

4427

Form 504

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

....., Director

State: Mass.

DESCRIPTIVE REPORT

Topographic
~~Hydrographic~~

3A & 3B
Sheet No.

4427

LOCALITY

Marthas Vinyard

Edgartown and Oak Bluffs

1928

CHIEF OF PARTY

C.K. Green

GOVERNMENT PRINTING OFFICE

4427

DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET # 3A.

Instructions dated - August 1, 1928.

GENERAL DESCRIPTION OF COAST

The shoreline to the northward of Edgartown is low and sandy, with some spots of marshy ground.

The northwestern point of Chappaquiddick Island, directly across from Edgartown, is low and sandy, rising to grass covered bluffs or hills approximately fifty feet in elevation. These bluffs border on both sides of the channel or inner harbor south of Edgartown to Snows Point. There are also numerous summer homes, with their boat houses and landings on both sides of the harbor.

The waterfront at Edgartown has three main docks, - the steamer dock, the coal dock, and the Edgartown Yacht Club dock. In addition to these, there are numerous small boat landings which are more or less temporary.

LANDMARKS

There are no prominent landmarks other than the water tower south of Edgartown, which is already shown on the chart.

CHARACTER OF CONTROL

Signals Oak, Gab, Son, Fin, and the Water Tower, were located by sextant angles from Edgartown Spire, 1845, and Edgartown L.H. 1875, and checked with additional plane table cuts. The positions of these points were first computed using the angles as measured with the sextant.

Short traverses were run from signal Son to signal Fin and from Edgartown L.H. to signal Fin.

CLOSING ERRORS OF TRAVERSES RUN

No adjustment of traverses was necessary.

CHANGES IN PROMINENT FEATURES

No changes of any importance were found. Some of the docks and landings have been rebuilt and changed. A complete resurvey of these details was made. Numerous summer homes have been built up on either side of the harbor which are not shown by the original survey.

CHANGES IN COASTLINE

No appreciable changes in the coastline were noted. The low sandy point of Chappaquiddick Island is subject to slight changes and was found to have shifted about 10 meters to the southward. The shoreline at the limits of the survey coincides with that of the previous survey.

MISCELLANEOUS NOTES

No attempt was made to locate any buildings or streets back from the shoreline. It was found that the streets shown on the old survey agree with their present location.

A complete list of signals located and used, with a short description, is being included under the list of Plane Table Positions to facilitate the verifying of the Hydrographic Smooth Sheet.

The sheet now shows a distortion of about 3 meters per mile in both directions.


Carl F. Ehlers,
Jr. H. & G. Eng'r.

PLANE TABLE POSITIONS & TOPOGRAPHIC SIGNALS SHEET 3A

Object & Name	Latitude	D. M.	Longitude	D. P.	Height	Remarks & Description
	o ' "	Meters	o ' "	Meters		
Sine	41 - 23	1440	70 - 30	511	10	Small sign board.
Jak	41 - 23	916	70 - 30	640		White flagpole.
Eli	41 - 23	737	70 - 30	844		" "
Yot	41 - 23	565	70 - 30	967		Flagpole on end of Yacht Club Dock.
Chuc	41 - 23	411	70 - 30	1086		Flagpole on end of dock.
Sog	41 - 23	216	70 - 30	1108	15	S.Gable of small brown house.
Den	41 - 23	118	70 - 30	1010		Flagpole on club- house on dock.
Win	41 - 23	45	70 - 30	1090		Steel tower wind- mill.
Dor	41 - 22	1790	70 - 30	981	10	Green door in small white building.
Mat	41 - 22	1577	70 - 30	780		Chimney on house.
Lag	41 - 22	1421	70 - 30	743		Flagpole.
Mil	41 - 22	1298	70 - 30	788		Steel tower windmill.
Est	41 - 22	1345	70 - 30	670		E.Gable of Boat house.
So	41 - 22	1184	70 - 30	625		S.Gable of white Boat house.
Green	41 - 22	969	70 - 30	593	6	Regulation disc with banner signal.
Sob	41 - 22	843	70 - 30	534	5	Banner on end of dock.
Far	41 - 22	768	70 - 30	676		Steel tower windmill.
Water Tower	41 - 22	1278	70 - 31	254	158	Large steel water tank
Pit	41 - 22	770	70 - 30	201		Banner signal.
Sno	41 - 22	1013	70 - 30	381		" "
Chim	41 - 22	1218	70 - 30	317		Chimney on house.
Bol	41 - 22	1529	70 - 30	286	5	Large boulder on beach.
Jon	41 - 22	1755	70 - 30	342		Small flagpole on end of dock.
Val	41 - 23	73	70 - 30	455		Chimney on house.
Oak	41 - 23	114	70 - 30	372	48	Regulation disc.
Tower	41 - 23	90	70 - 30	349		Observation tower.

PLANE TABLE POSITIONS & TOPOGRAPHIC SIGNALS * SHEET 3A Con.-

Object & Name	Latitude	D. M.	Longitude	D. P.	Height	Remarks & Description
	o ' "	Meters	o ' "	Meters		
Cal	41 - 22	1587	70 - 29	1275		Banner Signal.
Hen	41 - 23	547	70 - 30	694		Flagpole on end of Shack.
Chap	41 - 23	416	70 - 30	411		Chimney on yellow house.
Vane	41 - 23	334	70 - 30	314		Weather on house.
Do	41 - 23	227	70 - 30	332		N.Gable large gray house.
Nor	41 - 23	134	70 - 30	146		Steel tower windmill.
Kez	41 - 23	39	70 - 29	973		Center of clubhouse.
Son	41 - 23	54	70 - 29	660		Signal.
Gab	41 - 23	323	70 - 29	135		S.Gable of new house.
Tin	41 - 23	323	70 - 30	515		N.W.Gable of tin covered boat house.
Fin	41 - 22	1021	70 - 30	624		Banner signal.

DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET #3B

Instructions dated - August 1, 1928.

GENERAL DESCRIPTION OF COAST

The yellow clay bluffs, extending southward from East Chop to the northern end of Lake Anthony, furnish a prominent landfall for Oak Bluffs and vicinity. These bluffs have an elevation of approximately fifty feet.

Between the southern end of the bluffs and Lake Anthony entrance, the shoreline is made up of sand beach.

The entrance to Lake Anthony is between rock jetties, with a width of about fifty yards. Bordering the lake, there are numerous small landings and houses. The north end of the lake is grassy with some marsh land.

From the entrance of Lake Anthony southward to the northern end of Harts Haven, a concrete retaining wall or sea wall has been built, fronting Oak Bluffs. There is a steamer dock, a group of bath houses, and two landings on this section of waterfront.

The shoreline surrounding and in the vicinity of Harts Haven is low and sandy. Harts Haven has an entrance at its northern end, protected by short wooden jetties.

LANDMARKS

There are no additions to landmarks.

CHARACTER OF CONTROL USED

Triangulation stations "Pond" and "Seaview House, flagpole" were located using recovered stations "Lagoon Heights water tower, 1904" and "East Chop L.H., 1904". Two cuts were obtained on "Lake Anthony Jetty Light" and its position also computed.

Traverses were run starting at "Pond", to the "Jetty Light" and from the "Jetty Light" to "East Chop L.H." The shoreline, docks, houses, etc., around Lake Anthony were located from a single set-up near the north jetty.

CLOSING ERRORS OF TRAVERSES RUN

No unusual traverse errors were obtained, and such minor adjustments that were found necessary, were made on the sheet.

CHANGES IN PROMINENT FEATURES

A slight difference in the location of the steamer landing was found. The landing is now about 5 meters to the northward of the old location and is not of the same length. All landings and docks and their present location are shown. Such docks that are shown on the chart and not on the accompanying sheet, are no longer in existence.

Attention is called to the change in streets and buildings in the area from the steamer landing to the entrance of Lake Anthony. Also the addition of the building on which signal "Cup" is shown. All buildings and their present location are shown in this area. The houses near the western side of Lake Anthony are also completely shown.

The hotel, shown on the chart just north of Lake Anthony, has been removed.

A difference was found in the location of Lake Anthony Jetty Light. The computed position shows it approximately 10 meters WxS of the present chart location.

CHANGES IN COASTLINE

No appreciable change in the coastline was found from East Chop to the entrance of Lake Anthony with the exception of the most northerly point of East Chop. This shows a recedence of about 15 meters. A small breakwater, made up of rip rap, has been placed at the point to prevent further erosion.

From the entrance of Lake Anthony southward, the coastline has receded in varying amounts, from 10 to 30 meters. A concrete sea wall, which is now at the high water line, has been built from the Lake Anthony entrance to the northern end of Harts Haven. Sand beach shows at various places along this wall, between high and low water.

Changes have been made at Harts Haven and an entrance cut through at the northern end. This entrance is approximately fifty yards wide. The entrance at the southern end, shown on the present chart, is now closed.

The shoreline on the western side of Lake Anthony was found to be 10 to 15 meters west of the shoreline shown on the present chart. However, its present location agrees very closely with that shown on Topographic Sheet #1802.

MISCELLANEOUS NOTES

The streets and roads shown on the sheet in pencil, were taken from the chart to show a junction between the recent work (shown in ink) and that of previous surveys.

A shrinkage of approximately 5 meters in both directions is now shown by this sheet.

A complete list of signals located and used, with a short note, is being included under the List of Plane Table Positions to facilitate the verifying of the Hydrographic Smooth Sheet.

Carl F. Ehlers

Carl F. Ehlers,
Jr. H. & G. Eng'r.

*This survey, and also that of Edgartown, conform to
general and specific instructions, and are adequate.*

E. P. Peck, Dec. 2, 1929.

PLANE TABLE POSITIONS & TOPOGRAPHIC SIGNALS * SHEET 3B

Object & Name	Latitude	D. M.	Longitude	D. P.	Height	Remarks & Description
	o ' "	Meters	o ' "	Meters		
Hed	41 - 28	448	70 - 34	151		White Flagpole.
Step	41 - 28	303	70 - 33	1177	8	Banner on lower end of row of steps.
Lob	41 - 28	90	70 - 33	1022	5	Boulder on beach.
Bol	41 - 28	63	70 - 33	1007	6	Banner.
Row	41 - 27	1636	70 - 33	870		North end of row of piles.
Con	41 - 27	1510	70 - 33	815	6	Outer end of large block of concrete.
Ney	41 - 27	1410	70 - 33	862		Chimney on house,
Age	41 - 27	1192	70 - 33	985		Flagpole on garage.
Jig	41 - 27	1078	70 - 33	1010		White flagpole.
Kat	41 - 27	990	70 - 33	1035		" "
Cap	41 - 27	805	70 - 33	903	15	Center of small per- gola or stand.
Stone	41 - 27	1042	70 - 33	704		N.W.corner of house.
Gas	41 - 27	942	70 - 33	778		Gas pump on dock.
Post	41 - 27	1053	70 - 33	662		N.E.corner of house.
Dol	41 - 27	931	70 - 33	407		Banner on S.E. dol- phin of steamer dock.
Cup	41 - 27	853	70 - 33	574		Eastern cupola of yellow casino.
Han	41 - 27	687	70 - 33	471		Cloth tied on hand rail of steps.
End	41 - 27	563	70 - 33	429		Flagpole on north end of bathhouses.
Lag	41 - 27	458	70 - 33	360		Flagpole on E.gable of building on dock.
Ban	41 - 27	280	70 - 33	283		Banner on outer end of dock.
Bluff	41 - 27	259	70 - 33	340	10	Topographic disc in wall.
Sig	41 - 27	94	70 - 33	308		Banner on telephone pole.
Nal	41 - 26	1771	70 - 33	273		Banner on telephone pole.
Monty	41-26	1637	70 - 33	305	2	South end of small breakwater.

PLANE TABLE POSITIONS & TOPOGRAPHIC SIGNALS - SHEET 3B Con.-

Object & Name	Latitude	D. M.	Longitude	D.P.	Height	Remarks & Description
	o ' "	Meters	o ' "	Meters		
Jet	41 - 26	1437	70 - 33	209		Outer end of south jetty.
In	41 - 26	1379	70 - 33	338		Inner " " " "
Gum	41 - 26	1118	70 - 33	403		N.E?corner of house.
Hart	41 - 26	936	70 - 33	383	3	Topographic disc set in dock.
Pen	41 - 26	675	70 - 33	490		S.E.corner of house.
Dor	41 - 26	705	70 - 33	458		Outer end of small dock.
Out	41 - 26	762	70 - 33	449		" " " " "
Hom	41 - 26	935	70 - 33	404		Chimney on house.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEYC. & G. SURVEY
L. & A.
MAY 25 1929
Acc. No.

REG. NO.

4427

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 Letter 3A 3B

REGISTER NO. 4427

State Massachusetts

General locality Martha's Vineyard

Locality Edgartown and Oak Bluffs

Scale 1 - 10,000 Date of survey September, 1928.

Vessel Launch Ogden & #66

Chief of Party Chas. K. Green

Surveyed by C. F. Ehlers

Inked by C. F. Ehlers

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

Contour Approximate contour Form line interval ----- feet

Instructions dated August 1, 1928.

Remarks: Revision Survey