<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Planimetric</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field No.</td>
<td></td>
</tr>
<tr>
<td>Office No.</td>
<td>$13416$</td>
</tr>
</tbody>
</table>

**LOCALITY**

<table>
<thead>
<tr>
<th>State</th>
<th>United States Possession</th>
</tr>
</thead>
<tbody>
<tr>
<td>General locality</td>
<td>Pacific Ocean</td>
</tr>
<tr>
<td>Locality</td>
<td>Wake Island</td>
</tr>
</tbody>
</table>

**1964** See below

**CHIEF OF PARTY**

**LIBRARY & ARCHIVES**

**DATE**

$1968$-$1970$ (Refer to page C)

---

*1968-1970 (Refer to page C)*
DERSCITIVE REPORT - DATA RECORD

PHOTOGRAMMETRIC OFFICE

Rockville, Maryland

OFFICER-IN-CHARGE
Richard H. Houlder

I. INSTRUCTIONS DATED

1. OFFICE

June 4, 1970

None

2. FIELD

None

II. DATUMS

1. HORIZONTAL:
   - [ ] 1927 NORTH AMERICAN
   - [ ] MEAN HIGH-WATER
   - [ ] MEAN LOW-WATER
   - [ ] MEAN LOWER LOW-WATER
   - [ ] MEAN SEA LEVEL
   OTHER (Specify):
   Astro 1952

2. VERTICAL:
   None

3. MAP PROJECTION
   Mercator

4. GRID(S)
   STATE
   None
   ZONE
   None

5. SCALE
   1:15,000

III. HISTORY OF OFFICE OPERATIONS

<table>
<thead>
<tr>
<th>OPERATIONS</th>
<th>METHOD</th>
<th>INSTRUMENTS/AGENTS</th>
<th>NAME</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. AEROTRIANGULATION</td>
<td>C-8 stereoplanigraph</td>
<td></td>
<td>J. D. Perrow, Jr.</td>
<td>6/22/70</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Inapplicable</td>
<td></td>
</tr>
<tr>
<td>2. CONTROL AND BRIDGE POINTS</td>
<td>Coradi Automatic Plotter</td>
<td></td>
<td>P. J. Dempsey</td>
<td>9/2/70</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>P. J. Dempsey</td>
<td>9/2/70</td>
</tr>
<tr>
<td>3. STEREOSCOPIC INSTRUMENT</td>
<td>Wild B-8</td>
<td></td>
<td>E. L. Rolle</td>
<td>9/14/70</td>
</tr>
<tr>
<td>COMPIATION</td>
<td></td>
<td></td>
<td>H. R. Brooks</td>
<td>9/14/70</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. MANUSCRIPT DELINEATION</td>
<td></td>
<td></td>
<td>E. L. Rolle</td>
<td>9/21/70</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>H. R. Brooks</td>
<td>9/21/70</td>
</tr>
<tr>
<td></td>
<td>Drafted</td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. OFFICE INSPECTION PRIOR TO FIELD EDIT</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. APPLICATION OF FIELD EDIT DATA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. COMPIATION SECTION REVIEW</td>
<td></td>
<td></td>
<td>E. L. Rolle</td>
<td>10/6/70</td>
</tr>
<tr>
<td>8. FINAL REVIEW</td>
<td></td>
<td></td>
<td>S. G. Blankenbaker</td>
<td>10/21/70</td>
</tr>
<tr>
<td>9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH</td>
<td></td>
<td></td>
<td>E. L. Rolle</td>
<td>10/19/70</td>
</tr>
<tr>
<td>10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH</td>
<td></td>
<td></td>
<td>S. G. Blankenbaker</td>
<td>10/14/70</td>
</tr>
<tr>
<td>11. MAP REGISTERED - COASTAL SURVEY SECTION</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 1. Compilation Photography

**Camera(s):** U.S. Navy Photography  
**Focal length approx. 6"**

<table>
<thead>
<tr>
<th>Number and Type</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>006(P) thru 010(P)</td>
<td>8/24/64</td>
<td>10:10</td>
<td>1:25,000</td>
<td>MLLW</td>
</tr>
</tbody>
</table>

**Remarks:** The model of the camera used by the U.S. Navy for this photography is unknown.

### 2. Source of Mean High-Water Line:
Photos dated 8/24/64.

### 3. Source of Mean Low-Water or Mean Lower Low-Water Line:
Photos dated 8/24/64.

### 4. Contemporary Hydrographic Surveys
(List only those surveys that are sources for photogrammetric survey information.)

<table>
<thead>
<tr>
<th>Survey Number</th>
<th>Date(s)</th>
<th>Survey Copy Used</th>
<th>Survey Number</th>
<th>Date(s)</th>
<th>Survey Copy Used</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inapplicable</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 5. Final Junctions

<table>
<thead>
<tr>
<th>North</th>
<th>East</th>
<th>South</th>
<th>West</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>1-13417 falls within the limits of this survey and the junctions have been made. There are no contemporary surveys in the area immediately surrounding this survey.</td>
</tr>
</tbody>
</table>
HISTORY OF FIELD OPERATIONS

I. [ ] FIELD INSPECTION OPERATION  [ ] FIELD EDIT OPERATION

<table>
<thead>
<tr>
<th>OPERATION</th>
<th>NAME</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. CHIEF OF FIELD PARTY</td>
<td>G.M. Ward, Chief Tide Observation Party</td>
<td>Dec. 68 Jan. 70</td>
</tr>
<tr>
<td>2. HORIZONTAL CONTROL</td>
<td>RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY</td>
<td>None</td>
</tr>
<tr>
<td>3. VERTICAL CONTROL</td>
<td>RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY</td>
<td>None</td>
</tr>
<tr>
<td>4. LANDMARKS AND AIDS TO NAVIGATION</td>
<td>RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY</td>
<td>John B. Courtney June 69 (See II. Source Data) Item 4</td>
</tr>
<tr>
<td>5. GEOGRAPHIC NAMES INVESTIGATION</td>
<td>TYPE OF INVESTIGATION COMPLETE SPECIFIC NAMES ONLY NO INVESTIGATION</td>
<td>Refer to chart letter #93(70)</td>
</tr>
<tr>
<td>6. PHOTO INSPECTION</td>
<td>CLARIFICATION OF DETAILS BY</td>
<td>None</td>
</tr>
<tr>
<td>7. BOUNDARIES AND LIMITS</td>
<td>SURVEYED OR IDENTIFIED BY</td>
<td>None</td>
</tr>
</tbody>
</table>

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED
   None
2. VERTICAL CONTROL IDENTIFIED
   None

<table>
<thead>
<tr>
<th>PHOTO NUMBER</th>
<th>STATION NAME</th>
<th>PHOTO NUMBER</th>
<th>STATION DESIGNATION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3. PHOTO NUMBERS (Clarification of details)
   None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED
   Not identified on photography - all data included in Chart Letter #93 and Blueprint #77588.

<table>
<thead>
<tr>
<th>PHOTO NUMBER</th>
<th>OBJECT NAME</th>
<th>PHOTO NUMBER</th>
<th>OBJECT NAME</th>
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</thead>
<tbody>
<tr>
<td>(10)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

5. GEOGRAPHIC NAMES:
   [ ] REPORT [x] NONE

6. BOUNDARY AND LIMITS:
   [ ] REPORT [ ] NONE

7. SUPPLEMENTAL MAPS AND PLANS
   FAA Plan and Chart Sections

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)
   Note all field records filed in the Marine Data Branch [Blueprint #77588 and Chart Letter #93(70)]
# RECORD OF SURVEY USE

## I. MANUSCRIPT COPIES

<table>
<thead>
<tr>
<th>COMPILATION STAGES</th>
<th>DATE MANUSCRIPT FORWARDED</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATA COMPILED</td>
<td>DATE</td>
</tr>
<tr>
<td>Planimetry</td>
<td>9/21/70</td>
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<tr>
<td></td>
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</tr>
</tbody>
</table>

## II. LANDMARKS AND AIDS TO NAVIGATION

### 1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

<table>
<thead>
<tr>
<th>NUMBER</th>
<th>CHART LETTER</th>
<th>NUMBER ASSIGNED</th>
<th>DATE FORWARDED</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Inapplicable</td>
</tr>
</tbody>
</table>

### 2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH, DATE FORWARDED: Inapplicable

### 3. REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION, DATE FORWARDED: Inapplicable

## III. FEDERAL RECORDS CENTER DATA

1. ☑ BRIDGING PHOTOGRAPHS; ☐ DUPLICATE BRIDGING REPORT; ☑ COMPUTER READOUTS.
2. ☐ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM C&GS 567 SUBMITTED BY FIELD PARTIES.
3. ☐ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, ESSA FORM 76-36C.

ACCOUNT FOR EXCEPTIONS:

4. ☐ DATA TO FEDERAL RECORDS CENTER, DATE FORWARDED: October 23, 1970

## IV. SURVEY REVISION

(This section shall be completed when a revised survey is registered.)

<table>
<thead>
<tr>
<th>REVISION</th>
<th>SURVEY NUMBER</th>
<th>JOB NUMBER</th>
<th>PH</th>
<th>DATE OF PHOTOGRAPH</th>
<th>DATE OF FIELD EDIT</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRST REVISION</td>
<td>(2)</td>
<td>(2)</td>
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<tr>
<td>SECOND REVISION</td>
<td>(3)</td>
<td>(3)</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>THIRD REVISION</td>
<td>(4)</td>
<td>(4)</td>
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</tbody>
</table>

ESSA FORM 76-36D
Summary
T-11316 and T-11317

These maps provide a new base for Nautical Chart 4195 - covering Wake, Wilkes and Peale Islands.

Control for aerotriangulation consisted of 5 office identified triangulation stations. All stations held within accuracy requirements and the bridge provided adequate control for compilation.

Field work consisted of cursory chart inspections by a tide observation party during the period December 1968 through January 1970. The field data is comprised of annotated copies of an FAA Plan, chart sections, and Forms 567. Data application as a guide in selecting features to be delineated from the photographs were utilized by the compiler. Data requiring application by transfer from the FAA Plan and the chart sections will be applied by the chart compiler.

The photography was found to be generally poor for compilation purposes (refer to Item 31 of the Compilation Report). The inadequacies in photography and field work called to the attention of the Marine Chart Division. The maps were accepted as adequate for charting purposes.

S. G. Blankenbaker
21. Area Covered

This project covered Chart #4195, Wake Island, N. W. Pacific Islands.

22. Method

Three models (006 through 009) were bridged on the C-8 stereoplanigraph to provide basic control for the construction of a new chart of the area. Three horizontal points were used to control the adjustment with two points as checks. Additional points were selected to enable the compilation office to complete model 009-010.

23. Adequacy of Control

Although many control stations existed on the Island, only five stations could be identified with any certainty by office identification methods. All five stations held within accuracy requirements.

24. Supplemental Data

None

25. Photography

1964 U. S. Navy photography was used for the project. Excessive tip was noted in flight 006-010, however this did not impair bridging operations. Coverage, overlap and definition was adequate.

Submitted by,

John D. Perrow, Jr.

Approved by,

Henry P. Eichert
Chief, Aerotriangulation Section
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR Y COORDINATE</th>
<th>LONGITUDE OR X COORDINATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>WAKE ISLAND AIRPORT BEACON, 1964</td>
<td>Form C&amp;GS-6355 and IBM Readout</td>
<td>Astro and IBM Readout 1952</td>
<td>19° 16' 37.384&quot;</td>
<td>166° 38' 53.864&quot;</td>
</tr>
<tr>
<td>VORTAC &quot;AWK&quot;, 1964</td>
<td>&quot;</td>
<td>&quot;</td>
<td>19° 17' 56.827&quot;</td>
<td>166° 36' 03.992&quot;</td>
</tr>
<tr>
<td>CUPOLA (TANK) NAVOCEANO, 1958</td>
<td>Tabulation of Geodetic Data (TMS-237). pg 2</td>
<td>&quot;</td>
<td>19° 17' 13.81&quot;</td>
<td>166° 37' 00.14&quot;</td>
</tr>
<tr>
<td>RADIO TOWER NAVOCEANO, 1958</td>
<td>&quot;</td>
<td>&quot;</td>
<td>19° 18' 15.67&quot;</td>
<td>166° 38' 12.97&quot;</td>
</tr>
<tr>
<td>TANK NAVOCEANO, 1958</td>
<td>&quot;</td>
<td>&quot;</td>
<td>19° 17' 15.96&quot;</td>
<td>166° 37' 01.16&quot;</td>
</tr>
</tbody>
</table>
Wake Island 1952 Astro Datum - International Ellipsoid

Final Geographic Positions

<table>
<thead>
<tr>
<th>Sta. No.</th>
<th>Latitude</th>
<th>East Longitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>19° 16' 37.41001'</td>
<td>166° 38' 53.87000'X</td>
</tr>
<tr>
<td>2</td>
<td>19° 17' 19.98858'</td>
<td>166° 30' 46.29167'X</td>
</tr>
<tr>
<td>3</td>
<td>19° 17' 15.96344'</td>
<td>166° 37' 01.16507'X</td>
</tr>
<tr>
<td>4</td>
<td>19° 18' 04.89798'</td>
<td>166° 38' 09.42298'X</td>
</tr>
<tr>
<td>5</td>
<td>19° 18' 12.87457'</td>
<td>166° 37' 22.61334'X</td>
</tr>
<tr>
<td>6</td>
<td>19° 17' 26.16789'</td>
<td>166° 36' 39.61351'X</td>
</tr>
<tr>
<td>7</td>
<td>19° 18' 12.88190'</td>
<td>166° 37' 22.58380'X</td>
</tr>
</tbody>
</table>

Numerical Index

- **1**: TOWER (USNHO)
- **2**: STA 3 (USE)
- **3**: TANK (USNHO)
- **4**: SHOP
- **5**: FLIPPER
- **6**: WILKES
- **7**: STA 7 (USE)
This survey was compiled to furnish a new base for Chart 4195 (formerly H.O. 6034).

31. Delineation

The Wild B-8 stereoscopic instrument was used to compile this manuscript.

The only photography available for this area was inadequate for compilation. These photos were badly tipped and the imagery was fuzzy.

32. Control

Refer to the Photogrammetric Plot Report.

The identification, density and placement of horizontal control was adequate.

The water level was sufficient to control the stereoscopic models vertically.

33. Supplemental Data

Chart Letter 93 (70) and Blueprint 77588 with chart inspection notes for the revision of Chart 4195.

Due to the difference in the time between the photography (1964) and the supplemental data (1970), not all of the data could be applied to the T-sheet. The Nautical Chart Branch will add these few details to Chart 4195 at the time of reconstruction.

34. Contours and Drainage

Contours - contours were not compiled due to the poor quality of the photography.

Drainage - all drainage on this manuscript is from office interpretation of the photographs.
35. **Shoreline and Alongshore Details**

There was no shoreline inspection. Shoreline was delineated from office interpretation of the photographs. The breakerline was compiled as the approximate MLLW line. It was impossible to compile map detail in between the MHW line and the MLLW line.

36. **Offshore Details**

No comment.

37. **Landmarks and Aids**

All landmarks and fixed aids to navigation field data will be applied to a copy of the manuscript by the Chart Compiler for use in charting.

Two mooring buoys visible on the photography were compiled.

38. **Control for Future Surveys**

No Form 524 submitted.

39. **Junctions**

Junction has been made with T-13417, scale 1:3,500, which falls in the center of this survey.

There are no contemporary surveys in the area immediately surrounding this survey.

40. **Horizontal and Vertical Accuracy**

No comment.
41. through 45. Not applicable.

46. Comparison with Existing Maps

Comparison has been made with Army Map Service, Corps of Engineers Wake Island Quadrangle, Sheet 7579 IV NW, Series W623, scale 1:25,000, Edition 1-AMS (APFE) 1954.

47. Comparison with Nautical Charts

Comparison has been made with Chart No. 4195 (formerly H.O. 6034) scale 1:15,000, 1st Edition, January 1969.

Items to be applied to Nautical Charts immediately: None

Items to be carried forward: None

Respectfully submitted,

Edward L. Rolle
Cartographer

Approved and forwarded,

H. R. Brooks
Chief, Revision Surveys
Section
# PHOTOGRAMMETRIC OFFICE REVIEW

**T-13410**

1. Projection and grids ✓
2. Title ✓
3. Manuscript numbers ✓
4. Manuscript size ✓

## CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy ✓
6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) X
7. Photo hydro stations X
8. Bench marks X
9. Plotting of sextant fixes X
10. Photogrammetric plot report ✓
11. Detail points X

## ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline ✓
13. Low-water line ✓
14. Rocks, shoals, etc. ✓
15. Bridges ✓
16. Aids to navigation ✓
17. Landmarks ✓
18. Other alongshore physical features ✓
19. Other alongshore cultural features ✓

## PHYSICAL FEATURES
20. Water features ✓
21. Natural ground cover X
22. Planetary contours X
23. Stereoscopic instrument contours X
24. Contours in general X
25. Spot elevations X
26. Other physical features ✓

## CULTURAL FEATURES
27. Roads ✓
28. Buildings ✓
29. Railroads X
30. Other cultural features ✓

## BOUNDARIES
31. Boundary lines X
32. Public land lines X

## MISCELLANEOUS
33. Geographic names ✓
34. Junctions ✓
35. Legibility of the manuscript ✓
36. Discrepancy overlay X
37. Descriptive Report ✓
38. Field inspection photographs X
39. Forms ✓

**Reviewer:** Edith J. Roll
**Supervisor, Review Section or Unit:** Harold R. Brookh

41. Remarks (see attached sheet)

## FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

**Compiler**

**Supervisor**

43. Remarks: Not applicable

*Form T-2*
61. General Statement

Inadequacies in photography and field work are outlined in the Descriptive Report Summary.

62. Comparison with Registered Topographic Surveys

Inapplicable

63. Comparison with Maps of Other Agencies

Wake Island Quad (AMS) 1:25,000 1954

No significant differences were noted. Much of the cultural information on the quadrangle is out dated.

64. Comparison with Contemporary Hydrographic Surveys

Inapplicable

65. Comparison with Nautical Charts

Chart No. 4195 1:15,000 1st Edition, Jan. 20, 1969

No significant differences were noted.

66. Adequacy of Results and Future Surveys

The maps have been accepted for charting purposes; however, new photography and a thorough field inspection will be necessary to ensure compliance with National Standards of Map Accuracy and Bureau requirements.

Reviewed by,

[Signature]

S. G. Blankenbaker

Approved by,

[Signature]

Charles Johnson
Chief, Photogrammetric Branch

[Signature]

Jack E. Guth
Chief, Photogrammetry Division
GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-2009 (Wake Island)
T-13416

Flipper Point
Heel Point
Kuku Point
Peacock Point
Peale Island
Toki Point
Wake Island
Wake Island Airport
Wilkes Island

October 24, 1971

Approved by:
A. J. Wraight
Chief Geographer

Prepared by:
Frank W. Pickett
Cartographic Technician