



# Florida Keys National Marine Sanctuary Maritime Heritage Management

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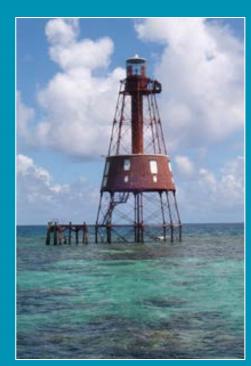
#### Interconnected Resources















#### Sanctuary's Maritime Heritage







Native American Cultures -- submerged archaeological sites -- dating to 15,000 years before present to 19th century

Shipwrecks covering broad periods of maritime history --

European Colonial --16th to 19th Century American --18th to early 20th Century Modern --Early 20th Century to WWII





<u>Historic structures</u> -- Offshore aids to navigation that helped mariners safely transit the maritime highway along the Florida Keys

#### Florida Keys National Marine Sanctuary





An estimated
 2000 shipwrecks
 are thought to
 have occurred in
 the Florida Keys
 since European
 conquest of the
 New World.



### Crossroads of the Atlantic World







#### Historical Resources Definition





- Maritime Heritage Resources (MHR)
- Submerged Cultural Resources (SCR)
- Underwater Cultural Heritage (UCH)
- Historical and Cultural Resources

#### Include:

- Shipwrecks, Aircraft, Aids to Navigation, Native American Sites/Artifacts
- Non-renewable sites/artifacts of historical, archaeological or cultural interest

 Common heritage: who we are, what is important to us, where we live, what we do and how we do it



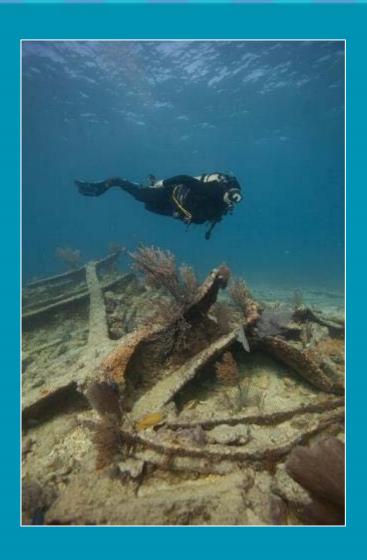




# Why are Historical Resources Important?







- They give us unique information about our past
- They provide exciting opportunities for recreational and educational experiences
- They attract tourism and increase opportunities for commerce

# Importance of Leaving Historical Resources Untouched





Illegally removing or moving artifacts, or damaging archaeological sites rob the American People of their history.



- Historical Resources are nonrenewable
- Artifacts removed or moved lose context

False perceptions about wrecks:

- -Out-of-sight, out-of-mind
- -Finders-keepers mentality
- -Environment destroys anyway

#### National Marine Sanctuary Regulations





- Prohibitions Include:
- Movement of, removal of, injury to, or possession of sanctuary historical resources, without permit
- Alteration of, or construction on the seabed. Drilling into, dredging, or otherwise altering the seabed of the sanctuary, or constructing, placing or abandoning any structure, material, or other matter on the seabed.
- What does this mean?
- Take only pictures, do not touch, pick up, or move artifacts, do not hand-fan sediment to expose artifacts.







#### Maritime Heritage Management





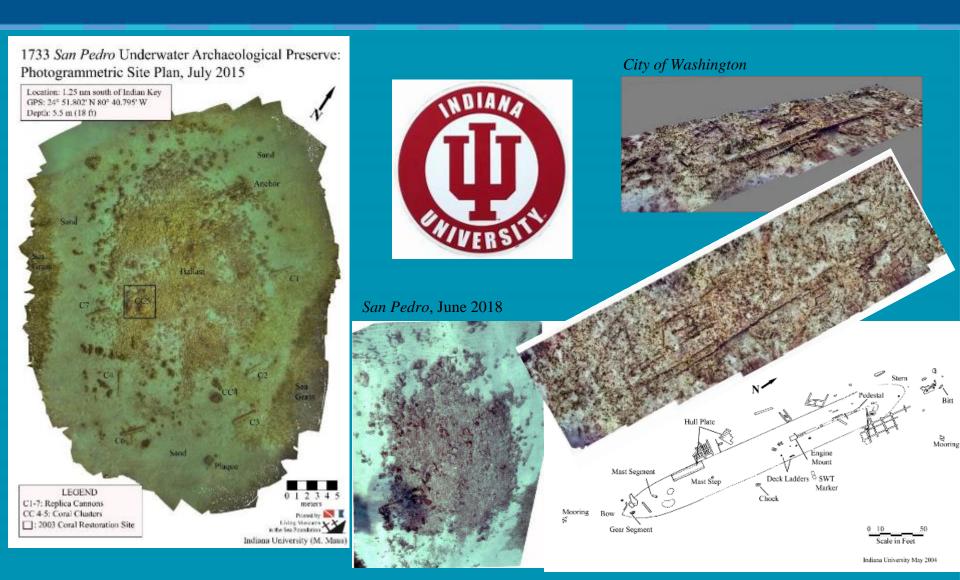






- Inventory the area's historical resources to develop information allowing the ONMS to make informed decisions about resource protection and management
- Permit participatory research, documentation, and curation of historical resources
- Develop community-based stewardship for the sanctuary's maritime heritage
- Interpret Florida Keys maritime heritage for the public

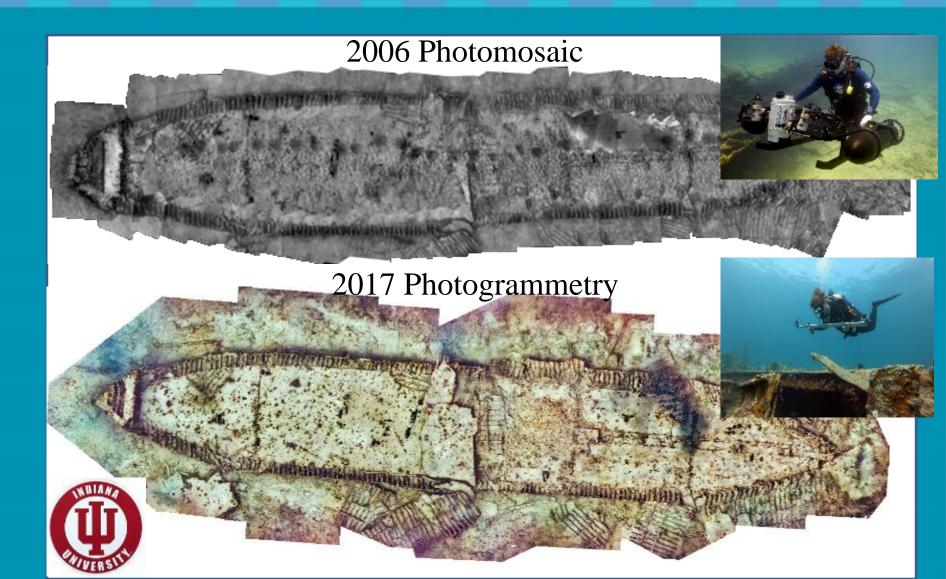
# Research Partnerships



# Benwood 1910 - 1942







## Elbow Reef Steamships



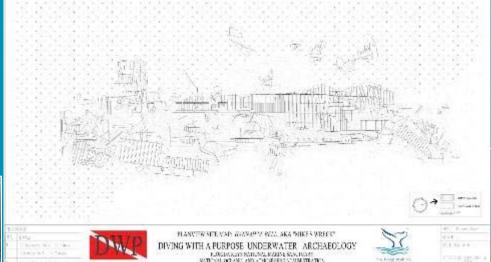












## Carysfort Reef Landscape Study





#### UNIVERSITY OF MIAMI













## Molasses Reef Landscape







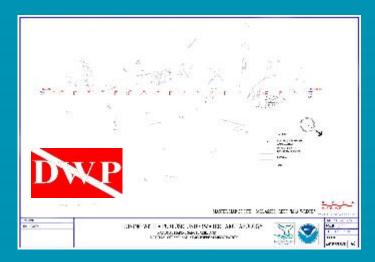








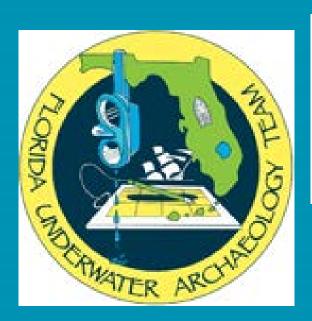








# Cooperative Management with Florida's Division of Historical Resources





Programmatic
Agreement for FKNMS
Operations,
Management, and
Permitting

# Historical Resource Permitting





TYPE	NUMBER	PERMITTEE	ASSOCIATION	PROJECT	Location
R/R	FKNMS-2019-110 (2/4/2019 - 12/31/2019)	Kim Fisher	Motivation Inc.	Santa Margarita Expedition	Quicksands
R/R	FKNMS-2019-05 (2/4/2019 - 12/31/2019)	Kim Fisher	Motivation Inc.	Nuestra Senora de Atocha Expedition	Quicksands
S/I	FKNMS-2016-014-A1 (6/7/2017 - 10/1/2019)	Richard Lightner	OceansBlu LLC	OceansBlu Pursuant to U.S.D.C83-1218-CIV-Kehoe	Marquesas Keys
S/I	FKNMS-2016-009 (4/26/2017 - 4/25/2019)	Doug Gossage	Private	1733 San Fernando Project	East Turtle Shoal off Duck Key
S/I	FKNMS-2016-002 (5/4/2017 – 5/3/2019)	Mick O'Connor	Private	San Ferndndo Expedition	Offshore Duck Key
S/I	FKNMS-2017-054 (6/12/2017 - 6/11/2020)	Stephen Anthony	MAHS (Maritime Archaeological & Historical Society)	MAHS Survey of Unidentified Shipwreck Remains at Pickles Reef	Pickles Reef
S/I	FKNMS-2017-169 (03/01/2018 - 03/01/2020)	Sam Lapinsky	Private	Jim Conway's Deep Wreck	Alligator Reef to Tennessee Reef
S/I	FKNMS-2018-074 (07/15/2018 – 07/15/2019)	Corey Malcom	Mel Fisher Maritime Heritage Society	3D Photogrammetry at Suppose to be Guerrero Nimble Shipwrecks	Turtle Reef
S/I	FKNMS-2018-065 (06/01/2018 – 07/01/2021)	Frederick Hanselmann	University of Miami	US RSMAS MES 691 Maritime Archaeology Field Study	Turtle Reef

#### Pickles Reef: Cement Barrel Wreck



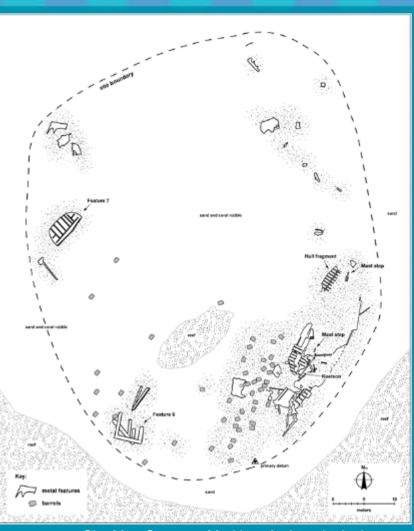












Site Map Courtesy Maritime Archaeological and Historical Society(MAHS)

# Management Challenges









# Unpermitted Disturbance



# Illegally Recovered Artifacts











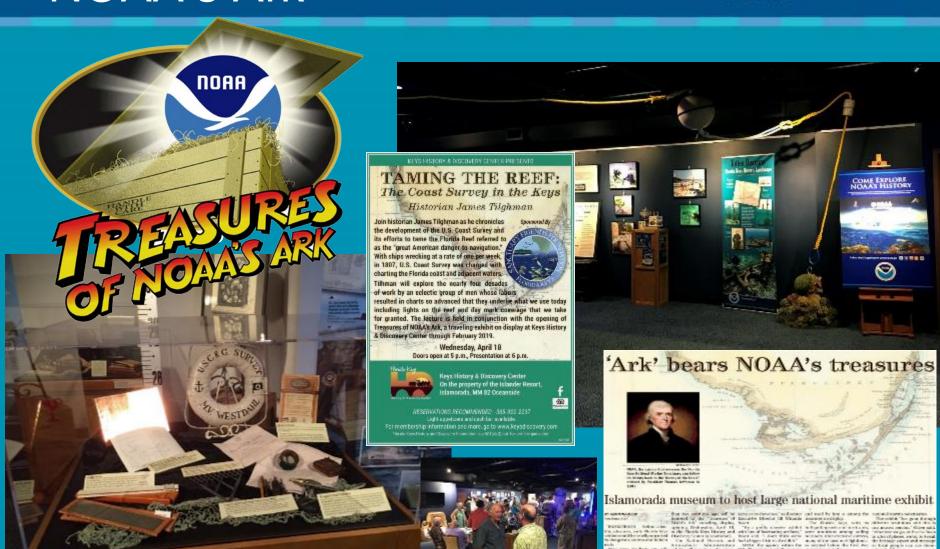




# Exhibits: Treasures of NOAA's Ark







# Exhibits: Artifacts on Display





- Florida Keys History and Discovery Center
- Key Largo Chamber of Commerce
- Mel Fisher Maritime Museum
- Crane Point Museum







# **Exhibits: Upcoming**





- History of Diving Museum Diving With A Purpose
- John Pennekamp Coral Reef State Park Visitor Center
- Eco-Discovery Center Exhibit Refresh

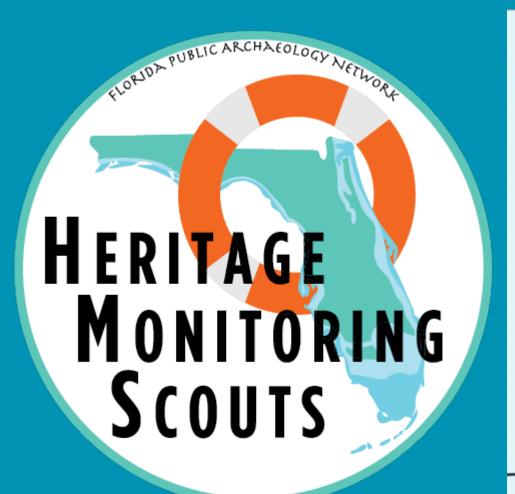




# Public Stewardship and Citizen Science









Join us for the next

#### WEKERAWA EDATKEH RAKIKER DKIVIO

Key West, FL

June 14-16, 2018

Are you an educator, resource interpreter, or outreach specialist? Join the Florida Public Archaeology Network for its next Heritage Awareness Diving Seminari Participants will be introduced to underwater historic preservation and why it is so important to proactively protect shipwreds, artificial resis, and other underwater cultural sites. Upon completion of the Seminar, attendees will be able to teach others about underwater cultural resources like shipwrecks and will know how to promote sustainable underwater feritage tourism in their area.

This three-day seminar will include two evenings of classroom-based learning and one day of in-field dive training that provides direct experience relating to classroom discussions. Cost is \$150 and includes all course materials and charter boat fees. For non-divers, cost is \$50 and includes all course materials.

> Receive a teaching outline and all classroom modules

Course includes two shipwreck dives

Explore maritime archaeology and shipwreeks Discover opportunities in underwater heritage tourism



For more information or to reserve your spot, visit FPAN.us/HADS or contact Nicole Grinnan

Florida Public Archaeology Network, Northwest Region ngrinnan@uwf.edu 850.595.0050







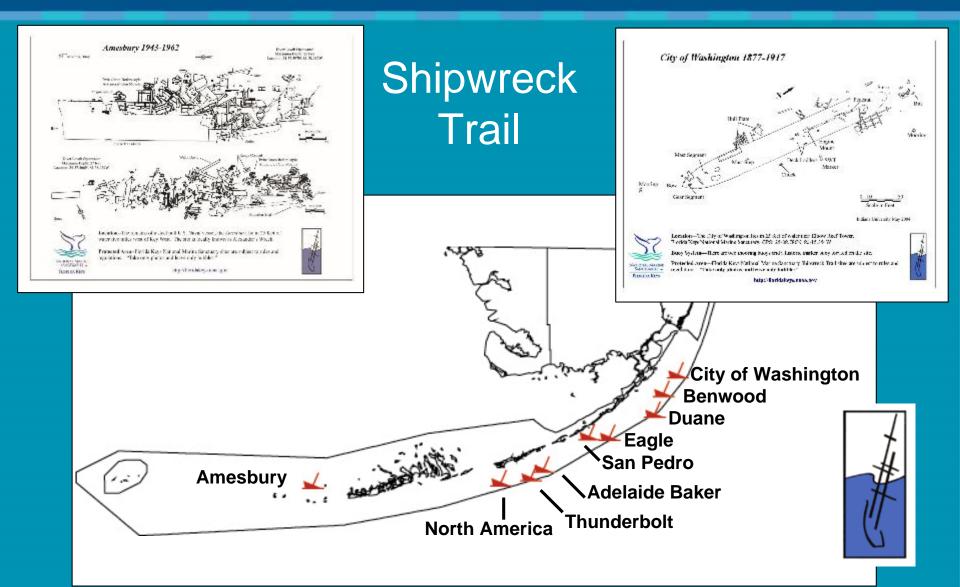




# Public Interpretation







#### French Reef: Benwood







## Shipwreck Trail

Imagery Courtesy of SSHSA











# VIRTUAL DIVES

An immersive 360 view of your national marine sanctuaries

sanctuaries.noaa.gov/VR sanctuaries.noaa.gov/VR/floridakeys

#### French Reef: Benwood





#### 360 Panorama VR Dive



https://sanctuaries.noaa.gov/vr/florida-keys/benwood-wreck.html

