UNDERWATER ARCHAEOLOGY

Pickles Reef

Florida Keys National Marine Sanctuary





In June of 2012, we returned to the Florida Keys and the Florida Keys National Marine Sanctuary off Key Largo to continue research begun in 2010.



The Field School began as usual with a dry land walk through of trilateration mapping. The trainers are keeping a watchful eye on the students practicing trilateration on the beach by the hotel.

Check out the ominous looking sky behind them. More on that in a moment.



Looks like they agree – it's over there.



A demonstration of plotting the trilateration data.



Dive operations were again conducted through Conch Republic Divers, in Tavernier.

Below and left, preparations on the boat. The sky doesn't look much better than it did earlier.





Discussing the dive plan on the trip out to the site. The weather is not cooperating. You can barely see the horizon for the rain.

The diver in the foreground looks unconvinced that this is really a good idea.



This was the source of the clouds and the rain – Tropical Storm Debby. Florida and the Keys are buried in there somewhere.



Right about here.



By the time we arrived at the site, the seas were running 3 to 4 ft. Because the reef is so shallow, 10 to 20 ft, the swells caused a significant surge on the bottom. The sea fans in this picture are leaning pretty far to the left. Keep your eye on the coral in the center of the picture and click to the next slide.



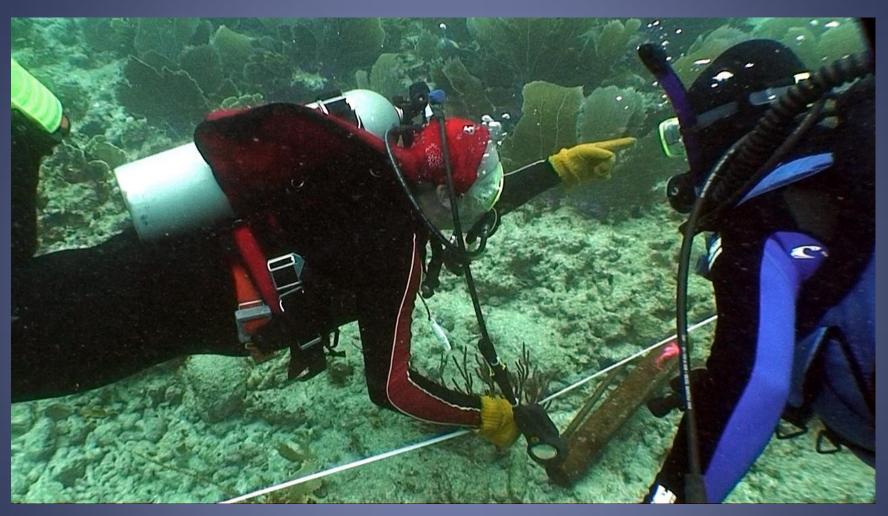
A couple of seconds later and the same fans were laid far over to the right. That's the same piece of coral in the center of the photo. Click back and forth between the slides for the effect of the wave action.



Good buoyancy and trim help keep you stable, in spite of the surge.



The baseline needed to be re-set. We reset the datum point and ran the baseline tape out on the original compass heading.



We could not relocate the secondary datum, so we shortened the line and concentrated on mapping features near the origin, at the zero-end of the line.



Meanwhile, we began recording data.



More data.



Trilateration mapping – the second diver is at the baseline, off-camera to the left.



Divers took detailed measurements of some of the larger features.

EVERYBODY'S MAGAZINE

FEBRUARY, 1908.



Over the Florida Keys by Rail

By RALPH D. PAINE

Author of "The Praying Shipper," "The Greater America," etc.

EDITOR'S NOTE .- Key West, the point of the tail of the American Continent, is attached to the Florida mainland by loose vertebre called "keys," separated from one another by miles of water. Across these, south from Miami, a railroad is being built. It is the greatest engineering feat of the day. Thirteen miles of the Atlantic, and mineteen more of submerged swamp have already been bridged; and when this veritable railway in the sea is complete, it will mean a forty-eight hour schedule from New York into Havana.

has long been the most remote and inconhas long been the most remote and incon-gruous city claimed by an American state. In days gone by its spongers, wreckers, and Spanish-speaking cigar-makers no more dreamed of being linked with the mainland by rail than do the people of Honolulu. Un-iil ten years ago their nearest home port was coral reef, limestone, and mangrove swal

A SPECK of reef set far out in a tropical advancing down the strip of wilderness along eas, much nearer to the coast of Cuba the Atlantic seaboard, brought Key Wahan to any port of its own country, Key West within reach of Miami, 157 miles away has long been the most remote and inconstances.

of the Florida keys.

This chain of islets swings off from Everglades of the mainland to stretch d into the Atlantic and the Gulf as far

. Oct. 13th 19 Ill ten years ago their nearest none port was
Tampa, ago miles up the Gulf of Mexico.
Then the Flagler railroad, which had been and have been aptly called the sweep Key West Citizen

138.5

150.

183

171

156

271

233

298

330.7

168

207

224

182

200

317

276

322

Eleven Lost on Tug Sibyl and One Dead at Marathon.

gives out by Engineer Ernest Cot-ton this morning:

"The loss of life is limited to Capt. Pinder says that a man tree of Tog Sybil and Timekeeper named Brown, a watchman at Brown at Marathon. Sybil's loss Marathon, was found dead on a ocludes Parker, captain; Fox, en- housebost after the storm.

damage to concrete work at any and re points' All 'camps more or less brusy, except a being cared for, and have sufficient supplies. Men all behaved well and have goose Practically all the dredges, pile

"The following statement was der, was as Marathon during the

includes Parker, captain; Fox, engineer, Whitmore, pilot; Petespon, The hawkind bloor at the Monaginer, and seven deet hands. "Floating equipment and uncompleted work landy defension. Five spans of stell work landy damaged: no bloow into the water, but the pier damage do concerte work at any and remaining stell work landy and remaining stell work landy and remaining stell work with the pier damage do concerte work at any and remaining stell work stood in the water, but the pier damage do concerte work at any and remaining stell work stood on the pier damage do concerte work at any and remaining stell work stood.

ck north of Marathon washed craft are either sunk or badly

Lequesta:

Building The Overseas Railway To Key West*

By CARLTON J. CORLISS

In my boyhood I was an avid reader of adventure stories, and one of the first impressions I gained of that far-flung chain of tropical islands which extends in crescent formation from Biscayne Bay to Dry Tortugas was from a lurid and exciting tale of pirates, buccaneers and smugglers who haunted that region and carried on their nefarious operations in the surrounding seas, the Bahamas and the West Indies.

The Florida Keys are indeed rich in romantic interest. Along these palm-fringed shores sailed the picturesque caravels of Spanish explorers and adventurers-Narvaez, De Vaca and De Soto-and the galleons which bore Cortez, Coronado, Iberville and Bienville on their history-making voyages of discovery, conquest and colonization.

During the Spanish occupation and on through Florida's territorial period, the numerous sheltered bays and inlets which dot this "Coast of nture" were familiar hiding places and rendezvous for "Brethren of the whose very names sent chills up and down the spines of honest

Historians searching for truth find it difficult sometimes to determine is legend and what is history, what is fact and what is fiction. But of hing there is no doubt-from the earliest days of American occupation orida an important center of activity in the Key country was the ancient Hueso ("Isle of Bones"), or Thompson's Island, known today as Key

Key West dates its growth as an organized community from the 1820's, for a period of more than fifty years-until 1890-it was the most lous city in Florida.

alk before the Historical Association of Southern Florida, Miami, April 7, 1953.

Steamer Antilles Aground, But In Safe Position-All on Board Safe and Well. Miami, Oct. 13 .- News reached here late this afternoon of the sinking of the tugs Sybil and Sadie at Bahia Honda during Monday's hurricane, and the loss of the eleven members of the crew of the Sybil, including Capt. Parker.
The crew of the Sadie escaped.
This news was brought here by the rnis news was brought here by the relief expedition sent by the Metropolis, the local afternoon newspaper. The loss of life on the tug Sybil in-cludes, besides Capt. Parker, Engineer Pox, Pilot Whitmere, Engineer Peterson and seven deck hands.
The following statement was given out today by Engineer Ernest Cotton of out today by Engineer Ernest Cotton of the Florida East Coast railway: "The loss of life on the Florida East Coast extension is limited to the crew of the tug Sybil and Timekeeper Brown at Marathon, a total of twelve persons. The floating equipment of the energed uncompleted work were the damaged. There was, however, no damage to the foncrete work at any point. All of our camps were more or less wrecked, but

In the end we were only able to get in one day of diving. Conditions were too rough to go out a second day. So we much of spent the day working on archival material.

Synopsis of Tests of Various Mortars, made for U. 5 Governmen

190.5

225

223.5

348

348

394

511

Briquettes broken

of materials

Frank Brown, Civil Sup.

120

151

137

152

130

249

187

246

208

Breaking Strengthof They attender

Max.

248

446

378

446

406 372

by valum

112

199

Fine calcarrens 50 Atlas Coment, Ites

Allas Cement, 16

Allas Coment, Pt

Pusacola Silien 30

Atlas Cement, 1 to

Comes. Cale. Sami

Allas Coment, 1to

Attas Coment, Lt

Atlas Cement, Ite

Attas Coment Ito

Prusacela Siliras

Hillastement, Ita

TWO TUGS SINK

All on Board the Sybil Go Down

With Tug-Crew of the

Sadie Escaped.

TWELVE LIVES IN ALL LOST.

me union

Centse Cale Sage

Corse cale Sand





The CRD boat captain...

...and mate.



No sunset picture to end the project...it was too overcast for that. We did have a good meal to finish things off, though.

Here are the organizations involved in the project again this season:



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



NOAA / Florida Keys National Marine Sanctuary



Conch Republic Divers



Photos by Jim Smailes and Dennis Knepper. Underwater photos captured from video taken by Will Blodgett.