

2221

Diag. Cht. No. 1239-1

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey *Hydrographic*
Field No. Office No.

LOCALITY

State *South Carolina*
General locality *Entrance to*
Locality *Charleston Harbor*

1895

194

CHIEF OF PARTY

St. L. M. Garrett, U.S.N.

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DATE

2221

U. S. COAST AND GEODETIC SURVEY.

Gen. W. W. Duffield, Superintendent.

State: *South Carolina*.

DESCRIPTIVE REPORT.

Hydrographic Sheet No. 2221.

LOCALITY:

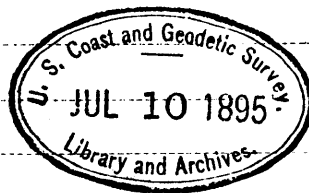
*Entrance to Charleston
Harbor.*

1895.

CHIEF OF PARTY:

Lt. L. M. Garrett, U.S.N.

2221



Write me at: _____

Telegraph me at: _____

My Express Office is: _____

U. S. Coast and Geodetic Survey,

Steamer Endeavor

Baltimore Md. June 30, 1895.

2-547

Gen. W. W. Duffield,

Superintendent U. S. C. & G. Survey,

Washington, D. C.

Sir:

I beg to submit the following descriptive notes to accompany the re-examination of the Old Ship Channel, entrance to the harbor of Charleston, S. C.

This work was commenced on the 15th of April 1895 and closed on the 11th of May. It is not intended as a re-survey of this channel which is now practically abandoned in favor of the jetty channel, but is intended to cover the ground sufficiently well to carry the charts of this locality.

Inquiry among the local pilots developed the fact that they ceased to use this South Channel several years ago and since that time have

taken no soundings in it or tried to keep them below inferences of its condition. Occasionally one of the coasting steamers used it at higher water during our work there.

The dredges which are constantly at work maintaining the necessary depths of water in the jetty channel are authorized by the Engineer in charge to dredge their loads in this channel (South) anywhere below the cut in the South jetty. Soundings in this locality therefore cannot be depended upon as indicating the depth for any length of time. In fact I was informed by Capt. Abbott, U. S. Engineer, in charge, that he hoped this South channel would soon fill completely up and thereby increase the outflow between the jetties.

The sounding line used of necessity run in the steamer and owing to the many intervening shoals are rather irregular and of a patch-work character, many portions requiring hurried lines at extreme high water. It is thought however that the space is sufficiently well covered for the purpose.

The same plane of reference is used as far

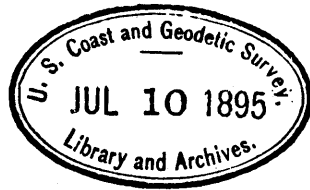
the harbor shore, viz. that of the Fort Sumter gauge and a comparison was obtained with the U.S. Engineer gauge at 0 Tides, which is a self-registering tide gauge below the jetty. A difference in time of ten minutes was used and the reduction made from the Sumter gauge.

The shore line of Morris Id. shows considerable change from the old survey. It was run in by Lemay C. M. McCormick, U.S.N. who also cut in such portions of the jetty as are visible above water.

The wreck marked by the U.S. buoy on the bar of the South channel was removed some years ago and no longer exists. Several lines were run across the spot to ascertain if any shoals had remained there.

In view of the fact that constant dredging has been necessary for the past five years to maintain any depth of water in the South channel it seems to me that the Charleston jetty system must be regarded as a failure.

Very respectfully,
 L. M. Garrett
 Lieut. U.S.N. Asst. Cr. Serv.



Description of Signals

Charleston Harbor

(Sheet I.)

Entrance to Charleston Harbor - Main Channel

(Sheet II.)

1895.

Description of Signals.

Name of Signal	Sheet	Page in Single Book	
Spire	I	7. 8. 10. 12. 13.	Slender, sharp white Church Spire on Small White Church, E. of inner end of Ferry Wharf at Mount Pleasant.
Bank	I	5. 6.	Pole with flag nailed to stump of pile on old embankment on N. Bank of Ashley River, about 200 metres E. of Δ Kappoo. (which was not recovered).
Bar	II	21. 32. 33. 34.	Water Signal pumped down on Shoal S. of Charleston I. No. Consists of three pine trees in form of tripod, with cage and flags.
Bat	I	8. 9. 10 12. 15	Sharp angle of Sea Wall at Southern end of "The Battery", Charleston, where the Ashley & Cooper River join.
Bee	II	20. 22. 24. 25. 26. 28. 30. 33.	Pole and cage, with flag, in the top of the Northern of two pine trees near the beach on Davis Island. These trees are in the Northern edge of the woods, and about 400 metres S. of Δ South Base, (which was not recovered).

Name of Signal	Sheet	Page in Angle Book	
Brick	I	4. 5. 9	Is the Northern of two tall brick Chimneys at the West Point Co. Rice Mill, on the E. Bank of the Ashley River.
Bug	I	2. 4. 7. 8. 10.	Is a black cluster of stakes, with white lantern in the water about 400 meters N. of the N. end of Shutes Folly Id. It is the "Shutes Folly Id. Spit Beacon N ^o 3", referred to in Bulletin N ^o 44, U.S.L. N. Board, Jan. 1 st 1895.
Cath	I & II	7. 12. 13. 14. 15. 21. 22. 24. 28. 29. 33.	Is a "Catholic Church Spire Cross", given on Sheets I & II. Is on the Northern part of Sullivan Island.
Chan	I	2. 7. 8. 10. 12. 13. 14. 15. 16.	Is a red cluster of stakes with red lantern on E. side of channel to Mount Pleasant. It is the "E. Side of Channel Beacon N ^o 4", referred to in Bulletin N ^o 44, U.S.L. N. Board, Jan. 1 st '95
Chim	I	1. 2. 3. 15.	Is the Northern of two white Chimneys on large white House abt. 400 met. N.W. of a Cemetery (at Mag). Name of place is "Belvidere" and belongs to Mr. Wille. Is on W. bank of Cooper River, Northern edge of Sheet I,

Name of Signal	Sheet	Page in Signal Book	and N. of Magnolia Cemetery
Clam	I	1. 2. 3. 15	Is a clam given in Sheet I. Is a tripod signal situated near shore line on neck of land between the Cooper & Wando Rivers
Cannon	I	7. 8. 10	Is old telegraph pole on E. side of S. entrance to Horse Creek, & near Southern end of Hog Island. It is caged up, with flag pole & flag.
Cove	I	10. 12. 14. 16	Is a cluster of red piles with red lantern situated just inside the eastern end of northern breakwater Sullivan's Island. It is the "Sullivan's Island Breakwater Beacon" referred to in Bulletin No. 44, U. S. L. S. Board, January 1st 1895.
Cup	I	4. 5.	Is a "J. S. Rogers 100. Cupola" given in Sheet I and is in western part of the city of Charleston, near the Ashley River
Curt	II	20. 22. 24. 25. 27. 29. 34.	Is the third stake from shore on South Jetty, and is at the end of the raised part on E. side of the channel through the jetty.

Name of Signal	Sheet	Page in Angle Book	
Draw	I	4. 5. 6	Is the lantern over the center of the draw of bridge over the Ashley River.
Ed	I	2. 3. 8. 15.	Is a Δ Elevator given on Sheet I, being the E. gable of the most northern of 3 Elevators on W. bank of Town Creek, and West of the middle of Drum Island.
End	I	1. 2. 3. 15	Is a pole with cage and flag erected on N.E. end of Drum Island, in Cooper River. It is on a shell bank N. of the island which is bare at low water.
Foot	I	7. 8. 10. 11. 12. 15.	Is a "Castle Pinkney" given on sheet, and is the northern of two Δ close together. Dug & recovered the stone marking the Δ in good condition. Erected a pole with cage & flag. It is on the highest point of the earth of Castle Pinkney, & very near an old theodolite stand, as described in data sent from office.
Foot	I	12. 13	Is a Δ Foot Johnson given on sheet I. Is an earthenware pipe projecting abt. 3 ft. above the ground on the highest point of Ft. Johnson, just in the rear of the Quarantine Station. There was also a small tripod abt. 5 ft. to the N.W. of this point.

Name of Signal	Sheet	Page in Single Book	
Flag	II	20. 22. 27. 30.	Is Flagstaff at Life Saving Station on E. shore of Morris Isld. near Charleston Lt. Ho. (o Light) It has apparently been moved from the position shown on Sheet II.
Fly	I	7.	Is Δ "Flynn's Church Spire" given on sheet. It is in the northern part of Charleston.
Fruit	II	20. 22. 24. 25. 26. 28. 29. 33.	Is Tripod built over U. S. Engr. Sta. on N. end of Morris Isld. & on continuation of inner end of S. Jetty. This station is near position of Δ Engrs. Fruit Range given on Sheets I & II, but not over it. This latter Δ was not found.
Gab	I	4. 5. 9	Is W. gable end of white shed N. of Δ Tank, & on the opposite (E.) bank of the Ashby River.
Grace	I	5.	Is Δ "Grace Church Spire"; Charleston, given on Sheet I.
Hill	II	21. 23. 30 32	Is Δ Bear Range Beacon, Pumpkin Hill Channel, near Charleston Lt. Ho. on Morris Isld.

Name of Signal	Sheet	Page in Angle Book	
No	I & II	14. 15. 16. 20 21. 22. 23. 24 25. 26. 27. 28 29. 32. 33.	Is a "Hotel Cupole", on Sullivan Is. Southern part of Moultrieville. Given on Sheets I & II.
Hog	I	7. 8. 10. 12. 13. 14.	Is a cluster of red stakes with red lantern off the mouth of Sheen Creek, and on E. side of channel to Mt. Pleasant. It is Mt. Pleasant Beacon No. 6 "referred to in S. N. Board Bulletin No. 47 January 1 st 1895.
Jimm	I	5. 9. 10	Is pole with cage & flag erected on shell bank on S. side of mouth of James Creek, and on James Island.
Jo	I	1. 3. 4. 5. 6. 7. 8.	Is a St. Johannes German Lutheran Church Spire, facing Calhoun Square, Charleston.
John	I & II	4. 6. 7. 8. 9. 10 11. 12. 13. 14. 16 23. 24. 26. 30. 33.	Is a Iron Tank, Quarantine Station, given on Sheets I & II.
Light	II	20. 21. 22. 24 25. 26. 27. 28. 30. 31. 32. 33. 37	Is a Charleston Lt. Ho. on S. end of Morris Is. given on Sheet II.
Lif	I	2. 3. 4. 7. 8. 10.	Is a cluster of black stakes with white lantern on S. side of Hog Isld. Channel, & E. of Shutes Folly Isld. It is Hog Isld Beacon No. 1 referred to in Bulletin No. 44 U. S. L. N. Board, January 1 st 1895.

Name of Signal	Sheet	Page in Log Book	
Mag	I	1. 3.	Is Tripod over Δ Cemetery, in Wagnolia Cemetery on W. bank of Cooper River, N. of Charleston. Given on Sheet I. Did not recover the stone marking the point, though dry for it.
Met	I	7	Is Δ "Mt. Pleasant" given on Sheet. It is a square tower or cupola on old building N. of Ferry Wharf at Mt. Pleasant. Did not search for or recover Δ
Mic	I	4. 5. 9. 10 14. 15.	Is Δ St. Michael's Church Spire; Charleston, given on Sheet I.
One	II	21. 22. 24. 25. 28. 29	Is Stake nearest shore on northern edge of submerged part of South Jetty.
Paul	I	—	Is Δ St. Paul's Church Spire, Charleston, given on Sheet I.
Phil	I+II	3. 4. 8	Is Δ St. Philips Church Spire, Charleston, given on Sheet I & II.
Pile	I	11. 12. 14.	Is pile in water off mouth of Shew Creek, & N. of Hog Island Channel.
Pink	I	8. 10.	Is self-registering tide gauge, in water South of Shutes Folly Island.

Name of Signal	Sheet	Page in Sample Book	
Tide	I	12. 13. 16	Is tripod on James Isld. near mouth of Light House Creek. It is the Rear Range (Front being the Front Range) of the U. S. Engrs. for inner line of S. Jetty.
Tide	I	1. 2. 3	Is a pole with a cage & flag erected on S.E. end of Drum Isld.
Range	I & II	14. 16. 21. 22. 25. 27. 33.	Is Δ Rear Range Beacon, Sullivan's Isld. Given on Sheets I & II.
Rear	I & II	12. 14. 20. 22. 24. 25. 28. 29. 30	Is Δ U. S. Engrs. Scaffold, Back Range, on N. end of Morris Isld. Given on Sheets I & II.
Red	I	5. 9.	Is N. gable of Bridge office, on W. shore of Ashley River and N. of the end of the Bridge.
Rear	I	1. 2. 3. 4.	Is Δ Remy on Hobcaw Pt. on E. bank where Cooper & Wando Rivers join. Is on old Bomb proof, highest point. Is tripod with flag.
Red	I	10. 12. 13. 16.	Is E. Chimney of red roofed house, being the smaller of two houses close together, at Lazaretto on James Isld. S. of Quarantine Station, and North of Light House Creek.

Name of Signal	Sheet	Page in Signal Book	
Rice	I	5. 6. 9	Is W. gable end of old Rice Mill on E. bank of Ashley River. This is gable on same building on which Δ Mill Cupola, given on Sheet, was situated, but Cupola was destroyed during cyclone.
Rip	I	7. 9. 10. 11. 13. 14. 15.	Is Δ Fort Ripley Light Ho. Given on Sheet I.
Save	II	20. 22. 27. 30. 31. 32. 33.	Is Δ Cupola of Life Saving Station on E. shore of Davis Island, near Southern end Given on Sheet II.
Sel	I	1. 2. 4.	Is E. gable of Elevator 1000 meters S. E. of Elevator. It is the most Southern of three Elevators, and is opposite the S. end of Drum Chbl. on W. bank of Cooper River. Is on long wharf owned by E. N. R. R.
Shell	I	15. 16.	Is pole with cage & flag erected on S. E. shore of The Cove E. of the Northern end of Sullivan's Isld.
Spin	I	12. 13. 16	Is Spindle on sand shoal S. W. of Fort Sumter.
Stake	I	1. 2. 3. 4. 7. 10.	Is a stake in the water near the Northern end of Hog Isld., on W. side of Cooper River, and near the N. entrance to Horse Creek. It is a pole

Name of Signal	Sheet	Page in Single Book	
			with flag to stake. It is near position of old wharf shown on chart, which is now gone.
Sub	1	7. 10. 12. 13. 14. 15. 16	Is cluster of red stakes with red lantern on W. side of Southern entrance to channel to Mt. Pleasant, and N. side of entrance to channel to The Cove, and N. of Sullivan's Island. It is "Moultrieville Beacon No. 2" referred to in Bulletin No. 44 U.S.L.H. Board, January 1 st 1895.
Sun	I & II	10. 14. 16. 20 22. 24. 28. 29 30. 33.	Is Δ Light Ho. on Fort Sumter, given on Sheets I & II.
Tank	I	4. 5. 9. 15	Is Δ Wappoo Tank, a large water tank at Wappoo Acid Phosphate Co. Mill, on W. bank of Ashley River, and N. of Wappoo Creek. Given on Sheet I.
Tide	II	12. 20. 21. 22. 24. 25. 26. 27 29. 31. 32. 33. 34.	Is U.S. Engineers self-registering tide gauge house, built on piles near outer end of North Jetty.
Top	I & II	14. 15. 21. 22. 29. 33. 34	Is Δ "Large House Cupola", on Sullivan's Island House belongs to Dr. Wille.

Names of Signal	Sheet	Page in Chaple Book	
Tree	I	4. 6. 7. 9. 11. 12. 15.	Is single pine tree on James Is.; the only survivor of what was known as the "Hundred Pines". It is very prominent.
Two	II	20. 22. 24. 25. 27. 29.	Is second stake from E. shore of Morris Is. near N. edge of submerged part of South Jetty, and on W. side of channel through S. Jetty.
Vil	I	15.	Is a red stake light with a red one day lantern in "The Cove" near draw in bridge, and W. of the N. end of Sullivan's Is.
White	I		Is a "White House" given on Sheet I. It is a chimney on the W. end of a small one story house on W. bank of Cooper River, and N.E. of a cemetery, and S.E. of Phosphate Mill. The house is old and is now weather beaten instead of white.
Win	I	15. 16	Is S. gable end of a red roofed house Southern part of Mt. Pleasant, and N. of The Cove. There are two windows in end of house under gable ead. The house is probably a barn.