H. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES

FEB 26 1936

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	Form 504 Ed. June, 1928				
	DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY				
	R. S. Patton , Director				
	·				
	State: New Jersey				
	DESCRIPTIVE REPORT				
GRA	GRAPHIC CONTROL Sheet No. N				
	LOCALITY				
	Little Egg Harbor, N.J.				
	Tuckerton -				
	Edge Core to Storey Island				
	,				
	193 5				
	CHIEF OF PARTY				
	Benjamin H. Rigg.				

Grantle Control

DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY

LIBRARY AND ARCHIVES

FEB 26 1936

Acs. No.

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.

register No. T6400 a

State New Jersey
General locality Little Egg Harbor
ocality. Tuckerton Edge Core to Storey Island =
Scale 1/10,000 Date of survey June , 19.35
Vessel Party No. 19
Chief of party. Benjamin H. Rigg
Surveyed by A. M. Rogers, Jr.
Inked by
Heights in feet aboveto ground to tops of trees
Contour, Approximate contour, Form line intervalfeet
Instructions dated May 16 , 19 35
Remarks: No hydrography done.

DESCRIPTIVE REPORT TO ACCOMPANY GRAPHIC CONTROL SHEET N

Outline

- 1. INSTRUCTIONS.
- 2. PURPOSE.
- 3. LIMITS OF SHEET.
- 4. DESCRIPTION OF TERRITORY.
- 5. CONTROL.
- SURVEYING METHODS USED.
- 7. PERMANENT STATIONS ESTABLISHED.
- 8. AIDS TO NAVIGATION AND LANDMARKS.
- 9. TOPOGRAPHIC FEATURES LOCATED FOR USE IN AIR PHOTO COMPILATION.
- 10. OLD TRIANGULATION STATIONS SEARCHED FOR.

DESCRIPTIVE REPORT TO ACCOMPANY GRAPHIC CONTROL SHEET N

INSTRUCTIONS

The survey was carried out under instructions dated May 16, 1935.
PURPOSE

The purpose of the survey was to locate topographic control for hydrography, to establish permanent stations, locate aids to navigation and check landmarks, and to locate topographic features for use in the air photo compilation.

LIMITS OF SHEET

The topography on sheet N includes the territory around Little Egg
Harbor from the N.E. corner of Great Bay (Lat. 39° \$2', Long. 74° 20')
on the S.E. corner of the sheet northeastward to Lat. 39° 35', Long. 74° 17'
in Little Egg Harbor. It extends on the S.W. to Lat. 39° 33', Long 74° 22'
about one-half mile south of Tuckerton Radio Station. The Tuckerton Radio
Marine Station (Lat. 39° 36'.5, Long. 74° 20') is at the N.W. corner of the sheet. The sheet includes the village of Tuckerton.

DESCRIPTION OF TERRITORY

The Tuckerton Yacht Club, Headquarters for many small fishing and pleasure craft, may be reached by a well marked channel. There are facilities here for docking and refuelling. A good road leads from the Yacht Club to the village of Tuckerton where supplies may be obtained. The portion of Little Egg Harbor and surrounding territory covered by sheet "N" are entirely similar to that described in a descriptive report accompanying sheet "L".

CONTROL

The following triangulation stations were used as control on sheet "N":

TUCKERTON RADIO TOWER Meaney 1932
TUCKERTON RADIO Meaney 1932
BAY Rigg 1935
SHEEPHEAD ""

STORY ""

JESSIE ""

SURVEYING METHODS USED

The hydrographic signals on sheet "N" were located by graphic triangulation. The survey was started by set-ups on triangulation stations

JESSIE and STORY, using Tuckerton Radio Tower for orientation. Cuts were

taken to hydrographic signals from these stations and patches of shoreline

were obtained at the same time. The survey was completed by making set-ups
on or near hydrographic signals. Shoreline was obtained at the proper

intervals to give an adequate check between the Air Photo Compilation and
the Control Sheet. The Tuckerton Yacht Basin and the Tuckerton Yacht Club

were located for use in the air photo compilation. Cuts were taken to
Bolstad's fourth order stations falling within the limits of the sheet.

For a discussion of checks on these stations see paragraph "7-C" of this

report.

PERMANENT STATIONS ESTABLISHED

A. Natural Objects Located and Described.

The center of the roof of the Tuckerton Yacht Club was located and described on form 524. It is designated on the control sheet by the letter "D".

B. Monumentad Stations.

No permanently marked H. & T. Stations were established on sheet "N".

C. Bolstad Fourth Order Stations. -- All or Bolstad's "Lith order" stations (located for Air Photo Compilation Control) falling within the limits of the graphical control sheets were plotted. Wherever possible, they were checked with the planetable. In the few cases where discrepancies occurred, they were adjusted by re-checks of the computations or of the topography, or both. The final position as shown on the sheet and the card, is to be considered correct.

Following is a list of stations falling on sheet "N":

Station	Whether or Not Checked	Amt. of Discrep.	Remarks
N. GAB. LARGER	NOT CHECKED	checked on she	
n n WALK	n n	Also on sheet	R
MARSH	n n		
FLAGPOLE FIRE HOUSE U.S.	g. n n		
E.R.A. 2259	n n		
N. GAB. SMALL SHACK	CHECKED		
WILLET	n		
N. RAD POLE	n .		
REAR RANGE	"		
FRONT RANGE	n		
TUCKERTON W.T.	н .	Slightly more th	nan Bolstad's pos. considered good
" M.E. CHURCH	u	n n n	because of flat
E. RADIO MARINE	11	n n	of cuts on con- trol sheet.
WEST GAB. (EDGE COVE)	11	n 11 11	

AIDS TO NAVIGATION AND LANDMARKS

For a discussion of aids to navigation see corresponding paragraph in descriptive report accompanying sheet "M". All lighted aids to navigation falling on sheet "N" have been submitted on form 567. A point on the range leading to Tudkerton Yacht Club Basin was located on the control sheet and designated with a small black circle marked "Point on Range". The azimuth of the range was determined, marked on the sheet, and noted on form 567. Computed value 324° 24'; Scaled value 323° 20'.

The Tuckerton Water Tank and the Tuckerton Radio Beacon are the only landmarks appearing on the present charts in the area covered by this sheet. These landmarks are still in place. No new landmarks should be added to the charts.

TOPOGRAPHIC FEATURES LOCATED FOR USE IN THE AIR PHOTO COMPILATION

Patches of shoreline, the Tuckerton Yacht Basin, and the Tuckerton Yacht Club were located for use in the air photo compilation. No discrepancies of more than five meters occurred between the control sheet and the compilation. No adjustments were made on the topographic sheet. In the case of discrepancies, all of which were under five meters, the compilation was changed to agree with the control sheet.

OLD TRIANGULATION SEARCHED FOR

CEDAR HUMMOCK 2

J. Farley 1867 - Not found.

EZRA

" 1866 " ¹

GEOGRAPHIC NAMES

See air photo compilation for details.

Respectfully submitted,

A. M. Rogers, Jr.

Forwarded by,

Lt. Benjamin H. Rigg, Chief of Party.

INVERSE POSITION COMPUTATION

 $s_{1} \sin \left(\alpha + \frac{\Delta \alpha}{2}\right) = \frac{\Delta \lambda_{1} \cos \phi_{m}}{\Lambda_{m}}$ $s_{1} \cos \left(\alpha + \frac{\Delta \alpha}{2}\right) = \frac{-\Delta \phi_{1} \cos \frac{\Delta \lambda}{2}}{B_{m}}$ $-\Delta \alpha = \Delta \lambda \sin \phi_{m} \sec \frac{\Delta \phi}{2} + F(\Delta \lambda)^{3}$

in which $\log \Delta \lambda_1 = \log (\lambda' - \lambda)$ -correction for arc to sin*; $\log \Delta \phi_1 = \log (\phi' - \phi)$ -correction for arc to sin*; and $\log s = \log s_1 + \cos t$ correction for arc to sin*.

		NAME O	F STATION	
	1. φ 2. φ'		t_Range $\frac{\lambda}{\lambda'}$	74 20 31.930
	$\Delta \phi \ (=\phi'-\phi)$ $\Delta \phi$	+06.112 03.056	$\frac{\Delta\lambda}{2} (=\lambda' - \lambda)$	+ 05.864 02.932
	$\phi_{\rm m} \left(= \phi + \frac{\Delta \phi}{2} \right)$ $\Delta \phi \text{ (secs.)}$	39 34 48,946	Δλ (secs.)	
	log Δφ cor. arc-sin	0.786 1833	log ∆λ cor. arc—sin	0.768 1940
;	$\frac{\log \Delta \phi_1}{\log \cos \frac{\Delta \lambda}{2}}$	0.786 1833	log Δλ ₁ Log cos φ _m	0.768 1940 9.886 9041
	$\begin{array}{c} \textbf{colog B}_{m} \\ \textbf{log} \left\{ s_{1} \cos \left(\alpha + \frac{\Delta \alpha}{2} \right) \right\} \end{array}$	1.489 1162 (opposite in sign to Δφ)	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1.490 8709 2.145 9690 2.275 2995
	$\log \Delta \lambda$ $\log \sin \phi_m$	0.768 194 3 log Δλ 9.804 2472 log F	$\log \tan \left(\alpha + \frac{\Delta \alpha}{2}\right)$ $\alpha + \frac{\Delta \alpha}{2}$	9 870 6695
	$\log \sec \frac{\Delta \phi}{2}$	log b	$\frac{2}{\log \sin \left(\alpha + \frac{\Delta \alpha}{2}\right)}$ $\log \cos \left(\alpha + \frac{\Delta \alpha}{2}\right)$. 1/43 2/4 28
	log a a	0.572 1412	log s ₁	+
•	-Δα (secs.)	03.74	log s	
	$-\frac{\Delta \alpha}{2}$ $\alpha + \frac{\Delta \alpha}{2}$ $\alpha \text{ (1 to 2)}$ $\Delta \alpha$	143 24 28.0 143 24 30.0	* Use the table on the arc to sin.	back of this form for correction of
		180 323 24 26.0	323° 20' (Scaled	from Sheet by Protractor)

Note.—For log s up to 4.52 and for $\Delta\phi$ or $\Delta\lambda$ (or both) up to 10', omit all terms below the heavy line except those printed (in whole or in part) in heavy type or those underscored, if using logarithms to 6 decimal places.

Table of arc-sin corrections for inverse position computations

		_			·				
log sı	Arc-sin correction in units of fseventh decimal of logarithms	log Δφ or log Δλ	log s₁	Arc-sin correction in units of seventh decimal of logarithms	log Δφ or log Δλ	log sı	Arc-sin correction in units of seventh decimal of logarithms	log Δφ or log Δλ	
4. 177	1	2. 686	5. 223	124	3. 732	5. 525	497	4. 034	
4. 327	2	2. 836	5. 234	130	3. 743	5. 530	508	4. 039	
4. 415	3	2. 924	5. 243	136	3. 752	5. 534	519	4. 043	
4. 478	4	2. 987	5. 253	142	3. 762	5. 539	530	4. 048	
4. 526	5	3. 035	5. 260	147	3. 769	5. 543	541	4. 052	
4. 566	6	3. 075	5. 269	153	3. 778	5. 548	553	4. 057	*,
4. 599	7	3. 108	5. 279	160	3. 788	5. 553	565	4. 062	
4. 628	8	3. 137	5. 287	166	3. 796	5. 557	577	4. 066	
4. 654	9	3. 163	5. 294	172	3. 803	5. 561	588	4. 070	
4. 677	10	3. 186	5. 303	179	3. 812	5. 566	600	4. 075	
4. 697	11	3. 206	5. 311	186	3. 820	5. 570	613	4. 079	
4. 716	12	3. 225	5. 318	192	3. 827	5. 575	625	4. 084	
4. 734	13	3. 243	5. 326	199	3. 835	5. 579	637	4. 088	
4. 750	14	3. 259	5. 334	206	3. 843	5. 583	650	4. 092	
4. 765	15	3. 274	5. 341	213	3. 850	5. 587	663	4. 096	
4. 779	16	3. 288	5. 349	221	3. 858	5. 591	674	4. 100	•
4. 792	17	3. 301	5. 356	228	3. 865	5. 595	687	4. 104	
4. 804	18	3. 313	5. 363	236	3. 872	5. 600	702	4. 109	
4. 827	20	3. 336	5. 369	243	3. 878	5. 604	716	4. 113	
4. 857	23	3. 366	5. 376	251	3. 885	5. 608	729	4. 117	
4. 876	25	3. 385	5. 383	259	3. 892	5. 612	743	4. 121	و در
4. 892	27	3. 401	5. 390	267	3. 899	5. 616	757	4. 125	
4. 915	30	3. 424	5. 396	275	3. 905	5. 620	771	4. 129	
4. 936	33	3. 445	5. 403	284	3. 912	5. 624	785	4. 133	
4. 955	36	3. 464	5. 409	292	3. 918	5. 628	800	4. 137	
4. 972 4. 988 5. 003 5. 017 5. 035	39 42 45 48 52	3. 481 3. 497 3. 512 3. 526 3. 544	5. 415 5. 422 5. 428 5. 434 5. 440	,300 309 318 327 336	3. 924 3. 931 3. 937 3. 943 3. 949	5. 632 5. 636 5. 640 5. 644 5. 648	814 829 845 861 877	4. 141 4. 145 4. 149 4. 153 4. 157	1
5. 051	56	3. 560	5. 446	345	3. 955	5. 652	893	4. 161	
5. 062	59	3. 571	5. 451	354	3. 960	5. 656	909	4. 165	
5. 076	63	3. 585	5. 457	364	3. 966	5. 660	925	4. 169	
5. 090	67	3. 599	5. 462	373	3. 971	5. 663	941	4. 172	
5. 102	71	3. 611	5. 468	383	3. 977	5. 667	957	4. 176	
5. 114 5. 128 5. 139 5. 151 5. 163	75 80 84 89 94	3. 623 3. 637 3. 648 3. 660 3. 672	5. 473 5. 479 5. 484 5. 489 5. 495	392 402 412 422 433	3. 982 3. 988 3. 993 3. 998 4. 004	5. 671 5. 674 5. 678	973 989 1005	4. 180 4. 183 4. 187	•
5. 172 5. 183 5. 193 5. 205 5. 214	98 103 108 - 114 119	3. 681 3. 692 3. 702 3. 714 3. 723	5. 500 5, 505 5. 510 5. 515 5. 520	443 453 464 474 486	4. 009 4. 014 4. 019 4. 024 4. 029			·	

U. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES

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FORM 504 Rev. April 1935 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Topographic Sheet No. N.	
	,
StateNew Jersey	
LOCALITY	
Little Egg Harbor	
Tuckerton	
193 6	
CHIEF OF PARTY	
John A. Bond	<u> </u>
U. S. GOVERNMENT PRINTING OFFICE	ļ
1410111000	
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SUPPLEMENTAL REPORT

To Accompany Graphic Control Sheet N. 764000

Little Egg Harbor - Tuckerton

INSTRUCTIONS

The graphic control on sheet N is a part of Project HT-205, the instructions for which were dated May 16, 1935.

GENERAL INFORMATION

This sheet was surveyed in June 1935 under Lieutenant B. H. Rigg but the hydrography was not completed in this area. In June 1936 all old signals that could be recovered were re-built and additional signals located.

LANDMARKS FOR CHARTS

A list of landmarks for charts will be sumitted in a separate report.

The W. RADIO MARINE TOWER 1936 has only 2 cuts but as this pair of towers are prominent, the west tower was located so that both towers could appear as landmarks.

NON-FLOATING AIDS TO NAVIGATION

All non-floating aids to navigation on this sheet are at same location as given in 1935.

RECOVERABLE TOPOGRAPHIC STATIONS

No new recoverable topographic stations were located in 1936.

SHORELINE

No shoreline was rodded in 1936.

Hohan-

Submitted by,

D. M. Watt

Approved by,

John A. Bond

H. & G. Engineer Chief of Party

M-189

Date of Review 3/3/37 3/30/37

- 1. This survey has been reviewed in connection with Air Photo Compilation Nos. T-5445, 5447, with particular attention to the following details:
 - (a) Projection has been checked in the Field.
 - (b) Accuracy of location of plane table control points.
 - (c) Discrepancies between detail on this survey and the air photo compilations listed above.
 - (d) Discrepancies found in descriptions submitted on Form 524 when compared with the air photo compilations listed above.
- 2. Refer to the reviews and descriptive reports of air photo compilations Nos. T-5445, 5447, for a more complete discussion of any errors or discrepancies found.

Any material errors found on this survey are noted in subsequent paragraphs of this review, and these have been reported to the Field Records Section and the Cartographic Section.

Notes and corrections resulting from the review are shown on this survey in green.

F.R. Tollon

		Acs, No.
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) -	Form 504 Ed. June, 1928	-
	DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY	· · · · · · · · · · · · · · · · · · ·
	R. S. Patton, Director	
•		
	State: New Jersey	
	DESCRIPTIVE DEDCOT	
	DESCRIPTIVE REPORT	
GR	APHIC CONTROL Sheet No. 0	
1		
	LOCALITY	
	Little Egg Harbor, N.J.	
	Parch Hamm Tulet	· · · ·
	Beach Haven Inlet	the second secon
	1935	
		· · · · · · · · · · · · · · · · · · ·
	CHIEF OF PARTY	
		<u> </u>
	Benjamin H. Rigg	pr
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Form 537a, Ed. Nov. 1929

DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY

E. S. COAST & GEODETIC SURVEY
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FEB 26 1936

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TOPOGRAPHIC TITLE SHEET

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ACS.	9.4	

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

Field No....O

REGISTER NO. $T_{coo}^{64}C_{b}^{0}$ b
State New Versey
General locality Little Egg Harbor
Locality Beach Haven Inlet
Scale 1/10,000 Date of survey June , 19.3
Vessel Party No. 19
Chief of party Benjamin H. Rig
Surveyed by A. M. Rotters, Jr.
Inked by T. B. Nutting
Heights in feet aboveto ground to tops of tree
Contour, Approximate contour, Form line intervalfeet
Instructions dated
Remarks: Hydrography completed.

DESCRIPTIVE REPORT TO ACCOMPANY GRAPHIC CONTROL SHEET O

Outline

- 1. INSTRUCTIONS.
- 2. PURPOSE.
- 3. LIMITS OF SHEET.
- 4. DESCRIPTION OF TERRITORY.
- 5. CONTROL.
- 6. SURVEYING METHODS USED.
- 7. PERMANENT STATIONS ESTABLISHED.
- 8. AIDS TO NAVIGATION AND LANDMARKS.
- 9. TOPOGRAPHIC FEATURES LOCATED FOR USE IN AIR PHOTO COMPILATION.

DESCRIPTIVE REPORT TO ACCOMPANY GRAPHIC CONTROL SHEET O

INSTRUCTIONS

The survey was carried out under instructions dated May 16, 1935. PURPOSE

The purpose of the survey was to locate topographic control for hydrography, to establish permanent stations, to locate Aids to Navigation and check Landmarks, and to locate topographic features for use in the Air Photo Compilation.

LIMITS OF SHEET

The territory covered by sheet 0 includes the ocean beach from just south of Beach Haven Inlet (Lat. 39° 30.5', Long. 74° 17') northeastward past the inlet to Beach Haven (Lat. 39°34', Long. 74° 14.3'). It extends westward to the N.E. corner of Great Bay, in S.W. corner of sheet, and to a point in Little Egg Harbor (Lat. 39° 34', Long. 74° 17'), in the N.W. corner of the sheet.

DESCRIPTION OF TERRITORY

The terrotory covered by sheet 0 includes the southern part of the village of Beach Haven, described in report on sheet M. It also includes the New Jersey inland waterway from Beach Haven southward beyond Beach Haven Inlet. There are numerous islands in Little Egg Harbor to the westward of the waterway. Beach Haven Inlet is a critical place in the waterway because of the choppy seas sometimes encountered here, and the rapid shifting of shoals to the westward of the inlet.

SURVEYING METHODS USED

Hydrographic signals were located by graphic triangulation. The survey was started by set-ups on triangulation stations BONDS, POLE, BARREL, LITTLE EGG 2, STORY, AND SHEEPHEAD. Patches of shoreline were run in

at intervals in conjunction with the other work. The high water line along the ocean beach from the north side of Beach Haven Inlet to the northern limit of the sheet was located by running a traverse from triangulation station BONDS to triangulation station BEACH HAVEN. An adjustment of three meters was necessary in this traverse. A point on the traverse at the northern limit of the sheet was transferred to sheet M, from which the traverse was continued up the beach. (See report on sheet M). The bridge just east of triangulation station SHEEPHEAD, with its approaches was located from a set-up determined by a rod reading from station SHEEP*
HEAD, checked by resection on triangulation station STACK, STORY ISLAND.

The following triangulation stations were used as control on sheet 0:

	BEACH HAVEN	Meaney	1932
	St. JAMES	11	. 11
	BONDS	"	n
	SHEEPHEAD	Rigg 19	35
	INLET	11 11	
	POLE	11 11	
	STORY	11 11	
	BARREL	11 11	
	STACK STORY ISLAND	Bernstein 15	24
PERMANENT	BONDS C.G. CUPOLA LITTLE EGGZ STATIONS ESTABLISHED	RIGG 19	

A. Monumented Stations. -- The following Department of Commerce and Navigation, State of New Jersey, monuments were recovered, located, and described:

MEADOW C. & N.
FISH C. & N.
SAND C. & N.
DUNE C. & N.

B. Natural Objects Located. --

E. H. Bernstein 1924

TOW (Topographic Stations)

C. Bolstad's Fourth Order Stations. -- All of Bolstad's

"4th" order stations (located for Air-Photo Compilation Control) falling

within the limits of the graphical control sheets were pletted. Wherever possible, they were checked with the planetable. In the few cases where discrepancies occurred, they were adjusted by re-checks of the computations or of the tepography, or both. The final position as shown on the sheet and the card, is to be considered correct.

Following is a list of stations falling on sheet "O":

Station

LAKE SIGNAL

Whether or Not Checked

Amt. of Discrep. Remarks

Not Checked

Not found.

END POLE (CABLE CROSSING) Checked

S. GAB. SHEEPHEAD THORO.

*SHEEPHEAD

Not shown on sheet.

ENGLESIDE CUPOLA

S.W. GAB. MIDDLE I.

Not Checked

CENTER OF HOUSE BARREL I. Not Checked Sea 1435 Detar new

Not plotted on sheet. Form 524 with Bolstad's triangulation computation.

*Note -- Bolstad's SHEEPHEAD, 1935 -- This station SHEEPHEAD was a temporary station established by Bolstad for control of Air Photographs only. Itslocation was checked by graphic control methods but neither its position nor descriptiom are being forwarded with this sheet for fear of confusing it with triangulation station SHEEPHEAD 1935, established by. Rigg about 400 meters away. Form 524 for Bolstad's SHEEPHEAD showing its position will be found with his fourth order computations along with numerous other Bolstad stations that fall outside the limits of the Graphic Control Sheets. The card is marked "Not For Files But For Use In Checking Aerial Compilation Only".

> D. Stations searched for and not found. --Topographic stations of E. H. Bernstein 1924.

Natural Ol	iects
------------	-------

Hydrographic Disks

SED LIE	REK (Washed Out) CAN " "
TRE	MID " "
KEY	IS " "
PAR	TIE " " ·
WHO	END (Dug for but could not
	locate)
	HI (NOT FOUND, POSSIBLE STILL
	THERE)

Department of Commerce & Navigation Marks

It is considered that a sufficient number of these marks has been recovered on this sheet. There is listed below additional Commerce & Navigation Marks falling within the area of this sheet that were searched for and not found. As the only information that we had concerning these stations was their approximate positions spotted on a section of chart, there is a possibility that many of them are still in place.

BAR C. & N	${\tt GRASSY}$	C. & N.
FACT "	BARREL	tī
ISLE "	THORO	31
HITHER"	FARE	17
POINT "	KEG	11

AIDS TO NAVIGATION AND LANDMARKS

For a discussion of aids to navigation see corresponding paragraph in descriptive report accompanying sheet M. All lighted aids to navigation falling on sheet "O" have been submitted on form 567.

The only landmark on the present charts in the area covered by this sheet is a prominent brick stack on Story Island. This is a prominent landmark and should be retained on the charts. It was cut in by triangulation by this party in 1935. No new landmarks should be added.

TOPOGRAPHIC FEATURES LOCATED FOR USE IN AIR PHOTO COMPILATION

The high water line along the ocean beach was located from Beach Haven southward to a point about a quarter of a mile south of Beach Haven Inlet.

The boardwalk and fishing pier at Beach Haven were also located, together with patches of shoreline to the westward of the New Jersey Inland Waterway. There was considerable discrepancy in the shoreline along the ocean beach. The compilation was changed here to agree with the control sheet.

GEOGRAPHIC NAMES

See air photo compilation for details.

Respectfully submitted,

A. M. Rogers, Jr.

Forwarded by,

Lt. Benjamin H. Rigg,
Chief of Party.

U. S. COAST & GEODETIC SUP-VEY LIBRARY AND ARCHIVES

DEC 28 1936

Age No

Form 504 Rev. April 1935 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY **DESCRIPTIVE REPORT** Topographic] StateNew Jersey..... LOCALITY Little Egg Herbor Beach Haven Inlet *193* 6 CHIEF OF PARTY John A. Bond D. S. GOVERNMENT PRINTING OFFICE

SUPPLEMENTAL REPORT

To Accompany Graphic Control Sheet O The Goob

Little Egg Harbor, Beach Haven Inlet

INSTRUCTIONS

The graphic control on sheet 0 is a part of Project HT-205, the instructions for which were dated May 16, 1935.

GENERAL INFORMATION

This sheet was surveyed in June 1935 under Lieutenant B. H. Rigg but the hydrography was not completed in this area. In June 1936 all old signals that could be recovered were re-built and new signals located.

LANDMARKS FOR CHARTS

A list of landmarks for charts will be submitted in a separate report.

NON-FLOATING AIDS TO NAVIGATION

- (1) The range shown on this sheet is determined by beacons that were located on graphic control sheet M. These beacons were described in the report for sheet M.
- (2) In this area, where the hydrography was partially completed in 1935, the lights were destroyed in the winter of 1935-36. In these instances the word "light" and its number have been removed from the sheet leaving only the hydrographic names and noted as "Destroyed 1936".
- (3) These lights are temporary, being mounted on single piles approximately 10 inches in diameter and approximately 10 feet above high water. Late in the fall the lights are removed and the piles are usually destroyed during the winter. It is doubtful as to whether the positions and numbers of the lights as shown in the summer of 1936 will be reliable data for charting purposes after the winter of 1936-37.

SHORELINE

The shoreline around Beach Haven Inlet has changed considerably since June 1935.

The area southwest of triangulation station BONDS 1932, between the line indicated as H.W.L. at extreme Spring tides and the long sand spit, is very flat and is partially covered at high tides. A difference of 6 inches in the height of high tide would change the shoreline many meters. All this area is bare at low tide.

RECOVERABLE TOPOGRAPHIC STATIONS

Eight new recoverable topographic stations were located. These stations are described on Form 524.

SURVEY METHODS

Standard Coast Survey methods were used throughout. Signals were located by intersection and resection. Distances along the traverses were determined by resection.

Submitted by,

Dm. Watt

D. M. Watt

Approved by

John A. Bond H. & G. Engineer

Chief of Party

SUPPLE ENTAL REPORT

GRAPHIC CONTROL SHEET O

Little Egg Harbor, Beach Haven Inlet

EXTENT

Additional shoreline was rodded in general locality of Lat. 39°33.5', Long. $74^{\circ}17'$ and includes all of the inked shoreline to the east of triangulation station Stony, north of triangulation station Pole and west of topo signal Keg.

l'ETHOD

Three point fixes were used entirely in controlling the topography in this area.

PURPOSE

This additional work was done after the completion of the hydrography for the following reasons:

- a. To locate islands not shown on the air-photo compilation.
- b. To correct discrepancies in the location of signals "S.W. Gable Hither Island 1935" and "S.W. Gable Mid Island 1935".
- To locate shoreline shown on the air-photo compilation as a dashed line.

GETERAL

The marsh grass outside of the high water line near signal Age is scattered tuffs growing on a low mud flat which is covered at high water.

Signals "Age" and "Is" are non-existent.

The discrepancies in this area drebelieved to be due mainly to misinterpretation of the air-photographs.

The hydrographic signals "S.W. Gable Fither Island 1935" and "S.W. Gable Mid Island 1935" were relocated. These gables are on low shacks of the "many gable type". It is believed that the 1935 locations were obtained from cuts at distant triangulation stations where the topographer could not identify the correct gable. They are now shown correctly on the sheet. Descriptions on form 524 are resubmitted for these two stations.

Submitted by.

L. D. Graham

Approved

H. & G. Ungineer Chief of Party

Edmund L. Jones

Aid, U.S.C.& G.S.

REVIEW OF GRAPHIC CONTROL SURVEY T- 6400 b , SCALE 1:10,000,

Date of Review 3/3/37

- 1. This survey has been reviewed in connection with Air Photo Compilation Nos. T-5445, , with particular attention to the following details:
 - (a) Projection has been checked in the Field.
 - (b) Accuracy of location of plane table control points.
 - (c) Discrepancies between detail on this survey and the air photo compilations listed above.
 - (d) Discrepancies found in descriptions submitted on Form 524 when compared with the air photo compilations listed above.
- 2. Refer to the reviews and descriptive reports of air photo compilations Nos. T-5445, , for a more complete discussion of any errors or discrepancies found.
 - Any material errors found on this survey are noted in subsequent paragraphs of this review, and these have been reported to the Field Records Section and the Cartographic Section.
 - Notes and corrections resulting from the review are shown on this survey in green.

JR Jollon___

FORM M-238

MEMORANDUM IMMEDIATE ATTENTION

SURVEY)		received DEC 2.8 1936 registered JAN 9 1937
DESCRIPTIVE REPORT	No. H	√ verified
PHOTOSTAT OF	No. T 6490 b Additional work	reviewed approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

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