Is It The *Endeavour* Bark?
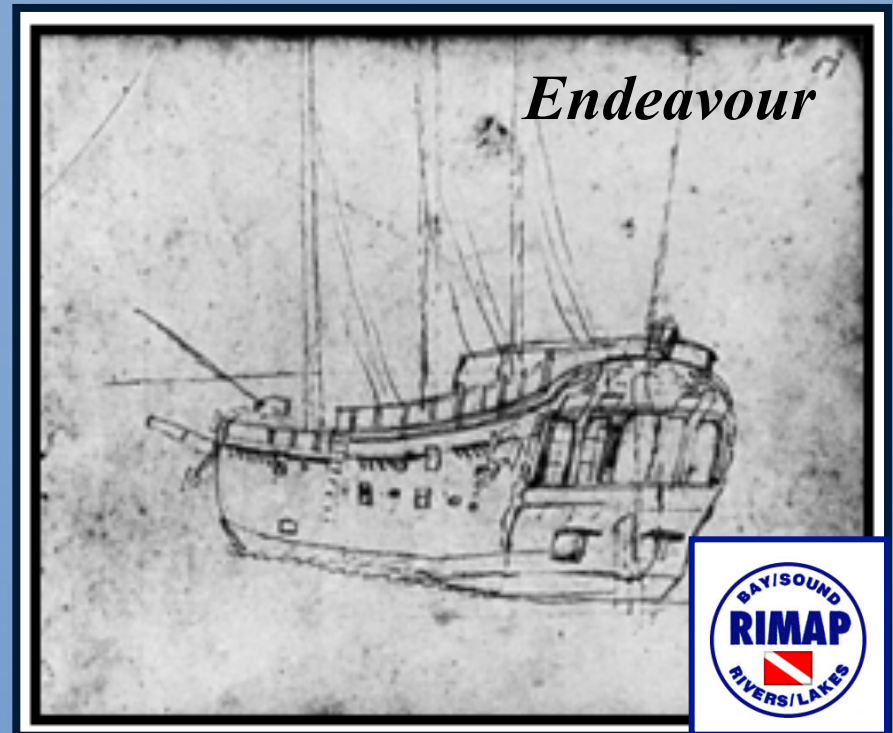

"How we got here"
D. K. (Kathy) Abbass, Ph.D.
RIMAP – Principal Investigator

Construction details:

Endeavour built in Whitby

- **Where and when built**
- **Construction technology**
- **Size and form of ship**
- **Wood and other materials**
- **Changes from repairs around the world**

Endeavour

James Cook

Archangel

Falkland Islands

RIMAP BAY/SOUND RIVERS/LAKES

Endeavour sailed:

- **As a North Sea collier**
- **Cook circumnavigation**
- **To the Falklands**
- **Merchant to Archangel**
- **Chartered transport as** *Lord Sandwich*

The Revolution in In Rhode Island:
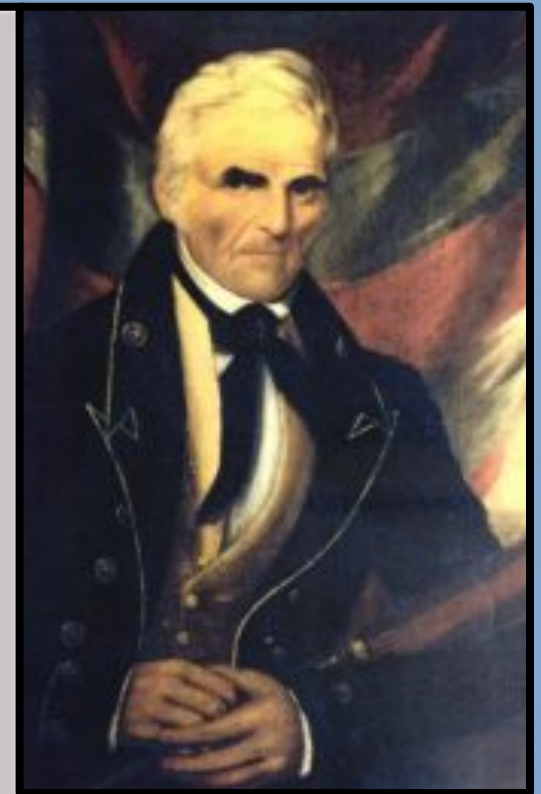## British transports to occupy Newport in 1776

Transports	Tons	Troops Carried
Amity's Admonition	410	5th Brig Regt 63d
Amity's Production	250	Cavalry Ship
Amity's Providence	327	Artillery Horse Ship
Antelope	207	3d Brig Regt 52d
Argo	289	Light Infantry
Assistance	256	Cavalry Ship
Chambre	360	5th Brig Regt 43d
Charming Sally	267	Hessian Brigs
Dutton	676	Hospital Ship
Eagle	324	Schmidt Bunau
Eagle	344	3d Brig Regt 37th
Earl of Derby	370	Ordnance
Earl of Effingham	263	Genls Jones & Smith
Earl of Orford *	231	5th Brig Regt 43d
Eleonora	286	Ditfourth
Empress	251	3d Brig Regt 10th
Esk	304	Lasberg P. Charles
Fanny	246	Cavalry
Father's Goodwill	333	Wuttginau
Felicity	264	Engineers Stores
Glencairn	193	Huyn
Grand Duke of Russia *	672	5th Brig Regt 54th
Grand Dutchess of Russia	308	3d Brig Regt 38th
Grosvenor	714	Hospital Ship
Hunter	311	Grenadiers
Isabella	362	3d Brig Regt 10th
James & William	393	5th Brig Regt 22d

Transports	Tons	Troops Carried
John	229	5th Brig Regt 54th
John	302	Cavalry Ship
John & Bella	194	Wuttginau
Judith	377	Ditfourth
Lord Sandwich *	368	Hessian Brigs
Mercury	295	Light Infantry
Minerva	218	Huyn
Minerva	258	Cavalry
Nancy	245	Ordnance
New Blessing	256	Hessian Brigs
Noble Bounty	273	Ordnance
Rachel & Mary *	320	Grenadiers
Roman Emperor	182	Schmidt Bunau
Savile	355	3d Brig Regt 52d
Sea Venture	299	3d Brig Regt 38th
Sisters	254	Huyn
Sovereign	n.a.	Vict/Clinton Bag.
Spring	378	Lasberg P. Charles
Susannah *	240	3d Brig Regt 37th
Three Sisters	382	5th Brig Regt 63d
Tryal	230	Ditfourth
Tweed	162	Lasberg P. Charles
Young Tom	173	Wuttginau
Union *	302	Schmidt Bun

Newport prison ship:
Local prisoners on board

Townsend-Goddard cabinetmakers

Capt. John Cahoone

Made by
John Townsend
Rhode Island
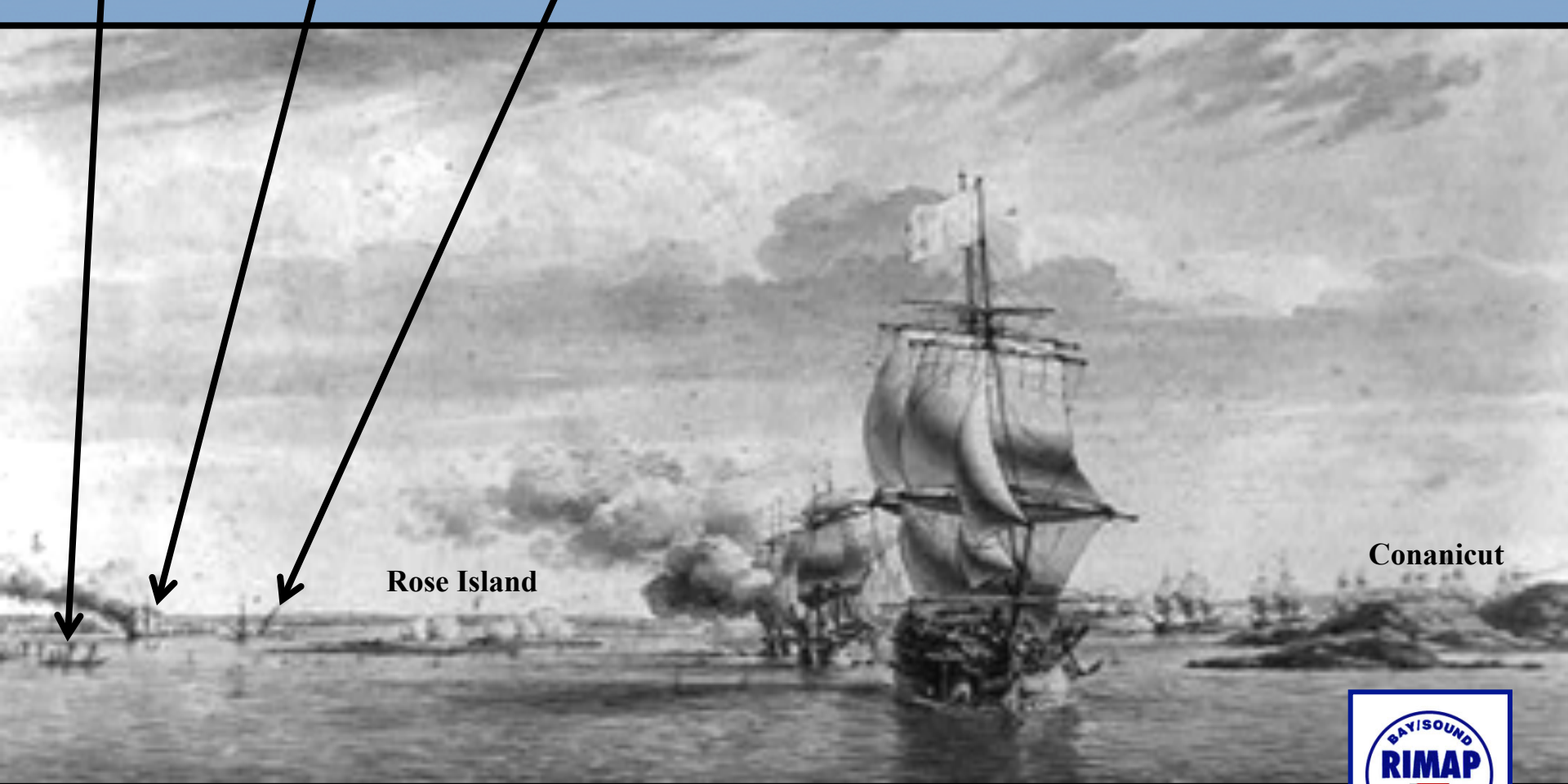1765

RIMAP
BAY/SOUND
RIVERS/LAKES

Transports scuttled: During French threat in 1778

Transports nested North of Goat Is.

The *Grand Duke of Russia* afire

Transports West of Goat Is.

Rose Island

Conanicut

RIMAP
BAY/SOUND
RIVERS/LAKES

Drawing by Ozanne

NAME OF TRANSPORT	TONNAGE	WHERE BUILT	TO SOUTH PACIFIC	BURNED	PRISON SHIP	TROOPS ABOARD
BETTY *	235 5/94	?				?
BRISTOL	219 64/94	?				?
BRITANNIA *	374 82/94	America				16th Light Dragoons
EARL OF ORFORD *	231 71/94	America				5th Brigade / 43rd Regiment / 57th Regiment
GOOD INTENT *	241 17/94	Scarborough				Hessians
GRAND DUKE of RUSSIA*	671 84/94	East Indiaman	Probably	Yes		Multiple Regiments
LORD SANDWICH *	368 71/94	Whitby	Yes		Yes	Larsborg du Corps Hessians
MALAGA *	205 91/94	America				Hessians
PEGGY	152	?				?
RACHEL AND MARY *	320 7/94	Hull				33rd Regiment and Grenadiers
SUSANNA *	254 10/94	Bristol				3rd Brigade / 37th Regiment / 54th Regiment
UNION *	261 66/94	America				Multiple regiments
UNION	309	?				?

 * = Owned by John Wilkinson
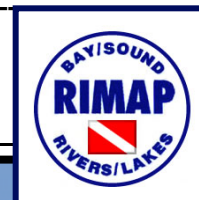
The original matrix of 13 transports

Transport locations: According to British engineer Ed. Fage

★ **Where we are now**
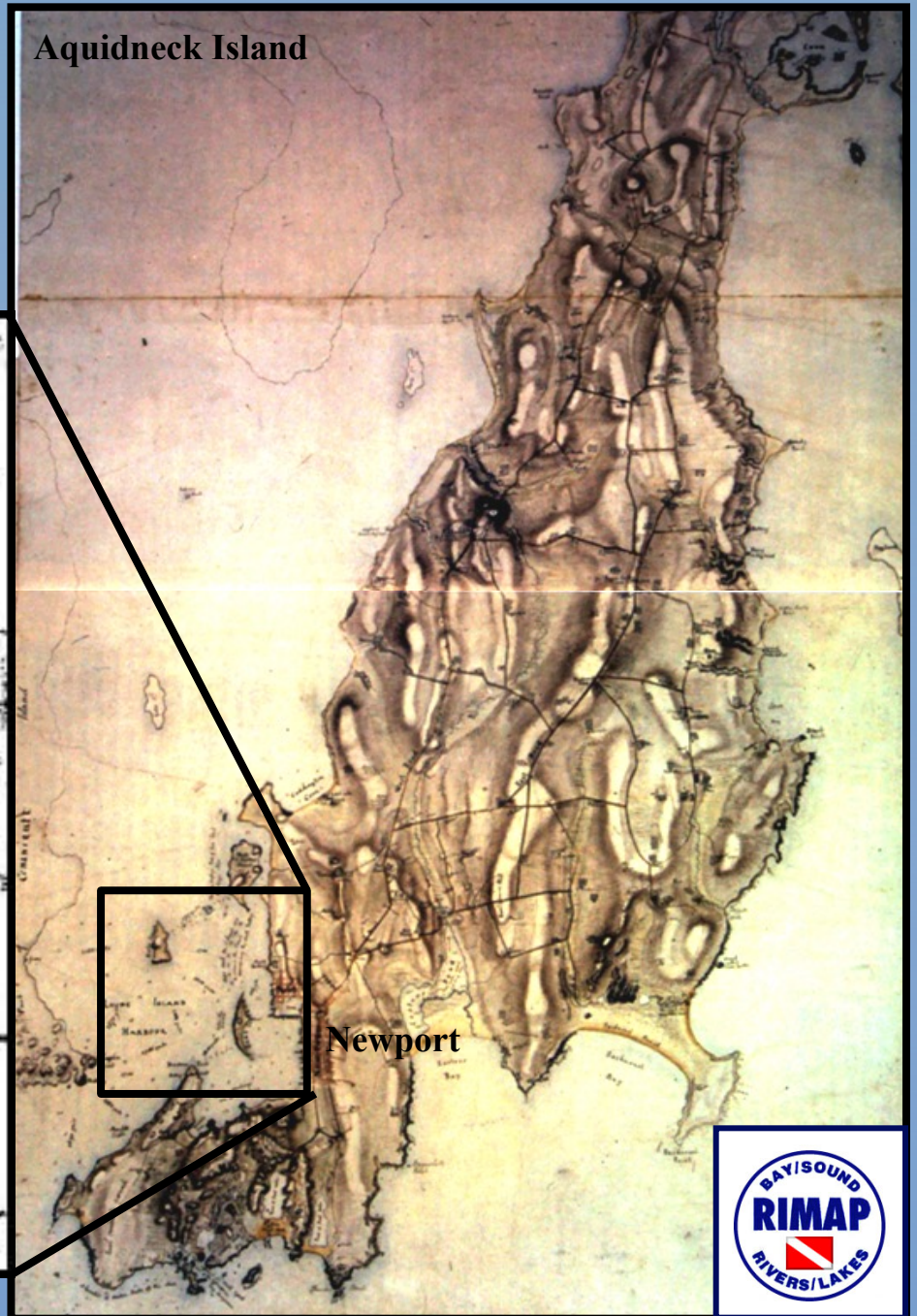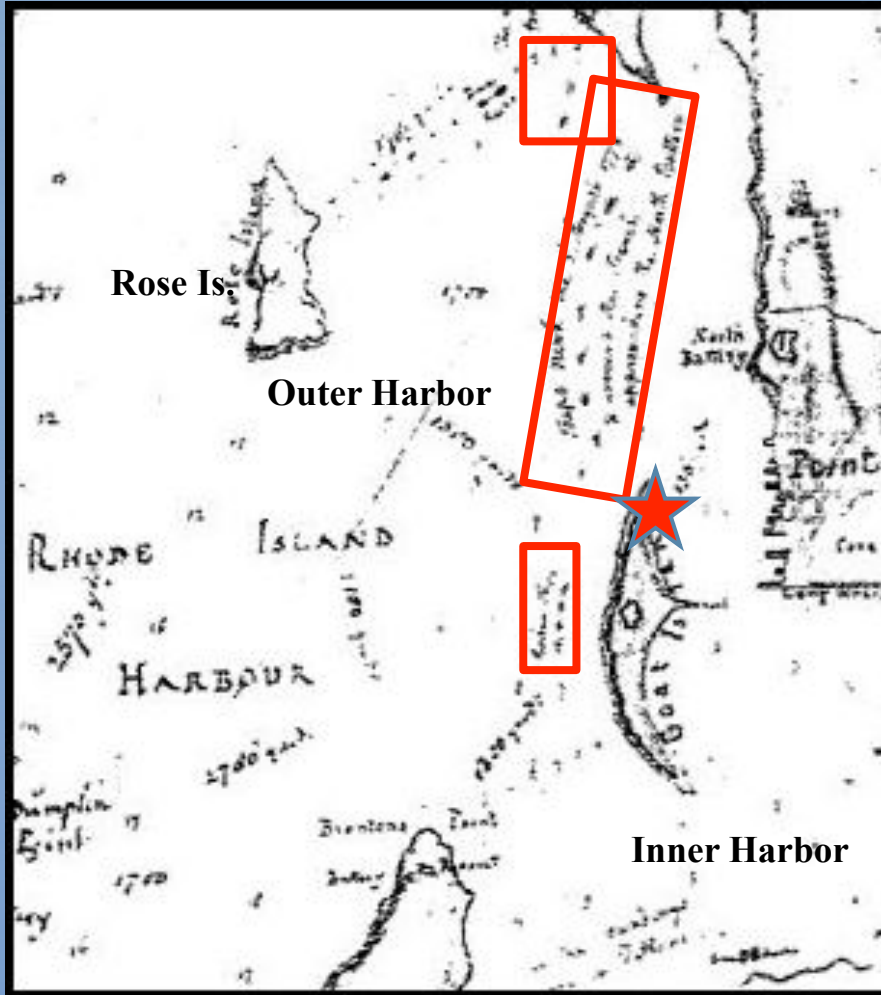
The five transports: Including the *Lord Sandwich*

 We are here.

Blue Rocks & Pest Island	
Bristol	
Malaga	
Esther	
Goat Island & N. Battery	
Lord Sandwich	
Earl of Orford	
Yowart	
Peggy	
Mayflower	
Goat Island & Rose Island	
Good Intent	
Rachel & Mary	
Susanna	
Union	
Lime Rocks & Goat Island	
Lucy	
[Burned Off the Point]	
Grand Duke	

The Limited Study Area
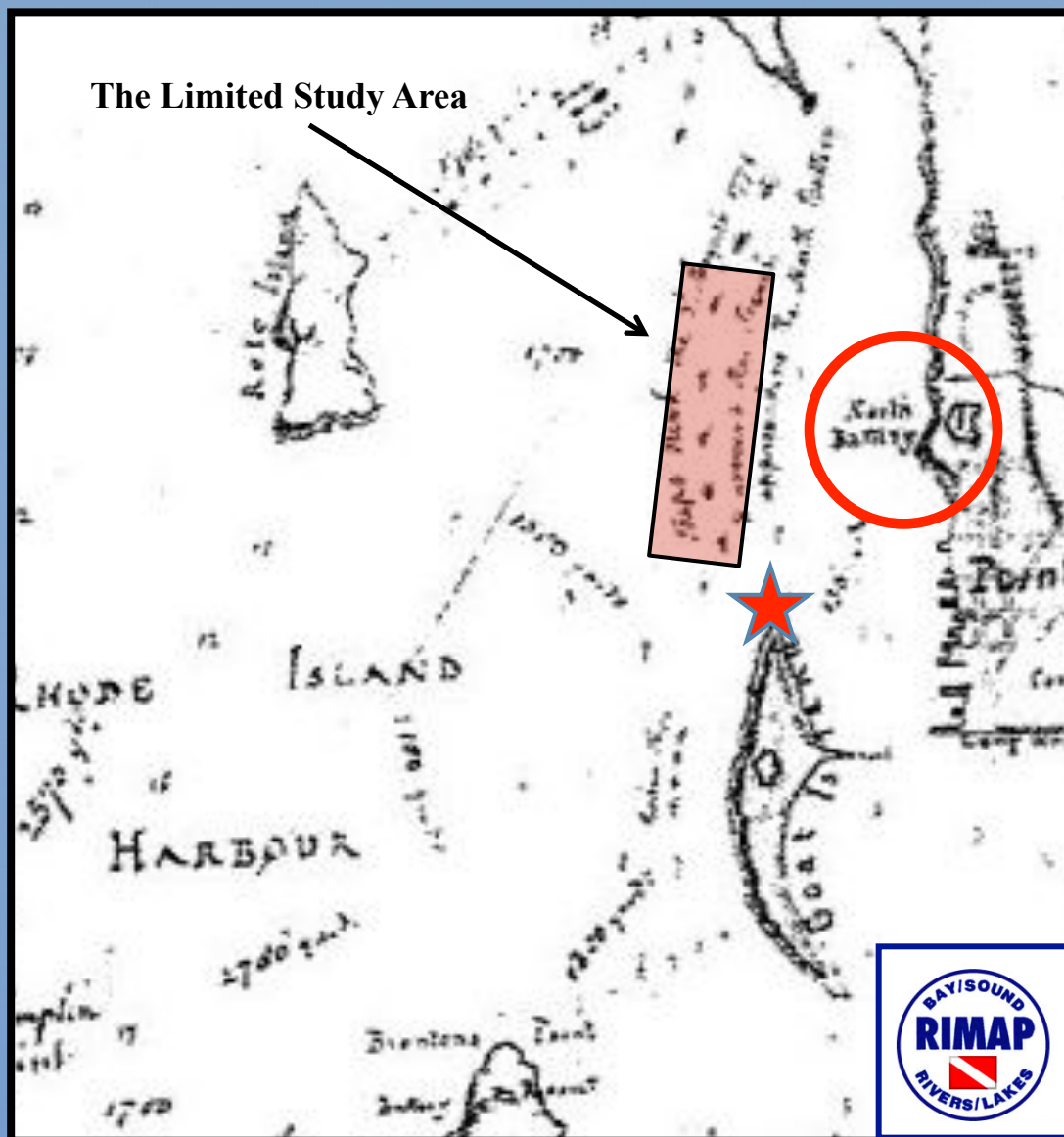
The *Lord Sandwich* was the largest of the five!

Transport Name	Tonnage	Built	Date	Troops	Comments
Lord Sandwich	368 71/94	Whitby	1764	Hessians	Collier/Prison/Pacific
Earl of Orford	231 71/94	Maryland	1771	43 & 57 Rgt.	British troops
Yowart	272	Whitehaven	1764	Victualler	Collier?
Peggy	152	Rhode Isl.	1773	Victualler	Possible other *Peggy?*
Mayflower	197	Whitehaven	1769	71st Rgt .	Collier?

===

SUMMARY: Diagnostic samples and artifacts may help to identify each site, based on:

3 vessels were built in northern England; all 3 appear originally to have been colliers.

2 vessels were built North America, but were in North Atlantic trade.

1 vessel carried Hessians troops; 2 carried British troops; 2 with provisions.

Knowles reports that all were selected because they were in poor condition.

It appears that the *Lord Sandwich* was the largest scuttled in this location.

More historical information will help to confirm identification. © RIMAP 2016

BAY/SOUND RIMAP RIVERS/LAKES

Later disturbance: Newport's Outer Harbor

Rochambeau collection
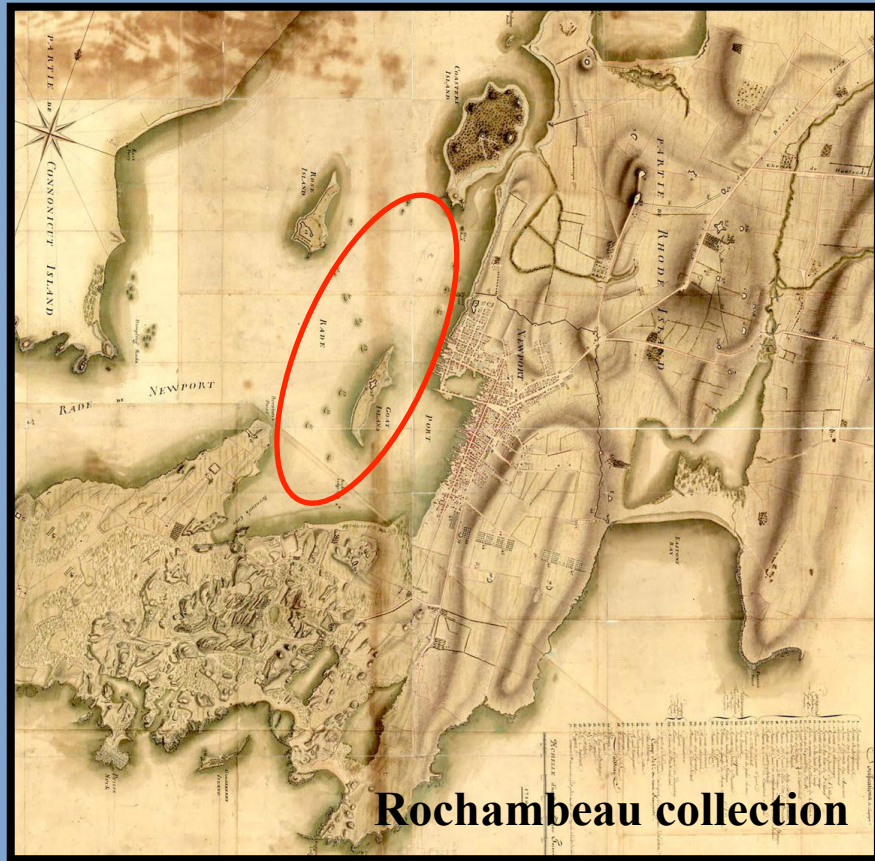
1780 – French sailors salvaged anchors and other gear from the British transports.

Goat Island Torpedo Station tests

How to find the sites: Multiple remote sensing surveys

Joe Zarzynski

**Garry Kozak
Sonar target of
RI 2394**
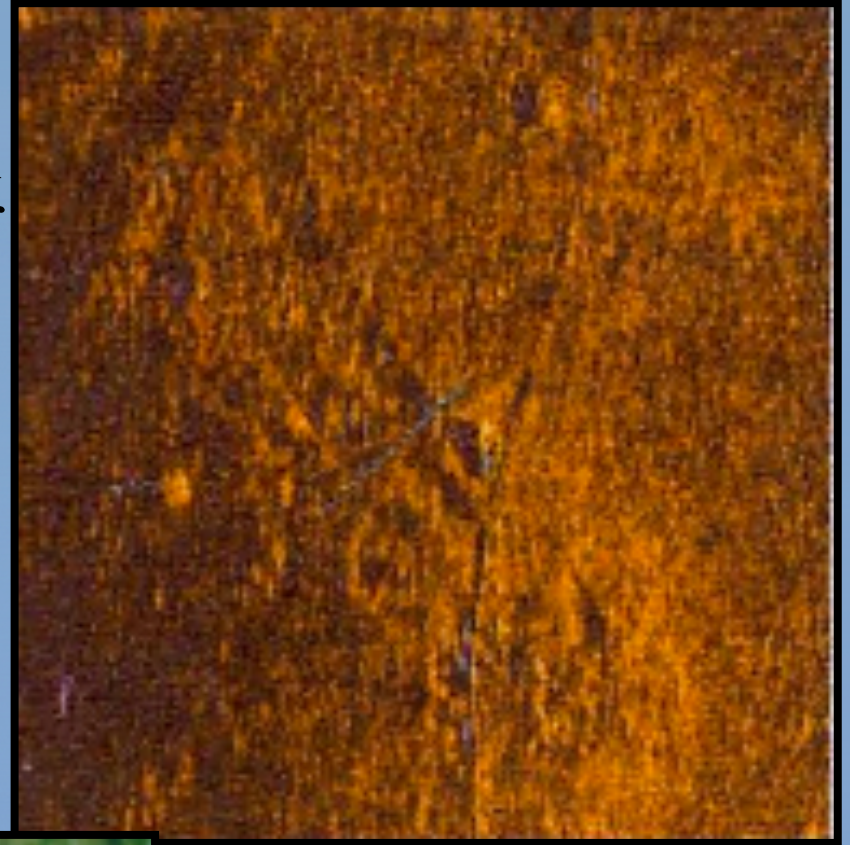
Vince Capone

NUWC

Rod Mather

RIMAP
BAY/SOUND
RIVERS/LAKES

What may be left:

- These 18th-century sites are subtle and hard to see,
- But there is apparently a great deal of material left under the covering silt.
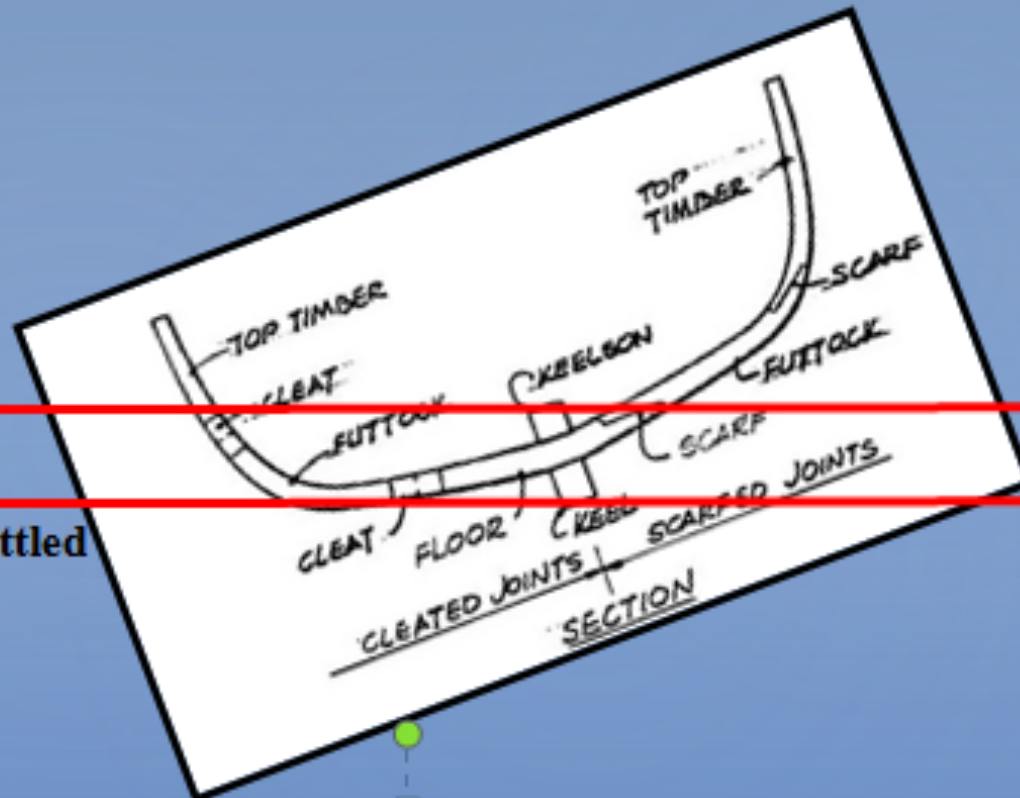
Artifacts: Great variety of cultural material, but we have removed little because of lack of a conservation facility. That will be needed before excavation begins.

Some transport artifacts

And LOTS of ballast samples

Wood

Glass

Ceramics

Textiles

Lead

Rope in Concretion

Is It The *Endeavour* Bark?

"The Field Studies"
Kerry Lynch, Ph.D.
RIMAP – Field Supervisor

**Fieldwork teams:
RIMAP and ANMM**

1993

1999

2001

2000

2016

2017

2017

RIMAP
BAY/SOUND
RIVERS/LAKES
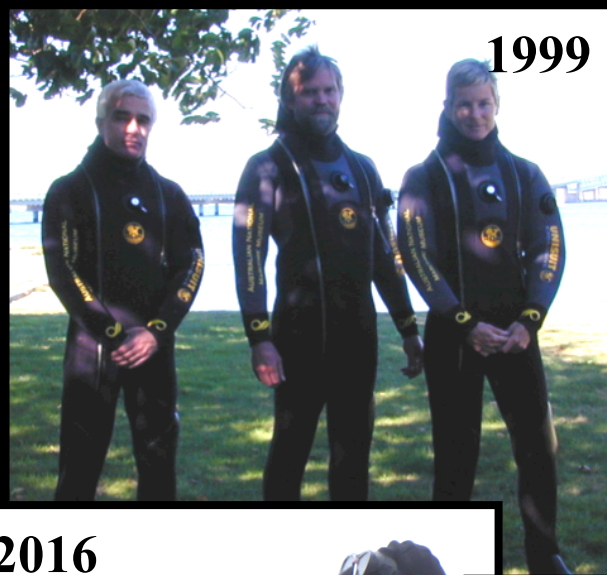
Ground-truthing the remote sensing targets:

The 2007 Kozak data:

- 6 ballast piles
- 5 modern vessels
- 2 torpedoes
- 5 abandoned ground tackle
- 2 geology
- 1 unidentified
- (we ignored moorings)

Lat: 41:29.7662 N
Lon: 071:19.7688 W
Length: 18.4 m
Width: 5.2 m
Height1:
Height2:
Outline:
Name: Target0059
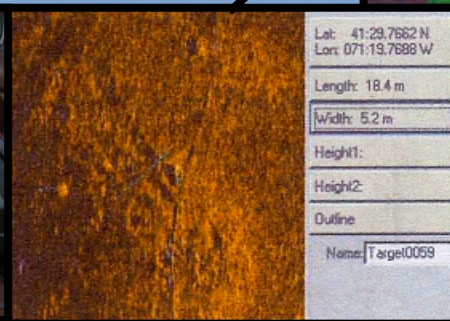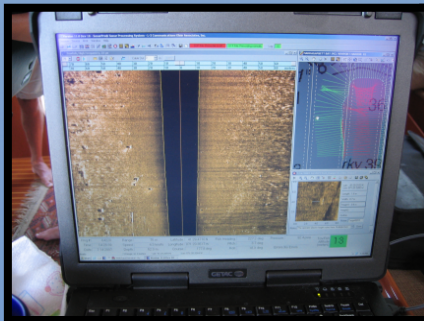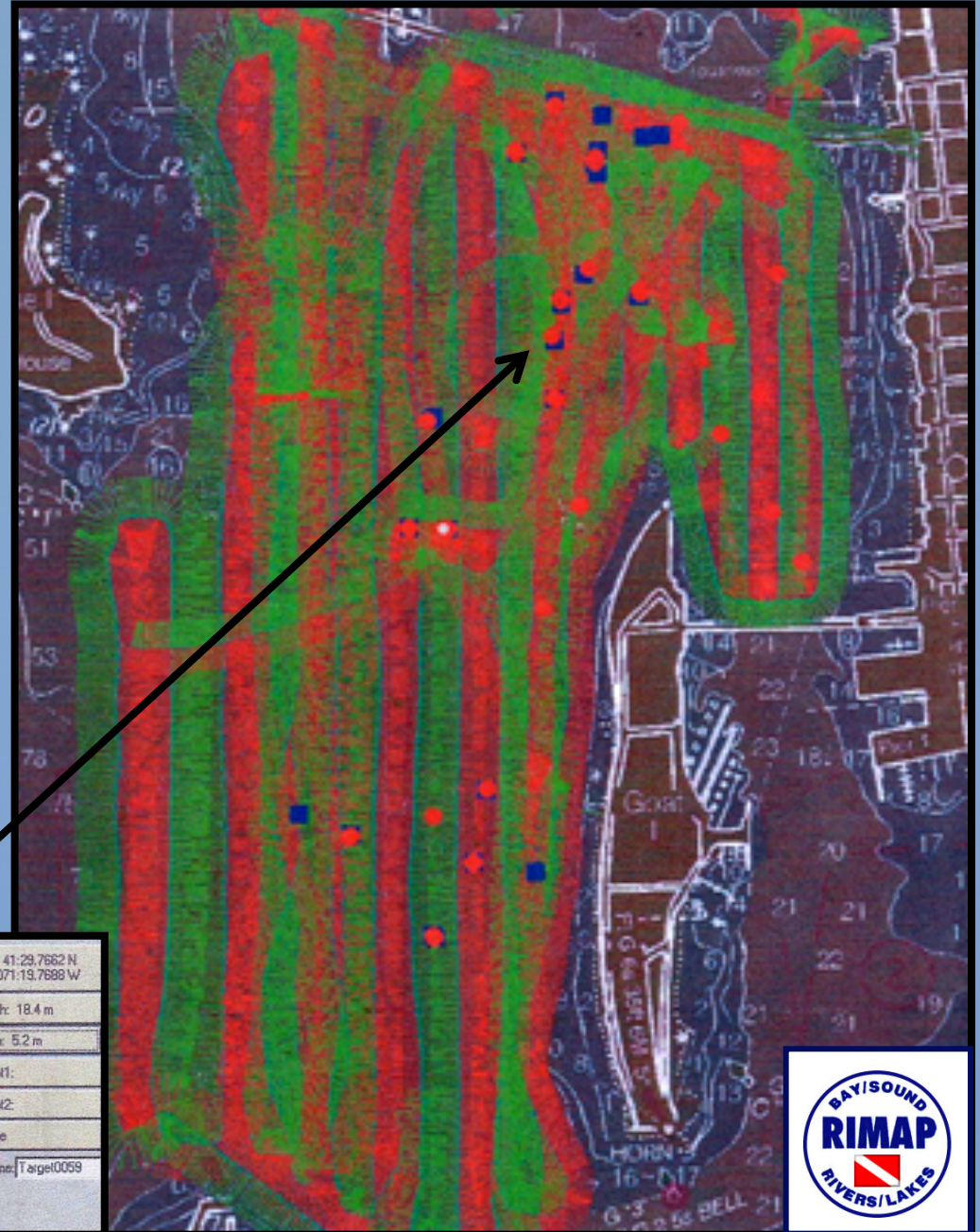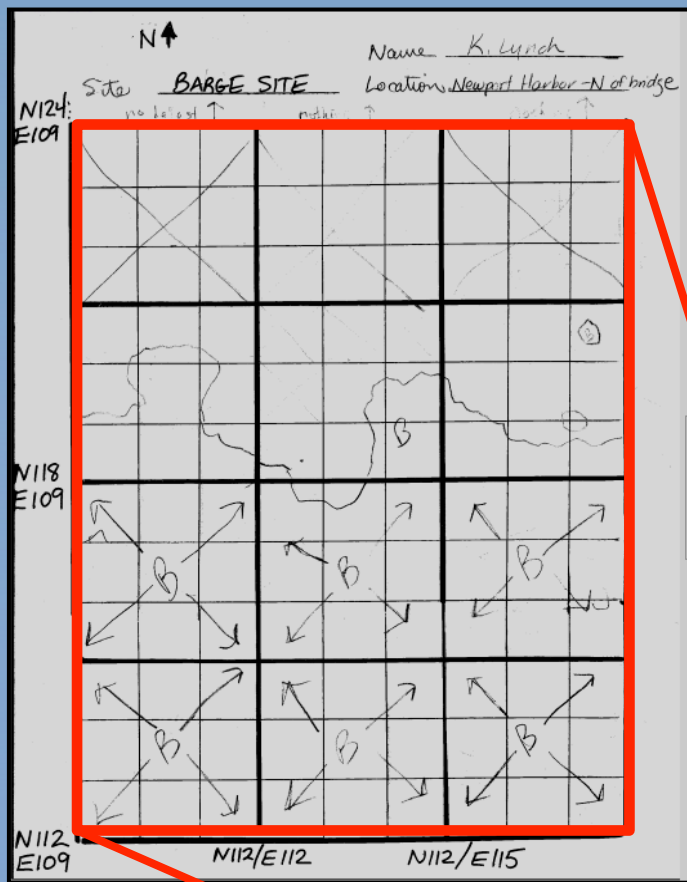
Documenting the sites:

- **Site maps - Grids, sketches, measurements**
- **Photography**
- **Metal detecting**
- **Limited test excavations**

RI 2119
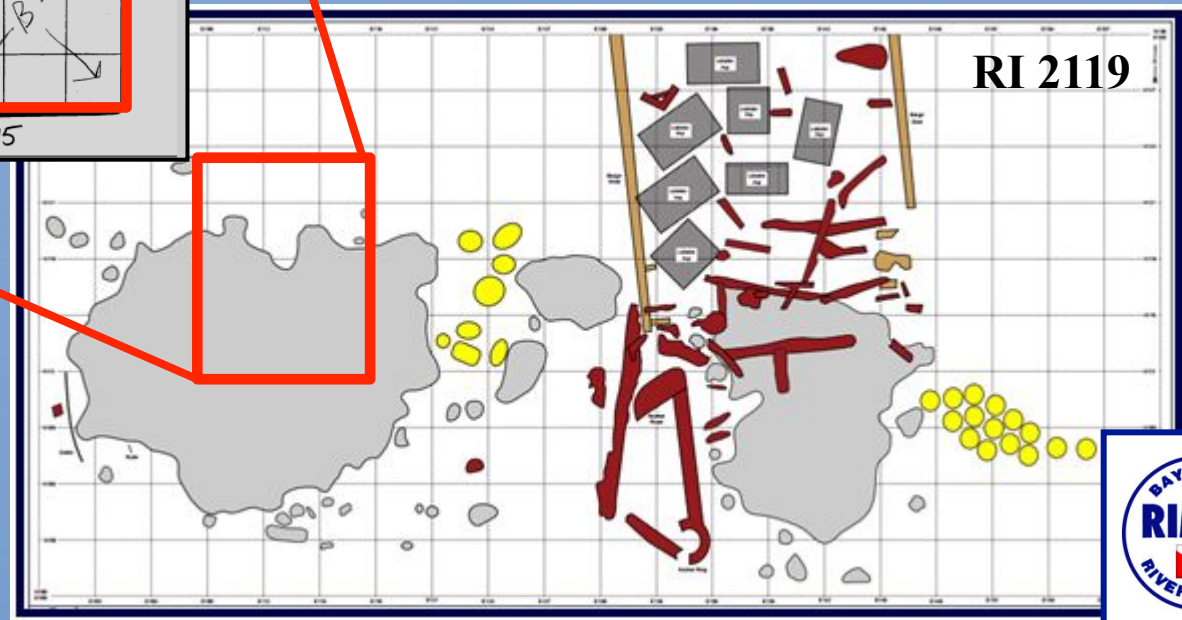
By 2015:

9 sites mapped in the Outer Harbor, 4 in Limited Study Area.

Locations are approximate on the NOAA chart, but consistent with the Fage chart.

Site maps are to the same scale to show relative sizes.

North Battery

RIMAP
BAY/SOUND
RIVERS/LAKES
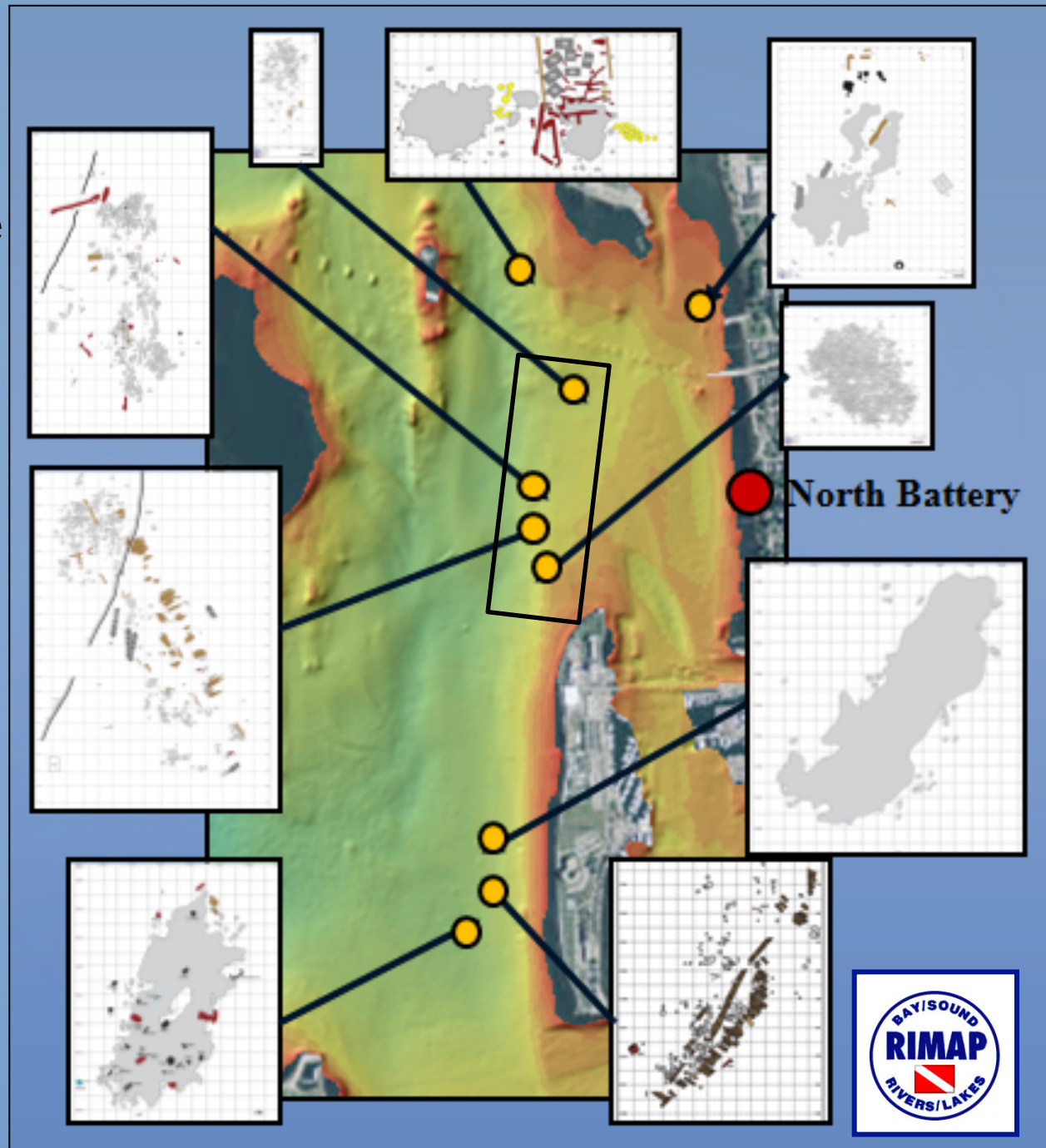
The 2016 and 2017 fieldwork in the Limited Study Area

Known sites ⬭

Search results: Void

Mapped a badly disturbed area
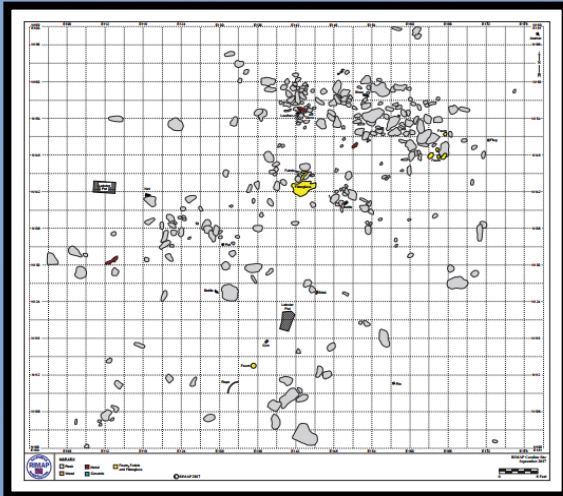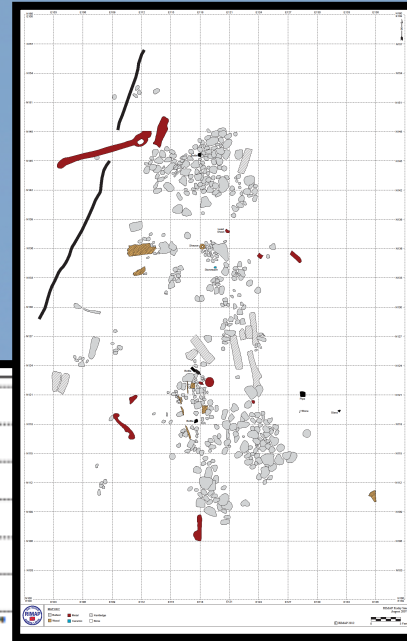
Possibly other sites completely destroyed?
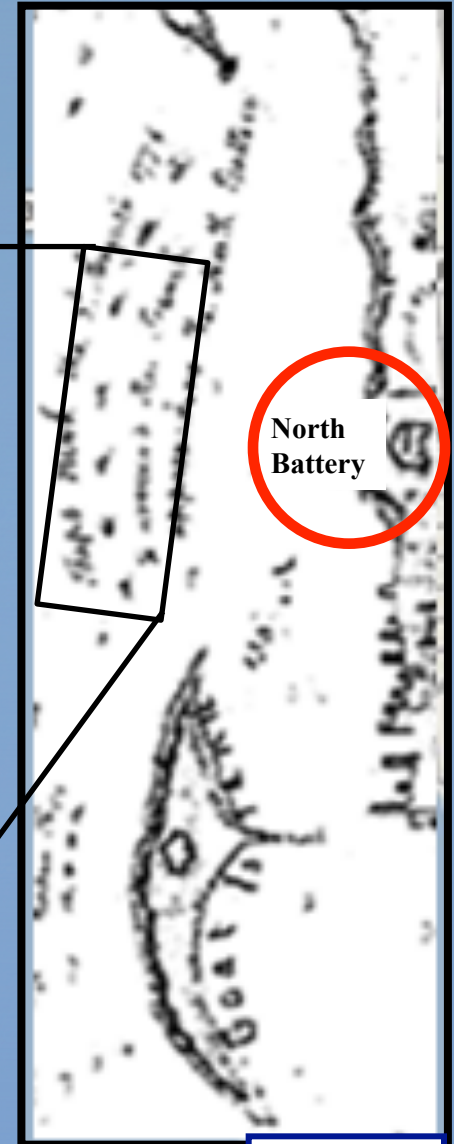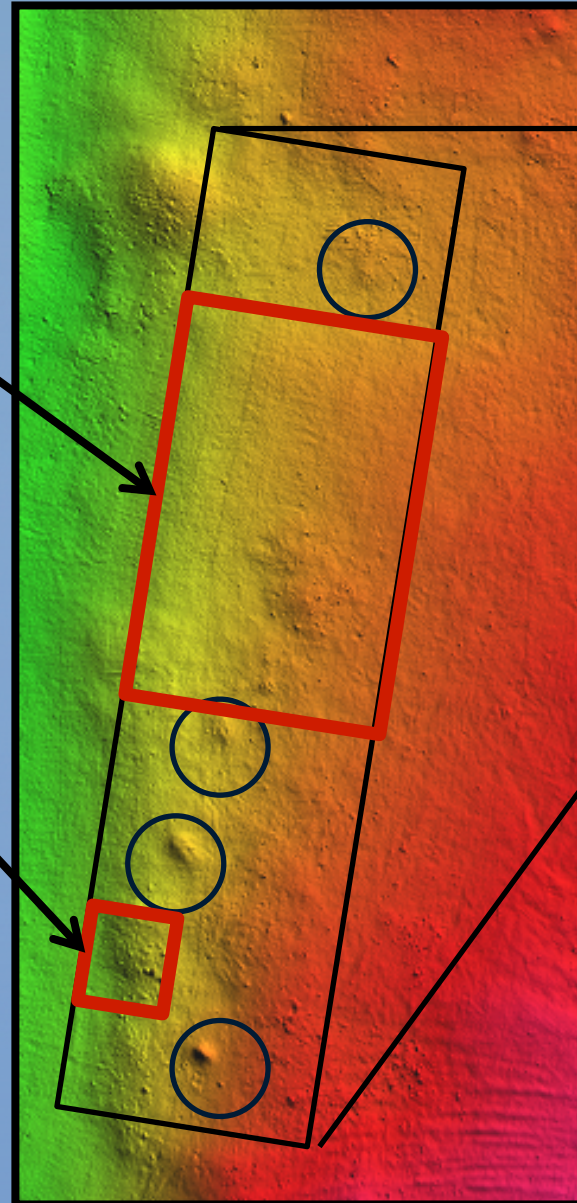
North Battery

The five possibilities:
Could one be the
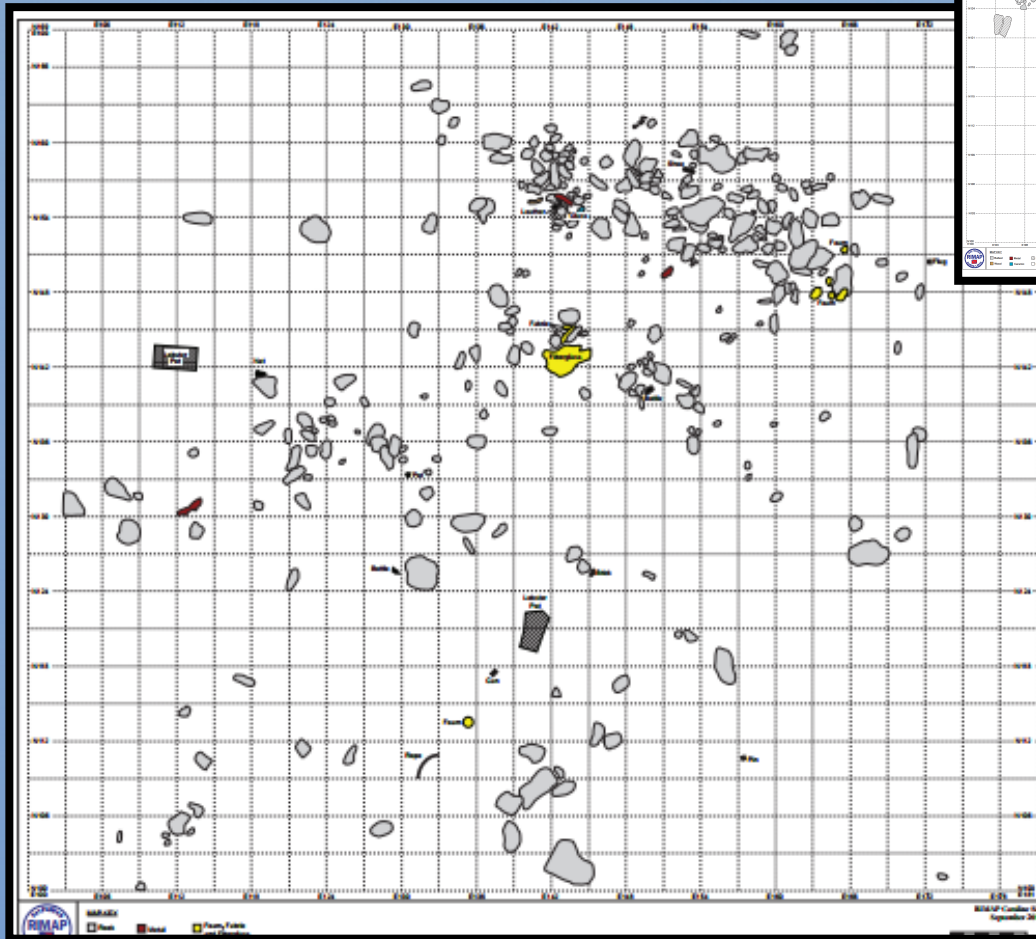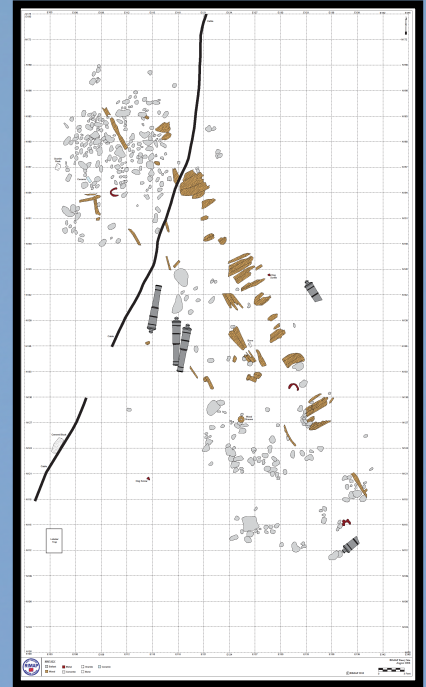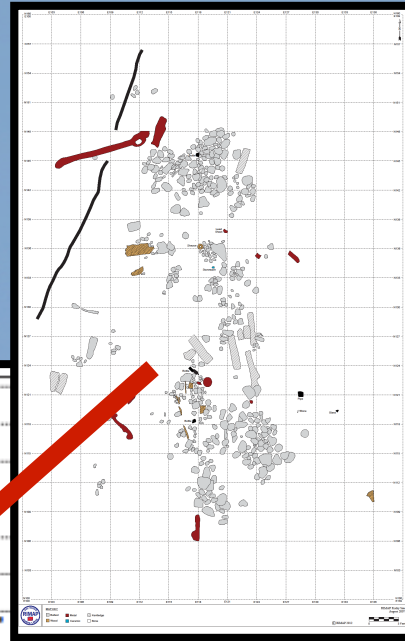## *Lord Sandwich*
Ex *Endeavour?*
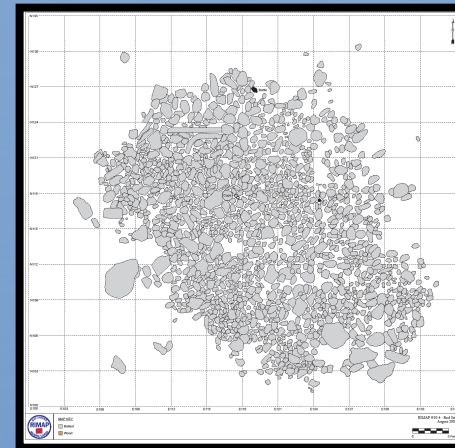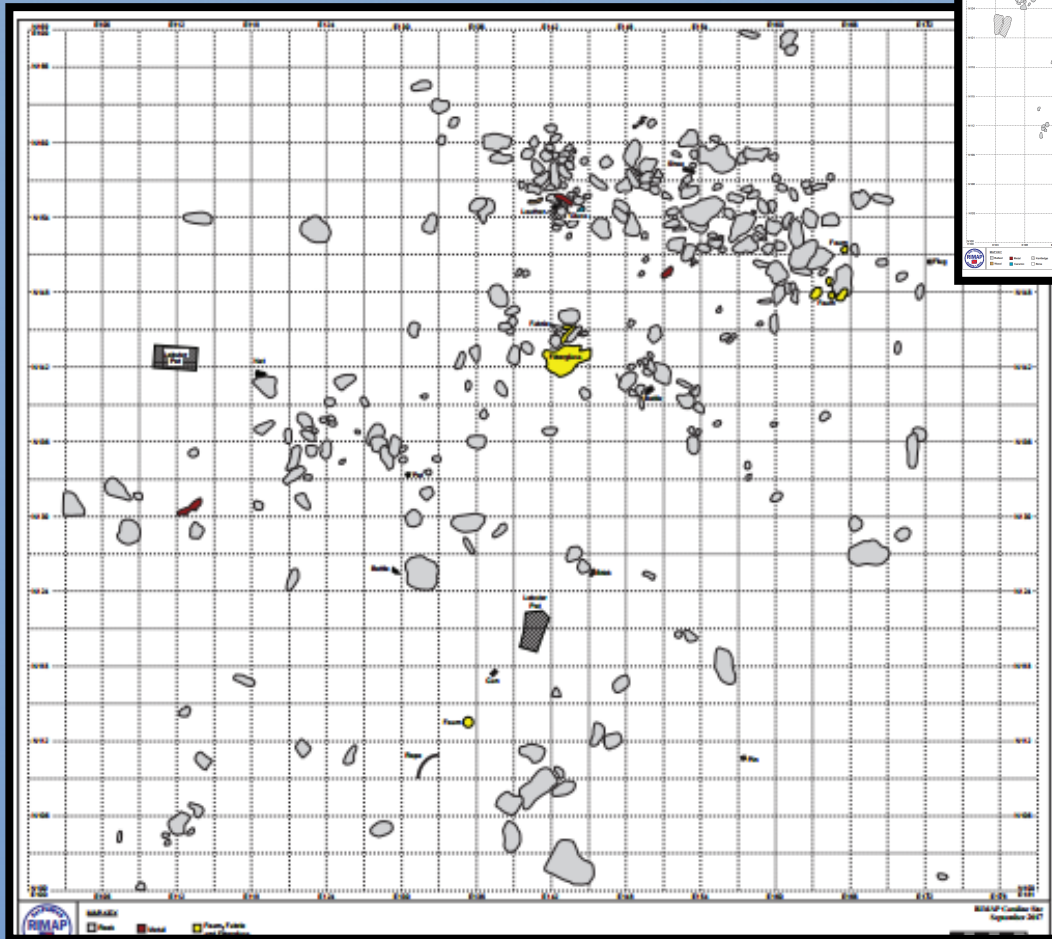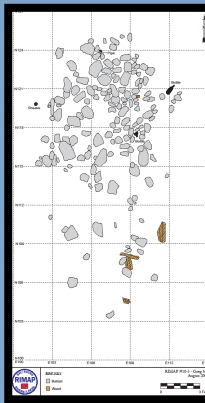
Looking for the largest:
RI 2396 appears to be too small.
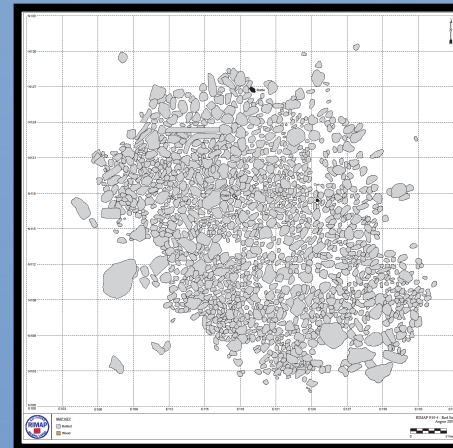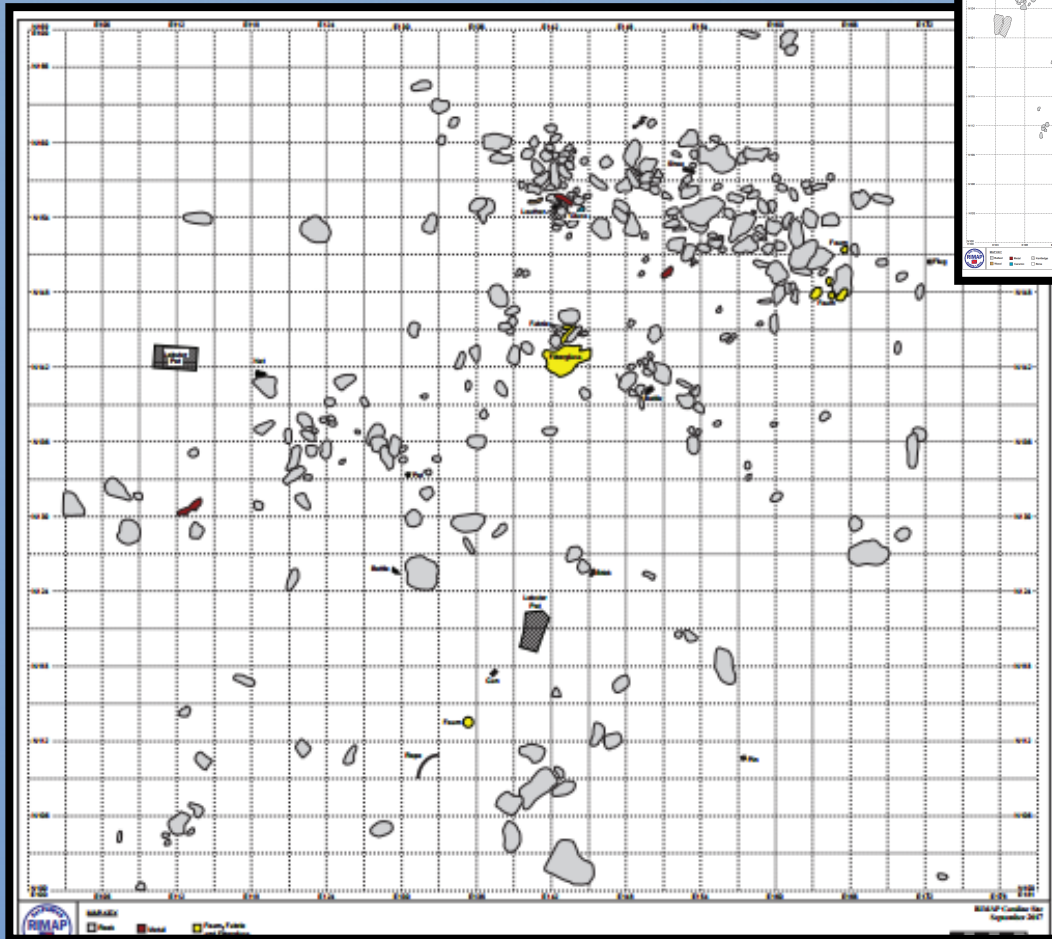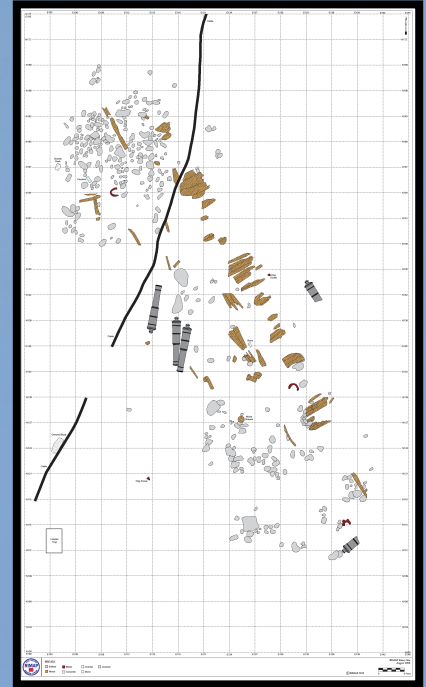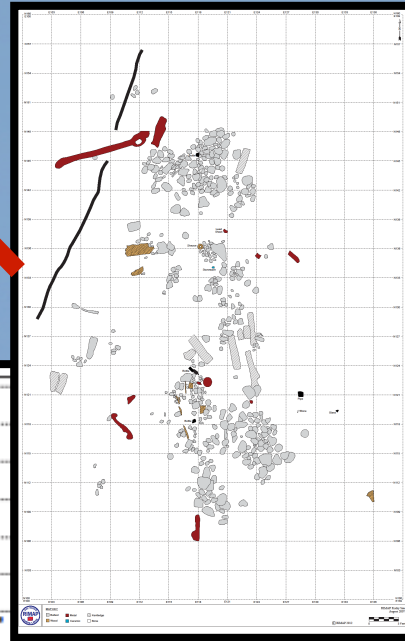
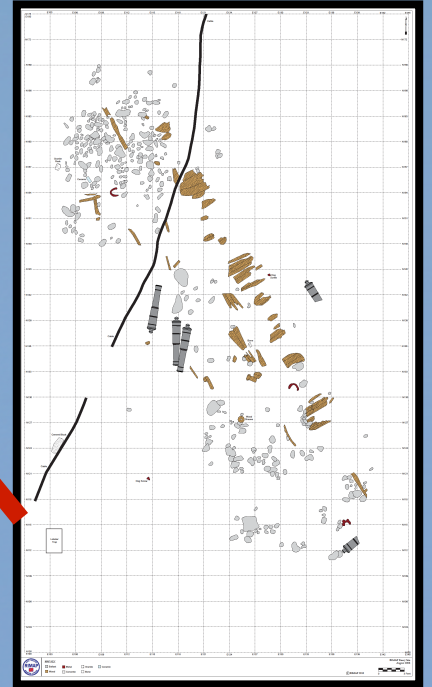RI 2393 too small with few cultural materials.
Possibly just a ballast dump.
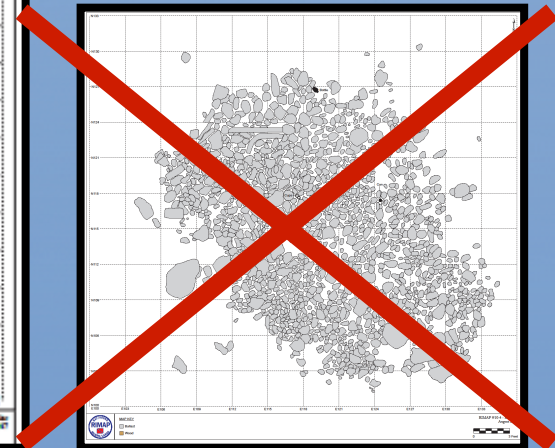
RI 2794 is mostly geology with few scattered historic artifacts. Possibly a badly disturbed site.
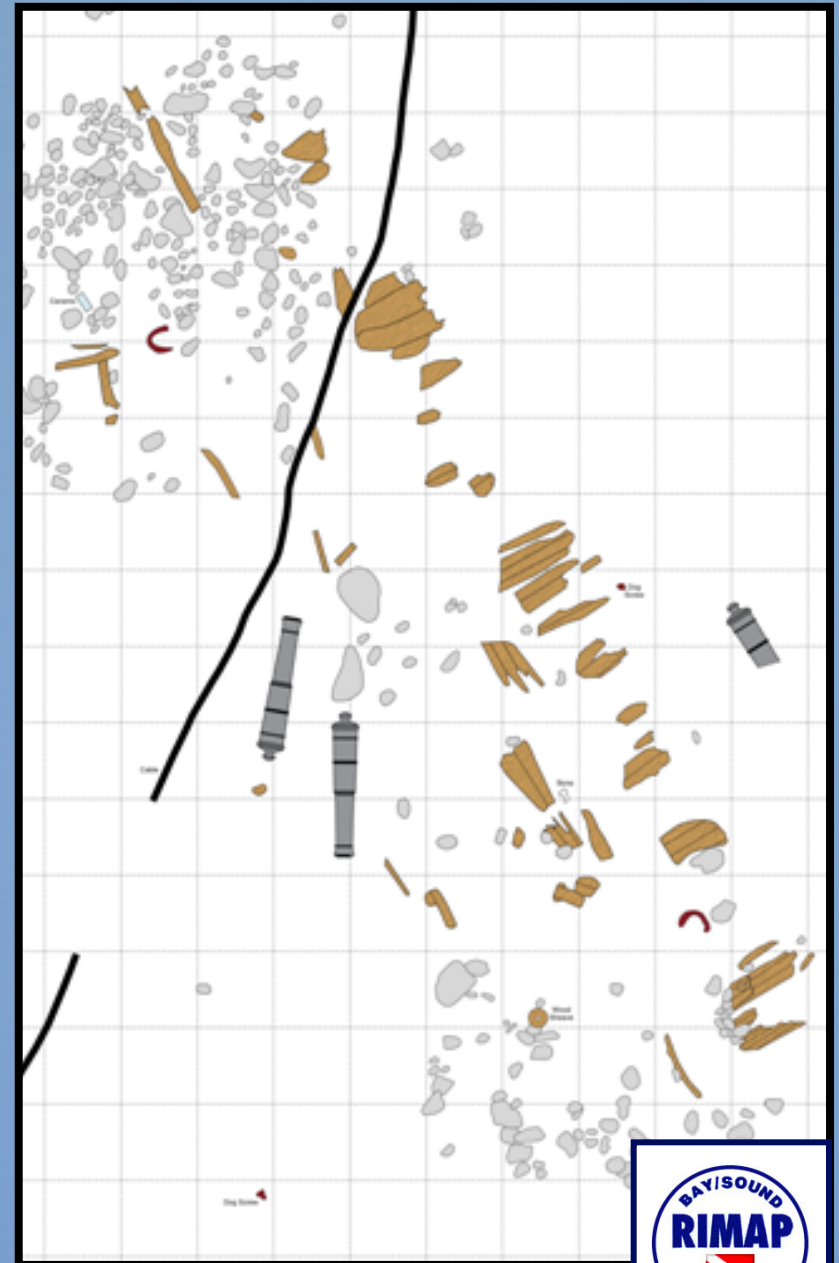
Two left to consider:

RI 2578 appears to be smaller, but has appropriate cultural material.

RI 2394 is the best candidate by the process of elimination.

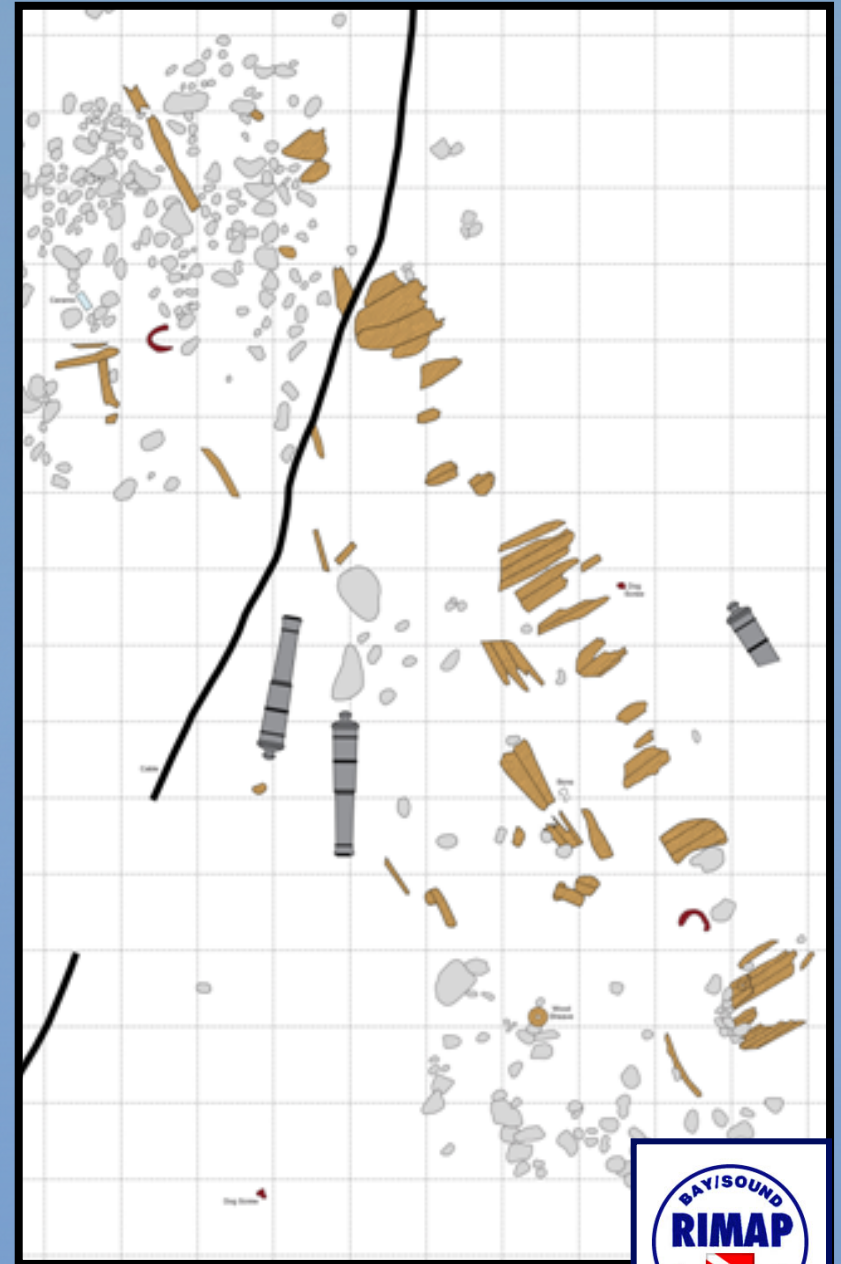**Then start detailed studies:**

- **Measure cannons**
- **Measure timbers**
- **Sample timbers**
- **Photogrammetry**
- **Further historical research**

Could this be the *Endeavour?*

To prove it:

- Selected excavation.
- Continued measuring, sampling and photography.
- Artifact analysis.
- With a conservation and storage facility in place!

Is It The *Endeavour* Bark?

"Photogrammetry of Details"
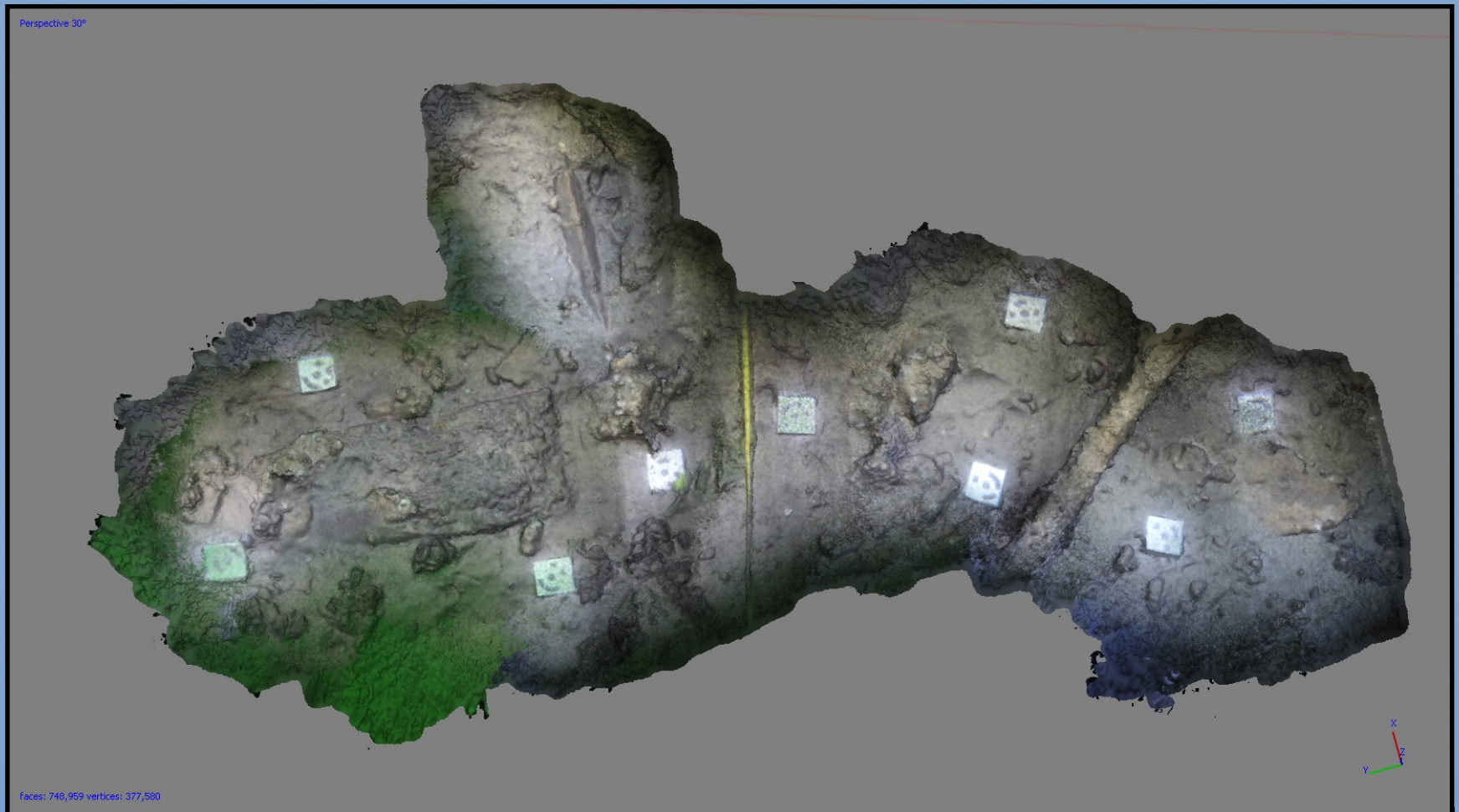## James Hunter, Ph.D.
ANMM - Archaeologist

Limited visibility:
A challenge for photography
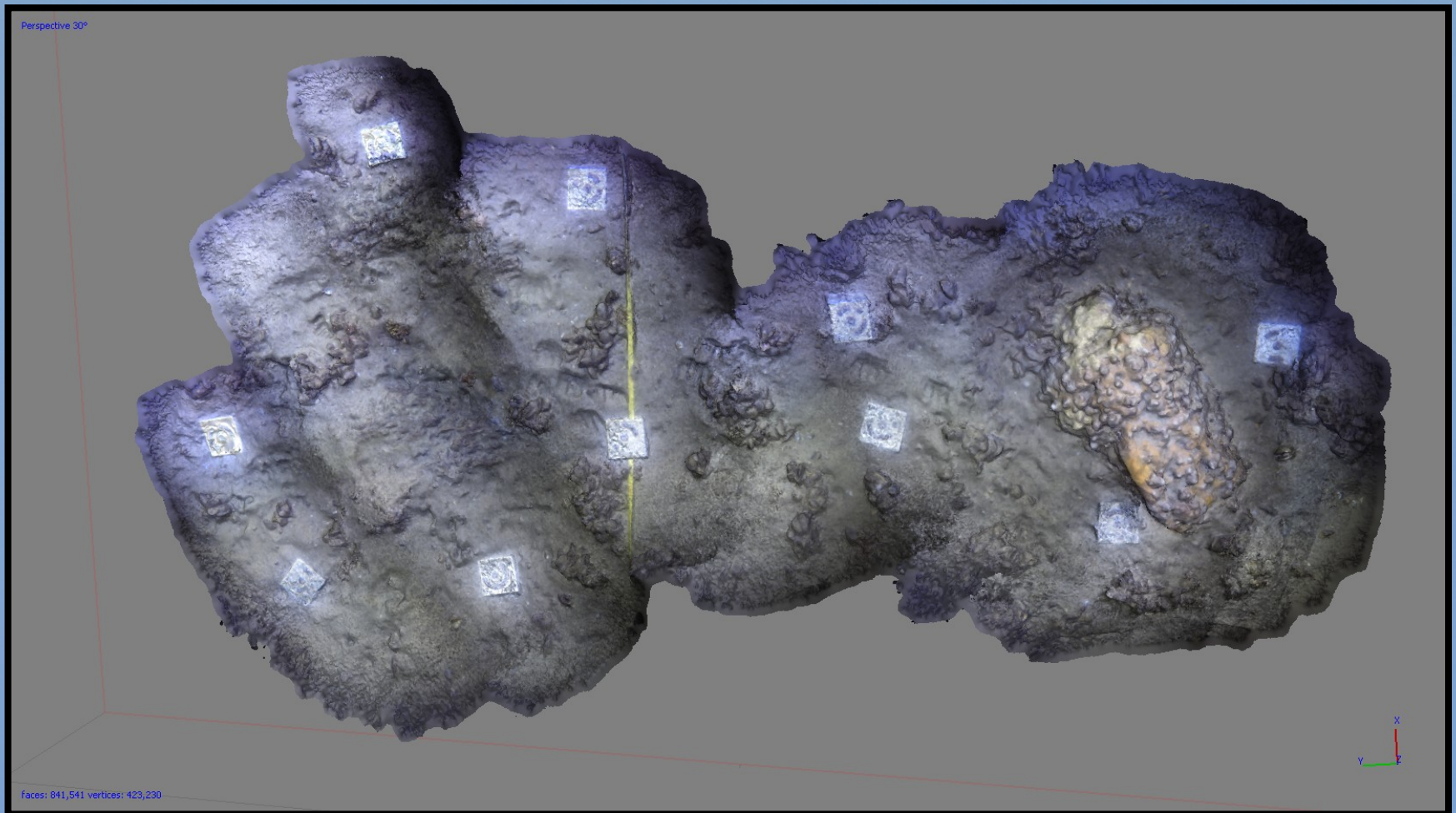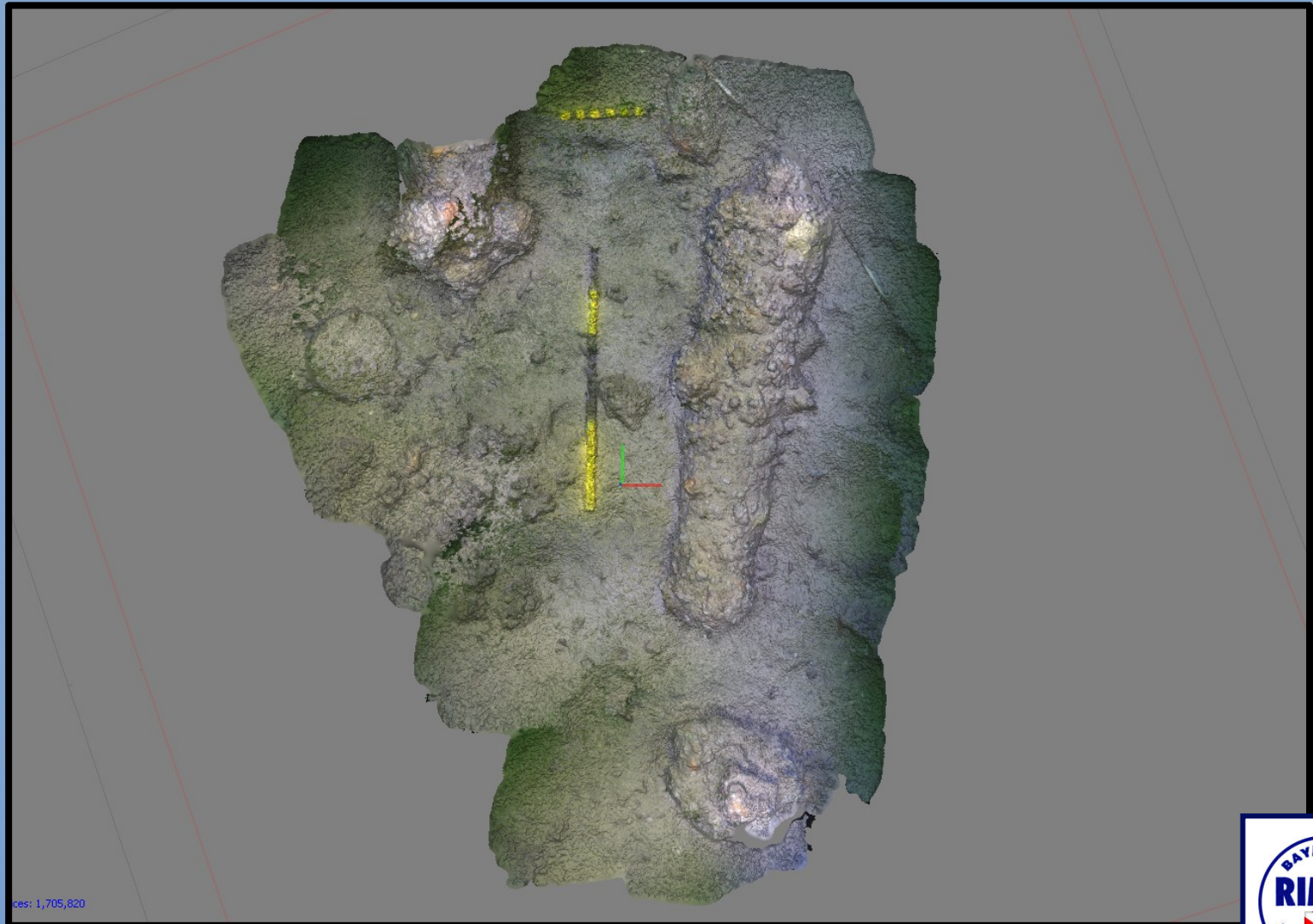
Photographer: Irini Malliaros
Modeller: James Hunter

Collapsed futtock and hull plank

faces: 748,959 vertices: 377,580
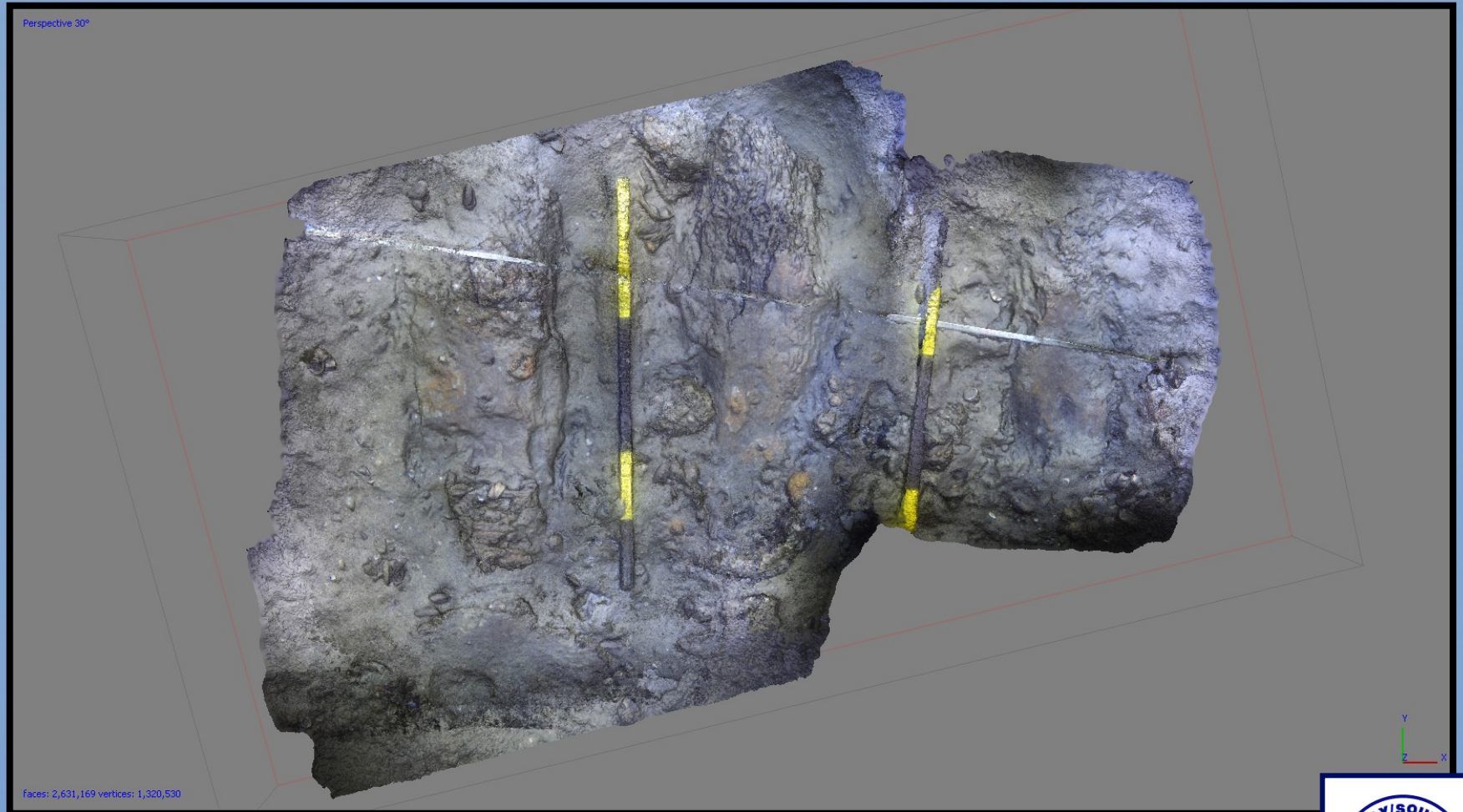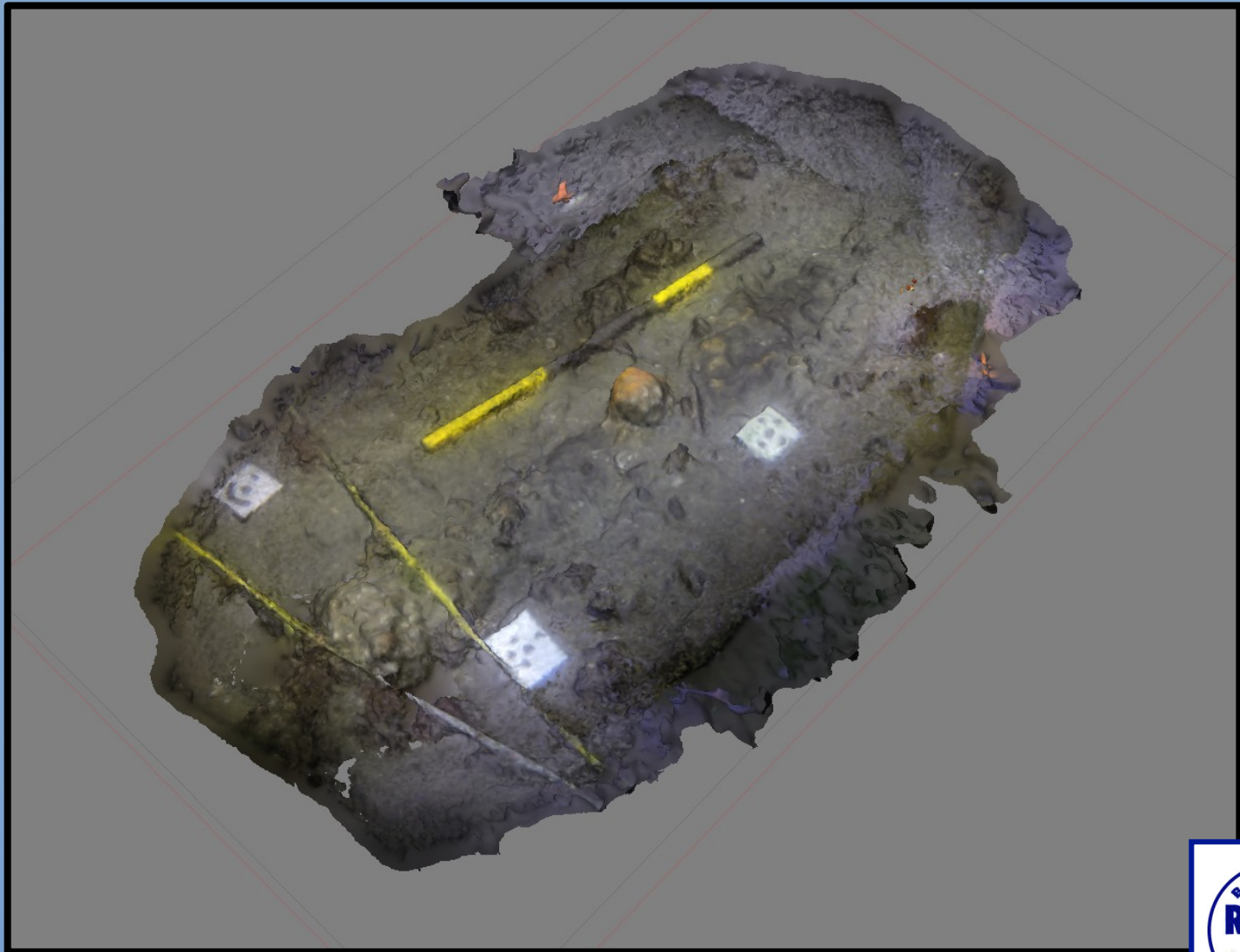
East Cannon Breech

Exposed west cannon

ces: 1,705,820

Midship Frames

South Cannon Muzzle

Put it all together for the first digital photogrammetric images of the possible *Endeavour*!

Please help us prove it!