

# 12134

Diag. Cht. No. 1219.

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
<b>DESCRIPTIVE REPORT</b>	
Type of Survey	Shoreline
Field No.	Ph-6105
Office No.	T-12134
<b>LOCALITY</b>	
State	Delaware
General locality	Atlantic Coastline
Locality	Bethany Beach
<u>19 61</u>	
<b>CHIEF OF PARTY</b>	
J.K.Wilson, Photo. Party No. 720	
J.E.Waugh, Div. of Photo. Wash., D.C.	
<b>LIBRARY &amp; ARCHIVES</b>	
DATE	December 1967

USCOMM-DC 5087

# 12134

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Job PH-6105  
T-12134

Map T-12134 is one of three shoreline maps comprising Job PH-6105. For the most part, survey records could not be found for this map at the time of final review.

A detailed account of available information concerning the job is included in the Summary to Accompany Descriptive Reports (T-12130, T-12131 and T-12134) -- copy bound with this report.

*D. H. Blankenship*  
*August 1967*

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Job PH-6105  
SUMMARY TO ACCOMPANY DESCRIPTIVE REPORTS  
T-12130, T-12131 (combined) and T-12134

August 22, 1967

Originally this job was comprised only of shoreline surveys T-12131 and T-12134. These maps, based on a 1961 stereoplanigraph bridge, were compiled in 1961 in the Baltimore office in support of a John Hopkins University research work (refer to project instructions dated June 19, 1961, included in the Descriptive Report).

Additional project work, for which no written instructions exists was done in the Washington office in 1962. The new work included the revision of T-12131 and the compilation of T-12130. Available at this time were the results of an analytic bridge, covering the areas of T-12130 and T-12131, accomplished for Job PH-6107, a 1:40,000 scale chart topography job.

No datum differences were found to exist between the 1961 and 1962 bridges in the common area (eastern half of T-12131). Maps T-12130 and T-12131 were reduced and applied to the manuscript for T-12509, scale 1:40,000 (PH-6107). The outer coast area of T-12509 was revised from 1964 photography -- not available for PH-6105 compilation.

Project field work (maps T-12131 and T-12134) consisted only of the identification of horizontal control and the identification of landmarks and aids. There are differences in landmark elevations between the Forms 567 submitted for Job PH-6107 and the field data shown on photographs submitted for Job PH-6105. Landmarks and aids were not mapped on T-12509 (PH-6107) as explained in project instructions dated May 27, 1966. A copy is included in the Descriptive Report for T-12509. Landmarks and aids were located during bridging for Job PH-6105.

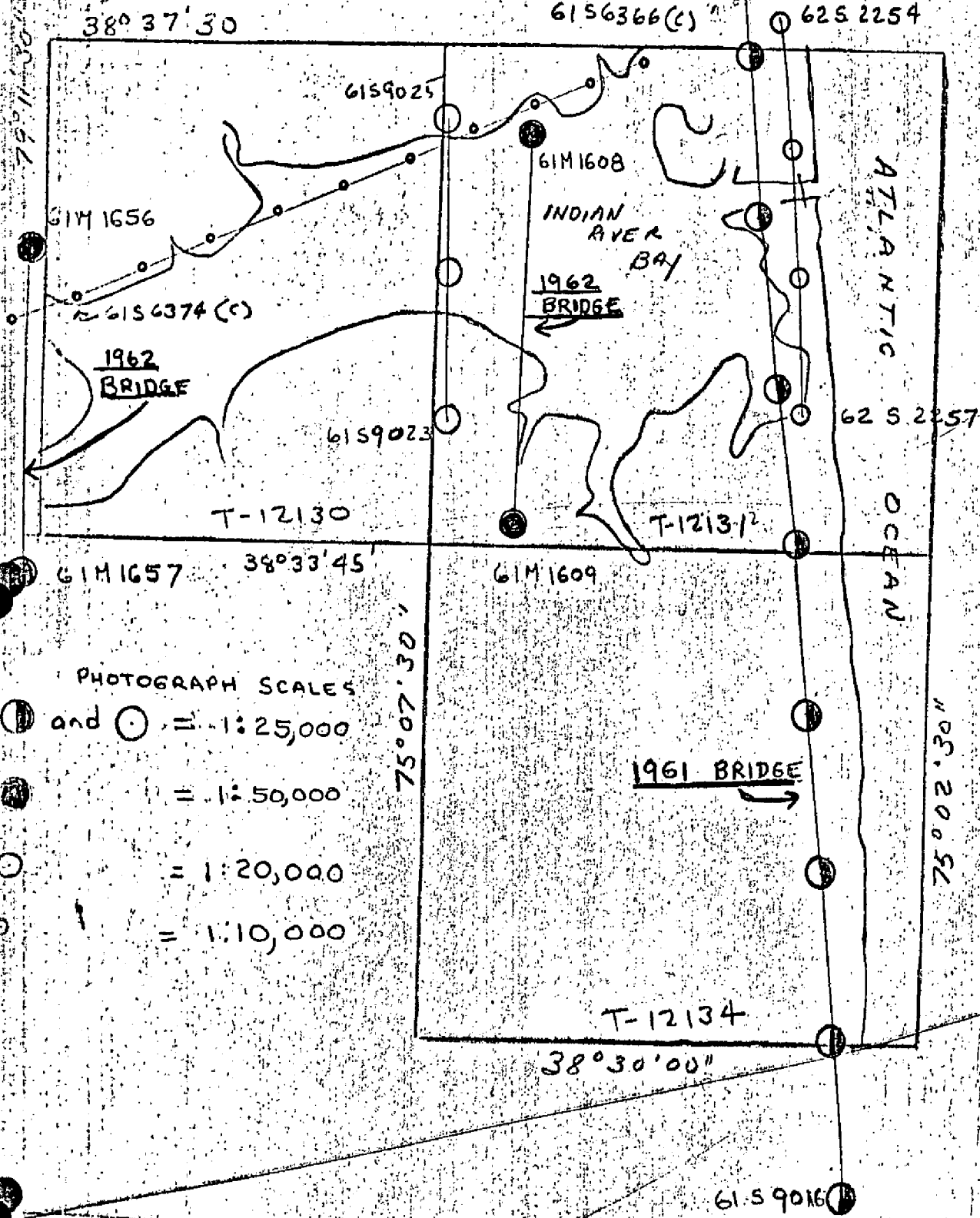
Some of the records for PH-6105 have been lost. Data records and a compilation report could not be found for T-12134. Forms 567, the Field Inspection Report and control station identification cards could not be found for T-12131 and T-12134 (T-12130 was not a part of the project at the time of field inspection).

Job PH-6105 photographs that include bridge points, landmarks and aid information and horizontal control identification are stored with Job PH-6107 data in the Federal Records Center.

*D. D. Blankenship*  
August 1967

PH-6105

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PHOTOGRAMMETRIC PLOT REPORT  
Project PH-6105  
Rehoboth Bay, Delaware

21. Area Covered

The area covered in this report involves Topographic Surveys T-12131, and T-12134, and extends along the Delaware coast from an area approximately two miles north of Indian River Inlet southward to an area approximately three miles south of Bethany Beach.

22. Method

A single strip consisting of 8 models (61-S-9008 through 9016) was bridged on the C-8 stereoplanigraph to provide pass points for Kelsh compilation, positions of landmarks, and photo-hydro stations. This strip was adjusted on the IBM 650.

23. Adequacy of Control

Control used in the adjustment of this strip consisted of six triangulation stations. Three of these stations had alternate substitute stations. Also a check was obtained by an office identification of station "Indian River, Coast Guard Flagpole, 1934".

The adjustment had larger than usual discrepancies and indicates a possibility of some error in positions on the south end of the strip. The maximum discrepancy to control was at station "Tunnel 2, 1909". Here Sub. Sta. 2 was missed by 13.9 feet and Sub. Sta. 1 was missed by 8.6 feet. Sub. Sta. 2 had poor image quality which could effect its accuracy. Sub. Sta. 1 is within accuracy requirements at 1:10,000 scale. The mean discrepancy to control was 2.15 feet.

It is believed that positions are satisfactory to control hydrography at 1:10,000 scale.

24. Supplemental Data

None

25. Photography

Photography was adequate as to coverage, overlap, definition, and quality.

Approved:

*E. M. Ramsey*  
E.M. Ramsey

Submitted by:

*John D. Perrow Jr*  
John D. Perrow, Jr.

1961

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PROJECT PH-6105  
Rehoboth Bay, Delaware  
NOTES TO COMPILER

All Non floating Aids or Landmarks for charts were located during the bridging with the exceptions of (1) Light, Entrance Light North Breakwater, Indian River Inlet and (2) Light, Entrance Light South Breakwater, Indian River Inlet. These two aids were not identified on the photography. The field has taken cuts to these lights from photo-hydro stations and they can be positioned. The south breakwater light is in place and could be checked by the Kelsh.

The north breakwater light base is in place but the light was destroyed during the winter of 1960-1961 and has been replaced by a temporary wooden structure approximately 50 - 75 feet west of the original structure. The above information is the personal knowledge of the writer of this report who visited this spot on May 26, 1961 and again on June 26, 1961. It could not be determined if the temporary light was positioned by the field party, and it should be checked by the hydrographer.

Photo-hydro station FAR was of very poor image quality. Three different spots were recorded which could be the station. It is recommended that the station not be used unless essential.

Submitted by:

*J. D. Perrow Jr.*  
J. D. Perrow, Jr.

Approved:

*EHR*  
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Everett Ramey, Chief  
Aerotriangulation Section  
Photogrammetry Division

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REVIEW REPORT  
T-12130, T-12131 and T-12134

August 22, 1967

61. General Statement

Some project data are lost; and, in addition, differences were noted in field landmark information between Jobs PH-6105 and PH-6107. Refer to the Summary and the Compilation Report.

62. Comparison with Registered Topographic Surveys

T-8503	1:20,000	1943	(war mapping)
T-8504	1:20,000	1943	(war mapping)

The prior surveys are outdated.

63. Comparison with Maps of Other Agencies

T-8503 and T-8504 were published by the Geological Survey.

64. Comparison with Contemporary Hydrographic Surveys

Inapplicable

65. Comparison with Nautical Charts

No. 411, scale 1:40,000

No significant differences were noted.

66. Adequacy of Results and Future Surveys

These maps meet the National Standards of Map Accuracy and Bureau requirements.

Reviewed by:

*S. G. Blankenbaker*  
S. G. Blankenbaker

Approved by:

*Charles L. Lamm*  
Chief, Photogrammetric Br.

*J. Ralph Sobieralski*  
Chief, Photogrammetry Div.

11-22-67

*John C. Boer*  
Chief, Marine Chart Div.

