

3836

C. & G. SURVEY
L. & A.
SEP 26 1921
Acc. No.

Form 504
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: *North Carolina*

11-5013

DESCRIPTIVE REPORT.

Isle Sheet No. **3836**

LOCALITY:

*Cape Hatteras -
Point of Cape to
Radio Station*

1921

CHIEF OF PARTY:

H. W. Humple

3836

REPORT TO ACCOMPANY TOPOGRAPHIC SHEET NUMBER

LIMITS:

The topography shown on this sheet to a scale of 1:5,000, covers the shore-line and vegetation for one-half mile inland, in the vicinity of Cape Hatteras, N.C., from the point of the Cape to about one-quarter mile north of the Cape Hatteras Wireless Station.

CONTROL:

Ample control was furnished by four triangulation stations: \triangle Cape Hatteras Life Saving Station, \triangle Cape Hatteras Light-house, \triangle Cape Hatteras Wireless Station, and \triangle Shore.

METHOD:

Starting from \triangle Shore a traverse was run, using the regular plane-table method, and locating the telegraph and telephone lines, and the roads running parallel to the shore-line. The following topographic signals were also located during the progress of this traverse: \odot Ex, \odot Old, \odot Bux, \odot Ton, and \odot Nor. This traverse was found to be out about two meters in azimuth, which was corrected for by swinging out the shore-line using \triangle Shore as a pivoting point. The roads running at right angles to the shore-line were sketched in from a sextant traverse, the distances being obtained by pacing.

CHARACTER OF THE TOPOGRAPHY:

The topography over the whole area covered is quite flat and uninteresting. The shore is sand and extends for perhaps seventy meters inland from the high-water mark, where grass is usually found. This grass in a number of instances runs into swamps. The swamps shown running in an easterly and westerly direction usually extend thru to the Pamlico Sound side of the island. Between these swamps woods are found consisting mostly of pine trees, which seldom attain a high growth. To the left of the Life Saving Station the Topography consists of small mounds of sand, between which are interspersed small growths of grass. Just to the west of the Wireless Station are found small sand hills with a thin growth of woods on them. These hills are quite low, being seldom over fifteen feet higher than the surrounding topography. The roads are very poor, being mere tracks formed by the passing traffic; no attempt seems to be made to keep the roads in good shape.

LANDMARKS:

The most conspicuous mark is of course the Light-house, arising to a height of 191 feet. It is a tower built of brick, and is painted black and white, spiral fashion.

The wireless masts are also quite conspicuous. There are two of these painted white, rising to a height of about 180 feet.

The Life Saving Station is a white building with a cupola atop, rising to a height of about fifty feet.

GENERAL NOTES:

The limits of the Light-house reservation, shown on the sheet by a dot and dash line, were scaled from a sheet in the possession of the light keeper. No monuments were found marking the boundaries of the reservation; and as no dimensions tying in the limits were given on the blue-print, the area shown is by no means authoritative.

The first building to the south of the Life Saving Station is the Radio Compass Station, operated by the U.S. Navy.

Just to the north of the Life Saving Station is a platform about fifteen foot square, on which is painted in large white numbers against a green background, "183" (which is the number of the Coast Guard Station here) and which serves as a guide mark for aviators.

The name of the town shown on Chart #1232 as "Trent", and which lies about four miles WSW of Buxton, has been changed to Frisco, N.C., and a post-office established there under that name.

The town of Buxton, of which the post-office, and a few scattered houses are shown, boasts of a population of about 500 inhabitants. Most of the able bodied men are fishermen, doing their fishing in Pamlico Sound mostly. There are several stores in the town, two churches, and a school-house. No foodstuffs are raised here except for a small amount of garden truck. Cattle of which there are horses, cows and a few goats, graze without restriction all over the Island. Ducks are found here in season, and hunting is good. A small deer has also been found in this vicinity, tho they are not numerous. After a heavy rain, snakes, especially mocassins, are quite plentiful; rattlesnakes are occasionally found too. Mosquitoes, "ticks", gnats, and flies are plentiful, especially when the wind is from a westerly direction. The drinking water used is rain-water, which is collected in reservoirs.

The stakes marking the location of the range marks established for the hydrographic work, are shown on the topographic sheet, by small red circles.

Respectfully submitted,

*H. W. Kempe,
Jr. Lt. & Lt., USN.*

PLANE TABLE POSITIONS

Name	Latitude	D. M.	Longitude	D. P.	Height	Remarks
NOR	35 - 16	Meters 85.5	75 - 30	meters 476.5	feet 180	Northeast tower wireless station
Flag	35 - 14	841.0	75 - 30	955.1		Flag-pole at Coast Guard station

AND REFER TO No. 9-VEC

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

SECTION OF FIELD RECORDS

REPORT ON TOPOGRAPHIC SHEET 3836

Surveyed in 1921

Chief of Party: H. W. Hemple. Surveyed by H. W. Hemple.

Inked by: H. W. Hemple.

1. The plan and character of the survey fulfill the requirements of the General Instructions.
2. The instructions for this work were given verbally, the work to be done in connection with the hydrographic survey of the same locality by Mr. Hemple. The plan and extent of the topographic survey satisfy these instructions.
3. The junction with the adjacent sheet is satisfactory.
4. No further surveying is required within the limits of the sheet, but it would have been desirable to have located the radio compass station and azimuth through same, if this had not already been done.
5. The character and scope of the surveying and field drafting are excellent.
6. Reviewed by E. P. Ellis, October, 1921.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 3836

State . North Carolina

General locality . Cape Hatteras

Locality ~~From the Point of the Cape to 1/2 mile N. of Cape Hatteras~~
Radio Wireless Station.

Chief of party H.W.Hemple, Jr. Hyd. & Geod. Engr.

Surveyed by . H.W.Hemple, Jr. Hyd. & Geod. Engr.

Date of survey August 18, 1921 to September 8, 1921.

Scale 1:5,000

Heights in feet above

Contour interval feet.

Inked by H.W.Hemple . . Lettered by

Records accompanying sheet (check those forwarded): Photographs,

Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet

Remarks: