
FPAN Jupiter Inlet Lighthouse Outstanding Natural Area (ONA) Field School

Florida Public Archaeology Network, the Bureau of Land Management and Florida Atlantic University

January 27th-April 14th 2025

Mondays 9:00am-2:00pm

Program Staff

Team	Email	Location
Sara Ayers-Rigsby, MA, RPA	sayersrigsby@fau.edu	FPAN Davie Office
Katharine Napora, PhD, RPA	knapora@fau.edu	FAU Boca Campus
Malachi Fenn, MA, RPA	fennm@fau.edu	FPAN Davie Office

General Information

Description

This program provides the opportunity for learners to conduct archaeological fieldwork at one of Florida's most spectacular multi-component sites, which has a history extending for six-thousand years. Over the course of this 12-week program, learners will gain experience in traditional terrestrial excavation methods, laboratory analysis, report writing, underwater survey methodology, technology in archaeology, and public archaeology. The course will consist of one five-hour block of time once a week for 12 weeks, for a total of 60 hours of instruction time. The field school meets the standards of and is accredited by the Register of Professional Archaeologists (RPA), the premier professional accrediting organization of archaeologists in the country.

Learning Outcomes

- Develop basic field techniques including field safety and excavation methodology including documentation in field
- Develop basic archaeological lab techniques including safety
- Demonstrate understanding of onshore and offshore components of site
- Interpret archaeology of site for a public audience

Program Materials

Required Materials

Field and lab supplies will be provided. Participants will need to be prepared to work long days in adverse conditions including heat and rain and should be dressed accordingly, including, but not limited to long sleeved shirts, hats, long pants, closed-toed shoes, etc.

Required Texts (Digital copies provided for materials not publicly available)

Ayers-Rigsby, S., R. Kangas, E. Dietrich, M. Fenn, V. Lincoln, K. Higgins, A. Schneider

2020 Interim Report: Jupiter Inlet Outstanding Natural Area. Prepared for the BLM. On file with the Florida Public Archaeology Network, Davie, FL.

Carr, R. (AHC)

2014 An Archaeological Assessment and Monitoring of the Jupiter BLM and Coast Guard Parcel, Palm Beach County, Florida. On file with DHR, Tallahassee, FL.

Cook-Hale, J., J. Benjamin, K. Woo, P.M. Astrup, J. McCarthy, N. Hale, F. Stankiewicz, C. Wiseman, C. Skriver, E. Garrison, S. Ulm, G. Bailey

2021 "Submerged landscapes, marine transgression and underwater shell middens: Comparative analysis of site formation and taphonomy in Europe and North America" *Quaternary Science Reviews* 258: 106867.

Florida Division of Historical Resources

Und Module 3: Accessed at <https://files.floridados.gov/media/31394/module3.pdf>

2012 "Collections Guidelines" chromeextension://efaidnbmnnnibpcajpcgclclefindmkaj/https://files.floridados.gov/media/31934/dhr_sendin_gartifactstobarcollections.pdf

Halligan, J.

2020 "Crossing the waterline: Integrating terrestrial and submerged site investigations in the Aucilla River, Florida." *The Journal of Island and Coastal Archaeology* 16:1, 46-63, DOI: 10.1080/15564894.2020.1782541

Jackson, K., T.J. Pluckhahn, J.A. Rogers, P. Wang, and V.D. Thompson

2023 "Geoarchaeology and Coastal Morphodynamics of Harbor Key (8MA15): Indigenous Persistence at a Partially Inundated Native Shell Mound Complex in Tampa Bay, Florida." *American Antiquity* 88(4):531-553 doi:10.1017/aaq.2023.45

Lecher, A. and A. Watson

2021 "Danger from beneath: groundwater-sea-level interactions and implications for coastal archaeological sites in the southeast US." *Southeastern Archaeology* 40:1, 20-32, DOI: 10.1080/0734578X.2021.1874769

Morgan, Colleen and E. Stuart

2012 "DIY and digital archaeology: what are you doing to participate?" in *World Archaeology*, December 2012, Vol. 44, No. 4, Open Archaeology, 521- 537.

Moshenska, G.

2017 "Introduction: public archaeology as practice and scholarship where archaeology meets the world" *Key Concepts in Public Archaeology* <https://doi.org/10.2307/j.ctt1vxm8r7.5>

Nagarajan, S., S. Khamaru, P. De Witt

2019 "UAS based 3D shoreline change detection of Jupiter Inlet Lighthouse ONA after Hurricane Irma" *International Journal of Remote Sensing*, 40:24, 9140-9158, DOI: 10.1080/01431161.2019.1569792.

Panamerican Consultants, Inc.

2013 Submerged Cultural Resources Remote Sensing and Diver Identification of the Intracoastal Waterway, Jupiter, Florida. On file with the Florida Division of Historical Resources.

Pepe, J. (Janus Research)

2017 Cultural Resources Assessment Survey, State Road (SR), SR-5/US-1 Federal Highway Bridge, from CR AIA to Beach Road, Palm Beach County Florida.

Spude, C. (Society for Historical Archaeology)

Und Common 20th Century Artifacts-A Guide to Dating. Accessed at <https://sha.org/resources/20th-century-artifacts/>

Wilson, Douglas, PhD; Robert Cromwell, M.A., Danielle Gembala, M.A., Theresa Langford, M.A., and Debra Semrau, M.

2003 Archaeology Lab Manual. On file with Fort Vancouver National Historic Site.

Program Schedule

Date	Topic	Reading	Program
1/27/2025	Introduction	DHR guidelines, Carr 2014	Site Tour, Introduction
2/03/2025	Site Preparation	Ayers-Rigsby et. al. 2020	In field preparing site, begin excavation of cistern
2/10/2025	Site Survey	Nagarajan et. al. 2019, Lecher and Watson 2021, Introduction to Zooarch	Conduct survey of site at coastal midden, geomorphology
2/17/2025	Field Methodology	Reference	Document site with 3D scanners, plan activities for public day
2/24/2025	Site Survey	Miller and Murray, Pepe 2017	Conduct survey of site at coastal midden; finalize duties for public day
3/3/2025	Report Writing	DHR Guidelines	Remote: Write Assigned portion of report
3/8/2025	Public Archaeology	Wilson 2003	Public Day on-site at ONA
3/10/2025	Introduction to lab	DHR Collections Guidelines 2012	Begin processing artifacts in lab, plan for public day
3/17/2025	Fieldwork/Lab	DHR Guidelines	Continue processing artifacts and excavations
3/24/2025	Lab	Moshenska 2017	Lab
3/31/2025	Underwater Archaeology	Halligan 2020, Cook-Hale et al 2021	Complete excavation Wading survey

Date	Topic	Reading	Program
4/7/2025	Laboratory Analysis	SHA	Artifact processing and cataloging
4/14/2025	Public Interpretation/Science Communication	Wilson 2003	Wrap up excavation and lab work, graduation

Assessment Schedule

Date	Subject
2/24/2025	Basics of Field Methodology and Safety
3/24/2025	Artifact Analysis and Laboratory Procedures
4/14/2025	Science Communication

Additional Information and Resources

Assessment

Participants will be assessed based on participation as well as three skills-based assessments (Basics of Field Methodology and Safety, Artifact Analysis and Laboratory Procedures, and Science Communication). The first two assessments will be conducted on site and the Science Communication element will consist of short project pitch (i.e. social media campaign proposal, traditional talk, tour etc.) completed by participants. To complete the program, participants may not miss more than two days, and will be required to make-up work that they miss.

Project Background

PB00035/Jupiter Midden #2 has a history of nearly continuous occupation extending back for 6000 years but is now at risk due to the impacts of climate change. Over the past eight years, erosion at the site has reduced the volume of shoreline by cubic feet (Nagarajan et. al 2019). This has also manifested in the deterioration of the archaeological stability at the site.

The southern shoreline is eroding visibly and dramatically. Following efforts by the Bureau of Land Management to stabilize the area in 2021, erosion has reduced; however, cultural material is still regularly observed in the area by FPAN and BLM staff. It is critical to ascertain if this is material which is eroding and washing in, or part of an offshore component of the site.

Additionally, construction activity on the site in August of 2022 revealed a brick foundation, which was explored in the 2023 field school. A review of historical records conducted by Neal White for the Bureau of Land Management indicates the foundation may be associated with a foundation for a wooden kitchen illustrated in a historical 1888 drawing.

The research goal of the project is to attempt to document archaeological material and stratigraphy outside the historic seawall along the south shore of the property, and to establish a date for the exposed brick foundation.

Following completion of the field school a report summarizing the project will be produced for the Bureau of Land Management. Artifacts will be processed on site at the Jupiter Inlet Lighthouse Outstanding Natural Area and the Bureau of Land Management will retain custody of excavated material.

Other Helpful Resources

FPAN site <http://fpan.us/>

NAGPRA comics <https://nagpracomics.weebly.com/the-comics.html>

Archaeology in the Community <http://www.archaeologyincommunity.com/>

Social media guides - try to stick to a ~4th grade reading level!

<https://medium.com/@ArcheoAnalytics>

<https://sproutsocial.com/insights/social-media-for-museums/>

NPS Museum Handbook <https://www.nps.gov/museum/publications/handbook.html> FL DHR

Archaeological Stabilization Guide

chromeextension://efaidnbmnnnibpcajpcgltclfindmkaj/https://files.floridados.gov/media/30913/st_ab_guide.pdf

FL BAR Conservation Field Guide for Archaeologists

chromeextension://efaidnbmnnnibpcajpcgltclfindmkaj/https://files.floridados.gov/media/698014/d_hr_conservation-field-guide-2017.pdf

Video editing

Free audio library

Adobe Premiere (editing software) Tutorials

Museum collections

American Alliance of Museums ethics & best practices compendium

Iowa Field Guide for Museums