**DEPARTMENT OF COMMERCE**
U. S. COAST AND GEODETIC SURVEY

**E. Lester Jones, Director**

<table>
<thead>
<tr>
<th>C. &amp; G. SURVEY</th>
<th>L. &amp; A.</th>
<th>NOV 2 1926</th>
</tr>
</thead>
</table>

**State:** Florida

**DESCRIPTIVE REPORT**

Topographic | Sheet No. | 4204

**LOCALITY**

Tampa Bay

Upper Part of Boca Clega Bay
North of Pilgrim Bridge

**1926**

**CHIEF OF PARTY**

Ray L. Schoppe
DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET "H"

BOCA CIEGA BAY, FLA.

STEAMER BACHE

RAY L. SCHOPPE

COMMANDING

1926
AUTHORITY
The topography of this sheet was executed during the month of July and
August 1926 under instructions to the Commanding Officer, Steamer
HYDROGRAPHER, dated June 3, 1924 and supplemental instructions to the Commanding
Officer, Steamer BACHE, dated December 3, 1925.

LIMITS
This sheet includes the shoreline of Boca Ciega Bay from Pulver Bridge
northwest to approximately lat. 27° 50' N; the greater part of Long or
Four Mile Bayou, and the Gulf Coast from the bathing pavilion at the
north end of St. Petersburg Beach, signal Gate, northwest to approximately
lat. 27° 50' N, long. 82° 50' 1 W; the landed area between Boca Ciega
Bay and the Gulf and for a short distance on the eastern side of Boca
Ciega Bay and surrounding Four Mile Bayou.

CHARACTERISTICS
All of the landed area on this sheet is low with the exception of the area
just east of the Duhme' Estate, which attains an elevation of between 40
and 50 feet. The area included between the Gulf and Boca Ciega Bay is sandy,
covered with grass, scattered palmettos and palms on the western or Gulf
side and for the main part mangroves on the eastern side, extending from
a few to several hundred meters; the exception being from Pulver Bridge to
Treasure Island. Three or four small mangrove islands are found in this
latter area; that farther to the northward having several mangrove islands.
During the extreme highwater of the hurricane of September 18th-19th, the
land area along the Gulf was almost entirely inundated.

The area immediately surrounding Long or Four Mile Bayou above Seminole
Bridge is low, densely covered with pine trees, grass and small palmettos,
and has numerous swampy areas, some of which are partially drained by dredged
drainage canals, the most important of which extends along the right or
easternmost arm of Four Mile Bayou through to Cross Bayou in Old Tampa Bay.
On the westerly side of the upper end of Four Mile Bayou, the improved
districts, consisting mainly of orange and grapefruit orchards, extend to
within about 200 meters of the Bayou.

The landed area on the eastern side of Boca Ciega Bay from the Jungle Club
Yacht Basin to the Seminole Bridge, for a strip of from 100 to 300 meters,
is densely covered with pine trees, grass and small palmettos, as is the
entire area from Turtle Crawl Point to Welch's Causeway. From Welch's
Causeway northwest to triangulation station OAK, the limit of this sheet,
the area is covered with pine trees, grass and small palmettos, part of
which has been cleared or thinned by the various real estate development
companies working in these parts. From Pulver Bridge to the Jungle Club
Yacht Basin, the area is improved, having many fine residences with well
kept lawns and palm trees.
CONTROL AND METHOD OF SURVEY

Control was obtained from old recovered triangulation stations and a small amount of additional triangulation. The method used was that of stadia traverse between triangulation stations, augmented by three point fixes where possible. Several stadia traverse loops were used, especially in the area of Four Mile Bayou, in order to strengthen the traverses where it was not possible to close on a triangulation station. In all traverses the closures were negligible and needed no adjustments. All channel beacons were located by plane table cuts as were some of the hydrographic signals.

Aerophotos, maps and blueprints of the various subdivisions together with those for the city of St. Petersburg proved to be of great value, where available, in checking up minor details, obtaining the nature of the vegetation, and for obtaining the location of a few streets and roads where it was not practicable to traverse them.

The shoreline from Pulver Bridge to the Jungle Club Yacht Basin and from Pulver Bridge to Treasure Island was surveyed by H. K. Hilton.

All work was done in accordance with the General Instructions for Field Work, paragraphs 145 to 197. Hydrographic signals were established where necessary and cut or traversed in. Distortion of the sheet was small and nearly uniform so that little trouble was encountered from this source.

DETAILS OF SHORELINE

All the shoreline on the Gulf, as well as that of Blind Pass and Johns Pass, consists of a broad sand beach with a very distinct high water line. On the western side of Boca Ciega Bay, from Pulver Bridge to the Treasure Island real estate development, except for a few small mangrove islands, the shoreline consists of a narrow sand beach with a definite high water line. From Treasure Island to triangulation station WAIT, the northern limit of the shoreline, except for Welch’s Causeway the shoreline consists of mangrove trees with an indefinite high water line.

On the eastern side of Boca Ciega Bay, a concrete bulkhead extends from Pulver Bridge to the Jungle Club Yacht Basin. From the yacht basin to the Seminole Bridge the shoreline consists of a narrow sand beach.

Most of the shoreline of Long or Four Mile Bayou consists of marsh grass with a small amount of mangrove. A definite high water line was located back of the marsh grass. Several small mangrove islands are found scattered throughout the lower end of the bayou.

From Turtle Crawl Point to triangulation station OAK the shoreline consists in the main of marsh grass with a few strips of sand beach in the vicinity of Turtle Crawl Point. A definite high water line was located back of the marsh grass.

CHANGES OF SHORELINE

Very little change of shoreline was noted as compared with the existing charts, except in the vicinity of real estate developments where the shoreline and existing or nonexisting islands are changed to suit the individual taste.
The old natural channel at Indian Pass is virtually closed. At extreme high water a small portion of it is awash. A new channel has broken thru just south of triangulation station SWEAT and promises to become of more importance as time goes on. The details of this new channel are shown on the next sheet above, topographic sheet "J". The mangrove islands at the lower end of Four Mile Bayou have changed considerably.

PLACE NAMES

Names were taken from existing charts and verified where possible. Additional names were taken from the plans and maps of the city and of the real estate developments where sufficiently well known as to insure their permanency.

DEVELOPMENTS

There are three real estate developments included on this sheet at present which are still in the experimental stage and are apt to continue so for some time. Namely Treasure Island, Madeira Beach and Duhme's Estate. Little work if any has been done on Duhme's Estate and it is considered of little importance at present.

Treasure Island, the largest of the three, is still in the experimental stage and little has been done. Permit has been obtained from the War Department and it is planned to build a free causeway across Boca Ciega Bay on the extension of Central Avenue westward. They also plan on building several islands. Nothing exists as yet except a few sidewalks, a bath house and the engineer's office.

Madeira Beach, at the western end of Welch's Causeway, is also in the experimental stage and is at present in difficulty due to confusion in legal titles to the various lots. While all that exists there at present is the bath house and a few refreshment stands, it was quite popular as a bathing beach due no doubt to the fact that it can be reached without passing over a toll bridge.

LANDMARKS

Due to the flat nature of the country no natural landmarks of any value are to be found within the limits of this sheet. The only artificial landmarks of any value are the three water tanks located by triangulation under the names of SLIM, HIGH and FAR.

STATISTICS

Statute miles of shoreline
Area, square statute miles
Statute miles of roads or streets traversed
Number of triangulation stations
Number of hydrographic signals
Number of recoverable planetable positions

Respectfully submitted,

[Signatures]
<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>LAT.</th>
<th>D.M.</th>
<th>LONG.</th>
<th>D.P.</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gate, West gable bathing</td>
<td>27°44'</td>
<td>1107</td>
<td>82°45'</td>
<td>427</td>
<td></td>
</tr>
<tr>
<td>pavilion St-petersburg</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>beach.</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>GLUE, Red chimney white</td>
<td>27°45'</td>
<td>576</td>
<td>82°44'</td>
<td>980</td>
<td></td>
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<tr>
<td>House.</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>TED, Red chimney white</td>
<td>27°45'</td>
<td>1102</td>
<td>82°45'</td>
<td>1612</td>
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<td>House.</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GLG, Red chimney</td>
<td>27°45'</td>
<td>1840</td>
<td>82°44'</td>
<td>772</td>
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<tr>
<td>BEE, Chimney green tile</td>
<td>27°45'</td>
<td>1069</td>
<td>82°44'</td>
<td>1296</td>
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<td>roof.</td>
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<td></td>
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</tr>
<tr>
<td>RAT, West gable green</td>
<td>27°46'</td>
<td>1143</td>
<td>82°45'</td>
<td>1104</td>
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<tr>
<td>roofed white house</td>
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<td></td>
</tr>
<tr>
<td>TOP, Chimney red roofed</td>
<td>27°47'</td>
<td>216</td>
<td>82°45'</td>
<td>167</td>
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<tr>
<td>house.</td>
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<td>GANG, East tower gang plank.</td>
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<td>570</td>
<td>82°45'</td>
<td>377</td>
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<td>BATH, SW. Gable Red</td>
<td>27°47'</td>
<td>1830</td>
<td>82°46'</td>
<td>88</td>
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<td>roofed bath house</td>
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<td>VAN, Red chimney green</td>
<td>27°48'</td>
<td>1009</td>
<td>82°46'</td>
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<tr>
<td>CUP, Cupola, Fruit packing</td>
<td>27°48'</td>
<td>1380</td>
<td>82°45'</td>
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<td>plant.</td>
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<td>Sunken boiler</td>
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<td>471</td>
<td>82°46'</td>
<td>1148</td>
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<td>FO, Prominent large tree</td>
<td>27°49'</td>
<td>1789</td>
<td>82°46'</td>
<td>544</td>
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<td>on point.</td>
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<td>OLD, Prominent Large Tree.</td>
<td>27°51'</td>
<td>1837</td>
<td>82°46'</td>
<td>399</td>
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</tr>
</tbody>
</table>
Superintendent, U.S. Coast and Geodetic Survey:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted:

<table>
<thead>
<tr>
<th>Description</th>
<th>Position</th>
<th>Method of Determination</th>
<th>Charts affected</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Latitude</td>
<td>Longitude</td>
<td>Datum</td>
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<tr>
<td></td>
<td>D. M.</td>
<td>D. P.</td>
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<tr>
<td>Water Tank</td>
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<tr>
<td>Pasadena (Slim)</td>
<td>27-45</td>
<td>1651</td>
<td>62-43</td>
</tr>
<tr>
<td>Water Tank (High)</td>
<td>27-46</td>
<td>605</td>
<td>62-44</td>
</tr>
<tr>
<td>Water Tank (Far)</td>
<td>27-47</td>
<td>345</td>
<td>62-44</td>
</tr>
</tbody>
</table>

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance.

The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstaffs and like objects are not sufficiently permanent to chart.
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. "H".............

REGISTER NO. 4204

State....Florida.................................................................

General locality....Tampa Bay...........................................

Locality....Boca Ciega Bay, Upper Part of Boca Ciega Bay.....

Scale....1/10000....... Date of survey....July - August..... 1926

Vessel....BACHE...............................................................

Chief of Party.....H. L. Schoppa........................................

Surveyed by.....H. Arnold Karo.........................................

Inked by......H. Arnold Karo...........................................

Heights in feet above........to ground to tops of trees

Contour, Approximate contour, Form line interval.......feet

Instructions dated.....June 3, 1924 ....December 3, 1925

Remarks:..............................................................................


GPO