# 4892

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Form 504				
DEPARTMENT OF COMMERCE				
U. S. COAST AND GEODETIC SURVEY				
, Director				
State: New Hampshire				
450				
DESCRIPTIVE REPORT				
Topographic   Sheet No. 4892				
Hydrographic Sheet Wo. 4692				
LOCALITY				
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Hampton Harbor				
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CHIEF OF PARTY				
CHIEF OF PARTY				
C.K. Green				

#### DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SHEET #2

Instructions dated - August 1,1928.

#### SURVEY METHODS

All soundings in the vicinity of Hampton Beach and in the entrance of Hampton Harbor to the bridge, were obtained using the hand lead in Launch #66. With the exception of stopping the launch for a number of soundings near the outer limits of the work, all soundings were obtained when the launch was underway.

The skiff with the hand lead was used for the work in the harbor and Hampton River. This work was done at approximate low water.

Soundings on Old Cellar Rock were obtained with the sounding pole.

#### DISCREPANCIES

No serious discrepancies were noted outside of the harbor. Two discrepancies of two and three feet were in the upper part of Hampton River between channel lines and cross lines. This is probably due to changes in course between positions and variations in speed. As this work was done in the skiff with one man pulling in variable currents, it can be readily seen that the sounding speed was not always constant, nor the course a straight line.

The channels in this vicinity are narrow with soft bottom. It is recommended that the shoaler sounding be kept in both cases.

#### DANGERS

Dangers other than the two reefs or groups of rocks awash are as follows:

- (1) Old Cellar Rock, least depth  $\frac{1}{2}$  foot in Lat.  $42^{\circ}$   $53^{\circ}$  1706/m. Long.  $70^{\circ}$   $48^{\circ}$   $40^{\circ}$  m.
- (2) A 3 foot sounding on rock in --- Lat.42°- 53'- 1260/m. Long.70°- 48'- 103 m.
- (3) Two 6 foot soundings on rocks midway Lat.42°-53'- 1300/m. between the two larger reefs in - Long.70°- 47'-1155m.
- (4) A 14 foot sounding in - - - Lat.42° 53' 1668m.

  Long.70° 47' 564m.
- (5) A 16 foot sounding in - - Lat.42° 53' 1196m. Long.70° - 47' - 623m.

#### CHANNELS

A channel with a controlling depth of 5 feet leads into the bridge. It is not advisable to pass between the reefs and shore or to enter into Hampton Harbor without local knowledge. The hand draw on the bridge is not operated, but 5 feet clearance can be obtained under the bridge at high water. Hampton Harbor bares at low water with the exception of two or three channels and a small area just inside of the bridge. Hampton River channel is very shoal and good for very small craft only.

#### ANCHORAGES

Small craft anchor just inside of the bridge.

#### COMPARISON WITH PREVIOUS SURVEYS

Textensive changes have occurred in the vicinity of the entrance to the harbor and river. Instead of the bar making out towards Old Cellar Rock, it has been shifted and extends in a southeasterly direction from Town Rocks. The soundings in this vicinity, obtained in the recent survey, are entirely different from those shown on sheet #1069.

The new position of Old Cellar Rock is approximately 20 meters east of the position shown on sheet #1069. There is only one rock. In addition to this, a ll foot sounding on arrock was obtained in that vicinity, about 100 meters WxN of Old Cellar Rock. This is not shown on sheet #1069.

Additional shoal soundings were found on rocks in the vicinity of the reef, the more important ones being listed under dangers.

14 and 15 foot soundings were found in the vicinity of the 14 and 17 foot soundings shown on sheet #1069 in approximate Lat.42°-53'-1700m. Long.70°-47'-560m. While the recent soundings do not plot in the same position as those of the previous survey, it is believed that they are all on the same, shoal.

A 16 foot sounding was obtained in Lat.42 - 53 - 1196m., Long.70 - 47 - 623m. The previous survey shows a least depth of  $8\frac{1}{4}$  fathoms in that vicinity.

A 23 foot sounding was obtained in Lat.420- 52' - 1840m., Long.700-48'- 287m., where the previous survey shows a least depth of 28 feet.

The soundings at the outer limits of the survey check favorably with the soundings of the old work.

#### GEOGRAPHIC NAMES

See report for Topographic Sheet # 2.

#### NOTES

Positions 117 - 125C and 95 - 115G were plotted on tracing cloth. 96G is shown on the smooth sheet. The tracing is attached to the sheet.

#### Statistics for sheet field No. 2

Date 1928	20 10 10 10	tter	Volume	Positions	Soundings	Miles Stat.	Vessel
Sept	5	A	1	207	524	14.8	Launch#66
- "	.6	В	1	184	522	12.7	, II
	10	C.	1	134	292	6.6	11 11
	11	D	1&2	153	352	6.9	#66 & Sk <b>iff</b>
***	13	E	2	98	314	2.3	Skiff
. 11	15	F	2	82	283	2.4	ŤĬ
tt	17	<b>G</b>	2	226	<b>3</b> 60	8.1	#66 & Skiff
***	18	. н	2&3	159	522	7.9	11 11 11
То	tals			1243	3169	61.7	

#### TIDAL DATA

Automatic portable tide gauge #166 located in Lat. 42°-54' Long.70°-49'

Plane of Reference 0.84 feet on gauge. Highest tide observed 10.5 feet " " Lowest tide observed -0.1 " "

Respectfully submitted,

Jr.H.& G.Eng'r

Through:

Chas.K.Green,

Chief of Party.

#### DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

#### LANDMARKS FOR CHARTS

		-	Was	hington.	D.C.		
			_		Ma.	rch 5	
FOR, U. S. COAST AND Che following determine option given below, and	ed objects are	e prominer	nt, can be	readily di	stinguisl	ned from se	eaward from
•				Cha	s.K.Gr	een	C) · ( C)
							Chief of Party
	POSITION				Υ	METHOD	CHARTC
DESCRIPTION	Latitude		Longitude  ' D. P. Meters		Datum	OF DETER-	CHARTS AFFECTED
Church Cross	42 - 48	739.6	70 - 48	879.8	N.A.	Trian.	1206; 331
Roller Coaster	42 - 5C	916.4	70 - 49	75.0	17 17		1206; 331
Tall Stack	42 - 48	1259.6	70 - 51	1165.4	11 11	11	1206; 331
Standpipe	42 - 51	1587.6	70 - 52	7534	17 #1	11	1206
Water Tank	42 - 58	503.9	70 <b>-</b> 5]	1073.7	r1 <b>11</b>	11	1206
*Spire	42' - 54	1772.4	70 - 48	905.9	11 17	11	1206
*Cupola	42 - 54	1037.1	70 - 48	966.3	11 11	11	1206
					!		
	*Object	s shown	on Hydro	graphic	Sheet	# 2 <b>.</b>	-
<u> </u>							The state of the s

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.

June 18, 1929.

Division of Hydrography and Topography:

Division of Charts:

Tids Reducers are approved in valumes of sounding records for 4892

HYDROGRAPHIC SHEET

Hampton River, New Hampshire.

Locality:

C. K. Green in 1928.

Chief of Party: mean low water, reading

Prage of reference is Hampton River Entrance, N. H.

ft. on tide staff at ft. below B. M.

Condition of records satisfactory except as thecked below:

- 1. Locality and sublocality of survey omitted.
- 2. Month and day of month omitted.
- 3. Time meridian not given at beginning of day's work.
- 4. Time (whether A.M. or P.M.) not given at beginning of day's work.
- 5. Soundings (whether in feet or fathoms) not clearly shown in record.
- 6. Leadline correction entered in wrong column.
- 7. Field reductions entered in "Office" column.
- \$. Location of tide gauge not given at beginning of day's work.
- 9. Leadline corrections not clearly stated.
- 10. Kind of sounding tube used not stated.
- 11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
- 12. Legibility of record could be improved.
- 13. Remarks.

Paul C. Whitney

Chief, Division of Tides and Currents.

Section of Field Records.
Report on Hydrographic Sheet No. 4892.
Hampton Harbor, New Hampshire.
Surveyed in 1928
Instructions duted August. 1, 1928 (HE timegan)

Chief of Party & K. Green, Suboryed by H. E. Finnegan. Protracted and sometings platted by. C. J. Ehlers. Verified and inhed by J. A. Torrey.

- 1. The records conform to the aguirements of the General Instructions.
- 2. The plan and character of development conform to the requirements of the General Instructions
- 3. The plan and extent of development satisfy the specific instructions.
- 4. Sounding line Crossings are adequate and soundings at Brassings agree Closely.
- 5. The information is sufficent for drawing the depth curves.
- 6. The usual field platting is excellent.
- I There are to Junction sheets.
- I The surveying is satisfactory, all dangues are well derickaped and the serveral Channels in the Harber and River are well defined.

9. no further surveying is required.

10. he field drafting is excellent.

II. Sheet H-1069 surreyed in 1870 show such extensive changes in shore line and rooks that a comparisson with it appears of no. Value.

12. Reviewed by J. J. Forrey

Comparison with H. 1069, surveyed in 1870, shows very extensive changes near the entrance to the harbor and river. On the outer limits some differences were also noted. Capt. Solvialski is of the opinion that this sheet, H. 4892, should entirely super sede the old work.

Inspected by R. L. Johnston

July 30, 1929.

App. A.M. Solieralski

C. & G. SURVEY

L. & A. MAY 15 1929

Acc. No.

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

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### VDROGRAPHIC TITLE SHEET

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

Field No. ....2.....

REGISTER NO. 4892
State New Hampshire
General locality Newburyport Mass,
Locality Hampton Harbor
Scale 1 - 10,000 Date of survey September 5 - 18 , 19 28
Vessel Launch Ogden
Chief of Party C.K.Green
Surveyed by H.E.Finnegan
Protracted by C.F.Fhlers
Soundings penciled byC.F.Ehlers
Soundings in fathoms- feet
Plane of referenceMIW
Subdivision of wire dragged areas by
Inked by J. D. Torrey
Verified by
Instructions dated August 1, 1928
Remarks: