

**COMMONWEALTH OF MASSACHUSETTS
BOARD OF UNDERWATER ARCHAEOLOGICAL RESOURCES
FINAL MINUTES OF PUBLIC MEETING – MARCH 30, 2023**

MEMBERS PRESENT:

Jack Chapin (Designee of Shaun Santos, Director of Environmental Law Enforcement)
Michael Driscoll (Designee of Gregory Robbins, Director of DCR Division of Waterways)
Justin Malcolm (Designee of Brona Simon, State Archaeologist)
Mark McClanan (Gubernatorial Appointee, Dive Community Representative [at-large])
Graham McKay (Gubernatorial Appointee, Marine Archaeologist [at-large])
Dan Sampson (Designee of Lisa Berry Engler, Director of Coastal Zone Management)
John Warner (State Archivist)

David Robinson, Director (Staff for the Board)

MEMBERS ABSENT:

Vin Malkoski (Gubernatorial Appointee, Dive Community Representative [organization])
Designee of Brona Simon (Executive Director, Massachusetts Historical Commission)

PROCEEDINGS:

This in-person public meeting of the Massachusetts Board of Underwater Archaeological Resources (or the Board or BUAR) was convened by its Director, David Robinson, at 12:34 PM on March 30, 2023 at 100 Cambridge Street, Suite 900, in Boston, with a quorum of six (6) current members of the Board in attendance.

The purpose of today's regularly-scheduled public meeting was to conduct the BUAR's business that required the involvement of the full Board.

Items on the agenda included:

- approval of the December 1, 2022 Board meeting's minutes (there were no minutes for the January 2023 Board meeting, as it had to be cancelled due to a lack of quorum)
- the Director's report
- Board Member reports
- a summary of the Board's Public Engagement Activities
- Old Business, and
- New Business.

Dave R explained that BUAR staff and BUAR's Massachusetts Coastal Zone Management (CZM) administrative host, which had worked remotely between March 2020 and January 2022 due to the COVID-19 pandemic, had transitioned to a hybrid "Future of Work" schedule adopted by the Executive Office of Energy & Environmental Affairs (EEA) allowing them to telework four days per week while working in-person one day per week in either the new 100 Cambridge Street, Suite 900, Boston offices, in the field, or at off-site in-person meetings. All BUAR business and communications continue to be conducted primarily via email, supplemented by virtual meetings, limited in-person meetings and phone calls, and hard-copy mailings and weekly transmittals of BUAR mail from CZM's offices to BUAR's off-site telework location.

Between May 2020 and December 2022, the Board's public meetings were held virtually using "Zoom" technology, an alternative means of meeting authorized initially in the March 2020 COVID-19 State of Emergency declaration by the Baker-Polito administration and then implemented and extended through subsequent executive orders issued by Governor Baker. With the May 28, 2021 termination of the March 2020 State of Emergency declaration and the adjustment and rescinding of COVID-19-related Executive Orders, BUAR was once again allowed to conduct its public meetings in-person, while following remaining COVID-19-related State and local public health orders. At its December 1, 2022 meeting, the Board discussed and then voted unanimously to transition back to the pre-COVID-19 pandemic in-person public meeting format that had been its standard operation procedure since the Board's inception 50 years ago this year. The resumption of in-person Board meetings got off to an inauspicious start when its first regularly-

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scheduled in-person meeting on January 26, 2023 had to be cancelled due to a lack of a quorum of Board members. Dave R noted that this March 30, 2023 meeting was the first in-person public meeting of the Board since its January 30, 2020 meeting (over three years ago). Meeting ground-rules were reviewed by Dave R, and Board members, permittees, prospective permittees, and members of the public were all welcomed to the meeting. Dave R also acknowledged and welcomed to the Board its newest member, MHC Archaeologist and GIS Specialist, Justin Malcolm. Mr. Malcolm was selected by MA State Archaeologist, SHPO, and Executive Director of MHC, Brona Simon, to serve as her designee for the State Archaeologist's seat on the Board. Mr. Malcolm is a certified diver and brings significant experience in terrestrial field archaeology, archaeological modeling, remote sensing, and GIS applications in cultural resource management to his service on the Board.

1. MINUTES

A. Minutes of the December 1, 2022 Meeting of the Board

Dave R asked if the Board had any comments or corrections to the draft minutes of the Board's December 1, 2022 public meeting. There were no comments or corrections to the minutes.

Graham McKay moved to accept the minutes of the December 1, 2022 public meeting. Jack Chapin seconded. Unanimous in favor. So voted.

*****Change in the Order of Business**

Due to the very full agenda for the meeting, Dave R as Chair changed the order of business to move directly to the agenda's Old Business and New Business action items. These agenda items were then followed by the Director's Report, Board Member Reports, and a summary of the Board's Public Engagement Activities since its December 1, 2022 meeting.

5. OLD BUSINESS

A. Archaeological and Historical Services, Inc. (SUP 19-005) – Marston Mills in Barnstable

Archaeological and Historical Services, Inc.'s (AHS's) Special Use Permit (19-005) for the Mill Pond Improvements project area at Marston Mills in Barnstable was up for renewal. The Board granted an extension of the permit's expiration date at its previous meeting. AHS submitted a complete renewal application and annual report in accordance with the Board's regulations. AHS's Principal, Meg Harper, was not in attendance to represent this permit. There was no further discussion.

Michael Driscoll moved to renew Archaeological and Historical Services, Inc.'s Special Use Permit (19-005) for their Mill Pond Improvements project area at Marston Mills in Barnstable, with all standard conditions in effect, for the period of one year, retroactive to December 5, 2022, with its new expiration date set as December 5, 2023. Jack Chapin seconded. Unanimous in favor. So voted.

B. Joseph T. Baker (REC 22-001) – Gloucester

Joseph T. Baker's Reconnaissance Permit (22-001) for his Gloucester site was up for renewal. Mr. Baker submitted a request to the Board's staff for the Board to consider granting him an extension of his permit's expiration date until the Board's next regularly-scheduled public meeting in May. The Board had previously granted up to two extensions of a permit's expiration date within a given permit year. This would be this permit's first extension. Mr. Baker was not in attendance to represent this permit. There was no further discussion.

Graham McKay moved to grant Joseph Baker an extension of the expiration date of his Reconnaissance Permit (22-001) for his Gloucester site with all standard and special conditions in effect until the next meeting of the Board on May 25, 2023. Michael Driscoll seconded. Unanimous in favor. So voted.

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C. Bassing Cove Maritime Association (EXC 91-001) – Scituate

Bassing Cove Maritime Association's (BCMA) Excavation Permit (91-001) for their Scituate site was up for renewal. BCMA informed the Board's staff that after holding this permit and conducting fieldwork and educational outreach on their project for 32 years, the BCMA wished to close out the project this year. To provide the BCMA with adequate time to coordinate and complete the various requisite elements of the project's close-out, the Board's staff recommended the Board consider granting them an extension of their permit's expiration date until the Board's next regularly-scheduled public meeting in May. The Board had previously granted up to two extensions of a permit's expiration date within a given permit year. This would be this permit's first extension. Neither BCMA's Tom Mulloy, Debra Jackson, or Hank Lynch were present to represent the permit. There was no further discussion.

Dan Sampson moved to grant the BCMA an extension of the expiration date of their Reconnaissance Permit (91-001) for their Scituate site with all standard and special conditions in effect until the next meeting of the Board on May 25, 2023. Michael Driscoll seconded. Unanimous in favor. So voted.

D. Commonwealth Heritage Group, Inc. (SUP 22-003) - Lowell Area Gas Modernization Project (Middlesex Canal), Lowell

Commonwealth Heritage Group, Inc.'s (or CHG) Special Use Permit (22-003) for archaeological monitoring and documentation, as well as the recovery of artifacts, prior to and during construction activities associated with the Lowell Area Gas Modernization Project's area of potential effect within two canal crossing areas (in Wetland W-2 and near Wetland W-5) of the Middlesex Canal in Lowell, was up for renewal. CHG's principal investigator for the project, Martin Dudek, informed the Board's staff prior to the meeting that the project's fieldwork was complete and that CHG was working on its project report with its expected submittal to the BUAR later this Spring. Rather than apply to renew the permit for another full year with the project so close to completion, CHG requested, instead, an extension of their permit's expiration date until the next regularly scheduled meeting of the Board in May. Mr. Dudek, was not in attendance to represent this permit. There was no further discussion.

Graham McKay moved to grant Commonwealth Heritage Group, Inc. an extension of the expiration date of their Special Use Permit (22-003) for the Lowell Area Gas Modernization Project's area of potential effect within two canal crossing areas (in Wetland W-2 and near Wetland W-5) of the Middlesex Canal in Lowell, with all standard and special conditions in effect until the next meeting of the Board on May 25, 2023. Jack Chapin seconded. Unanimous in favor. So voted.

E. Joseph K. Dietlin (REC 00-003) – Salem Sound

Joseph K. Dietlin's Reconnaissance Permit (00-003) for his Salem Sound site was up for renewal. At Mr. Dietlin's request, the Board granted an extension of the permit's expiration date at its last meeting. Mr. Dietlin submitted a complete renewal application, fee payment, and annual report in accordance with the Board's regulations. Mr. Dietlin was in attendance to represent this permit. Mr. Dietlin provided an overview of his project and its results to date and shared photographs and maps with the Board members. Graham McKay asked about what appeared to be work that was conducted within the permit area's buffer zone. Dave R noted that while buffer zones are considered no-work areas for BUAR permits, Mr. Dietlin could formally request a modification to his permit area for the Board's consideration and vote to expand it into the portion of the current buffer zone where Mr. Dietlin is interested in conducting fieldwork, provided that such an expansion would not infringe upon another existing permit area. There was no further discussion.

John Warner moved to renew Joseph K. Dietlin's Reconnaissance Permit (00-003) for his Salem Sound site with all standard and special conditions, retroactive to December 5, 2022, with its expiration now set for December 5, 2023. Jack Chapin seconded. Unanimous in favor. So voted.

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F. R. Christopher Goodwin & Associates, Inc. (SUP 22-002) – Vineyard Northeast Project Offshore Export Cable Corridor (or OECC), Buzzards Bay and North Atlantic Ocean, Westport

R. Christopher Goodwin & Associates, Inc.'s (RCG&A) Special Use Permit (22-002) for the Vineyard Northeast Project's OECC (Massachusetts state waters portion of the OECC in Buzzards Bay and the North Atlantic Ocean, extending to Westport) was up for renewal. RCG&A submitted a complete permit renewal application and annual report in accordance with the Board's regulations. Geophysical and geotechnical surveys for the project within State waters were conducted between March 25 and June 4, 2022. A total of 26 geotechnical samples were recovered (17 of which were vibracores). RCG&A observed core processing between October 24 and October 28, 2022 for the purpose of subsampling cores for geoarchaeological analysis; however, none of the recovered cores were observed to contain sediments warranting selection for subsampling and no further geoarchaeological analysis of the cores was conducted. RCG&A's Steve Schmidt and Ashley Himmelstein were not in attendance to represent this permit. There was no further discussion.

Michael Driscoll moved to renew R. Christopher Goodwin & Associates, Inc.'s Special Use Permit (22-002) for the Massachusetts state waters portion of the Vineyard Northeast Project's OECC's area of potential effect in Buzzards Bay and the North Atlantic Ocean, extending to Westport, as detailed in the application, with all the standard and special conditions in effect, for the period of one year, with its expiration now set for March 30, 2024. Jack Chapin seconded. Unanimous in favor. So voted.

G (a). Gray & Pape, Inc. (SUP 21-006) – New England Wind I Project's OECC (State Waters Portions of Nantucket Sound and the Atlantic Ocean, Barnstable to Edgartown)

Gray & Pape, Inc.'s Special Use Permit (21-006) for the New England Wind I OECC Project (State waters portions of Nantucket Sound and the Atlantic Ocean, from Barnstable to Edgartown) was up for renewal. Gray & Pape, Inc.'s Maritime Services Practice Leader and the permit's Principal Investigator, Dr. Amanda Evans, submitted a complete permit renewal application and annual report in accordance with the Board's regulations. Dr. Evans was not in attendance to represent this permit. There was no further discussion.

Graham McKay moved to renew Gray & Pape, Inc.'s Special Use Permit (21-006) for their New England Wind I Project's OECC area located in the State waters portions of Nantucket Sound and the Atlantic Ocean, between Barnstable and Edgartown, as detailed in the application, with all standard conditions in effect, for the period of one year, retroactive to December 1, 2022, with its expiration now set for December 1, 2023. Michael Driscoll seconded. Unanimous in favor. So voted.

G (b). Gray & Pape, Inc. – Update re: Staffing Change for All BUAR Permits

Dr. Amanda Evans, Gray & Pape, Inc.'s Maritime Services Practice Leader and Principal Investigator on all of its BUAR Special Use Permits, informed the Board's staff prior to the meeting that Gray & Pape, Inc.'s former Principal Investigator, Dr. Michael Tuttle, would be rejoining Gray & Pape, Inc.'s staff and will serve as the Project Archaeologist on all of Gray & Pape, Inc.'s current BUAR-permitted projects moving forward. Dr. Tuttle is well-known to the Board and has held multiple BUAR permits in the past. The Board's staff looks forward to resuming its working relationship with Dr. Tuttle.

H. Raymond Hayes (REC 07-001) – Great Harbor (Woods Hole)

Dr. Raymond Hayes's Reconnaissance Permit (07-001) for his Great Harbor (Woods Hole) site was up for renewal. Dr. Hayes submitted a complete renewal application, fee payment, and annual report in accordance with the Board's regulations. Dave R noted for the benefit of the Board's newer members who may not be as familiar with Dr. Hayes's research on this project, that Dr. Hayes is conducting analyses of marine sediments in Great Harbor's deepest portion, which is an inundated natural kettle hole that was also an historical anchorage zone. Dr. Hayes's hypothesis is that this deep area is where artifacts and ecofacts may have accumulated within what are likely to be the oldest of the harbor floor's sediments. Over the

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course of his research, Dr. Hayes has recovered sediment samples from the site that have contained sulfur rock and mineral concretions suggestive of non-local geological materials carried as cargo or ballast from remote sites, such as Italy, Swann Island, Peru or South Carolina, in addition to local menhaden scrap and seabird guano from various locations at the Pacific Guano Co. factory. Dr. Hayes has also been characterizing the local marine sediments adjacent to the historical location of the factory and evaluating it as a unique residue associated with the industrial production of fertilizer there in the nineteenth century. Dr. Hayes was not in attendance to represent this permit. There was no further discussion.

Jack Chapin moved to renew Raymond Hayes's Reconnaissance Permit (07-001) for his Great Harbor Site in Woods Hole, with all the standard and special conditions in effect for the period of one year from today's date with the permit's new expiration set as March 30, 2024. Dan Sampson seconded. Unanimous in favor. So voted.

I. James M. Karos (REC 06-001) – Chelsea Creek, Boston, Chelsea, and Revere

James M. Karos's Reconnaissance Permit (06-001) for his Chelsea Creek Site in Boston, Chelsea, and Revere was up for renewal. Mr. Karos did not submit a renewal application due to on-going health issues. Mr. Karos has been having recently making communication difficult. Given that Mr. Karos has been an active permittee who has done significant fieldwork in his permit area since 2006, including in the past year, providing photomosaics and other important data to the BUAR, the Board's staff recommended the Board grant Mr. Karos an extension of his permit's expiration date until the Board's next meeting in May. The Board has previously granted up to two extensions of a permit's expiration date within a given permit year. This would be this permit's first extension. Mr. Karos was not in attendance to represent this permit. The Board and its staff expressed their concern for Mr. Karos's well-being and wished him a speedy recovery. There was no further discussion.

Graham McKay moved to extend the expiration date of James M. Karos's Reconnaissance Permit (06-001) for his Chelsea Creek Site in Boston/Chelsea/Revere, with all standard conditions in effect, until the next meeting of the Board on May 25, 2023. Dan Sampson seconded. Unanimous in favor. So voted.

J. Kenneth J. Medeiros (REC 07-003) – Duxbury

Kenneth J. Medeiros's Reconnaissance Permit (07-003) for his Duxbury site was up for renewal. The Board granted Mr. Medeiros's request for a permit extension at its December 1, 2022 meeting. Mr. Medeiros contacted the Board to request a second extension, and indicated that, if granted, he intended to submit a renewal application for the Board's consideration at its May meeting. The Board has previously granted up to two extensions in a permit year under these circumstances. This would be the permit's second extension. Mr. Medeiros was not in attendance to represent this permit. There was no further discussion.

Michael Driscoll moved to extend for a second and final time the expiration date of Mr. Medeiros's Reconnaissance Permit (07-003) for his Duxbury site, with all standard and special conditions in effect, until the Board's next regularly scheduled public meeting on May 25, 2023. Dan Sampson seconded. Unanimous in favor. So voted.

K. The Public Archaeology Laboratory, Inc. (SUP 21-001) – Monaquot River Restoration, Armstrong and Ames Pond Dam Removal Project, Braintree

The Public Archaeology Laboratory, Inc.'s (PAL) Special Use Permit (21-001) was up for renewal. PAL submitted a complete application and annual report in accordance with the Board's regulations. The project has been delayed within no date currently scheduled for the initiation of fieldwork. PAL Principal Investigator for the project, Suzanne Cherau, was not in attendance today to represent this permit. There was no further discussion.

Dan Sampson moved to renew PAL's Special Use Permit (21-001) for their Monaquot River Restoration, Armstrong and Ames Pond Dam Removal Project area in Braintree, with all the standard and

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special conditions in effect, for the period of one year from today's date with the new expiration date set as March 30, 2024. John Warner seconded. Unanimous in favor. So voted.

L. SEARCH, Inc. (SUP 19-004) – Rockport to Nahant

SEARCH, Inc.'s Special Use Permit (19-004) for their Amitie Subsea Cable Project area between Rockport and Nahant was up for renewal. SEARCH, Inc. had requested and received an extension of this permit's expiration date at the Board's December 1, 2022 meeting. SEARCH, Inc. wants to keep this permit open, so that any unanticipated discoveries that may occur during the Amitie Subsea Cable project's construction can be addressed under this permit. Dr. Michael Brennan, a Principal Investigator at SEARCH, Inc., submitted a complete renewal application and Annual Report in accordance with the Board's regulations. Dr. Brennan was not in attendance to represent this permit. There was no further discussion.

Michael Driscoll moved to renew SEARCH, Inc.'s Special Use Permit (19-004) for their Amitie Subsea Cable project area between Rockport and Nahant, with all standard and special conditions in effect, for the period of one year, retroactive to December 1, 2022, with its expiration now December 1, 2023. John Warner seconded. Unanimous in favor. So voted.

6. NEW BUSINESS

There was no new business.

*****Change in the Order of Business**

The Chair again changed the order of business and moved to the Director's Report, Board Member Reports, and a summary of the Board's Public Engagement Activities since its December 1, 2022 meeting.

2. DIRECTOR'S REPORT

A. Revisiting the Board's Public Meeting Format

Dave R reported that revisiting a discussion about the Board's public meeting format to consider returning to its COVID-19 pandemic-era remote-access option seemed warranted after the cancellation of the Board's January 26, 2023 meeting due to a lack of quorum and the State Legislature's new bill and the new Governor, Maura Healey's, pending approval of that bill, allowing remote access public meetings by State agencies to continue. Dave R added that CZM's Director, Lisa Engler, had generously offered to provide the Board with the help of one of CZM's administrative assistants to facilitate holding future Board meetings remotely, if needed. After some discussion on the topic and acknowledgement of the benefits of meeting in person and remotely, the Board and its staff concluded that transitioning to a hybrid meeting format would provide the public, permittees, and Board members with optimal access to the Board's public meetings.

Graham McKay moved to hold future Board meetings, beginning with the May 25, 2023 meeting, using a hybrid meeting format. John Warner seconded. Unanimous in favor. So voted.

B. 2022: A Year-in-Review

Dave R reported on the BUAR's activities in 2022 and noted that the principal accomplishment during the past year was the in-person reconnection of the Board with the Commonwealth's and the region's underwater archaeological resources, state, federal, and Tribal governmental partners, permittees, and the public following the end of the COVID-19 pandemic. The Board and its staff are currently working with 21 different permittees and administering 31 BUAR archaeological permits for areas distributed across 42 different MA cities and towns. Sixteen of these permits are Special Use Permits, 13 are Reconnaissance Permits, and 2 are Excavation Permits. In 2022, the Board's staff gave 18 public, school group, interagency, and diving community virtual and in-person presentations/talks/tours. The Board's staff also has continued to connect with and strengthen collaborative relationships with: the Bay State Council of Divers; CZM; the

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Wampanoag Tribe of Gay Head (Aquinnah's) Tribal Historic Preservation Office; the Mashpee Wampanoag Tribe's Tribal Historic Preservation Office; the Hassanamisco Band of Nipmucs; the Mashantucket Pequot Tribe's Tribal Historic Preservation Office; the MA Archaeological Society (MAS); the MA Dept of Conservation and Recreation's Archaeology Program; the MA Division of Marine Fisheries' Shellfish Program; the MHC; the Nantucket Historical Association; the National Association of Tribal Historic Preservation Officers; NPS's Northeast Regional Archaeologist's Office; the Cape Cod National Seashore's Cultural Resources Program; the New Hampshire Division of Historical Resources; the City of Quincy's Historic Preservation Planner's Office; the US Department of the Interior's Bureau of Ocean Energy Management; the Hull Lifesaving Station Museum; and the Trustees of Reservations. Over the past year, BUAR staff established new collaborative relationships with: the Egan Maritime Institute/Nantucket Shipwreck & Lifesaving Museum; the Essex Shipbuilding Museum/the Harold Burnham Boat Yard; Mystic Seaport's Munson Institute; the Nantucket Preservation Planning Office; and the Salem Marine Society. In 2022, Board staff conducted field investigations and/or worked with members of the public & other collaborative partners on archaeological sites in 13 MA communities that included: Chatham; Chelsea; Chilmark; Dennis; Dighton; Duxbury; Essex; Ipswich; Marshfield; Nantucket; North Plymouth; Orleans; Quincy; Scituate; and Westport.

C. Meetings

- Massachusetts Archaeological Society Board Meeting

On March 18, 2023, the Board's staff attended in-person a regular meeting of the MAS Board of Trustees at the Robbins Museum in Middleboro. Items of interest discussed at the meeting included the scheduling of the MAS's Annual Meeting for Saturday, October 21, 2023, to coincide with what has traditionally been MA Archaeology Month (i.e., October), and scheduling an activity-based program as a possible family activity event for November 18, 2023. The Board's staff also committed to submitting for publication in the *MAS Bulletin* a journal article chronicling BUAR's first 50 years of existence and projecting some future goals for the start of its next 50 years.

- Indigenous Resource Collaborative Meeting

On February 3 and March 15, 2023, the Board's staff attended in-person meetings with Linda Coombs and Ellen Berkland of the Indigenous Resource Collaborative (or IRC) to discuss collaborative opportunities between the BUAR and IRC. The newly-founded IRC is a group of museum and education professionals who have worked together for over four decades to increase the public's understanding and awareness of Native people in New England with an emphasis on continued and contemporary Indigenous presence. The IRC seeks to house and curate an archive of writings and documents that were produced or collected by members of the IRC and to make those materials available to others who share the goals of properly relating regional Native history, correcting misconceptions, and challenging stereotypes. IRC's use of the term "collaborative" in its name is intended to emphasize that their work requires efforts of both Native and non-Native people. IRC and Ms. Coombs invited the Board's staff to develop and present with them a public talk on submerged landscapes and what Tribal history and science and underwater geoarchaeology can tell us about them. Work on this talk is underway with a presentation scheduled for a TBD date in 2023.

- Hull Lifesaving Station Museum Meeting

On March 2, 2023, the Board's staff attended an in-person meeting with the Hull Lifesaving Station Museum's (or HLSM) Director of Development, Maureen Gillis, and other museum leadership and staff, to tour the museum and discuss opportunities for BUAR-HLSM educational outreach collaboration. Founded in 1978, the HLSM has been an essential part of the Hull community for over 36 years and has focused on providing to the public lessons from the Point Allerton Lifesaving Station's history, as well as life-changing and sometimes life-saving youth development experiences through its boatbuilding and rowing programs. The Point Allerton Lifesaving Station opened in 1889 under the leadership of Joshua James, who, with his crews of the MA Humane Society, and the US Lifesaving Service and Revenue Cutter Service, merged to form the US Coast Guard. Consequently, Joshua James is considered a "father" of the US Coast Guard.

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BUAR and HLSM's collaborative educational outreach initiative will kick-off on October 5, 2023 with a public presentation by the Board's staff at the HLSM.

- Bay State Council of Divers Meeting

On March 8, 2023, the Board's staff attended a remote meeting of the Bay State Council of Divers (BSC) and presented an update on BUAR's recent fieldwork in Essex, Gloucester, Nantucket, and Westport. BUAR also encouraged BSC members attending the meeting to utilize BUAR's downloadable SHIPS forms to report newly-discovered shipwrecks and other archaeological sites in MA waters. Other topics discussed at the meeting included issues related to the public's (and divers') access to the coast, the date for the BSC's Annual Treasure Hunt (September 17), and the dates for the Boston Sea Rovers' 70th International Ocean Symposium and Film Festival in Danvers, to be held March 16 and 17, 2024.

D. Fieldwork

- Conomo Point Shipwreck, Essex

Over the past year, the Board's staff has continued to closely monitor and document changes to the remains of a wooden ship exposed by the erosion of the "Clammer's Flats" portion of Conomo Point in Essex. This monitoring effort has been conducted with the generous and much-appreciated assistance of citizen scientist volunteers, such as Dr. Diana Doucette, who first reported the wreck to BUAR, Maura and David Algers, Ellen Berkland, Harold Burnham, and Deborah Cramer, as well as the Essex Deputy Shellfish Warden, Jude Seminara. Since its initial exposure and discovery a year ago, approximately one vertical foot of sand overburden has eroded from the surface of the mudflat in which the wreck is embedded, exposing hull timbers extending the full length of the vessel's hull. The Board's staff plans to return to the site with volunteers later this Spring to document in detail the wreck's exposed elements.

- Miacomet Beach Shipwreck, Nantucket

On December 5, 2022, Evan Schwanfelder, Manager of Maritime Education at the Egan Maritime Institute (EMI) and the Shipwreck and Lifesaving Museum on Nantucket contacted the Board's staff via email to report a recently-exposed wreck on Nantucket's South Shore on a section of beach that has seen significant erosion in the last few years. The wreck was described by Mr. Schwanfelder as appearing "to be of old timber and iron, of sturdy build and significant in size." Mr. Schwanfelder provided BUAR with a completed BUAR SHIPS form accompanied with a map and GPS coordinates for the wreck and a number of photographs.

On December 8, 2022, the Board's staff, and Board member, Graham McKay, conducted an in-person investigation of the wreck – BUAR's first-ever official visit to Nantucket – to examine and document its exposed remains. BUAR's site visit was also coordinated with MHC's Executive Director, State Archaeologist, SHPO, and BUAR Board member, Brona Simon, as BUAR and MHC share jurisdictional authority within the intertidal zone. BUAR was graciously hosted during its time on Nantucket by EMI and Mr. Schwanfelder, and Renee Ceely, EMI's Administrator. EMI's Executive Director, Carlisle Jensen, was also extremely helpful in assisting BUAR coordinate their site visit with EMI staff and local authorities.

Upon BUAR's arrival at EMI's offices, Mr. Schwanfelder convened a meeting between BUAR, EMI, the Town of Nantucket's Preservation Planner, Holly Backus, and the Nantucket Historical Association's (NHA) Chief Curator, Michael Harrison, for a pre-site visit briefing. The collective results of the group's preliminary research to identify the wreck were discussed and Ms. Backus briefed BUAR on her office and role in historic preservation on the island. The Board's staff shared with the group an historical map and CZM's shoreline change mapping for the area where the wreck was exposed that had been provided to BUAR by CZM GIS Program Manager and BUAR Board member, Dan Sampson.

Following the meeting at EMI's offices, the site was visited by a group that included, in addition to those mentioned above, David Gray, Nantucket Sewer Department (NSD) Director (who provided access to the site via the Nantucket sewer fields property), EMI photographer, Katie Kaizer, and EMI videographer, Mark

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Pommett. The team was also joined on-site by Nantucket resident and metal detectorist, Scott Swensen, who was exploring the wreckage when the group arrived. After discussing with Mr. Swensen MA State laws protecting the Commonwealth's underwater archaeological resources, and his sharing with BUAR the results of his metal detecting, Mr. Swensen's role was transformed into that of citizen-scientist and an *ad hoc* member of the field team.

The hull remains observed by BUAR during the December 8, 2023 site visit consisted of a relatively small portion (approx. 11.77 m [42 ft] -long) of the lower bow of the hull of a large, late nineteenth-century wooden ship. These remains were located in the intertidal zone with the bow-end oriented towards the water. Nine port-side framing-pair stubs and the stubs of the stem, apron, a pointer, and hull planking remained exposed above the stand still from the time of its original (and previously more extensive) exposure. Probing conducted by BUAR down the longitudinal centerline of the buried portion of the wreckage at a 1-m (3.28-ft) interval revealed the hull remains to be buried under 0 to 1.04 m (0 to 3 ft 4 in) of wet sand with the more deeply buried end oriented shoreward. The maximum exposed and preserved dimensions of the heavily sand-abraded stem and apron measured 27.94 cm (11 in) molded and 22.86 cm (9 in) sided, and 24.13 cm (9-1/2 in) molded and 20.20 cm (8 in) sided, respectively. The stem and apron were iron-fastened with 2.22 cm (7/8 in) -diameter, round-in-section, clenched, through-bolts. The remains of iron bobstay plates, each measuring 6.35 cm (2-1/2 in) wide, 1.27 cm (1/2-in) thick, and 46.99 cm (1 ft 6-1/2 in) long, were visible on either side of the stem-assembly. Heavily sand-abraded individual frames within double-sawn frame pairs had maximum exposed and preserved dimensions that measured between 15.24 and 21.59 cm (6 and 8.5 in) molded and 17.8 and 29.21 cm (7 and 11.5 in) sided. Hull planking measured 7.62 cm (3 in) thick. Treenails were octagonal in section and measured 2.86 cm (1-1/8 in) in diameter. A mixture of wood types was observed by BUAR in the exposed timbers. While different species of hardwoods were dominant, a small percentage of softwood was also found to be present.

Based on the weight of available archival, photographic, historical, and archaeological evidence, the wreck was tentatively identified by the team as most likely being that of the three-masted schooner, *Warren Sawyer*, lost at the same location on December 22, 1884 while *en route* from New Orleans to Boston with a cargo of 1,115 bales of cotton and 28 tons of scrap metal. The schooner ran aground on the beach during rough weather after sustaining damage while "pounding over" Old Man Shoal near Pochick Rip off Siasconset (i.e., Nantucket's southeast corner) and then again on the "Miacomet Rip" shoals, as it approached the beach. Amazingly, *Sawyer's* captain and seven-man crew were all rescued by the crew of the nearby Surfside Life Saving Station within about an hour of the schooner's grounding. *Sawyer* remained intact on Miacomet Beach for two weeks, allowing for 700 of its 1,115-bale cargo to be removed by means of skids and ox teams. The schooner's salvaged cotton cargo was carted off to the nearby railroad track where it was sent into town and then on to Boston, before a southerly gale blew-up on January 6, 1885 and ripped the schooner apart, scattering its fragmented hull remains, remaining cotton cargo, and cordage over a half-a-mile of beach. Based on the reported location of the wreck, historical photographs, and its documented hull materials and dimensions, as recorded in the American Lloyd's and American Shipmasters' Association annual vessel inspection reports, all evidence (except for an absence of copper fasteners in the exposed hull timbers examined by BUAR), were consistent with the wreck's identification as *Warren Sawyer*.

On February 9, 2023, the BUAR was contacted again by Mr. Schwanfelder of EMI, who filed another BUAR SHIPS report for a second section of wreckage that had appeared on Miacomet Beach, about a half mile west of the originally-reported hull remains. Based on the EMI's on-site inspection and the Board's staff's examination of EMI-provided photographs of this newly reported wreckage, we concluded that it was a small (approximately 4.57 m [15 ft] square) section of the lower part of a hull's stern, and likely also part of the schooner *Warren Sawyer*. A quick, second-look check of the wreckage by Mr. Schwanfelder observed the remnants of copper fasteners in the hood-ends of its planking with iron fasteners and treenails observed in other hull components. The Board's staff discussed with EMI scheduling another BUAR visit to Nantucket to document this section of stern wreckage; however, the hull remains were re-buried by shifting beach sands before BUAR could get back out to Nantucket and the site.

Despite the relatively mundane nature of *Warren Sawyer's* purpose and cargo as a mixed-freight coastal schooner (i.e., analogous to being an "18-wheeler" of the nineteenth century), its discovery garnered

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extensive public interest and press coverage. The Board's staff and others from the Nantucket project team were interviewed by the *Boston Globe*, with articles appearing in its digital edition and on the front page of its print edition between February 28-29, 2023. In addition to the press coverage that the site received from the *Globe*, and even international news outlets, EMI developed for its "Time & Tide" podcast a two-part episode on the discovery and subsequent research on the wreck site that included interviews with the Board's staff and provided BUAR and EMI with an outstanding collaborative public-outreach opportunity. The following links to the article and podcast may also be found on the BUAR website in the "News Articles, Publications, and Online Media" section of its Underwater Archaeology Links (<https://www.mass.gov/service-details/underwater-archaeology-links>) webpage:

- <https://www.bostonglobe.com/2023/02/28/metro/stories-coming-back-life-an-inside-look-recent-shipwreck-discoveries-nantucket/>
- <https://timeandtide.buzzsprout.com/976771/12165762-south-shore-shipwreck-part-1-the-find>
- <https://timeandtide.buzzsprout.com/976771/12301255-south-shore-shipwreck-part-2-the-survey>.

The Board's staff has added the *Warren Sawyer's* wreck site to its SHIPS database, is preparing a site-report for the wreck, and will be submitting a site form to the MHC for inclusion in its inventory and MA Cultural Resources System (MACRIS) geodatabase.

- [Lizzie Carr Shipwreck, Rye, NH](#)

On December 30, 2022, the Board's staff responded to a request for inter-state assistance from former staff and Deputy Director of BUAR, David Trubey, who is now the Archaeologist and Review & Compliance Coordinator with the New Hampshire Division of Historical Resources (NHDHR), to help NHDHR investigate and document the recently exposed remains of the wooden-hulled schooner, *Lizzie Carr*. The wreckage is well-known to the NHDHR, as parts of it were excavated archaeologically by the former NH State Underwater Archaeologist, the late Dr. David Switzer, and his then-graduate student and current FEMA Archaeologist, Christopher Morris. The wreck's exposure was first reported to BUAR by Yvonne and Paul Domings on December 27, 2022. Mrs. and Mr. Domings were participants in BUAR's and the Trustees of Reservations' November 6, 2022 "Shipwrecks of Steep Hill Beach" talk and sunset walking tour of the shipwreck sites of the Essex-built fishing schooners-turned-sand-schooners, *Ada K. Damon* (1875) and *Edward S. Eveleth* (1893), on Steep Hill Beach at the Trustees of Reservations' Castle Hill/Crane Estate site in Ipswich. Based on their recent experience, the Domings were able to apply what they had learned about shipwrecks during the BUAR/Trustees program in their identification of *Lizzie Carr's* hull remains as a shipwreck site.

- [Sylvina W. Beale, Essex](#)

On December 30, 2022, the Board's staff, with assistance from the NHDHP's staff, returned to Burnham's Shipyard/Essex Shipbuilding Museum in Essex to continue assisting the yard and museum with the documentation of select construction details preserved in the remains of the 1911 fishing schooner, *Sylvina W. Beale*, prior to its disassembly and preservation by the museum and yard.

- [Essex Bay Shipwreck, Gloucester](#)

On January 27, 2023, the Board's staff received a report from Ipswich clam-fisher, Steve Hemeon, of a newly-exposed shipwreck embedded in a mudflat in the Gloucester portion of Essex Bay. On February 10, 2023, the Board's staff, Board member Graham McKay, and Essex shipbuilder, Harold Burnham, accompanied Mr. Hemeon to visit, inspect, and complete preliminary documentation of the site. The subtidal wreck had construction features indicating that it is likely to be quite old, perhaps dating from the late 1700s or early 1800s. About a 12.19-x- 4.72 m (40-x-15.5 ft) section of the hull was exposed with partially intact hull planking, frames, ceiling, and its keelson all visible extending above the mudline. The Board's staff is planning to return to the site with volunteers later this Spring to document in detail the wreck's exposed elements.

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E. CZM/BUAR Move Update

Dave R reported that during the week of December 12-16, 2022, CZM and the Board's staff completed the move of their Boston offices from their 251 Causeway Street, Suite 800 location to 100 Cambridge Street, Suite 900. In the coming year, the Board's staff plans to review and re-organize BUAR's records and materials by activity area (i.e., Project Review, Permitting, Fieldwork, Outreach/Education, Reference/Research Library, Archive, Projects, Artifacts, & Field Equipment) to facilitate and improve BUAR's administrative efficiency and information accessibility. As part of this effort, the Board's staff will also begin working on the long-term project of transitioning BUAR's records to an all-digital, searchable, filing system.

F. CZM/BUAR NOAA Projects of Special Merit Grant

In the Fall of 2020, the Board's staff responded to a CZM-staff-wide request from CZM leadership to submit ideas for possible acceptance and development as a full proposal for NOAA's Projects of Special Merit (PSM) grant funding opportunity and submitted to CZM leadership for its consideration a two-page description of a project concept. CZM leadership responded favorably to the idea and encouraged BUAR to develop a full proposal. On January 25, 2023, BUAR and CZM staff submitted to NOAA's Projects of Special Merit Grant Program a proposal for funding to support a project to conduct a statewide assessment of the vulnerability of MA's coastal cultural resources to climatic coastal hazards and sea level rise. The proposed project involves applying a climate change vulnerability assessment formula (i.e., "sensitivity" + "exposure" = vulnerability) developed by the NPS for their infrastructural assets. Cultural resource density maps developed in cooperation with MHC from their MACRIS geodatabase and BUAR/CZM's shipwreck geodatabase will be overlaid onto CZM's shoreline change mapping data and predictive flood/inundation mapping to determine along which portions of the MA coastline cultural resources are most vulnerable to damage or destruction by coastal hazards and sea level rise. Determining this vulnerability will assist BUAR, CZM, MHC, THPOs, and municipalities in prioritizing areas and resources for proactive planning of adaptive management responses. Notification of whether or not the CZM/BUAR proposal has been selected by NOAA for PSM funding is anticipated in July 2023.

3. BOARD MEMBER REPORTS

There were no Board member reports.

4. PUBLIC ENGAGEMENT ACTIVITIES

A. Trustees of Reservations Marine Archaeology Talk and Sunset Hike – Steep Hill Beach at Castle Hill on the Crane Estate, Ipswich

On February 18, 2023, the Board's staff, in collaboration with the Educational Programs staff of the Trustees of Reservations' Castle Hill on the Crane Estate property in Ipswich, gave an in-door presentation on how the Board and the Trustees are working together to research and protect important maritime heritage resources on the property, followed by a guided sunset hike on Steep Hill Beach to discover and examine the exposed remnants of the wrecks of two sand-schooners - the 1875 *Ada K. Damon* and the 1895 *Edward S. Eveleth*. The event was open to the public and sold out.

B. South Shore Neptunes Dive Club – Zoom Talk

On February 21, 2023, the Board's staff presented the Zoom talk, "Fearless Devotion: An Accounting of the Sinking and Salvage of the US Submarine S-4," at the monthly virtual meeting of the South Shore Neptunes Dive Club.

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C. Massachusetts Archaeological Society – Cape Cod Chapter – Cape Cod Museum of Natural History, Brewster

On February 22, 2023, BUAR staff presented the in-person talk, “Uncommon Wealth: Massachusetts’s Underwater Archaeological Resources,” during the monthly meeting of the Cape Cod Chapter of the MAS at the Cape Cod Museum of Natural History, Brewster. The hybrid format meeting was open to the MAS membership and the public and was well-attended with approximately 55 people present in-person and online.

Dave R reminded everyone that the next scheduled public meeting of the Board will be at **12:30 PM on Thursday May 25, 2023**. This meeting will be held in a hybrid format and accessible as both an in-person meeting in the large conference room of CZM/BUAR’s offices on the 9th floor at 100 Cambridge Street in Boston and via remote access. Instructions for logging into the remote access meeting will be posted prior to the meeting on the Board’s Public Meetings Information webpage (<https://www.mass.gov/service-details/buar-public-meeting-information>). Permittees and interested members of the public are encouraged to monitor the BUAR webpage’s Public Meetings Information section for other updates, meeting agendas, and meeting minutes.

Dave R thanked everyone for their attendance and participation in the public meeting of the Board.

Graham McKay moved to adjourn the meeting at 2:06 PM. Michael Driscoll seconded. Unanimous in favor. So voted.

Respectfully submitted,

David S. Robinson
Director