

MAHS Survey and Field School 2014

Pickles Reef

Florida Keys National Marine Sanctuary

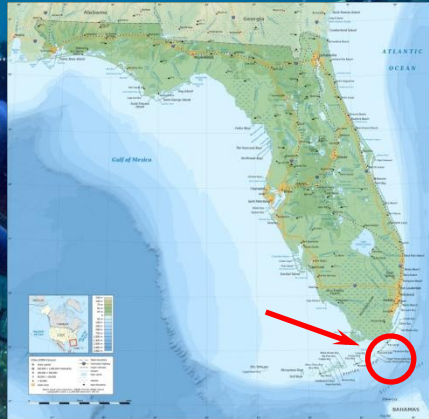




MAHS returned to Pickles Reef in June of 2014 to continue research and training.



Pickles Reef lies off Key Largo in the Florida Keys National Marine Sanctuary.





This season we continued work documenting wreckage of an iron-hulled vessel located on the reef.

As always, the field school part of the project began with a dry-land walk through of trilateration mapping.





Next, it was down to the dive boat to gear up.

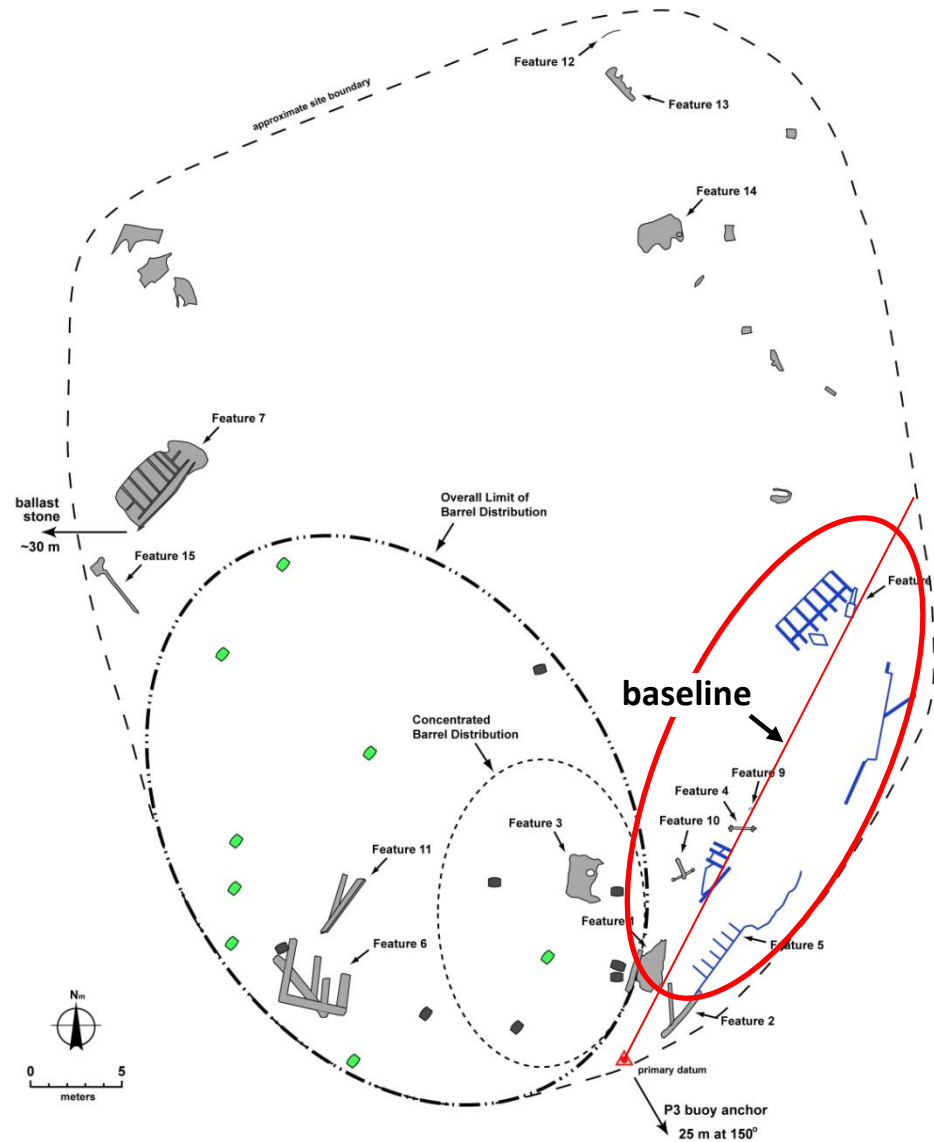




**And finally it was time to get
in the water and get to work.**



With calm sea conditions again this year we were able to get a lot accomplished.



The field school continued mapping features along the keelson of the wreck, parallel to the baseline.

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Pickles Reef Survey
Site Map

- barrels 2010
- barrels 2011
- features trilaterated in 2013



The main mapping technique used in training was baseline trilateration.



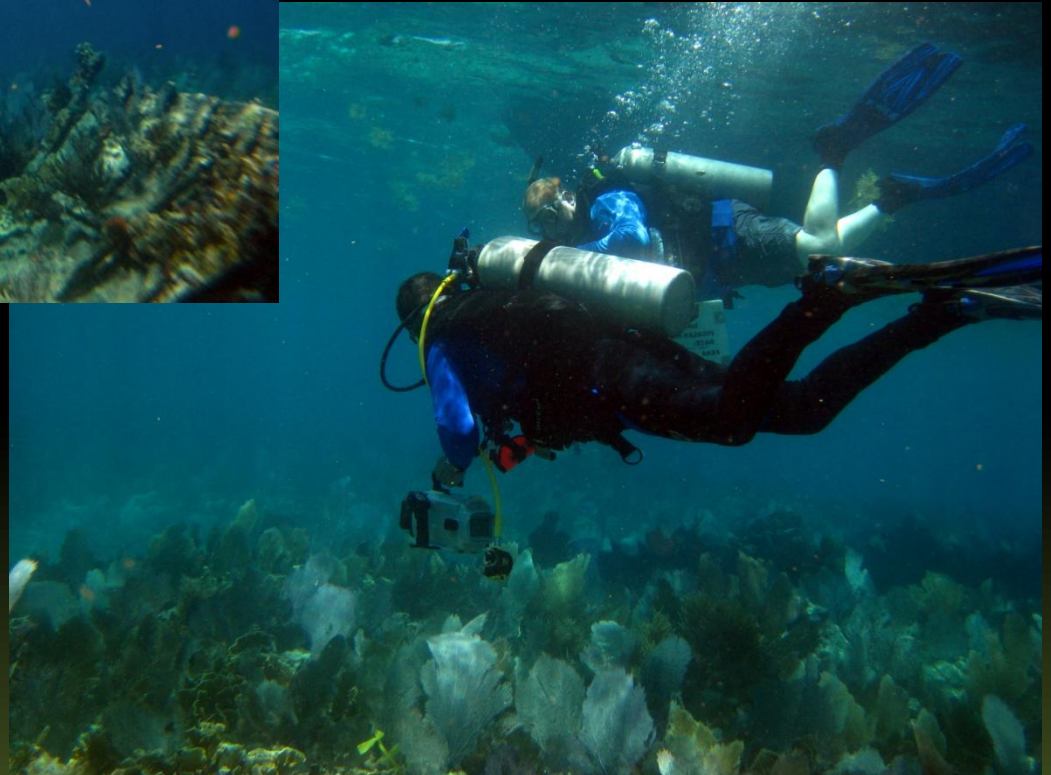
The calm seas provided excellent conditions for obtaining accurate measurements.

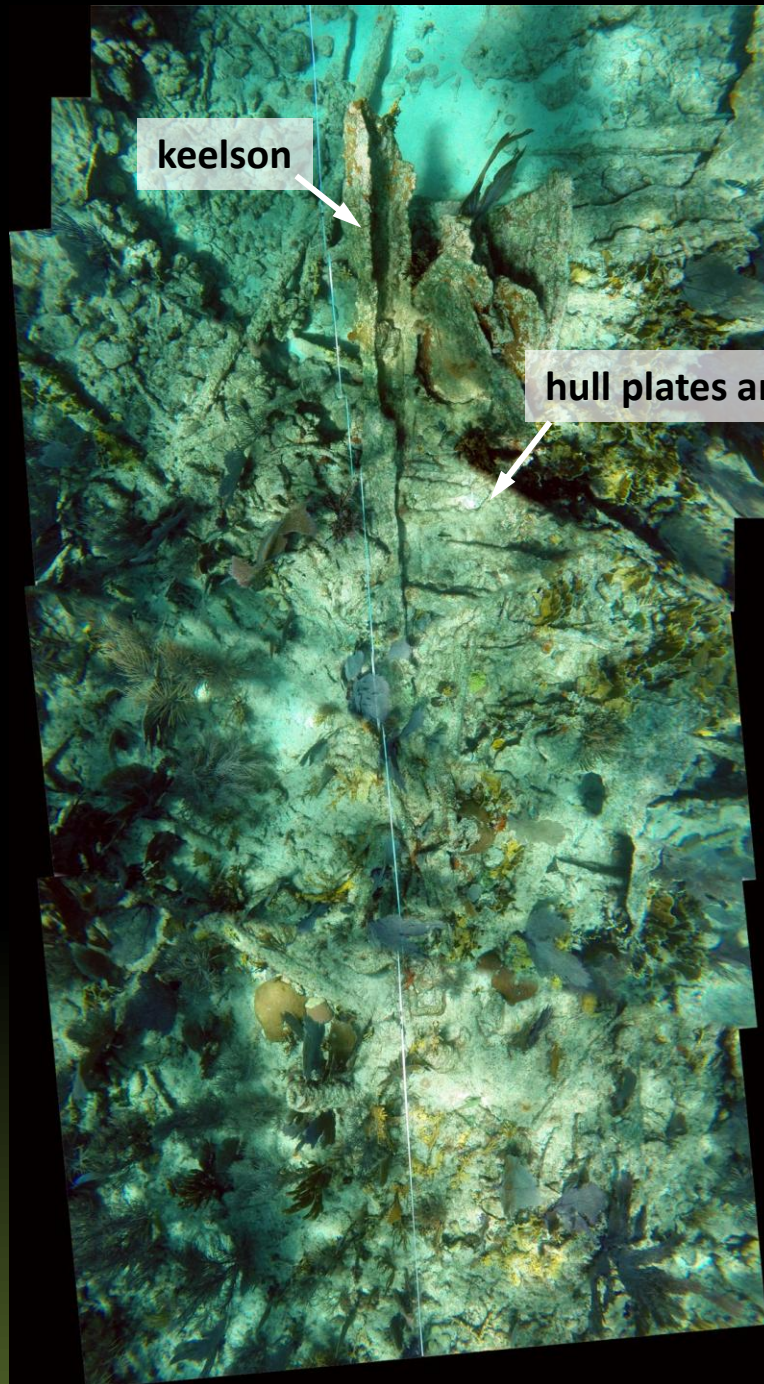




We also conducted extensive video documentation of the site.

Two cameras were used to provide varying perspectives.



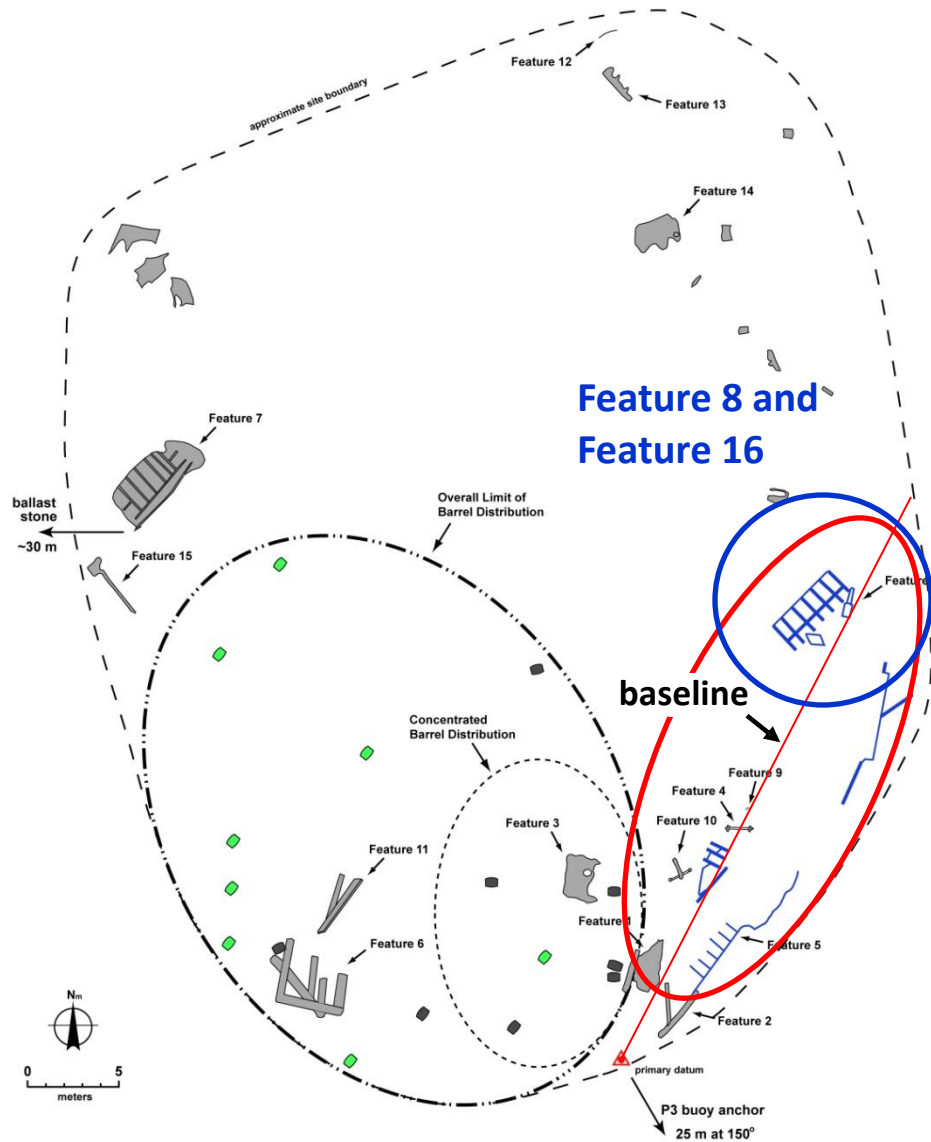


keelson

hull plates and framing

Here is a preliminary photo-mosaic of features at one end of the keelson.

The image was constructed from frames captured from the video.



Feature 8 and Feature 16

At the north end of the baseline we recorded details of two important features:

a mast step (Feature 8), and a large section of framing and hull plates (Feature 16).

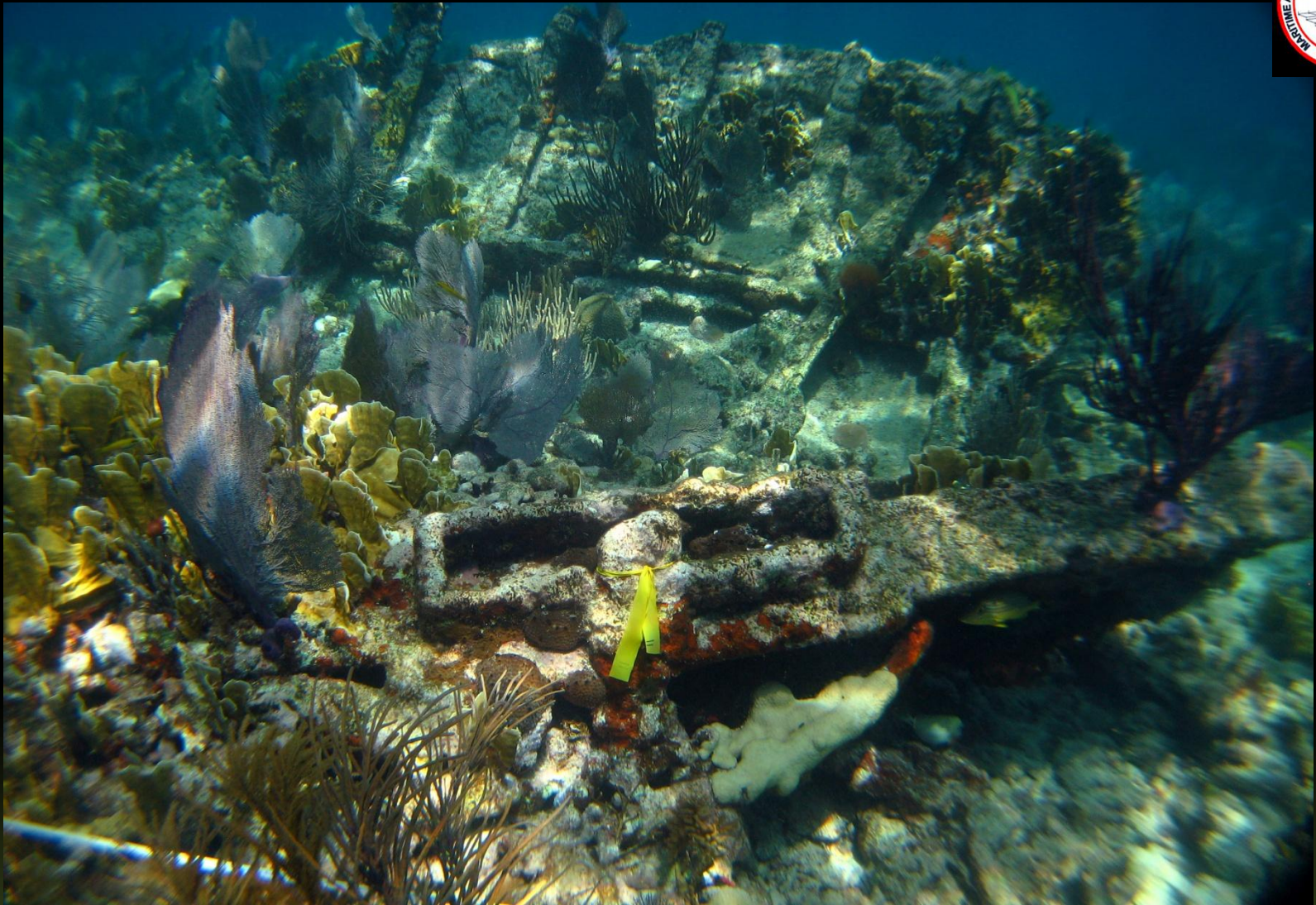
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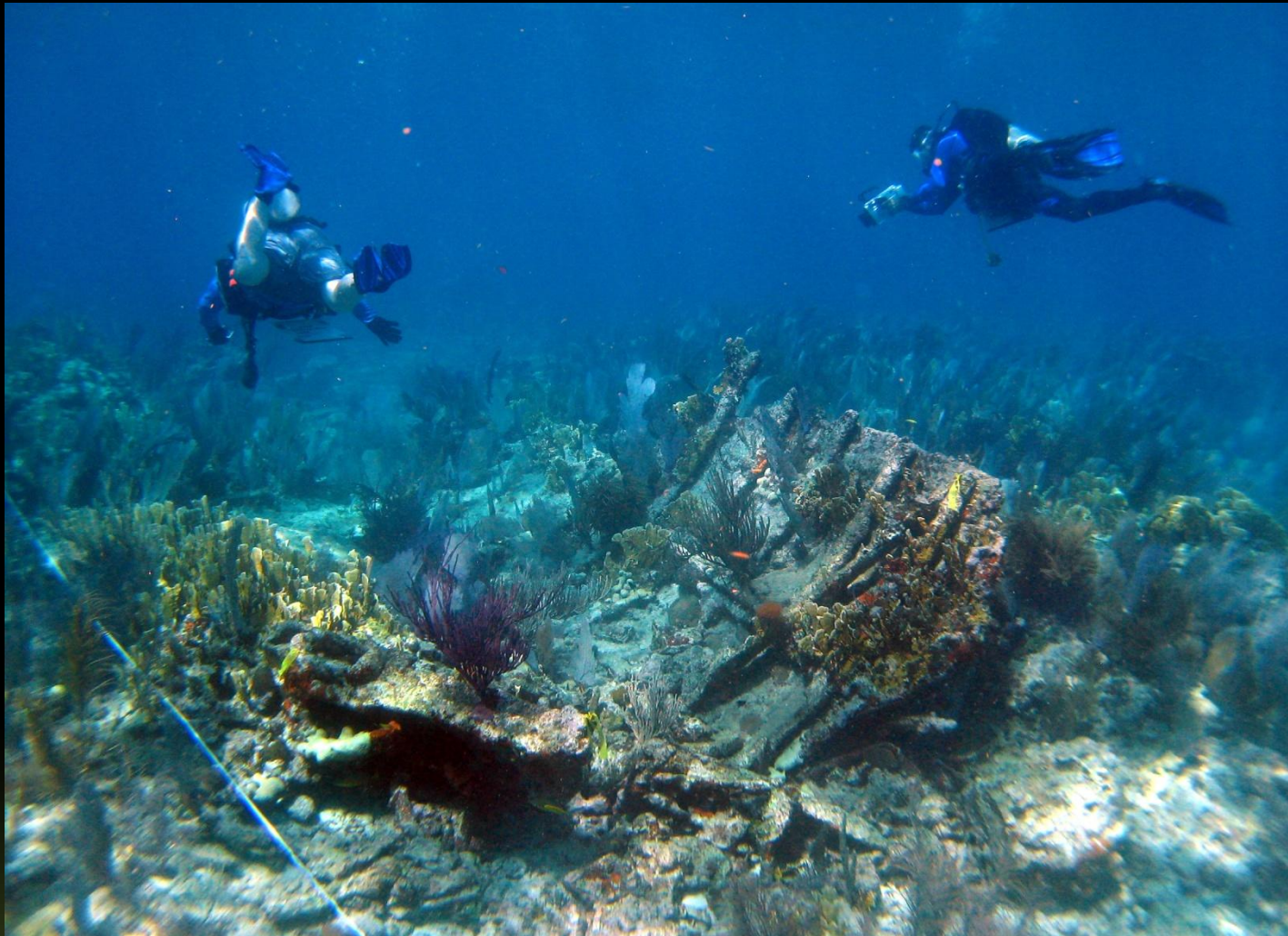
Profile view of Feature 8 (mast step, left) and Feature 16 (hull section, right).



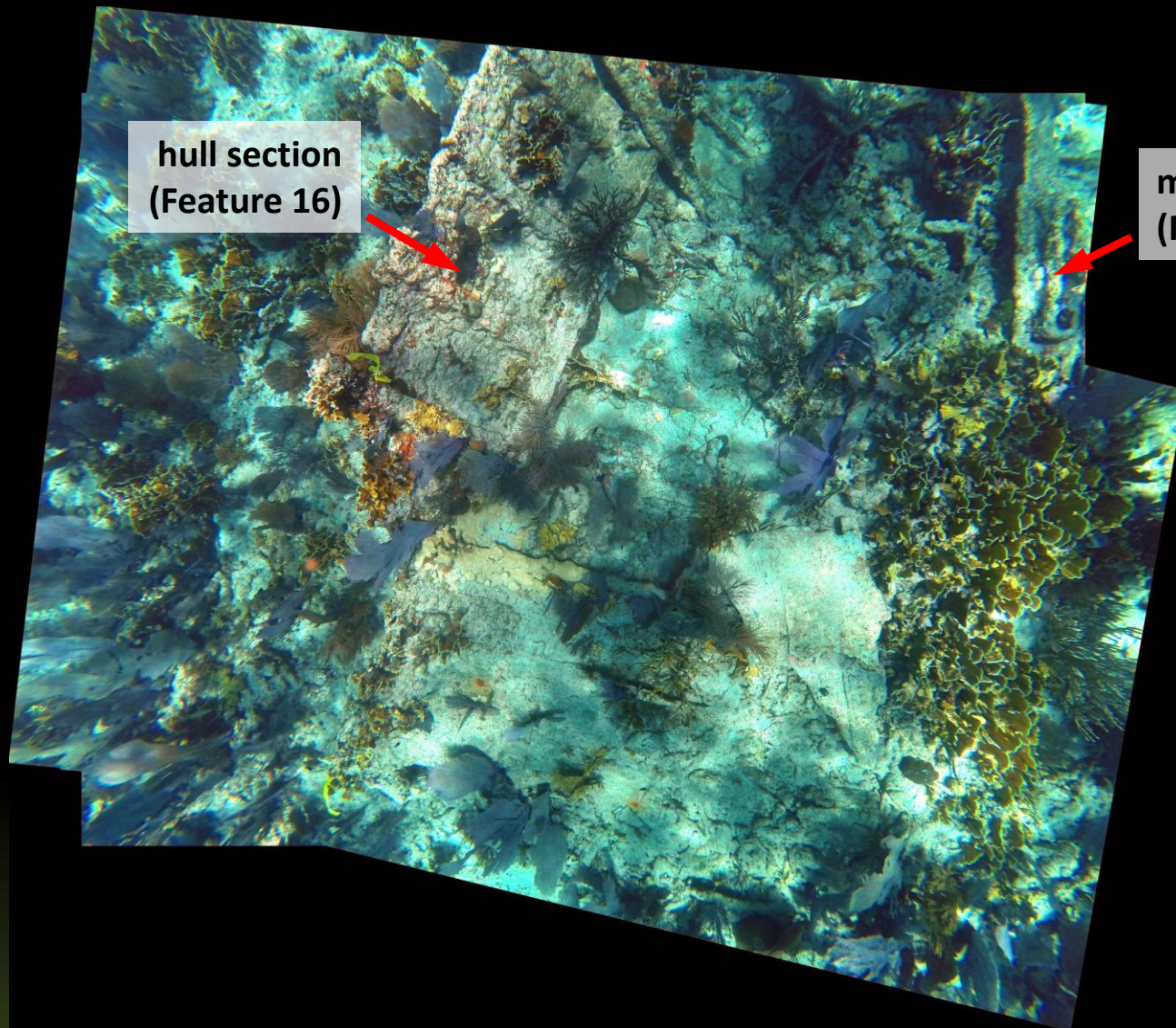
Mast step (foreground), hull section (background).



Detailed drawing of Feature 8 (mast step).



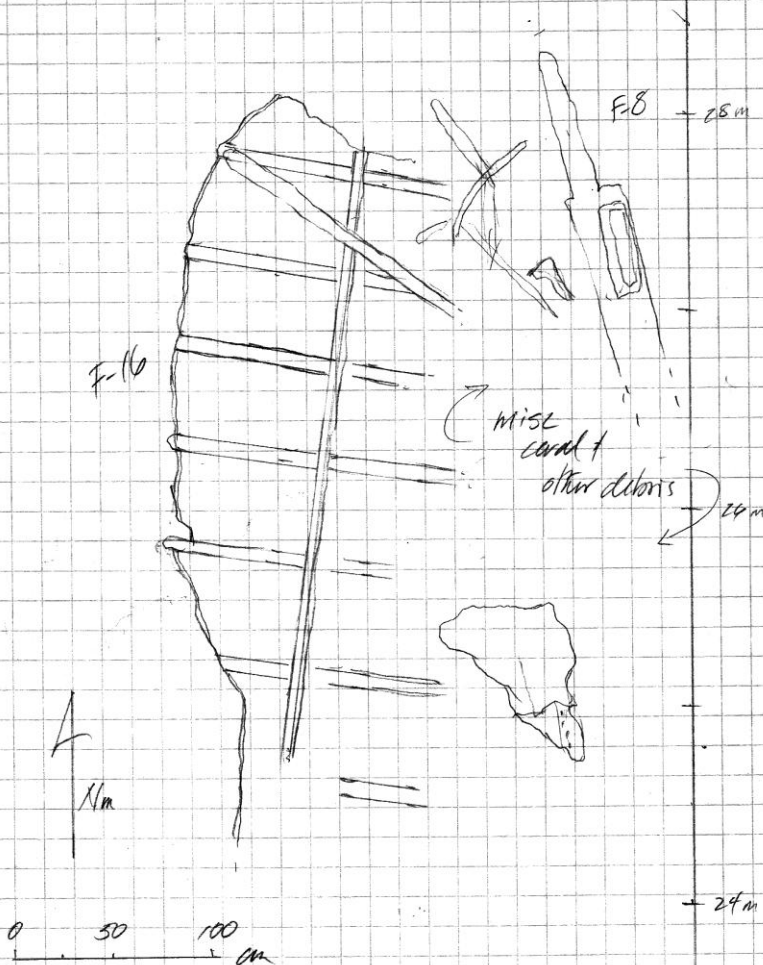
Video documentation of the mast step and hull section.



Preliminary photo-mosaic of mast step (right) and hull section (left).
The image was constructed from frames captured from video.

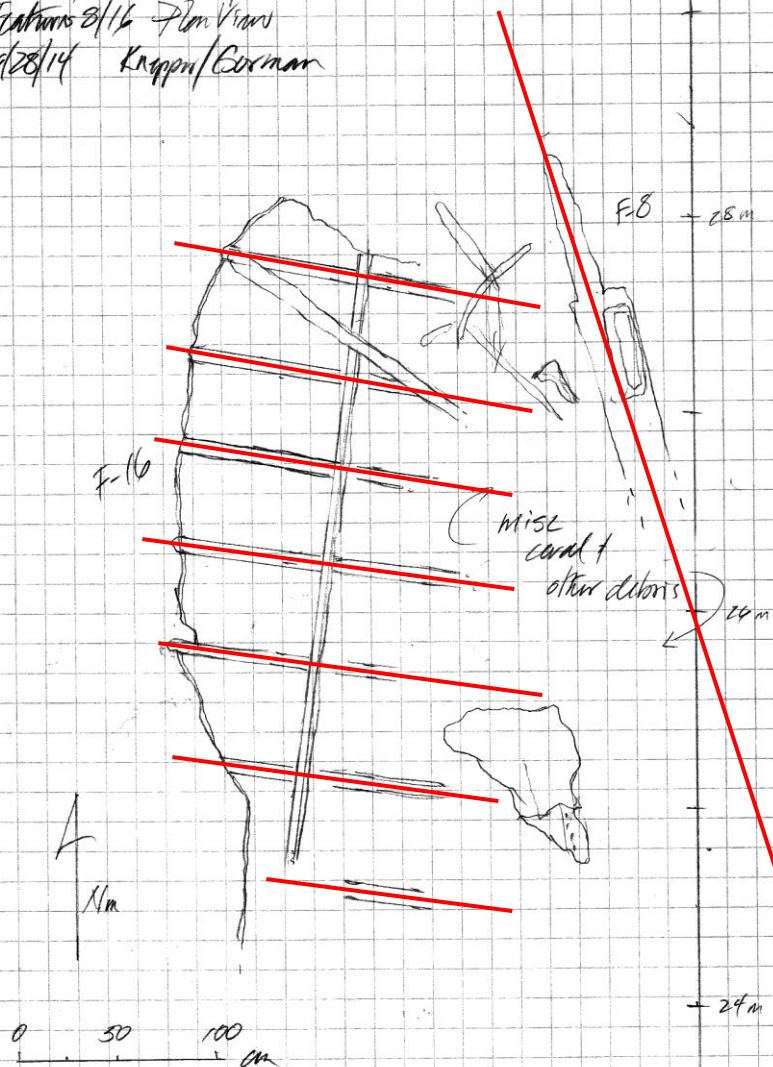


MAAS/Pidley Reef
Features 8/16 Plan View
4/28/14 Krupen/Gorman

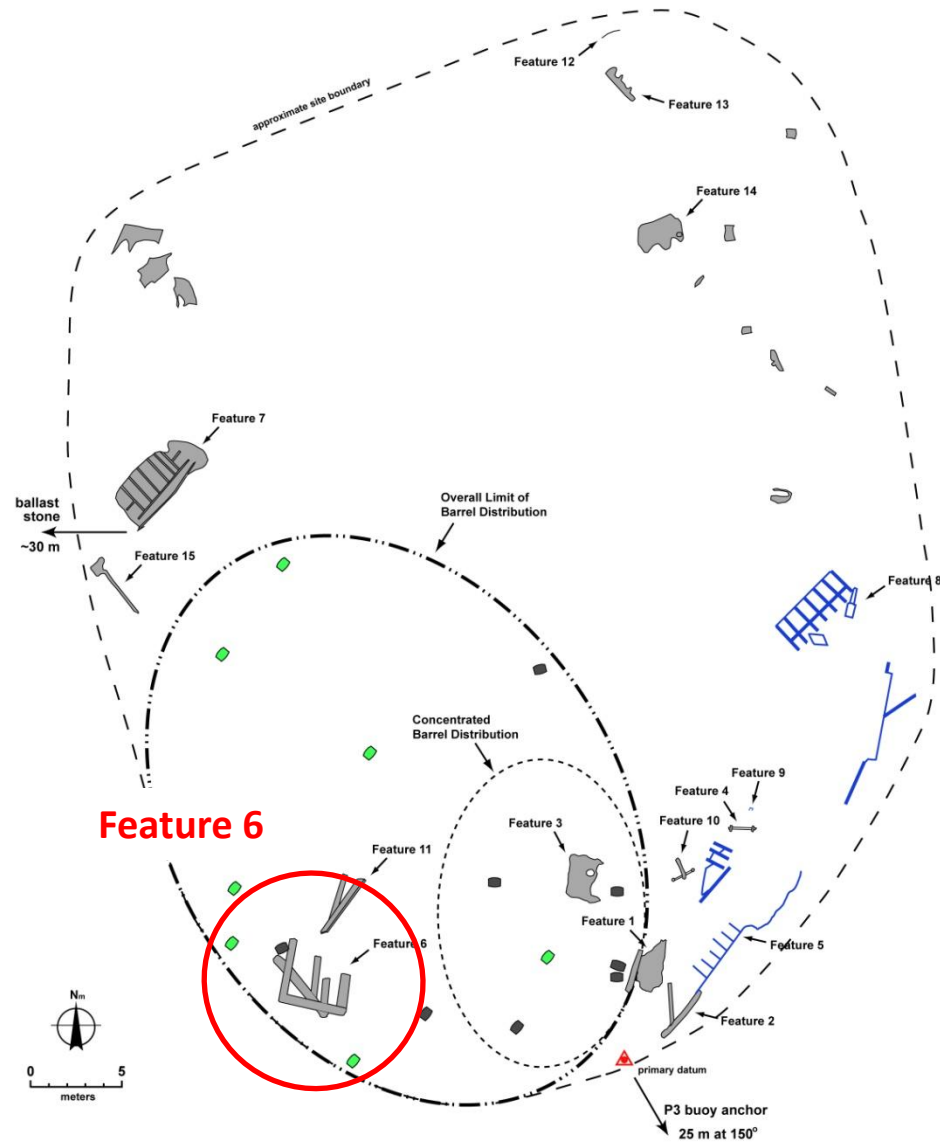


Here is a plan view or overhead drawing of Feature 8 and Feature 16 developed from photo-mosaic and on-site measurements.

MAAS/Pidells Reef
Features 8/16 Plan View
4/28/14 Krapp/Gorman



The alignment of keelson and frames is highlighted in red to indicate the apparent lack of articulation – that is, the hull section may not be connected to the keel any longer in this location.

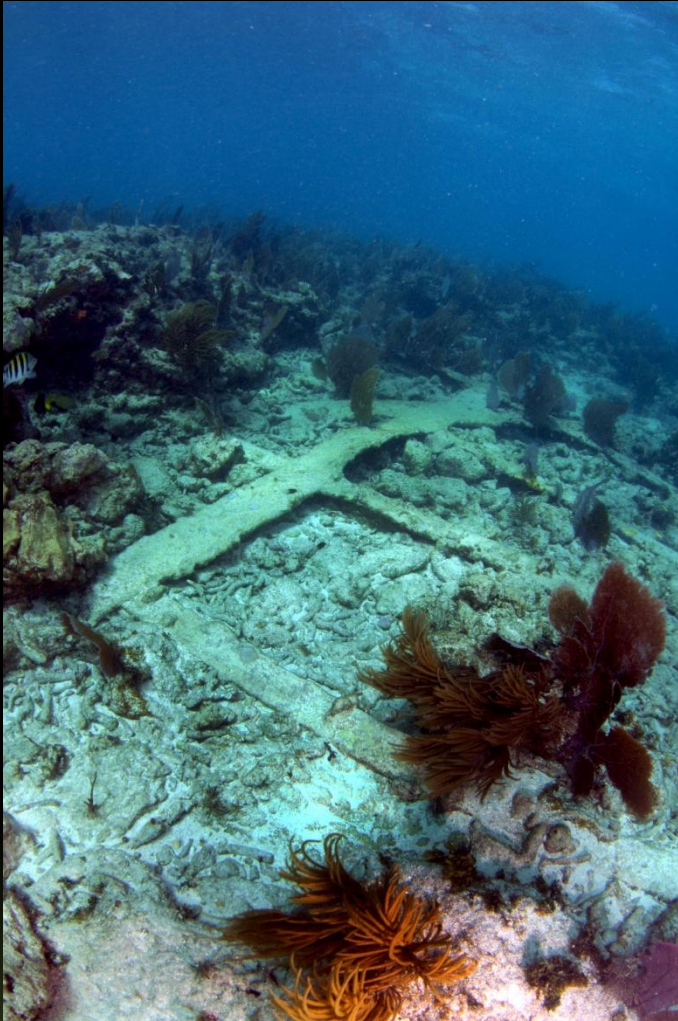


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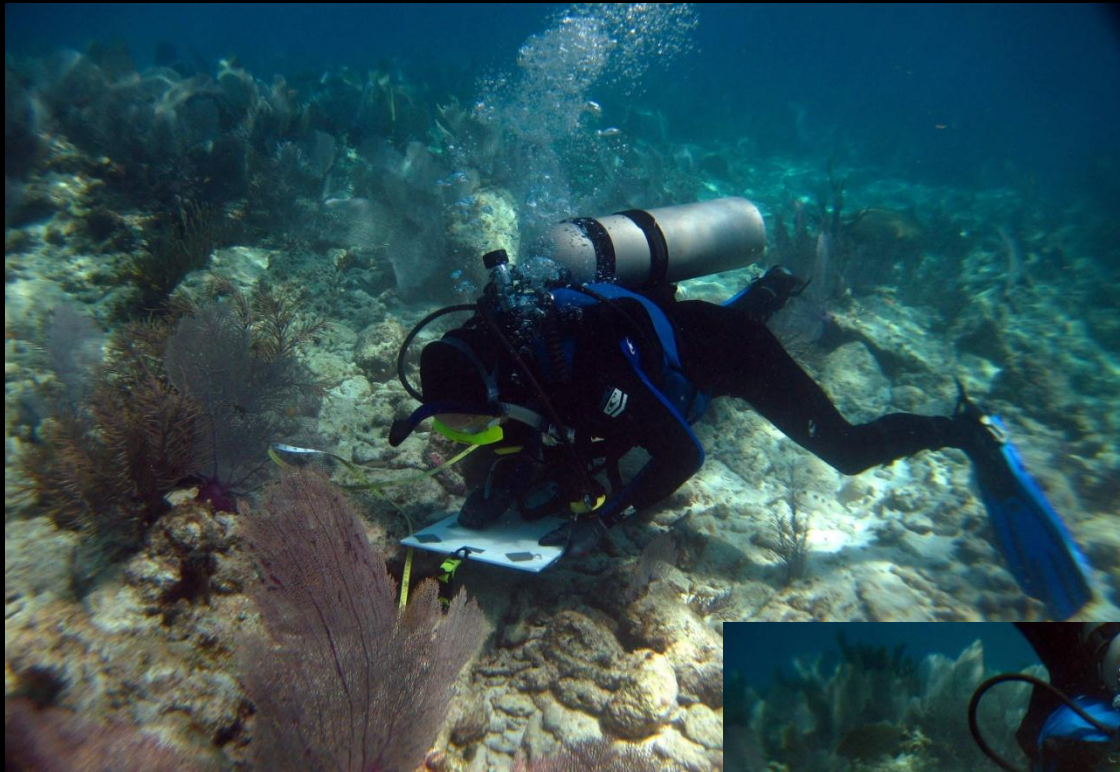
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We also continued documentation of Feature 6, a lattice-like structure that may have been deck framing.

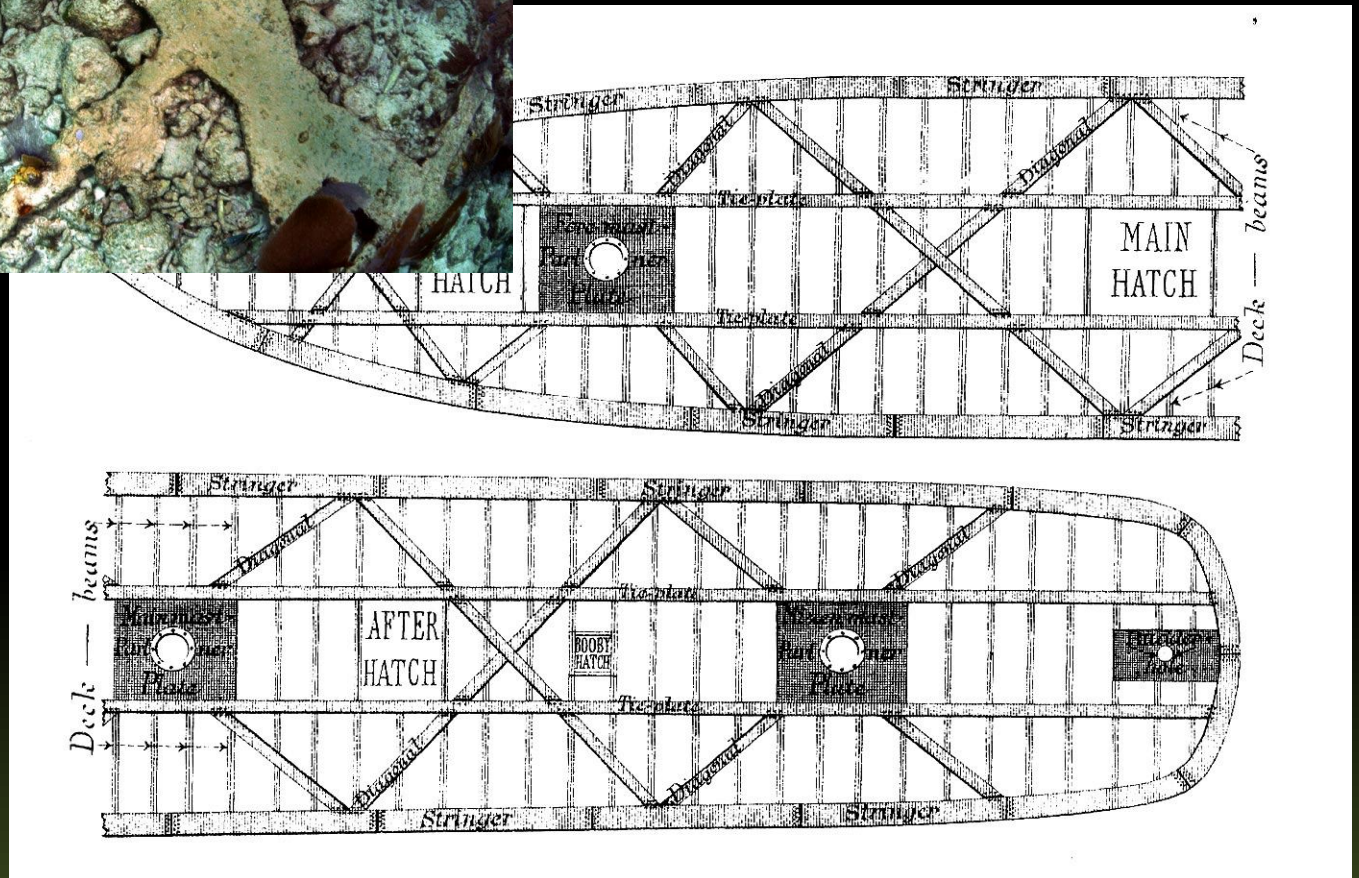
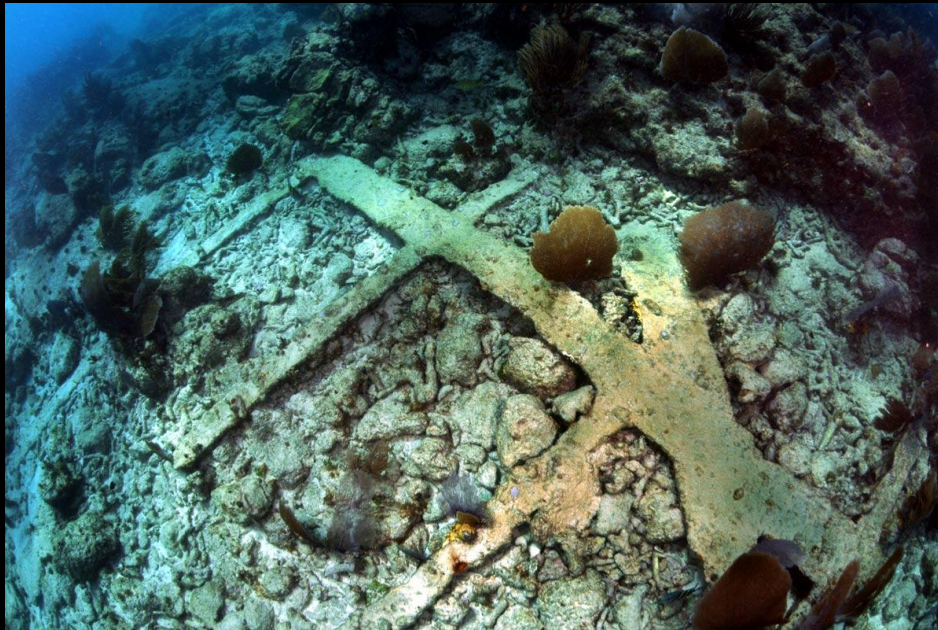


The documentation included videography and...

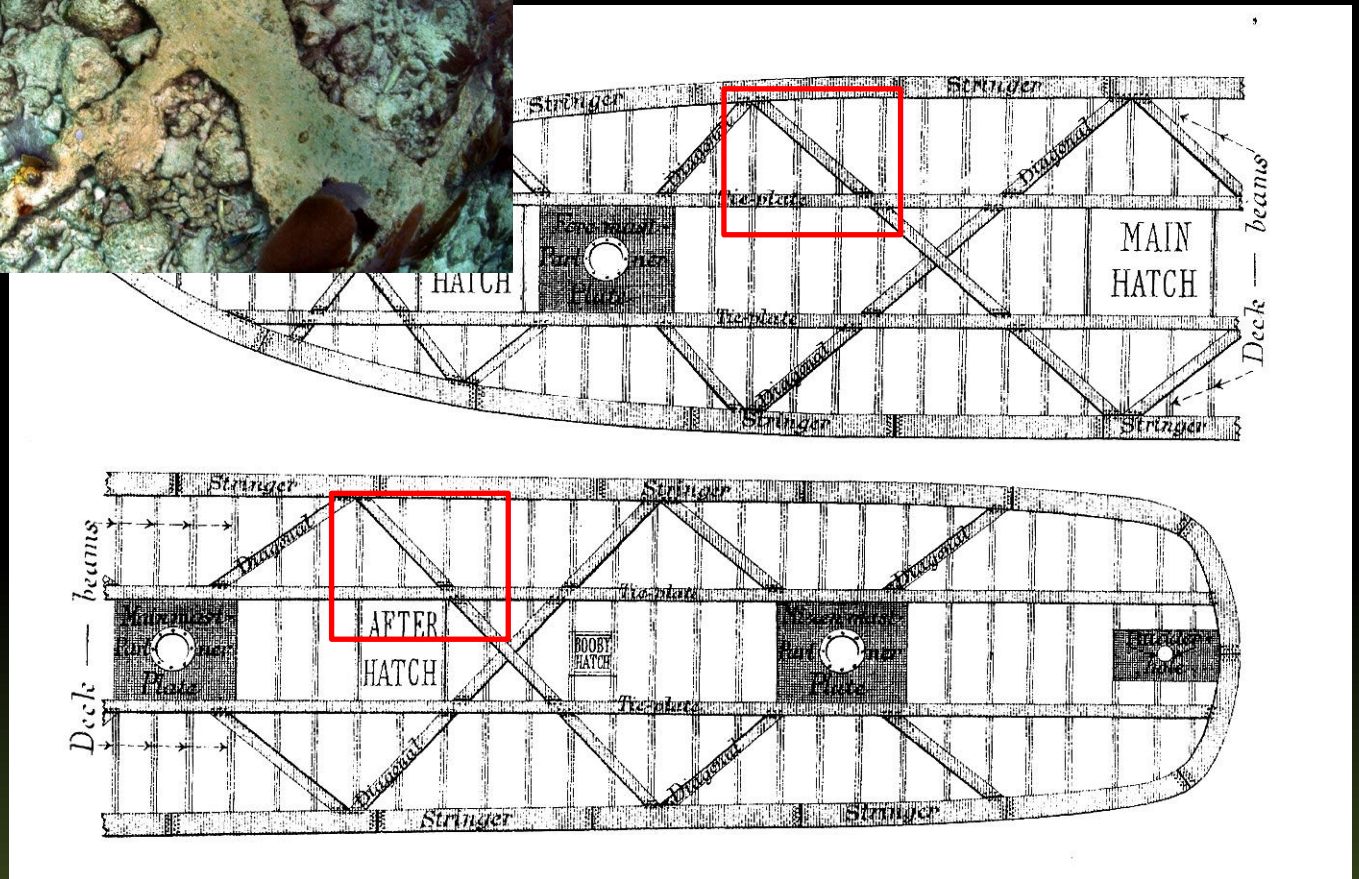
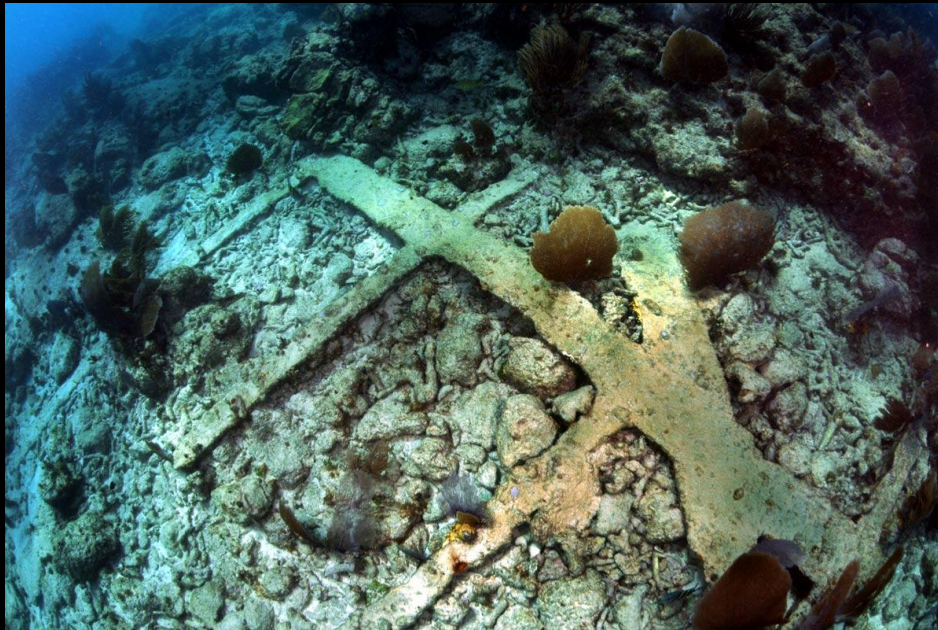


...detailed measurements.

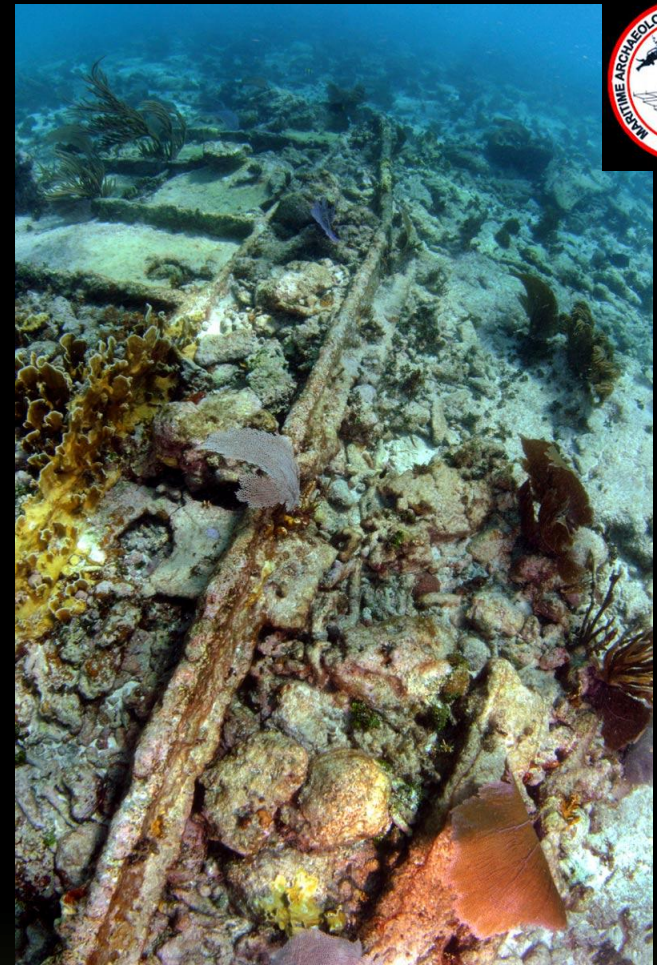
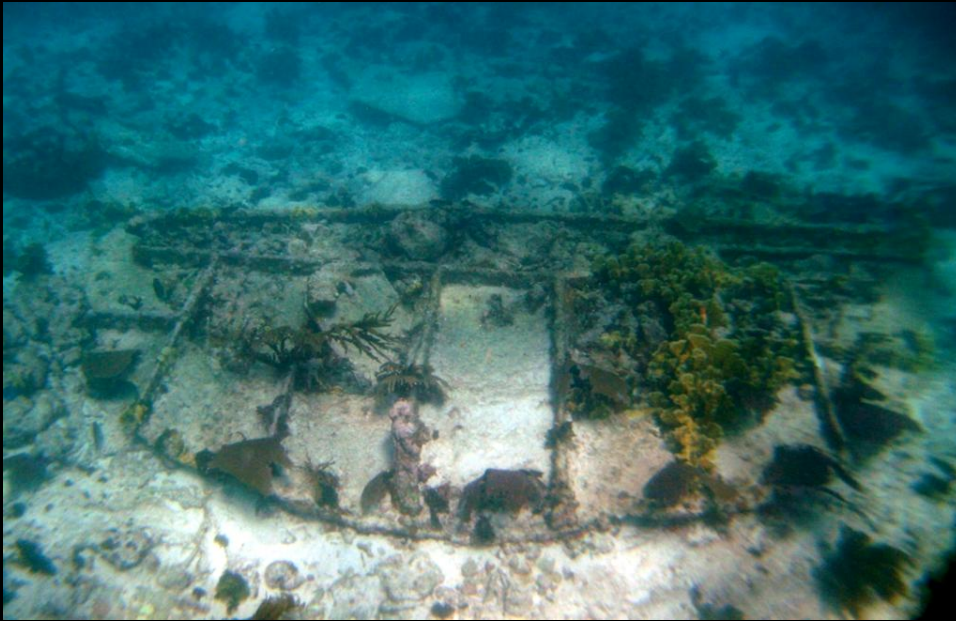




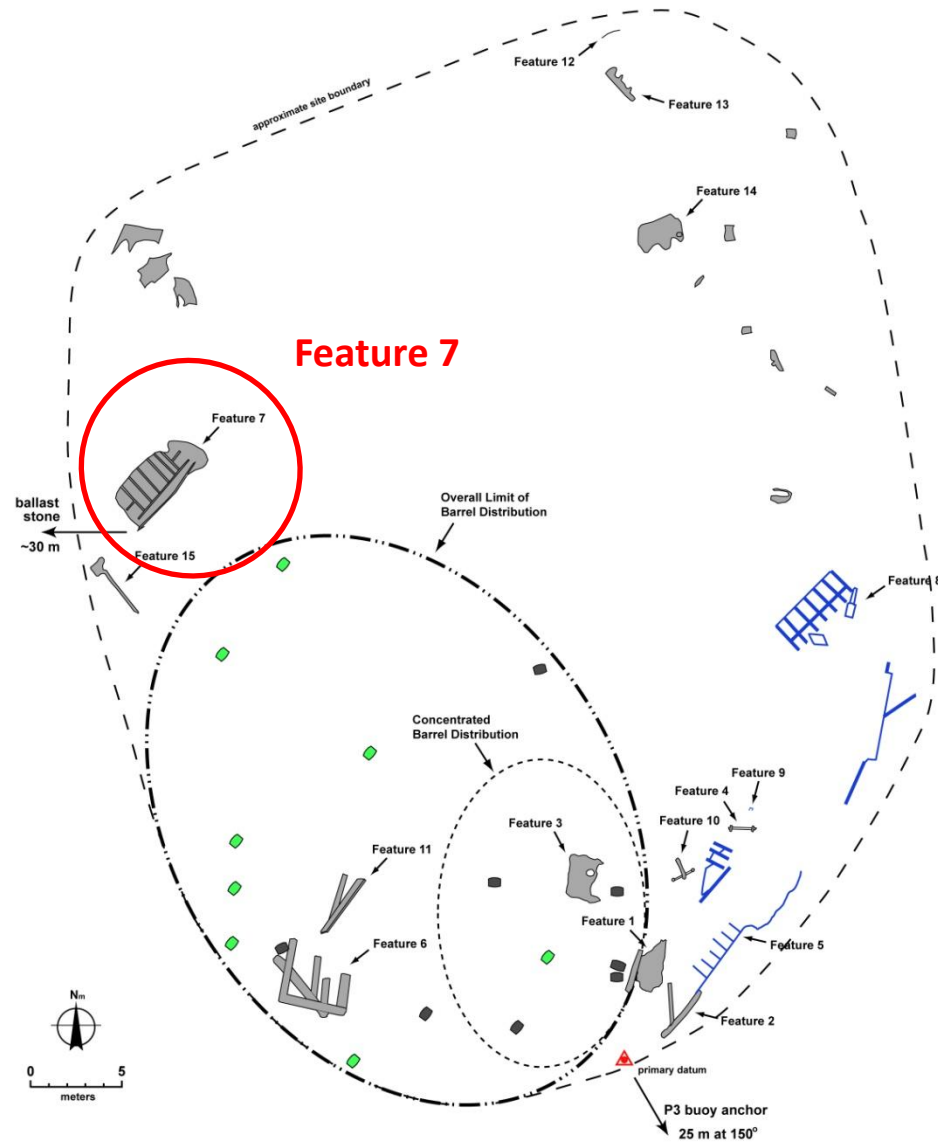
We noted the similarity between the feature and an illustration of the deck plan of an iron-hulled ship from a 19th-century publication by H. Paasch.



We noted the similarity between the feature and an illustration of the deck plan of an iron-hulled ship from a 19th-century publication by H. Paasch.



Detailed measurements were also taken of Feature 7, a bulkhead-like feature.



Feature 7 was located away from the rest of the site.

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While many video images were taken, construction of a photo-mosaic proved unsuccessful.



By the end of the two-day field season the project goals had been met, the field school was a success, and a good time was had by all.

The organizations involved in the project this season included:



**MAHS – Maritime
Archaeological and Historical
Society, Washington, D.C.**



**NOAA / Florida Keys
National Marine
Sanctuary**



**Conch Republic
Divers**



Photos by Will Blodgett, Dave Shaw, and Dennis Knepper.