1591a

Disp. Cht. No. 1212-B

Department of Commerce and Labor
COAST AND GEODETIC SURVEY

O. H. Tittmann
Superintendent.

State: Maine ~~Connecticut~~

DESCRIPTIVE REPORT.

Hyd. *Sheet No.* 1591a

LOCALITY:
Vicinity of Six Mile Reef.
Long Island Sound
Eastern end

1911

CHIEF OF PARTY:

N. H. Heck, Assistant

1591a

Hydrographic Sheet "A" 1591a

Long Island Sound

Between Clinton, Conn. and Horton's Point, New York,

Showing Area dragged by Wire Drag Party

June 17-2 4, 1911

Chief of Party N. H. Heck, Assistant

Scale 1/20000

Highest tide observed-Reading on staff 6.5

Lowest " " " " " 1.8

Mean low water " " " 2.2

Observer, Horace H. Andrews, Hand

Officers.

N. H. Heck, Assistant, in charge

D. M. Kyle, Aid

H. T. Kelsh, D. O.

J. A. Daniels, D. O.

Descriptive Report to accompany sheet A, hyd.

The object of the work on this sheet was to find or prove the non-existence of a 19 foot shoal reported by Capt. James Monsell of Greenport, N. Y. On- in May 1910. The least depth found was 32 feet though the shoal was found to be more extensive than charted. The tide rips are very heavy at strength of tide and extend in its direction.

When seeing was not good enogh to work on the above shoal a portion of Six Mile Reef was dragged. It extends a little further south at its western end than charted.

Conclusions:

19 foot shoal is non-existent at point indicated. Probably the shoal found was Six Mile Reef or there was an error in the depth.

1591[a]

Plane table positions from Hyd. Sheet "A"

~~Duck~~

Object	Latitude	D. M.	Longitude	D. P.	Description A
Duck	41 ° 15'	631	72° 29"	670	Pole, neam Duck Id.
Cot	41 15	890	72 31	168	Cupola, Cottage, red Hammock Pt.
Chim	41 15	224	72 32	1150	Chimney, large house Hammonasset Pt.
Mill	41 16	662	72 32	100	Large Grey Windmill Clinton

Department of Commerce and Labor
COAST AND GEODETIC SURVEY
Form 21

STATISTICS OF FIELD WORK. 1591a

Statistics of field work executed by N. H. Heck, Assistant

Date and place of beginning field work	Clinton, Conn	June 17, 1911
Date and place of closing field work	Clinton, Conn.	June 24 1911
RECONNAISSANCE:		
Area of, in square statute miles		
Lines of intervisibility determined as per sketch submitted		
Number of points selected for scheme		
BASE LINES:		
Primary, length of		
Secondary, length of		
Beach measurements, length of		
Number of days employed in measurements of base		
Number of days employed in remeasurements		
TRIANGULATION:		
Area of, in square statute miles		
Signal poles erected, number of		
Observing tripods and scaffolds built, number of		
Observing tripods and scaffolds built, heights of		
Days occupied in opening and verifying lines of sight, number of		
Stations occupied for horizontal measures, number of		
Stations occupied for vertical measures, number of		
Geographic positions determined, number of		
Elevations determined trigonometrically, number of		
LEVELING:		
Elevations determined by leveling, number of		
Lines of leveling, length of		
LATITUDE, LONGITUDE, AND AZIMUTH WORK:		
Latitude stations occupied, number of		
Pairs of stars observed for latitude, number of		
Average number of observations on a pair		
Longitude stations, telegraphic, number of		
Longitude stations, telegraphic, number of nights on which signals were exchanged		
Longitude stations, chronometric, etc., number of		
Azimuth stations, number of		
Number of nights of observations for azimuth		
Number of stars observed for azimuth		
GRAVITY DETERMINATIONS:		
Number of pendulum stations occupied		

MAGNETIC WORK:

Land stations occupied for magnetic declination, number of	
Land stations occupied for magnetic dip, number of	
Land stations occupied for magnetic intensity, number of	
Sea stations occupied for magnetic declination, number of	
Sea stations occupied for magnetic dip, number of	
Sea stations occupied for magnetic intensity, number of	
Sea stations at which ship was completely swung, number of	
Magnetic observatory operated for declination variations, number of days	
Magnetic observatory operated for horizontal intensity variations, number of days	
Magnetic observatory operated for vertical intensity variations, number of days	
Magnetic observatory, absolute observations, number of days	
Magnetic observatory, seismological observations, number of days	
Magnetic observatory, atmospheric electricity observations, number of days	
Magnetic observatory, meteorological observations, number of days	

TOPOGRAPHY:

Area surveyed in square statute miles	
Length of general coast-line in statute miles	
Length of shore-line of rivers in statute miles	
Length of shore-line of creeks in statute miles	
Length of shore-line of ponds in statute miles	
Length of roads in statute miles	
Topographic sheets finished, number of	
Topographic sheets, scales of	

Topographic sheets, limits and localities of:

HYDROGRAPHY:

Area ~~sounded~~ dragged in square statute miles	3 1/2
Number of miles (statute) run while ~~sounding~~ dragging	20.5
Number of ~~positions determined (double angles)~~ angles observed	765
Number of soundings	13
Number of tidal stations established	1
Number of specimens of bottom preserved	-
Current stations, number of	
Hydrographic sheets finished, number of	1
Hydrographic sheets, scales of	1/80000

Hydrographic sheets, limits and localities of:

Long Id. Sound, ~~vicinity of~~ from Fulkner Id. to Rocky Point

PHYSICAL HYDROGRAPHY:

Number of soundings on cross-sections	
Current stations, number of	
Deep-sea current stations, number of	
Deep-sea surface current observations, number of	
Deep-sea subsurface current observations, number of	
Number of observations of density of water	
Number of observations of temperature of water	
Tidal stations established, number of	
Miles (statute) run in deep-sea sounding	
Number of deep-sea soundings	
Number of specimens of bottom preserved	

Locality of work; results, how shown, etc.:

Means of transportation (if vessel, give name):

Gasoline launches NILE and MESSENGER

VEC
Sep. 14, 1911

HYDROGRAPHIC SHEET 1591a.

Long Island Sound between Clinton, Connecticut, and Hortons Point, New York, by Asst. N. H. Heck in 1911.

TIDES.

	Clinton ft.
Mean low water, or plane of reference on staff	2.2
Lowest tide observed " "	1.6
Highest " " " "	7.4
Mean range of tide	4.7

Hyd. Sheet No 1591a Sept 22 1911.

At position 21c the drag struck set to an off. depth of 296 feet. An examination with the lead line at this point shows a depth of 34 feet.

The records were kept in a satisfactory manner

H L Simons