Basic Financial Statements and Management's Discussion and Analysis

December 31, 2021



#### **Independent Auditors' Report**

#### The Board of Trustees Bermuda Institute of Ocean Sciences (BIOS), Inc.

#### **Opinions**

We have audited the accompanying financial statements of the business-type activities of Bermuda Institute of Ocean Sciences (BIOS), Inc. (a nonprofit organization), a blended component unit of Arizona State University, as of and for the year ended December 31, 2021, and the related notes to the financial statements, which collectively comprise Bermuda Institute of Ocean Sciences (BIOS), Inc.'s basic financial statements as listed in the table of contents.

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective financial position of the business-type activities of Bermuda Institute of Ocean Sciences (BIOS), Inc. as of December 31, 2021, and the respective changes in financial position and, where applicable, cash flows thereof for the year then ended in accordance with accounting principles generally accepted in the United States of America.

#### **Basis for Opinions**

We conducted our audit in accordance with auditing standards generally accepted in the United States of America ("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 Bermuda Institute of Ocean Sciences (BIOS), Inc., 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 opinions.

#### Emphasis of Matter

As discussed in Note 1 of the financial statements, on October 26, 2021, BIOS and Arizona State University ("ASU"), a related party, executed a services and affiliation agreement. Based on the terms of the agreement and in accordance with Government Accounting Standards Board (GASB) Statement No. 14, BIOS is considered a blended component unit of Arizona State University for financial reporting purposes.

#### 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 Bermuda Institute of Ocean Sciences (BIOS), Inc.'s ability to continue as a going concern for twelve months beyond the financial statement date, including any currently known information that may raise substantial doubt shortly thereafter.

# The Board of Trustees Bermuda Institute of Ocean Sciences (BIOS), Inc. Page 2

#### Auditor's 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 opinions. 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 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 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 BIOS'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 BIOS'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.

The Board of Trustees
Bermuda Institute of Ocean Sciences (BIOS), Inc.
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#### **Other Matters**

#### Required Supplementary Information

PKF O'Connor Davies LLP

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis be presented to supplement the basic financial statements. Such information is the responsibility of management and, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

July 21, 2022

Management's Discussion and Analysis (Unaudited)
December 31, 2021

#### Introduction Overview of the Financial Statements and Financial Analysis

This section of the Bermuda Institute of Ocean Sciences (BIOS) Inc. annual financial report presents management's discussion and analysis of the financial performance of BIOS for the fiscal year December 31, 2021. The discussion and analysis has been prepared by management and should be read in conjunction with the accompanying financial statements and footnotes.

#### **Reporting Entity**

Bermuda Institute of Ocean Sciences (BIOS), Inc., is a US nonprofit marine science research and education institute located in St. George's, Bermuda. BIOS research programs investigate the role of the ocean in global climate, health of coral reefs and international collaborative efforts beyond Bermuda waters. Bermuda's unique location allows researchers to better access deep ocean, furthering our understanding of the biological, chemical and physical processes that underpin the ocean's role in regulating the Earth's climate. BIOS owns and operates the R/V Atlantic Explorer which is equipped with navigation, laboratory, technical systems and equipment that is instrumental in servicing sponsored research.

Education is a key aspect of BIOS's mission, directly linking our scientific research to hands-on learning opportunities for international and local students. BIOS offers education programs from the grade school level to university and internship opportunities. Educator workshops and Visiting Groups also complement our educational offerings.

In 2021 BIOS became a blended component unit of Arizona State University.

#### Introduction to the Financial Statements

BIOS's financial statements include the following:

**Statement of Net Position**: The Statement of Net Position includes all assets and liabilities. Assets and liabilities are reported on an accrual basis as of December 31, 2021.

This statement is presented with three major categories: assets, liabilities and net position. The assets are classified between current and noncurrent. The current assets include cash and cash equivalents, short term investments, accounts receivable, inventory and prepaid expenses. The noncurrent assets include capital assets, long-term investments, and net receivables due in excess of a year.

Liabilities are also classified between current and noncurrent. Current liabilities include accounts payable, loans payable within one year and unearned revenues. Noncurrent liabilities include long term debt payable after one year.

**Statement of Revenues, Expenses and Changes in Net Position:** The Statement of Revenues, Expenses, and Changes in Net Position presents the revenues earned and expenses incurred during the year on an accrual basis.

Management's Discussion and Analysis (Unaudited)
December 31, 2021

#### **Financial Overview**

**Net Position:** Net position may serve over time as a useful indicator of a government's financial position. The following table reflects the condensed Statement of Net Position of BIOS for December 31, 2021 and 2020 showing assets exceeded liabilities by \$40M at December 31, 2021.

#### Condensed Summary of Net Position December 31, 2021 and 2020

			Increase /
	2021	2020	(Decrease)
ASSETS			
Current Assets	\$ 8,436,524	\$ 7,356,088	\$ 1,080,436
Noncurrent Assets	24,536,123	25,196,975	(660,852)
Capital Assets, Net	15,171,949	17,043,269	(1,871,320)
Total Assets	48,144,596	49,596,332	(1,451,736)
LIABILITIES			
Current liabilities	7,027,399	4,560,655	2,466,744
Noncurrent long term obligations	869,445	6,359,213	(5,489,768)
Total Liabilities	7,896,844	10,919,868	(3,023,024)
NET POSITION			
Net Investment in Capital Assets	8,812,736	7,712,620	1,100,116
Restricted:			
Nonexpendable	10,169,141	10,142,641	26,500
Expendable	18,538,978	19,010,760	(471,782)
Unrestricted	2,726,897	1,810,443	916,454
Total Net Position	\$ 40,247,752	\$ 38,676,464	\$ 1,571,288

**Assets:** Total assets decreased by \$1.45M during the year ended December 31, 2021. Current Assets increased by nearly \$1.1M due to affiliation revenue receipts in 2021. Noncurrent Assets decreased by \$2.5M due to a reduction in long term receivables of (\$1.76M) and noncurrent capital asset disposals identified as no longer in use.

**Liabilities**: Current liabilities increased by \$2.5M. Noncurrent liabilities decreased by \$5.5M as its major long term debt instrument became due in 2022, reported as a current liability at year end 2021.

**Net Position:** The \$1.5M increase in net position improved by affiliation revenue.

**Change in Net Position:** The following table compares the revenues and expenses for the current and previous year.

Management's Discussion and Analysis (Unaudited)
December 31, 2021

# Condensed Summary of Revenues, Expenses and Changes in Net Position December 31, 2021 and 2020

	2021	2020	Increase / (Decrease)
OPERATING REVENUE			
Research grants and contracts	\$ 9,401,465	\$ 8,889,673	\$ 511,792
Tuition and fees	317,481	193,036	124,445
Auxiliary enterprises	463,478	397,437	66,041
Total Operating Revenue	10,182,424	9,480,146	702,278
OPERATING EXPENSES			
Instruction	667,162	431,345	235,817
Research	8,348,918	7,212,722	1,136,196
Institutional support	2,865,889	2,673,297	192,592
Operation and maintenance of plant	530,505	504,091	26,414
Auxiliary enterprises	215,484	241,452	(25,968)
Academic support	331,149	257,464	73,685
Depreciation	2,163,788	2,137,043	26,745
Total Operating Expenses	15,122,895	13,457,414	1,665,481
Operating Loss	(4,940,471)	(3,977,268)	(963,203)
NONOPERATING REVENUES (EXPENSES)			
Private gifts	1,960,861	12,546,106	(10,585,245)
Investment return	1,854,949	1,724,688	130,261
Other revenues	4,570	-	4,570
Affiliation and services revenue	3,200,000	-	3,200,000
Interest on debt	(412,360)	(459,363)	47,003
Loss on disposals	(96,261)	-	(96,261)
Insurance proceeds	<del>-</del>	261,057	(261,057)
Net Nonoperating Revenues	6,511,759	14,072,488	(7,560,729)
Change in Net Position	1,571,288	10,095,220	(8,523,932)
NET POSITION			
Beginning of year	38,676,464	28,581,244	10,095,220
End of year	\$ 40,247,752	\$ 38,676,464	\$ 1,571,288

**Revenues:** Total operating revenue increased by \$.7M from the previous year. The increase is largely due to increased research activity (6%) and the return of summer courses in 2021 after COVID related course cancellations in 2020 which increased both tuition and auxiliary revenues.

Management's Discussion and Analysis (Unaudited)
December 31, 2021

**Expenses:** Total operating expense increased by \$1.7M over prior year. Research expenditures increased by \$1.1M due to programmatic growth and relaxation of COVID travel restrictions internationally. \$860K is new spend on a major award renewal with additional collaborators and ship use postponed from 2020. Instructional expenses largely increased due to the return of the fall semester course in 2021.

**Nonoperating expenses and revenues:** Net nonoperating activity decreased by \$7.5M. \$10.6M is reduced private gifts contribution revenue offset by affiliation revenue receipts of \$3.2M over prior year.

#### Statement of Net Position December 31, 2021

ASSETS	
Current Assets	\$ 4,948,923
Cash and cash equivalents Grants and accounts receivable	\$ 4,948,923 919,934
Contributions receivable	2,458,184
Inventory and prepaid expenses	109,483
Total Current Assets	8,436,524
Noncurrent Assets:	
Endowment investments	20,241,572
Contributions receivable, net	4,294,551
Capital assets, net	15,171,949
Total Noncurrent Assets	39,708,072
	<u>\$ 48,144,596</u>
LIABILITIES AND NET POSITION Liabilities Current Liabilities	
Accounts payable and accrued expenses	\$ 723,174
Unearned revenue	814,457
Loans payable	5,489,768
Total Current Liabilities	7,027,399
Noncurrent Liabilities	
Loans payable	869,445
Total Liabilities	7,896,844
Net Position	
Net investment in capital assets Restricted	8,812,736
Nonexpendable	10,169,141
Expendable	18,538,978
Unrestricted	2,726,897
Total Net Position	40,247,752
	\$ 48,144,596

# Statement of Revenues, Expenses and Changes in Net Position For the Year Ended December 31, 2021

OPERATING REVENUE	
Research grants and contracts	\$ 9,401,465
Tuition and fees	317,481
Auxiliary enterprises	463,478
Total Operating Revenue	 10,182,424
OPERATING EXPENSES	
Instruction	667,162
Research	8,348,918
Institutional support	2,865,889
Operation and maintenance of plant	530,505
Auxiliary enterprises	215,484
Academic support	331,149
Depreciation	2,163,788
Total Operating Expenses	15,122,895
Operating Loss	(4,940,471)
NONOPERATING REVENUES (EXPENSES)	
Contributions	1,960,861
Investment return	1,854,949
Other revenues	4,570
Affiliation and services revenue	3,200,000
Interest on debt	(412,360)
Loss on disposals	(96,261)
Net Nonoperating Revenues	6,511,759
Change in Net Position	1,571,288
NET POSITION	
Beginning of year	 38,676,464
End of year	\$ 40,247,752

# Statement of Cash Flows For the Year Ended December 31, 2021

CASH FLOWS FROM OPERATING ACTIVITIES		
Tuition and fees	\$	247,847
Grants and contracts		11,019,571
Sales and services of auxiliary enterprises		479,079
Payments of employees for salaries and benefits		(7,452,177)
Payments to suppliers		(5,641,189)
Net Cash from Operating Activities		(1,346,869)
CASH FLOWS FROM NON CAPITAL FINANCING ACTIVITIES		
Affiliation and services revenue		3,200,000
Donor gifts		1,960,861
Net Cash from Noncapital Financing Activities		5,160,861
CASH FLOWS FROM CAPITAL AND RELATED FINANCING ACTIVITIES		
Proceeds from sale of capital assets		5,200
Purchases of capital assets		(388,729)
Principal paid on capital debt		(2,971,436)
Interest paid on capital debt		(417,066)
Net Cash from Capital and Related Financing Activities		(3,772,031)
CASH FLOWS FROM INVESTING ACTIVITIES		
Investment income, net		753,312
Net Increase in Cash and Cash Equivalents		795,273
CASH AND CASH EQUIVALENTS		
Beginning of year		4,153,650
End of year	<u>\$</u>	4,948,923
RECONCILIATION OF OPERATING LOSS TO NET CASH FROM OPERATING ACTIVITIES		
Operating loss	\$	(4,940,471)
Adjustments to reconcile net loss to net cash from operating activities		
Depreciation expense		2,163,788
Changes in assets and liabilities		
Grants and accounts receivable		(82,441)
Contributions receivable, net		1,502,225
Inventory and prepaid expenses		57,542
Accounts payable and accrued expenses		(196,020)
Unearned revenues		148,508
Net Cash from Operating Activities	<u>\$</u>	(1,346,869)

Notes to Financial Statements
December 31, 2021

#### 1. Organization

Bermuda Institute of Ocean Sciences (BIOS), Inc., formerly The Bermuda Biological Station for Research, Inc., founded in 1903, was incorporated in the State of New York in 1926 as a U.S. not-for-profit research organization. BIOS is exempt from U.S. income taxes pursuant to Sections 501(c)(3) and 509(a) of the Internal Revenue Code. BIOS is also a Bermuda Registered Charity (Reg #116).

On October 26, 2021, BIOS and Arizona State University ("ASU"), a related party, executed a services and affiliation agreement. Based on the terms of the agreement and in accordance with Government Accounting Standards Board (GASB) Statement No. 14, BIOS is considered a blended component unit of Arizona State University for financial reporting purposes. Accordingly, the financial statements of BIOS are included in Arizona State University's Annual Comprehensive Financial Report.

BIOS's mission is to seek and share fundamental knowledge of the oceans through state-of-the-art scientific research, world-class field expeditions, and comprehensive educational experiences.

The research conducted at BIOS is relevant to the waters surrounding Bermuda, as well as the global Earth system, and is multidisciplinary, spanning the biological, chemical, geological, and physical sciences. BIOS researchers are active partners in regional and international research collaborations that are working to address some of the most pressing issues of our time including climate change, marine conservation, ecosystem health, and natural-disaster risk assessment.

#### 2. Summary of Significant Accounting Policies

#### Basis of Presentation

The financial statements of BIOS are presented under the economic resources measurement focus and prepared on the accrual basis of accounting in accordance with accounting principles generally accepted in the United States of America (US GAAP) applicable to government entities, established primarily by the Government Accounting Standards Board (GASB).

GASB establishes standards for external financial reporting and requires that resources be classified for accounting and reporting purposes into the following net position categories.

 Net investment in capital assets: Capital assets, net of accumulated depreciation, and outstanding principal balances of debt attributable to the acquisition, construction, or improvement of those assets.

#### Restricted:

*Nonexpendable* – Net position subject to externally imposed stipulations that must be maintained permanently by BIOS.

Expendable – Net position whose use by BIOS is subject to externally imposed stipulations that can be fulfilled by actions of BIOS pursuant to the stipulations or that expire by the passage of time.

Notes to Financial Statements
December 31, 2021

#### 2. Summary of Significant Accounting Policies (continued)

#### Basis of Presentation (continued)

#### Unrestricted:

Net position not subject to externally imposed stipulations that may be designated for specific purposes by action of management or the Board of Trustees, or may otherwise be limited by contractual agreements with outside parties.

When an expense is incurred that can be paid using either restricted or unrestricted resources, BIOS's policy is to first apply the expense towards restricted resources, and then towards unrestricted resources.

#### Change in Basis of Accounting

In previous years, BIOS prepared its financial statements on the accrual basis of accounting in accordance with US GAAP applicable to Not-for-Profit entities, established by the Financial Accounting Standards Board (FASB). In 2021, BIOS adopted US GAAP applicable to government entities, established primarily by the Government Accounting Standards Board (GASB) as a result of the affiliation agreement with ASU discussed in Note 1. The change in basis of accounting did not result in an adjustment to beginning of the year Net Position.

#### Use of Estimates

The presentation of financial statements in conformity with U.S. generally accepted accounting principles requires management to make estimates and assumptions that affect certain reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

#### **Contributions**

Contributions, including unconditional promises to give, are recognized as revenue in the period received or pledged. BIOS reports gifts as restricted support if they are received with donor stipulations that limit the use of the donated assets, or if they are restricted as support for future periods. When donor restrictions expire, that is, when a stipulated time restriction ends or purpose restriction is accomplished, expendable restricted net position is reclassified to unrestricted net position. Contributions of assets other than cash are recorded at their estimated fair value and are recorded as an increase in unrestricted net position unless the donor places restrictions on their use. Contributions due after one year are reported at their net present value. Amortization of the discount is recorded annually as additional contribution revenue over the anticipated collection period of the pledge.

#### Operating Expenses

Expenses are categorized as operating or nonoperating per GASB. BIOS reports operating expenses by functional category (instruction, research, etc.) in the statement of revenues, expenses, and changes in net position and displays expenses by their natural classification (personal services and benefits, supplies and services and depreciation).

Notes to Financial Statements
December 31, 2021

#### 2. Summary of Significant Accounting Policies (continued)

#### Foreign Currency

BIOS's functional currency is the U.S. dollar. There are no foreign currency transaction gains or losses from transacting in the Bermuda dollar because it is on par with the U.S. dollar.

#### Cash Equivalents

All highly liquid investments, with maturities of three months or less at the time of purchase are considered cash equivalents.

#### Allowance for Uncollectible Receivables

An allowance for uncollectible receivables is estimated based on a combination of write-off history, aging analysis and any specific known troubled accounts. Management believes all receivables are fully collectible, therefore, no allowance for doubtful accounts is recognized at year-end.

#### Inventory

Inventory is reported at the lower of cost or net realizable value (first in, first out) and consists of glider batteries, gift shop merchandise, cafeteria, laboratory and SCUBA supplies held for resale. Glider batteries are unit stores expensed at the time of deployment in glider missions.

#### Fair Value Measurements

BIOS follows the provisions of GASB Statement No. 72, "Fair Value Measurement and Application", which defines fair value and establishes a fair value hierarchy organized into three levels based upon the input assumptions used in pricing assets. Level 1 inputs have the highest reliability and are related to assets with unadjusted quoted prices in active markets. Level 2 inputs relate to assets with other than quoted prices in active markets which may include quoted prices for similar assets or liabilities or other inputs which can be corroborated by observable market data. Level 3 inputs are unobservable inputs and are used to the extent that observable inputs do not exist.

Pursuant to US GAAP guidance, alternative investments where fair value is measured using the Net Asset Value ("NAV") per share as a practical expedient are not categorized within the fair value hierarchy.

#### Investment Valuation and Income Recognition

Investments are carried at fair value. The fair value of alternative investments has been estimated using the NAV as reported by the management of the respective alternative investment. US GAAP provides for the use of NAV as a "Practical Expedient" for estimating fair value of alternative investments. NAV reported by each alternative investment fund is used as a practical expedient to estimate the fair value of BIOS's interest therein.

Notes to Financial Statements
December 31, 2021

#### 2. Summary of Significant Accounting Policies (continued)

#### Investment Valuation and Income Recognition (continued)

Purchases and sales of securities are recorded on a trade-date basis. Interest income is recorded on the accrual basis and dividends are recorded on the ex-dividend date. Realized and unrealized gains and losses are included in the determination of the change in net position.

Alternative investments consist of non-traditional, not readily marketable investments. The underlying investments of such funds, whether invested in stock or other securities, are generally not currently traded in a public market and typically are subject to restrictions on resale. Values determined by investment managers and general partners of underlying securities that are thinly traded or not traded in an active market may be based on historical cost, appraisals, a review of the investees' financial results, financial condition and prospects, together with comparisons to similar companies for which quoted market prices are available or other estimates that require varying degrees of judgment.

Because of the inherent uncertainty of valuations, the estimated fair values may differ significantly from the values that would have been used had a ready market for such investments existed or had such investments been liquidated, and those differences could be material.

#### Risk Disclosure

**Interest Rate Risk** - Interest rate risk is the risk that BIOS will incur losses in fair value caused by changing interest rates. BIOS has a formal investment policy that considers investment maturities as a means of managing its exposure to fair value losses arising from changing interest rates.

Custodial Credit Risk - Custodial credit risk is the risk that in the event of a bank failure. BIOS's deposits may not be returned to it. GASB Statement No. 40, "Deposit and Investment Risk Disclosures - an amendment of GASB Statement No. 3", directs that deposits be disclosed as exposed to custodial credit risk if they are not covered by depository insurance and the deposits are either uncollateralized, collateralized by securities held by the pledging financial institution or collateralized by securities held by the pledging financial institution's trust department but not in BIOS's name. Funds held in the U.S. bank accounts are insured by the Federal Deposit Insurance Corporation (FDIC) and, at times, such cash may be in excess of FDIC insurance limits. Funds held in Bermuda banks are insured by the Bermuda Deposit Insurance Corporation (BDIC) and, at times, such cash may be in excess of BDIC limits. At December 31, 2021 approximately \$4.526.000 of the cash in U.S. and Bermuda banks was uninsured. BIOS does not have a deposit policy for custodial credit risk, but has not experienced any losses in such accounts, and management believes it is not exposed to any significant risks related to these accounts. BIOS also has a money market fund that is considered a cash equivalent with a balance \$5,080, which is not FDIC insured.

**Credit Risk** - Credit risk is the risk that an issuer or other counterparty will not fulfill its specific obligation even without the entity's complete failure. BIOS does not have a formal credit risk policy.

Notes to Financial Statements
December 31, 2021

#### 2. Summary of Significant Accounting Policies (continued)

#### Research Grants and Contracts Revenue Recognition

Grants to BIOS are either reimbursement of costs limited by the maximums stated in the grant or are fixed price contracts. Support under grants for reimbursement of costs is recognized in the same period and in an amount equivalent to the aggregate of the incurred underlying costs. Revenue from fixed price grants is recognized proportionately over the life of the grant, as defined in the contract.

#### Tuition and fees

Tuition and fees are recognized over the period the tuition and other services are provided. Prepayments are recorded as unearned revenue.

#### Capital Assets

Purchases of capital assets are recorded at cost. Gifts or contributions of capital assets are recognized at fair value at the time received. Capital assets are depreciated using the straight-line method over the estimated useful lives of the assets. When items are disposed, the cost and accumulated depreciation are eliminated from the records of account, and a gain or loss is reported in current income. Repair and maintenance charges that do not increase the lives of the assets are expensed as incurred.

Capital Assets of BIOS are depreciated over the following useful lives:

	<u>Useful Lives</u>
Buildings and improvements	20-40 years
Furniture, fixtures and equipment	5-15 years
RV Atlantic Explorer	25 years

#### Asset Recoverability

Long-lived assets are reviewed for impairment whenever events or changes in circumstances indicate that the carrying value amount of an asset may not be recoverable. Recoverability of assets to be held and used is measured by a comparison of the carrying value amount of an asset to estimated undiscounted future cash flows expected to be generated by the asset. If the carrying amount of an asset exceeds its estimated undiscounted future cash flows, an impairment charge is recognized in the amount by which of the carrying amount of the asset exceeds the fair value of the asset. Management has concluded that an impairment charge for 2021 is not necessary.

Notes to Financial Statements
December 31, 2021

#### 2. Summary of Significant Accounting Policies (continued)

#### Accounting for Uncertainty in Income Taxes

BIOS recognizes the effect of income tax positions only when they are more likely than not to be sustained. Management has determined that BIOS had no uncertain income tax positions that require financial statement recognition or disclosure. BIOS is no longer subject to examination by the applicable taxing jurisdictions for periods prior to 2018.

#### Recently Adopted Accounting Standards

GASB Statement No. 87, Leases, as amended by GASB Statement No. 95, Postponement of the Effective Dates of Certain Authoritative Guidance, establishes a single model for lease accounting based on the concept that leases are a financing of a "right-to-use" underlying asset. As such, this Statement requires a lessee to recognize a lease liability and an intangible right-to-use lease asset. A lessor will be required to recognize a lease receivable and a deferred inflow of resources. The requirements of this Statement are effective for reporting periods beginning after June 15, 2021. BIOS will evaluate the impact this and other pronouncements may have on its financial statements and will implement them as applicable and when material.

#### Subsequent Events

Management evaluated subsequent events for disclosure and/or recognition in the financial statements through July 21, 2022, the date financial statements were available for issuance.

#### 3. Concentrations of Financial Risk

Financial instruments that are exposed to concentrations of financial risk consist primarily of cash, managed investment funds and receivables. Management believes the diversification and quality of managed investment funds minimizes risk concentration regarding investments other than fluctuations in the financial markets in general. At December 31, 2021 grants and accounts receivable from one grantor totaled approximately \$527,000. At December 31, 2021, gross contributions receivable due from one donor totaled approximately \$6,674,000.

For the year ended December 31, 2021 research grants and contracts from one grantor totaled approximately 87% of research grants and contracts. For the year ended December 31, 2021 contributions from one donor totaled approximately 23% of contributions.

#### 4. Related Party Transactions

As part of ASU and BIOS's services and affiliation agreement, ASU paid BIOS \$3,200,000.

#### Notes to Financial Statements December 31, 2021

#### 5. Contributions Receivable

Contributions receivable at December 31, 2021 are expected to be collected as follows:

Amount expected to be collected in:

One year or less	\$ 2,458,184
Years two through five	 4,615,759
	7,073,943
Less:	
Discount (5% per annum) to present value	 (321,208)
	\$ 6,752,735

#### 6. Investments

BIOS investments consist of funds managed by independent fund managers. Following are the investments at December 31, 2021, grouped by the fair value hierarchy for those investments measured at fair value on a recurring basis:

	Level 2	NAV (*)	Total
Treasury Money Market Fund	\$ 2,412,513	\$ -	\$ 2,412,513
Global Multi-Asset Fund		17,829,059	17,829,059
	\$ 2,412,513	\$ 17,829,059	\$ 20,241,572

(\*) As discussed in Note 2, investments that are measured using the practical expedient are not classified within the fair value hierarchy.

Information regarding investments valued at NAV using the practical expedient at December 31, 2021 is as follows:

	Fair Value	Unfunded Commitments	Redemption Frequency	Redemption Notice Period
Global Multi-Asset Fund - see "a" below	\$ 17,829,059	\$ -	Monthly	5 days

a. The fund's investment objective is to provide a diversified investment solution for long-term nonprofit investors by allocating assets across a broad spectrum of asset classes. The fund will invest primarily in a diversified portfolio of equity and fixed income securities and will also invest in real assets and alternative investments, in a proportion that the investment manager considers optimal for a well-diversified portfolio. The fund will employ active and passive strategies and will be unconstrained by geography, strategy and market capitalization.

#### Notes to Financial Statements December 31, 2021

#### 7. Capital Assets

Capital assets activity for the year ended December 31, 2021 is comprised of the following:

	Beginning Balance	Additions	Reductions	Ending Balance
Non-depreciated capital assets				
Land and land improvements	\$ 486,850	\$ -	\$ -	\$ 486,850
Depreciable Capital Assets				
Buildings and improvements	18,451,889	33,161	(1,890,946)	16,594,104
Furniture, fixtures & equipment	8,123,387	223,209	(1,356,962)	6,989,634
RV Atlantic Explorer	13,726,400	132,359	(69,140)	13,789,619
	40,301,676	388,729	(3,317,048)	37,373,357
Total Capital Assets	40,788,526	388,729	(3,317,048)	37,860,207
Accumulated depreciation				
Buildings and improvements	10,670,383	416,997	(1,853,484)	9,233,896
Furniture, fixtures & equipment	5,346,664	583,953	(1,317,726)	4,612,891
RV Atlantic Explorer	7,728,210	1,162,838	(49,577)	8,841,471
Total Accumulated Depreciation	23,745,257	2,163,788	(3,220,787)	22,688,258
Capital assets, net	\$ 17,043,269	\$ (1,775,059)	\$ (96,261)	\$ 15,171,949

#### 8. Loans Payable

Loans payable consist of the following at December 31, 2021:

Bank of N.T. Butterfield term loan, secured by mortgage on real property and research vessel, to refinance pre-existing debt and fund capital expenditures on the research facility. Payable in monthy installments of interest only (4.00%) through May 2021, then payable in monthly installments of \$45,416 plus interest, due May 2022.	\$ 5,432,088
Loan payable (unsecured) to Air Care Limited pursuant to the Energy Performance Contract, payable in monthly installments of \$10,438, including interest at 7.5%, due	007.405
March, 2032.	 927,125
	\$ 6,359,213

Aggregate maturities of loans payable approximate \$5,490,000 in 2022, \$62,000 in 2023, \$67,000 in 2024, \$72,000 in 2025, \$78,000 in 2026 and \$590,000 thereafter. Interest expense totaled approximately \$412,000 for year ended December 31, 2021.

Notes to Financial Statements
December 31, 2021

#### 9. Sponsored Projects

Approximately 55% of revenues in 2021 are awards for sponsored projects (governments and other sources). The awards generally provide for recovery of both direct and indirect costs. The indirect costs covered by the awards are determined as a negotiated or agreed-upon percentage of direct costs with certain exclusions.

#### 10. Operating Expenses by Natural Classification

Operating expenses by functional and natural classification for the year ended December 31, 2021, are summarized as follows:

	Personal			
	Services	Supplies		
	and Benefits	and Services	Depreciation	Total
Instruction	\$ 362,814	\$ 304,348	\$ -	\$ 667,162
Research	4,050,904	4,298,014	-	8,348,918
Institutional support	2,122,397	743,492	-	2,865,889
Operation and maintenance of plant	314,853	215,652	-	530,505
Auxiliary enterprises	301,866	(86,382)	-	215,484
Academic support	297,585	33,564	-	331,149
Depreciation	<u> </u>		2,163,788	2,163,788
Total Operating Expenses	\$7,450,419	\$ 5,508,688	\$ 2,163,788	\$ 15,122,895

#### 11. Pension Plan

BIOS maintains a contributory pension plan for employees ages 23 and over who have worked at least 720 hours in any calendar year. Participation in the plan is mandatory for Bermudians and spouses of Bermudians until they are 65 years old. The plan is voluntary for all other employees. Each participating employee may contribute to the plan up to a maximum of 10% of their gross salary. Mandatory participants must contribute 5%. BIOS matches the employee contribution of 5% of gross salary in accordance with the plan documents and the Bermuda Occupational Pensions Act 1998. Pension expense for the year ended December 31, 2021 approximated \$217,000.

#### 12. Endowment Funds

Donor-restricted funds whose purpose is to provide long-term support for BIOS and its charitable programs are endowment funds. Net position of endowment funds are classified as restricted or unrestricted as determined by the directions of donors, where applicable, and the provisions of the laws of the State of New York. Absent donor stipulations to the contrary, the provisions of New York State law do not impose restrictions on the use of income or capital appreciation derived from the original gift.

BIOS adheres to the New York State Uniform Prudent Management of Institutional Funds Act (NYPMIFA). NYPMIFA includes provisions that differ from previous law, including the elimination of the historic dollar value rule with respect to endowment spending, establishment of new standards governing the expenditure and modification of restrictions on endowment funds, and revision of the prudence standard for the management and investment of endowment funds.

Notes to Financial Statements
December 31, 2021

#### 12. Endowment Funds (continued)

#### Interpretation of Law

BIOS interprets NYPMIFA as requiring the preservation of the fair value of the original gift as of the date of the gift absent explicit donor stipulations to the contrary. As a result of this interpretation, BIOS classifies as nonexpendable restricted (a) the original value of gifts donated to the permanent endowment, (b) the original value of subsequent gifts donated to the permanent endowment, and (c) accumulations to the permanent endowment made in accordance with the direction of the applicable donor gift instrument at the time the accumulation is added to the fund. The remaining portion of the nonexpendable restricted endowment fund that is not classified in nonexpendable restricted is classified as expendable restricted until those amounts are appropriated for expenditure.

#### **Investment Return Objectives**

BIOS has adopted investment and spending policies for the BIOS endowment fund (the Fund) with the core objective to provide a reliable source of long-term financial support. It is the desire of the trustees that the Fund achieves a balance of growth and stability and thereby, over the long term, earns a competitive rate available in the capital markets at the risk level prescribed for the Fund.

#### Investment Philosophy

The Fund has a long-term investment horizon and the trustees believe that asset allocation is the major determinant of investment performance. The asset allocation plan is based on a number of factors, including – projected spending needs, maintenance of sufficient liquidity to meet spending payments, and return objectives and risk tolerances. The asset allocation plan provides for diversification of assets to maximize the investment return and manage the endowment investments consistent with market conditions. Investments are made through recognized third-party providers of multimanager strategies.

#### Spending Policy

It is BIOS policy to annually distribute up to 5% of a three-year moving average of the Fund's market value as of June 30 of each year. In 2021, the full 5% was eligible for distribution to support the operations of BIOS.

Cumulative investment returns in excess of the spending rate that are not donor-restricted are board designated endowment funds. Restricted endowment earnings represent cumulative investment returns which must be spent in accordance with the donors' intent. Permanently restricted endowments must be maintained in perpetuity.

Notes to Financial Statements
December 31, 2021

#### 12. Endowment Funds (continued)

#### **Activity Summary**

The following summarizes activity in endowment funds for year ended December 31, 2021:

	Unrestricted	Expendable Restricted	Nonexpendable Restricted	Total
2021				
Balance at January 1, 2021	\$ 1,771,359	\$ 4,788,618	\$ 10,142,641	\$ 16,702,618
Contributions	-	-	26,500	26,500
Investment management fees	(12,442)	(56,907)	-	(69,349)
Capital appreciation	345,187	1,578,863	-	1,924,050
Appropriated for expenditure	(131,078)	(596,880)	<del>_</del>	(727,958)
Balance at December 31, 2021	\$ 1,973,026	\$ 5,713,694	\$ 10,169,141	\$ 17,855,861

#### 13. Expendable Restricted Net Position

Expendable restrictions are available for the purposes listed below as of December 31, 2021:

Scientific research	\$	14,461,499
Education		3,482,477
Laboratory building		305,002
Future periods and administrative	_	290,000
	\$	18,538,978

Investment return from nonexpendable restrictions held and subject to BIOS spending policy and appropriation is available to support the indicated activities at December 31, 2021:

Scientific research	\$ 5,182,693
Education	3,508,477
Laboratory building	350,000
General operations	 1,127,971
	\$ 10,169,141

Releases from expendable restricted net position consist of the following for the year ended December 31, 2021:

Scientific research	\$ 2,874,523
Education	823,495
Laboratory building	 26,821
	\$ 3,724,839

Notes to Financial Statements December 31, 2021

#### 14. COVID-19

The full duration and extent of the COVID-19 pandemic, related business and travel restrictions and changes to behavior intended to reduce its spread are uncertain as of the date these financial statements were available for issuance, as the pandemic continues to evolve globally. Therefore, the full extent of any adverse impact on the results of operations, financial position and cash flows in 2022 and beyond cannot be reasonably estimated at this time.

The COVID-19 pandemic has resulted in volatility in the global financial markets. As a result, BIOS's investments may have incurred fluctuation in their fair value. Because the value of BIOS's investments has and will fluctuate in response to changing market conditions, the amount of losses, if any, that will be recognized in subsequent periods, cannot be determined.

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