-term investments. To manage liquidity needs the Institution has committed lines of credit in the amount of \$45,000,000 (see Note 8). In addition, the Institution has Board designated funds in the amount of \$90,432,868 which it could draw upon. At December 31, 2023, \$90,432,868 of designated net assets are committed to fund certain research, education and other designated net assets. Both Board designated and donor-restricted endowment contain investments with lock-up provisions that would reduce the total investments that could be available. The Institution's endowment investments include a multi strategy short-term liquidity fund to provide for additional short-term liquidity needs. This fund totaled \$25,012,610 at December 31, 2023 and allows for daily withdrawals (see Note 4 for redemption terms). Board designated funds are categorized as follows at December 31, 2023:

	2023	2022
Board designated for research	\$ 30,324,599	\$ 28,739,725
Board designated for research - Director discretionary Board	1,678,788	1,591,254
designated for general unsponsored program support	57,414,957	54,409,780
Other	<u>1,014,524</u>	<u>804,173</u>
	<u>\$ 90,432,868</u>	<u>\$ 85,544,932</u>

### 13. Commitments and Contingencies

The Defense Contract Audit Agency (DCAA) is responsible for auditing indirect charges to grants and contracts on behalf of the ONR. The Institution and the ONR have settled the years through 2021 with no findings or adjustments for unallowable costs.

The Institution is a defendant in legal proceedings incidental to the nature of its operations. The Institution believes that the outcome of these proceedings will not materially affect its financial position.

### 14. Related Party Transactions

The Institution has transactions such as professional services and other items with organizations where members of the Board of Trustees or Corporation are affiliated with the organizations. Total expenditures for these transactions were \$0 for the years ended December 31, 2023 and 2022.

The Institution has loans due from various employees for education advances and computer purchases. The amounts outstanding are \$784,672 and \$713,080 at December 31, 2023 and 2022, respectively.

**Woods Hole Oceanographic Institution**  
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**15. Schedule of Functional Expenses**

The statement of activities presents expenses by functional programs without distinguishing program versus supporting service expenses (or facilities and administrative (“F&A”) costs). F&A expenses totaled \$78,982,831 for 2023 and have been allocated among the categories presented utilizing a modified total direct cost (“MTDC”) basis. MTDC is a federal government prescribed methodology for allocating F&A costs. While facilities costs are allocated primarily on a square footage basis, administrative costs are allocated proportionally by the total of net direct costs per program plus the program’s share of facilities costs. Net program direct costs include total direct costs per program reduced by certain costs such as equipment, subcontracts (by statute) and other cost attributes negotiated with the Institution’s cognizant agency specific to the Institution which by nature would lead to a disproportional allocation of F&A costs. Functional expenses for the year ended December 31, 2023 and 2022 are as follows:

	Research	Marine Operations	Academic Programs	Other Institution Activities	Un-sponsored Research	Ships and Submersibles	2023 Total
Salaries	\$ 50,269,096	\$ 772,009	\$ 3,210,550	\$ 3,885,596	\$ 2,250,042	\$ 13,424,360	\$ 73,811,653
Fringe benefits	13,774,961	204,322	913,067	1,259,960	639,324	3,371,431	20,163,065
Equipment	23,142,420	3,642,451	2,440	9,188	270,217	405,099	27,471,815
Subcontracts	40,373,352	81,595	-	-	-	-	40,454,947
Supplies	11,344,244	196,429	84,013	147,914	273,748	1,707,938	13,754,286
Travel	3,973,445	249,688	142,485	253,681	153,215	841,982	5,614,496
Outside services	2,971,439	480,557	69,738	2,666,142	30,461	691,984	6,910,321
Utilities	-	8,821	-	124	-	32,526	41,471
Interest	-	-	-	6,155	-	-	6,155
Professional services	575,188	34,000	-	843,813	-	72,298	1,525,299
Repairs and maintenance	1,248,654	4,198	-	16,672	13,042	2,145,230	3,427,796
Insurance	151,164	-	47,454	408,641	75,646	610,937	1,293,842
Other	24,337,381	3,700,984	8,641,402	5,776,782	3,641,146	4,480,861	50,578,556
Ship overhaul	-	1,502,357	-	-	-	-	1,502,357
Ships fuel	25,796	29,387	227	-	3,263	3,893,489	3,952,162
Facilities and administration	62,212,146	3,125,321	2,099,209	4,890,333	(412,945)	7,068,767	78,982,831
Total operating expenses	234,399,286	14,032,119	15,210,585	20,165,001	6,937,159	38,746,902	329,491,052
Nonoperating expense				5,577,629			5,577,629
	<u>\$ 234,399,286</u>	<u>\$ 14,032,119</u>	<u>\$ 15,210,585</u>	<u>\$ 25,742,630</u>	<u>\$ 6,937,159</u>	<u>\$ 38,746,902</u>	<u>\$ 335,068,680</u>

**Woods Hole Oceanographic Institution**  
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	Research	Marine Operations	Academic Programs	Other Institution Activities	Un-sponsored Research	Ships and Submersibles	2022 Total
Salaries	\$ 44,164,661	\$ 734,182	\$ 2,912,978	\$ 3,261,701	\$ 1,331,577	\$ 11,726,722	\$ 64,131,821
Fringe benefits	12,770,870	199,079	885,436	1,275,350	393,183	3,154,875	18,678,793
Equipment	19,378,482	963,942	9,195	104	834,707	1,302,859	22,489,289
Subcontracts	37,459,806	14,870	-	-	4,936	-	37,479,612
Supplies	8,953,266	149,419	77,224	83,092	140,601	2,152,245	11,555,847
Travel	3,343,578	78,230	122,710	186,377	82,890	763,316	4,577,101
Outside services	2,692,425	36,948	56,103	685,292	44,962	393,939	3,909,669
Interest	-	-	-	125	-	-	125
Professional services	339,013	-	-	371,775	-	47,024	757,812
Repairs and maintenance	1,091,296	738,435	-	60,447	960	1,689,389	3,580,527
Insurance	155,015	1,118	34,662	404,819	5,473	596,569	1,197,656
Other	20,790,940	3,762,925	8,343,805	8,222,915	4,901,581	3,999,723	50,021,889
Ship overhaul	-	57,630	-	-	-	-	57,630
Ships fuel	22,068	31,777	758	-	1,866	3,804,536	3,861,005
Facilities and administration	55,272,713	2,977,825	2,426,295	4,685,351	(2,425,040)	7,819,311	70,756,455
Total operating expenses	206,434,133	9,746,380	14,869,166	19,237,348	5,317,696	37,450,507	293,055,230
Nonoperating expense				(2,275,884)			(2,275,884)
	<u>\$ 206,434,133</u>	<u>\$ 9,746,380</u>	<u>\$ 14,869,166</u>	<u>\$ 16,961,464</u>	<u>\$ 5,317,696</u>	<u>\$ 37,450,507</u>	<u>\$ 290,779,346</u>

The category Facilities and Administration in the Schedule of Functional Expenses for the year ended December 31, 2023 includes costs associated with plant operations of \$27,011,994, departmental administration of \$15,167,232, sponsored program administration of \$1,656,874, library costs of \$1,062,855 and general administration of \$31,869,555. The category Facilities and Administration in the Schedule of Functional Expenses for the year ended December 31, 2022 includes costs associated with plant operations of \$24,694,606, departmental administration of \$13,236,876, sponsored program administration of \$2,156,246, library costs of \$1,241,152 and general administration of \$30,019,367.

**16. Subsequent Event**

Management evaluated all events or transactions that occurred after December 31, 2023 through July 22, 2024, the date these financial statements were issued. Subsequent to year end, the Institution received a notice of termination related to a grant agreement between a Grantor and the Institution. The Institution adjusted the financial statements to account for the write off of the remaining \$15,000,000 pledge receivable outstanding as part of this agreement. As a result of the termination, the pledge became uncollectible as of December 31, 2023.

# Woods Hole Oceanographic Institution

## Schedule of Expenditures of Federal Awards

### Year Ended December 31, 2023

Federal Grantor/Pass-Through Grantor/Program or Cluster Title	Assistance Listing Number	Direct	Pass-Through	Pass-Through Entity	Pass-Through Entity Sponsor Number	Total Expenditures	Passed to Sub-Recipients
<b>Research and Development Cluster</b>							
<b>Department of Agriculture (USDA)</b>							
<b>United States Department of Agriculture (USDA)</b>							
Grants For Agricultural Research, Special Research Grants	10.200	\$ -	\$ 75,359	University of Rhode Island	0008364/02152021	\$ 75,359	\$ -
<i>Subtotal Department of Agriculture</i>		-	75,359			75,359	-
<b>Department of Commerce</b>							
<b>National Oceanic and Atmospheric Administration (NOAA)</b>							
Ocean Exploration	11.011	664,757	-			664,757	-
Integrated Ocean Observing System (IOOS)	11.012	386,519	-			386,519	70,129
Integrated Ocean Observing System (IOOS)	11.012	-	60,612	University of Delaware	UDR0000083	60,612	-
Integrated Ocean Observing System (IOOS)	11.012	-	11,296	Monterey Bay Aquarium Research Institute	PO 2111131	11,296	-
Integrated Ocean Observing System (IOOS)	11.012	-	172,855	Northeastern Regional Association of Coastal Ocean Observing	N21A013022	172,855	-
Integrated Ocean Observing System (IOOS)	11.012	-	98,133	Northeastern Regional Association of Coastal Ocean Observing	N21A013021	98,133	-
Integrated Ocean Observing System (IOOS)	11.012	-	135,947	Northeastern Regional Association of Coastal Ocean Observing	N21A013020	135,947	-
Integrated Ocean Observing System (IOOS)	11.012	-	1,211	University of Maine	5100733178	1,211	-
Integrated Ocean Observing System (IOOS)	11.012	-	5,379	University of California San Diego	KR 704815	5,379	-
Integrated Ocean Observing System (IOOS)	11.012	-	11,154	Woods Hole Group	PO23FIN02327	11,154	-
Integrated Ocean Observing System (IOOS)	11.012	-	2,457	Gulf of Maine Research Institute	7863	2,457	-
Integrated Ocean Observing System (IOOS)	11.012	-	5,485	University of Maine	5100718399	5,485	-
Ocean Acidification Program (OAP)	11.017	50,991	-			50,991	4,801
NOAA Small Business Innovation Research (SBIR) Program	11.021	-	9,294	Aerodyne Research	ARI 12059 1	9,294	-
NOAA Small Business Innovation Research (SBIR) Program	11.021	-	3,631	Coastal Ocean Vision Inc	3135	3,631	-
NOAA Small Business Innovation Research (SBIR) Program	11.021	-	30,127	Oceans Balance	OB NOAA SBIR II Subaward 02	30,127	-
Bipartisan Budget Act of 2018	11.022	-	199,011	University of the Virgin Islands	233143 01	199,011	-
Cooperative Institute (Inter-Agency Funded Activities)	11.405	456,915	-			456,915	76,071
Cooperative Institute (Inter-Agency Funded Activities)	11.405	-	1,283,428	University of Rhode Island	0009802 112822 WHOI	1,283,428	-
Sea Grant Support	11.417	2,389,022	-			2,389,022	931,596
Sea Grant Support	11.417	-	1,648	State University of New York	80794 3 1158304	1,648	1,648
Sea Grant Support	11.417	-	13,943	University of Maine	UMS1322	13,943	-
Sea Grant Support	11.417	-	27,732	University of California Santa Barbara	KK2243	27,732	-
Sea Grant Support	11.417	-	91,352	University of Southern California	SCON 00004140	91,352	-
Sea Grant Support	11.417	-	1,478	University of Connecticut Connecticut Sea Grant College Program	364469	1,478	1,478
Sea Grant Support	11.417	-	57,168	Massachusetts Institute of Technology Sea Grant	S4610	57,168	-
Sea Grant Support	11.417	-	26,314	Massachusetts Institute of Technology Sea Grant	s5968 PO 882017	26,314	-
Sea Grant Support	11.417	-	14,548	University of Connecticut	164278120	14,548	-
Sea Grant Support	11.417	-	30,382	University of Connecticut	368912	30,382	6,871
Sea Grant Support	11.417	-	9,514	University of Rhode Island	0009680 02012023	9,514	-
Coastal Zone Management Administration Awards	11.419	-	69,671	University of Oregon	290550C	69,671	-
Fisheries Development and Utilization Research and Development Grants and Cooperative Agreements Program	11.427	138,420	-			138,420	38,844
Fisheries Development and Utilization Research and Development Grants and Cooperative Agreements Program	11.427	-	18,577	Marine Biological Laboratory	Po0054493	18,577	-
Climate and Atmospheric Research	11.431	1,100,839	-			1,100,839	46,445
National Oceanic and Atmospheric Administration (NOAA) Cooperative Institutes	11.432	13,963,063	-			13,963,063	4,371,471
National Oceanic and Atmospheric Administration (NOAA) Cooperative Institutes	11.432	-	1,132,015	University of Rhode Island	0007525 102212019WHOI	1,132,015	(868)
Unallied Science Program	11.472	-	61,058	Pacific States Marine Fisheries Commission	22 096G	61,058	-
Unallied Science Program	11.472	-	103,226	North Pacific Research Board	2212	103,226	-
Center for Sponsored Coastal Ocean Research Coastal Ocean Program	11.478	1,774,895	-			1,774,895	810,550
Center for Sponsored Coastal Ocean Research Coastal Ocean Program	11.478	-	119,420	Virginia Institute of Marine Science	722374 712684	119,420	-
Center for Sponsored Coastal Ocean Research Coastal Ocean Program	11.478	-	5,709	University of Rhode Island	0008460 02042021	5,709	-
Center for Sponsored Coastal Ocean Research Coastal Ocean Program	11.478	-	112,413	University of California San Diego	704101	112,413	-
Center for Sponsored Coastal Ocean Research Coastal Ocean Program	11.478	-	842	University of Maryland Center for Environmental Science	Visa 6559	842	-
MC2954	11.RD	694	-			694	-
VS0780	11.RD	1,022	-			1,022	-
VS5403	11.RD	809	-			809	-
<i>Subtotal Department of Commerce</i>		20,927,946	3,927,030			24,854,976	6,359,036

The accompanying notes are an integral part of this schedule.

# Woods Hole Oceanographic Institution

## Schedule of Expenditures of Federal Awards

### Year Ended December 31, 2023

Federal Grantor/Pass-Through Grantor/Program or Cluster Title	Assistance Listing Number	Direct	Pass-Through	Pass-Through Entity	Pass-Through Entity Sponsor Number	Total Expenditures	Passed to Sub-Recipients
<b>Department of Defense</b>							
<b>Department of the Navy, Office of the Chief of Naval Research</b>							
Basic and Applied Scientific Research	12.300	\$ 24,901,385	\$ -			\$ 24,901,385	\$ 462,985
Basic and Applied Scientific Research	12.300	-	787	University of Texas at Austin	2022c00535	787	-
Basic and Applied Scientific Research	12.300	-	65,985	Oregon State University	N0372A A	65,985	-
Basic and Applied Scientific Research	12.300	-	223,273	University of California San Diego	PUR00040437	223,273	-
Basic and Applied Scientific Research	12.300	-	98,736	University of Texas at Austin	2023C00487	98,736	-
Basic and Applied Scientific Research	12.300	-	35,564	University of Washington	UWSC10595	35,564	-
Basic and Applied Scientific Research	12.300	-	26,060	Sofar Ocean	WHOI proposal 29941 00	26,060	-
Basic and Applied Scientific Research	12.300	-	124,764	University of California San Diego	703459	124,764	-
Basic and Applied Scientific Research	12.300	-	14,256	Carnegie Mellon University	1140217 443508	14,256	-
Basic and Applied Scientific Research	12.300	-	136,538	University of Washington	UWSC14299	136,538	-
Basic and Applied Scientific Research	12.300	-	48,062	University of California San Diego	704512	48,062	-
Basic and Applied Scientific Research	12.300	-	1,340,891	University of California San Diego	KR 704989	1,340,891	-
Basic and Applied Scientific Research	12.300	-	221,084	University of California San Diego	Subaward 705601	221,084	-
Basic and Applied Scientific Research	12.300	-	90,756	University of California San Diego	PUR00516982	90,756	-
Basic and Applied Scientific Research	12.300	-	23,385	University of St Andrews	18390/19698 Research Collaboration Agreement	23,385	-
MC6071	12.RD	4,126	-			4,126	-
N0001417C7006	12.RD	(334)	-			(334)	-
N0001418C2036	12.RD	95,992	-			95,992	-
N0001419C2016	12.RD	234,895	-			234,895	-
N0001420C2053	12.RD	2,200,131	-			2,200,131	-
N0001421C2028	12.RD	1,977,403	-			1,977,403	-
N6660418DC828	12.RD	5,419,109	-			5,419,109	-
N6660423Z2349	12.RD	7,029	-			7,029	-
SPE8EJ21D0025	12.RD	-	2,067	Huntington Ingalls Industries	PO00073379	2,067	-
SPE8EL21FJ02S	12.RD	-	4,135	Huntington Ingalls Industries	PO00073982	4,135	-
N0001420C2039	12.RD	-	83,825	University of California San Diego	PUR00548868	83,825	-
N0001420C2039	12.RD	-	15,067	University of California San Diego	PUR00682292	15,067	-
N000142212295	12.RD	-	25,108	University of Rhode Island	0000187778	25,108	-
N000142312065	12.RD	-	16,559	Carnegie Mellon University	1140225 468573	16,559	-
N0002413D6400	12.RD	-	23,838	The Johns Hopkins University	175369	23,838	-
N0002417D6421	12.RD	-	19,885	University of Texas at Austin	2023C00243	19,885	-
N0002418D6401	12.RD	-	256,888	Pennsylvania State University	S23-35	256,888	-
N0002421D6400	12.RD	-	39,115	University of Washington	EI 1406327	39,115	-
N0002421D6400	12.RD	-	6,500	University of Washington	0100009911	6,500	-
N0002422D6404	12.RD	-	76,184	The Johns Hopkins University	181429	76,184	-
N0017804D4066	12.RD	-	35,995	Serco Inc	P000047395	35,995	-
N0017819D8361	12.RD	-	23,165	Purvis Systems	53018	23,165	-
N6600120C4005	12.RD	-	575,164	Applied Physical Sciences Corp	APS 20 04	575,164	-
N6600120C4005	12.RD	-	7,939	Applied Physical Sciences Corp	23 0028385	7,939	-
N6660421DC000	12.RD	-	10,337	Huntington Ingalls Industries	PO00075267	10,337	-
N6660421DC000	12.RD	-	41,348	Huntington Ingalls Industries	PO00075401	41,348	-
N666042392102	12.RD	-	16,674	L3Harris Technologies	7102000679	16,674	-
N6833523C0142	12.RD	-	51,548	Armada Marine Robotics Inc	NAV102	51,548	-
N6833523C0729	12.RD	-	4,948	Heat Light and Sound Research Inc	N6833523C0729	4,948	-
SPE8EJ21D0020	12.RD	-	20,997	ADS Inc	1199079	20,997	-
SPE8EL23F13ER	12.RD	-	46,309	ADS Inc	1276750	46,309	-
SPE8EL23F16TE	12.RD	-	53,173	ADS Inc	1298335	53,173	-
<b>Defense POW/MIA Accounting Agency (DPAA)</b>							
Past Conflict Accounting	12.740	-	80,824	University of California San Diego	704542	80,824	-
<b>US Army</b>							
Basic, Applied, and Advanced Research in Science and Engineering	12.630	-	65,866	Mississippi State University	191000.3614	65,866	-
W912HQ20C0076	12.RD	-	145,466	University of St Andrews	18390	145,466	-

The accompanying notes are an integral part of this schedule.

# Woods Hole Oceanographic Institution

## Schedule of Expenditures of Federal Awards

### Year Ended December 31, 2023

Federal Grantor/Pass-Through Grantor/Program or Cluster Title	Assistance Listing Number	Direct	Pass-Through	Pass-Through Entity	Pass-Through Entity Sponsor Number	Total Expenditures	Passed to Sub-Recipients
W912HZ2020053	12.RD	\$ -	\$ 2,210	University of Georgia	PO E1373735	\$ 2,210	\$ -
<b>US Army Corps of Engineers (USACE)</b>							
Basic, Applied, and Advanced Research in Science and Engineering	12.630	35,915				35,915	
W912HQ19C0040	12.RD	133,243	-			133,243	81,405
<b>Defense Advanced Research Projects Agency (DARPA)</b>							
HR001120C0100	12.RD	-	51,782	Applied Physical Sciences Corp	22 0025498	51,782	-
HR001120C0100	12.RD	-	56,188	Applied Physical Sciences Corp	22 0026399	56,188	-
HR001122C0021	12.RD	-	2,020,481	Northrop Grumman Systems Corporation	5300036186	2,020,481	-
HR001122C0115	12.RD	284,007	-			284,007	191,607
<b>US Air Force</b>							
FA807518D0002	12.RD	-	363,934	Alion Science and Technology Corporation	SUB1151615	363,934	-
FA807518D0002	12.RD	-	231,392	Alion Science and Technology Corporation	P000028842	231,392	-
FA807523F0001	12.RD	-	198,507	Science Applications International Corp	P010274144	198,507	-
<i>Subtotal Department of Defense</i>		<u>35,292,901</u>	<u>7,123,559</u>			<u>42,416,460</u>	<u>735,997</u>
<b>Department of Interior</b>							
<b>Bureau of Ocean Energy Management</b>							
Bureau of Ocean Energy Management (BOEM) Environmental Studies (ES)	15.423	217,955	-			217,955	-
Bureau of Ocean Energy Management (BOEM) Environmental Studies (ES)	15.423	-	127,030	University of Alaska Fairbanks	UA 22 0029 PO P0553784	127,030	-
Bureau of Ocean Energy Management (BOEM) Environmental Studies (ES)	15.423	-	53,969	University of Rhode Island	0008759 02112021	53,969	-
<b>National Park Service</b>							
Natural Resource Stewardship	15.944	77,821	-			77,821	-
<b>US Geological Survey</b>							
U.S. Geological Survey Research and Data Collection	15.808	1,845,882	-			1,845,882	-
140G0218D0006	15.RD	1,665	-			1,665	-
140G0220D0001	15.RD	188,960	-			188,960	-
140M0121D0003	15.RD	-	314,272	HDR Inc	1000300002066	314,272	-
VISA	15.RD	750	-			750	-
Visa 3774	15.RD	384	-			384	-
<i>Subtotal Department of Interior</i>		<u>2,333,417</u>	<u>495,271</u>			<u>2,828,688</u>	<u>-</u>
<b>National Aeronautics and Space Administration</b>							
Science	43.001	9,724,959	-			9,724,959	1,810,847
Science	43.001	-	28,106	Ball Corporation	22MES0003	28,106	-
Science	43.001	-	21,526	New Mexico Tech	P0020052	21,526	-
Science	43.001	-	16,115	University of Colorado	1560578	16,115	-
Science	43.001	-	9,945	University of North Carolina at Chapel Hill	5122918	9,945	-
Science	43.001	-	50,855	University of Maine	UMS1295	50,855	-
Science	43.001	-	42,329	Jet Propulsion Laboratory	1670515	42,329	-
Science	43.001	-	55,717	The Johns Hopkins University	172026	55,717	-
Science	43.001	-	86,049	University of Washington	57415	86,049	-
Science	43.001	-	49,624	Pennsylvania State University	S002941-NASA	49,624	-
Science	43.001	-	76,941	University Corporation for Atmospheric Research	3046	76,941	-
Science	43.001	-	363	Massachusetts Institute of Technology	S5043 PO 453237	363	-
Science	43.001	-	8,059	University of Washington	UWSC13898	8,059	-
Science	43.001	-	2,586	Massachusetts Institute of Technology	S4786 PO 283538	2,586	-
Science	43.001	-	62,067	Atmospheric and Environmental Research Inc	P2375 001	62,067	-
Science	43.001	-	24,019	The Johns Hopkins University	155890	24,019	-
Science	43.001	-	168,315	University of Utah	10066133-01-WHOI	168,315	-
Science	43.001	-	32,228	Bowdoin College	2017 003	32,228	-
Science	43.001	-	105,861	Rensselaer Polytechnic Institute	A19 0117 S009	105,861	-
Science	43.001	-	209,598	University of North Carolina at Chapel Hill	5127027	209,598	-
Science	43.001	-	112,420	Colorado State University	G 03671 01	112,420	-
Science	43.001	-	12,509	University of Maryland	146489 Z6547201	12,509	-

The accompanying notes are an integral part of this schedule.

# Woods Hole Oceanographic Institution

## Schedule of Expenditures of Federal Awards

### Year Ended December 31, 2023

Federal Grantor/Pass-Through Grantor/Program or Cluster Title	Assistance Listing Number	Direct	Pass-Through	Pass-Through Entity	Pass-Through Entity Sponsor Number	Total Expenditures	Passed to Sub-Recipients
Science	43.001	\$ -	\$ 29,053	San Diego State University	D9053 04 SA00 59665A 7806	\$ 29,053	-
Science	43.001	-	12,411	Desert Research Institute	GR18022	12,411	-
Science	43.001	-	6,942	Jet Propulsion Laboratory	1619027	6,942	-
<i>Subtotal National Aeronautics and Space Administration</i>		<u>9,724,959</u>	<u>1,223,638</u>			<u>10,948,597</u>	<u>1,810,847</u>
<b>National Science Foundation</b>							
Engineering	47.041	695,573	-			695,573	-
Mathematical and Physical Sciences	47.049	90,954	-			90,954	-
Geosciences	47.050	131,051,856	-			131,051,856	26,087,549
Geosciences	47.050	-	662	Western Washington University	VISA3001	662	-
Geosciences	47.050	-	31,892	Florida Atlantic University	WR K236	31,892	-
Geosciences	47.050	-	49,808	Lamont Doherty Earth Observatory of Columbia University	22K GG009393 04	49,808	-
Geosciences	47.050	-	317,446	Monterey Bay Aquarium Research Institute	PO 2110497	317,446	-
Geosciences	47.050	-	34,829	Virginia Institute of Marine Sciences	720802 712683	34,829	-
Geosciences	47.050	-	96,766	University of the Virgin Islands	203108 04	96,766	-
Geosciences	47.050	-	2,089,012	Monterey Bay Aquarium Research Institute	2010988	2,089,012	-
Geosciences	47.050	-	17,673	University of Hawaii	MA 1394	17,673	-
Geosciences	47.050	-	6,836	University of Hawaii	MA1407	6,836	-
Geosciences	47.050	-	251,828	University of California San Diego	128951830	251,828	-
Geosciences	47.050	-	56,336	University of California Santa Cruz	A210234S001	56,336	-
Geosciences	47.050	-	11,939	University of Washington	PO 62040	11,939	-
Geosciences	47.050	-	80,780	Bermuda Institute of Ocean Sciences	212285	80,780	-
Geosciences	47.050	-	860	Lamont Doherty Earth Observatory of Columbia University	22N GG009393-04 PO G15341	860	-
Geosciences	47.050	-	81,472	Columbia University	22I GG009393-04 PO G15341	81,472	-
Geosciences	47.050	-	4,748	University of Texas at Austin	PO 2023A22613	4,748	-
Geosciences	47.050	-	134,643	University of Georgia	00002638	134,643	-
Geosciences	47.050	-	6,897	Virginia Institute of Marine Sciences	PO Z0033080	6,897	-
Geosciences	47.050	-	3,006	University of the Virgin Islands	203111 01	3,006	-
Geosciences	47.050	-	18,108	Lamont Doherty Earth Observatory of Columbia University	22J GG009393 04	18,108	-
Geosciences	47.050	-	2,478	University of Florida	00003891	2,478	-
Geosciences	47.050	-	48,980	University of Southern California	USC01 2000064039	48,980	-
Geosciences	47.050	-	19,780	Lamont Doherty Earth Observatory of Columbia University	22L GG009393 04	19,780	-
Geosciences	47.050	-	4,413	Northeastern University	AE1004	4,413	-
Geosciences	47.050	-	90,643	University of Massachusetts Dartmouth	24315	90,643	-
Geosciences	47.050	-	17,725	Appalachian State University	PO 054388	17,725	-
Geosciences	47.050	-	259,783	University of California San Diego	704610	259,783	-
Geosciences	47.050	-	243,475	Oregon State University	PO 244688	243,475	-
Geosciences	47.050	-	172,435	University of California San Diego	KR 704776	172,435	-
Geosciences	47.050	-	2,301	University of California San Diego	PO KR704949	2,301	-
Geosciences	47.050	-	1,430,445	University of Washington	0100015128	1,430,445	-
Geosciences	47.050	-	34,974	Columbia University	0000255310	34,974	-
Geosciences	47.050	-	22,605	Columbia University	22E GG009393 04	22,605	-
Geosciences	47.050	-	67,496	Columbia University	22F GG009393 04	67,496	-
Geosciences	47.050	-	204,242	Lamont Doherty Earth Observatory of Columbia University	2 GGO15488	204,242	-
Geosciences	47.050	-	15,109	University of California San Diego	705998	15,109	-
Geosciences	47.050	-	2,999	Lehigh University	PU076180	2,999	-
Geosciences	47.050	-	12,642	Rice University	X03087203	12,642	-
Geosciences	47.050	-	8,880	Stanford University	63217302	8,880	-
Geosciences	47.050	-	(227)	University of Rhode Island	7337	(227)	-
Geosciences	47.050	-	5,418	University of Wyoming	PO 378629	5,418	-
Geosciences	47.050	-	251	Lamont Doherty Earth Observatory of Columbia University	22C GG009393 04	251	-
Geosciences	47.050	-	77,763	Lamont Doherty Earth Observatory of Columbia University	22G GG009393 04	77,763	-
Geosciences	47.050	-	31,689	University of California San Diego	99779473	31,689	-
Geosciences	47.050	-	38,867	University of California San Diego SCRIPPS	PUR00639568	38,867	-
Geosciences	47.050	-	2,841	University of California San Diego	131259736	2,841	-

The accompanying notes are an integral part of this schedule.

# Woods Hole Oceanographic Institution

## Schedule of Expenditures of Federal Awards

### Year Ended December 31, 2023

Federal Grantor/Pass-Through Grantor/Program or Cluster Title	Assistance Listing Number	Direct	Pass-Through	Pass-Through Entity	Pass-Through Entity Sponsor Number	Total Expenditures	Passed to Sub-Recipients
Geosciences	47.050	\$ -	\$ 553	University of Minnesota	PO 002499862	\$ 553	\$ -
Computer and Information Science and Engineering	47.070	9,355	-			9,355	-
Computer and Information Science and Engineering	47.070	-	7,206	Woodwell Climate Research Center	AGX624 03	7,206	-
Biological Sciences	47.074	1,027,526	-			1,027,526	28,723
Biological Sciences	47.074	-	87,883	Rutgers University	IOS-1923297	87,883	-
Biological Sciences	47.074	-	17,259	Marine Biological Laboratory	53522	17,259	-
Biological Sciences	47.074	-	748	Harvard University	CC3483	748	-
STEM Education	47.076	146,729	-			146,729	57,583
Polar Programs	47.078	5,810,564	-			5,810,564	-
Polar Programs	47.078	-	2,210	Florida State University	VISA 1148	2,210	-
Polar Programs	47.078	-	5,268	Brown University	PO PUR0131440	5,268	-
Polar Programs	47.078	-	2,567	University of Massachusetts Dartmouth	D001441993	2,567	-
Polar Programs	47.078	-	36,041	University of Georgia	2688	36,041	-
Polar Programs	47.078	-	6,188	Rutgers University	3070	6,188	-
Polar Programs	47.078	-	103,081	University of Washington	UWSC13593	103,081	-
Polar Programs	47.078	-	36,038	University of Washington	UWSC13728	36,038	-
Polar Programs	47.078	-	13,257	Florida State University	PO FS23025350	13,257	-
Polar Programs	47.078	-	19,953	University of Massachusetts Dartmouth	36087	19,953	-
Polar Programs	47.078	-	3,586	University of Washington	BPO 73954	3,586	-
Office of International Science and Engineering	47.079	189,045	-			189,045	-
Office of International Science and Engineering	47.079	-	107,718	University of South Alabama	A170170S003	107,718	-
Office of International Science and Engineering	47.079	-	50,121	Bigelow Laboratory for Ocean Sciences	22 002	50,121	-
Office of International Science and Engineering	47.079	-	60,377	University of Texas at Austin	00000012	60,377	-
Integrative Activities	47.083	262,919	-			262,919	-
Integrative Activities	47.083	-	34,553	University of Cincinnati	013204 002	34,553	-
Integrative Activities	47.083	-	1,425	University of Florida	SUB00003314	1,425	-
NSF Technology, Innovation, and Partnerships	47.084	2,339,169	-			2,339,169	1,184,581
NSF Technology, Innovation, and Partnerships	47.084	-	4,361	Project Vesta	22 0002	4,361	-
<i>Subtotal National Science Foundation</i>		<u>141,623,690</u>	<u>6,713,941</u>			<u>148,337,631</u>	<u>27,358,436</u>
<b>Environmental Protection Agency</b>							
Science to Achieve Results (STAR) Research Program	66.509	260,083	-			260,083	77,693
<i>Subtotal Environmental Protection Agency</i>		<u>260,083</u>	<u>-</u>			<u>260,083</u>	<u>77,693</u>
<b>Department of Energy</b>							
Office of Science Financial Assistance Program	81.049	35,106	-			35,106	-
Office of Science Financial Assistance Program	81.049	-	185,437	3Newable LLC	702A.1.WEC-UVC.WH	185,437	-
Renewable Energy Research and Development	81.087	1,768,189	-			1,768,189	318,484
Renewable Energy Research and Development	81.087	-	21,706	Duke University	323 000017	21,706	-
Renewable Energy Research and Development	81.087	-	29,713	Worcester Polytechnic Institute	10637-GR	29,713	-
Advanced Research Projects Agency-Energy	81.135	171,399	-			171,399	42,107
Advanced Research Projects Agency-Energy	81.135	-	90,782	University of Alaska	UAF 19 0029	90,782	-
Advanced Research Projects Agency-Energy	81.135	-	34,039	University of California Santa Barbara	KK2304	34,039	-
DEAR000912	81.RD	-	110,213	Marine Biological Laboratory	53718	110,213	-
DEEE0008930	81.RD	-	89,834	New York State Energy Research and Development Authority	154677	89,834	-
DEAC0205CH11231	81.RD	-	24,594	University of Washington	BPO47547 66 1981	24,594	-
Visa 2782	81.RD	-	5,418	Oak Ridge National Laboratory	Visa 2782	5,418	-
<i>Subtotal Department Of Energy</i>		<u>1,974,694</u>	<u>591,736</u>			<u>2,566,430</u>	<u>360,591</u>
<b>Department of Health And Human Services</b>							
<b>National Institutes Of Health</b>							
Environmental Health	93.113	939,701	-			939,701	66,493
Environmental Health	93.113	-	149,395	University of California Davis	A22 2213 S001	149,395	-
Environmental Health	93.113	-	65,046	European Molecular Biology Laboratory	WH03338 01	65,046	-
Environmental Health	93.113	-	76,054	Florida Gulf Coast University	17056 NIH WHOI 01	76,054	-
Biomedical Research and Research Training	93.859	408,083	-			408,083	-
<i>Subtotal Department of Health and Human Services</i>		<u>1,347,784</u>	<u>290,495</u>			<u>1,638,279</u>	<u>66,493</u>
<b>Total Research &amp; Development Cluster</b>		<u>213,485,474</u>	<u>20,441,029</u>			<u>233,926,503</u>	<u>36,769,093</u>

The accompanying notes are an integral part of this schedule.

# Woods Hole Oceanographic Institution

## Schedule of Expenditures of Federal Awards

### Year Ended December 31, 2023

Federal Grantor/Pass-Through Grantor/Program or Cluster Title	Assistance Listing Number	Direct	Pass-Through	Pass-Through Entity	Pass-Through Entity Sponsor Number	Total Expenditures	Passed to Sub-Recipients
<i>Economic Development Cluster</i>							
<i>Department of Commerce</i>							
<b>Economic Development Administration(EDA)</b>							
Economic Adjustment Assistance	11.307	\$ 167,873	\$ -			\$ 167,873	\$ -
<i>Subtotal Department of Commerce</i>		<u>167,873</u>	<u>-</u>			<u>167,873</u>	<u>-</u>
<b>Total Economic Development Cluster</b>		<u>167,873</u>	<u>-</u>			<u>167,873</u>	<u>-</u>
<b>Total Federal Award Expenditures</b>		<u>\$ 213,653,347</u>	<u>\$ 20,441,029</u>			<u>\$ 234,094,376</u>	<u>\$ 36,769,093</u>

The accompanying notes are an integral part of this schedule.

# Woods Hole Oceanographic Institution

## Notes to Schedule of Expenditures of Federal Awards

### Year Ended December 31, 2023

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#### 1. Summary of Significant Accounting Policies

##### **Basis of Presentation**

The accompanying Schedule of Expenditures of Federal Awards (the "Schedule") has been prepared using the accrual basis of accounting and in accordance with Title 2 U.S. *Code of Federal Regulations* Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance). The purpose of the Schedule is to present a summary of those activities of the Institution for the year ended December 31, 2023 which have been financed by the U.S. Government (federal awards). For purposes of the Schedule, federal awards include all federal assistance entered into directly between the federal government and the Institution and federal funds awarded to the Institution by a prime recipient. Because the Schedule presents only a selected portion of the activities of the Institution, it is not intended to and does not present the financial position, changes in net assets, or cash flows of the Institution. Negative amounts represent adjustments to amounts reported in prior years in the normal course of business. Full Assistance Listing Number and pass-through entity identification numbers are presented when available.

#### 2. Fringe Benefits and Indirect Costs

The Institution recovers fringe benefits and indirect costs associated with federal award programs pursuant to fixed rates with carryforward provisions negotiated annually with the Office of Naval Research (ONR). The Defense Contract Audit Agency (DCAA) has completed an audit of the rates used by the Institution through the fiscal year ended December 31, 2021. The 2023 Indirect Cost recovery rates, which are fixed with carryforward provisions, include the impact of prior year settlements. The Institution applies its predetermined approved facilities and administrative rate when charging indirect costs to federal awards rather than the 10% de minimis cost rate as described in Section 200.414 of the Uniform Guidance.

**Part II – Reports on Internal Control and Compliance  
and Other Matters**



**Report of Independent Auditors on Internal Control Over Financial Reporting and on Compliance and Other Matters Based on an Audit of Financial Statements Performed in Accordance with *Government Auditing Standards***

To the Board of Trustees of  
Woods Hole Oceanographic Institution

We have audited, in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States, the financial statements of Woods Hole Oceanographic Institution (the "Institution"), which comprise the statements of financial position as of December 31, 2023, and the related statement of activities and of cash flows for the year then ended, including the related notes (collectively referred to as the "financial statements"), and have issued our report thereon dated July 22, 2024.

**Report on Internal Control Over Financial Reporting**

In planning and performing our audit of the financial statements, we considered the Institution's internal control over financial reporting (internal control) as a basis for designing audit procedures that are appropriate in the circumstances for the purpose of expressing our opinion on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the Institution's internal control. Accordingly, we do not express an opinion on the effectiveness of the Institution's internal control.

A *deficiency in internal control* exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A *material weakness* is a deficiency, or a combination of deficiencies, in internal control such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected, on a timely basis. A *significant deficiency* is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses or significant deficiencies may exist that were not identified.

**Report on Compliance and Other Matters**

As part of obtaining reasonable assurance about whether the Institution's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts and grant agreements, noncompliance with which could have a direct and material effect on the financial statements. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.



**Purpose of this Report**

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the Institution's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the Institution's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

PricewaterhouseCoopers LLP

Boston, Massachusetts

July 22, 2024



## **Report of Independent Auditors on Compliance for Each Major Program and on Internal Control Over Compliance Required by Uniform Guidance**

To the Board of Trustees of  
Woods Hole Oceanographic Institution

### **Report on Compliance for Each Major Federal Program**

#### ***Opinion on Each Major Federal Program***

We have audited Woods Hole Oceanographic Institution's (the "Institution") compliance with the types of compliance requirements identified as subject to audit in the OMB *Compliance Supplement* that could have a direct and material effect on each of the Institution's major federal programs for the year ended December 31, 2023. The Institution's major federal programs are identified in the summary of auditor's results section of the accompanying schedule of findings and questioned costs.

In our opinion, the Institution complied, in all material respects, with the compliance requirements referred to above that could have a direct and material effect on each of its major federal programs for the year ended December 31, 2023.

#### ***Basis for Opinion on Each Major Federal Program***

We conducted our audit of compliance in accordance with auditing standards generally accepted in the United States of America (US GAAS; the standards applicable to financial audits contained in Government Auditing Standards issued by the Comptroller General of the United States; and the audit requirements of Title 2 U.S. *Code of Federal Regulations Part 200, Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance). Our responsibilities under those standards and the Uniform Guidance are further described in the Auditors' Responsibilities for the Audit of Compliance section of our report.

We are required to be independent of the Institution and to meet our other ethical responsibilities, in accordance with relevant ethical requirements relating to our audit. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion on compliance for each major federal program. Our audit does not provide a legal determination of the Institution's compliance with the compliance requirements referred to above.

#### ***Responsibilities of Management for Compliance***

Management is responsible for compliance with the requirements referred to above and for the design, implementation, and maintenance of effective internal control over compliance with the requirements of laws, statutes, regulations, rules and provisions of contracts or grant agreements applicable to the Institution's federal programs.

#### ***Auditors' Responsibilities for the Audit of Compliance***

Our objectives are to obtain reasonable assurance about whether material noncompliance with the compliance requirements referred to above occurred, whether due to fraud or error, and express an opinion on the Institution's compliance based on our audit. Reasonable assurance is a high level of



assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with US GAAS, *Government Auditing Standards*, and the Uniform Guidance will always detect material noncompliance when it exists. The risk of not detecting material noncompliance resulting from fraud is higher than for that resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Noncompliance with the compliance requirements referred to above is considered material, if there is a substantial likelihood that, individually or in the aggregate, it would influence the judgment made by a reasonable user of the report on compliance about the Institution's compliance with the requirements of each major federal program as a whole.

In performing an audit in accordance with US GAAS, *Government Auditing Standards*, and the Uniform Guidance, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material noncompliance, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the Institution's compliance with the compliance requirements referred to above and performing such other procedures as we considered necessary in the circumstances.
- Obtain an understanding of the Institution's internal control over compliance relevant to the audit in order to design audit procedures that are appropriate in the circumstances and to test and report on internal control over compliance in accordance with the Uniform Guidance, but not for the purpose of expressing an opinion on the effectiveness of the Institution's internal control over compliance. Accordingly, no such opinion is expressed.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and any significant deficiencies and material weaknesses in internal control over compliance that we identified during the audit.

### **Report on Internal Control Over Compliance**

*A deficiency in internal control over compliance* exists when the design or operation of a control over compliance does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, noncompliance with a type of compliance requirement of a federal program on a timely basis. *A material weakness in internal control over compliance* is a deficiency, or combination of deficiencies, in internal control over compliance, such that there is a reasonable possibility that material noncompliance with a type of compliance requirement of a federal program will not be prevented, or detected and corrected, on a timely basis. *A significant deficiency in internal control over compliance* is a deficiency, or a combination of deficiencies, in internal control over compliance with a type of compliance requirement of a federal program that is less severe than a material weakness in internal control over compliance, yet important enough to merit attention by those charged with governance.

Our consideration of internal control over compliance was for the limited purpose described in the Auditors' Responsibilities for the Audit of Compliance section above and was not designed to identify all deficiencies in internal control over compliance that might be material weaknesses or significant deficiencies in internal control over compliance. Given these limitations, during our audit we did not identify any deficiencies in internal control over compliance that we consider to be material weaknesses, as defined above. However, material weaknesses or significant deficiencies in internal



control over compliance may exist that were not identified.

Our audit was not designed for the purpose of expressing an opinion on the effectiveness of internal control over compliance. Accordingly, no such opinion is expressed.

The purpose of this report on internal control over compliance is solely to describe the scope of our testing of internal control over compliance and the results of that testing based on the requirements of the Uniform Guidance. Accordingly, this report is not suitable for any other purpose.

*PricewaterhouseCoopers LLP*

Boston, Massachusetts  
August 12, 2024

## **Part III – Audit Findings**

# Woods Hole Oceanographic Institution

## Schedule of Findings and Questioned Costs

### Year Ended December 31, 2023

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#### Section I – Summary of Auditor’s Results

##### *Financial Statements*

Type of auditor’s report issued: Unmodified

Internal control over financial reporting:

- Material weakness(es) identified? No
- Significant deficiency(ies) identified that are not considered to be material weaknesses? None reported
- Noncompliance material to financial statements noted? No

##### *Federal Awards*

Internal control over major programs:

- Material weakness(es) identified? No
- Significant deficiency(ies) identified that are not considered to be material weaknesses? None reported

Type of auditor’s report issued on compliance for major programs: Unmodified

Any audit findings disclosed that are required to be reported in accordance with 2 CFR 200.516(a) No

**Identification of major programs: Assistance Listing Number(s)** **Name of Federal Program or Cluster**

Various Research and Development Cluster

Dollar threshold used to distinguish between Type A and Type B programs: \$ 3,000,000

Auditee qualified as a low-risk auditee? Yes

#### Section II – Financial Statement Findings

None noted.

#### Section III - Federal Financial Assistance Findings and Questioned Costs

There are no federal financial assistance findings or questioned costs to report on.

**Woods Hole Oceanographic Institution**  
**Summary Schedule of Prior Audit Findings and Status**  
**Year Ended December 31, 2023**

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There are no findings from prior years that are required to be updated in this report.