DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
R.S. Patton, Director

State: New York

DESCRIPTIVE REPORT

Photo
Topographic
Hydrographic

Sheet No. 4571

LOCALITY
East bank of Hudson River
Ludlow St., Yonkers to
Palisades Yacht Club.

1930

CHIEF OF PARTY
O.S. Reading
DESCRIPTIVE REPORT TO ACCOMPANY
AIR PHOTO TOPOGRAPHIC SHEET

No. 4571 - Ludlow St. Yonkers to Palisades Yacht Club.

This sheet is a compilation of two overlapping strips of single lens photographs, numbers 84 to 102 shore strip; numbers 123 to 134 inshore strip. Photographs 84 to 102 were taken September 28, 1930, 1:20 P.M. Photographs 123 to 134 were taken September 28, 1930, 1:40 P.M. The stage of the tide as taken from tide tables is 3.0 feet.

LIMITS OF SHEET 4571

This sheet includes the area between Ludlow Street, Yonkers, and Palisade Yacht Club on the east shore of the Hudson River. The sheet extends about one mile inland.

CONTROL

The sheet is controlled by triangulation executed in the years 1911, 1921, and 1930. A plane table survey of the shoreline was made in August 1930, but was not used as control on this sheet due to the large distortion of the topographic sheet. There was sufficient triangulation to control the sheet without using control from other sources.

COMPILATION

A 1:5000 projection was made on a celluloid sheet. All triangulation stations were plotted on the projection and shoreline traced from Topographic sheet No. 4558.

The scale of the photographs is approximately 1:10,000. A spotting plot was made to obtain the average scale of the photographs. After obtaining the average scale of the photographs, the negatives were enlarged to a scale of 1:5000. All triangulation stations and radial points were identified on the enlarged photographs.

A graphic radial line plot was made with the enlarged pictures holding to the triangulation. The shore strip being plotted first as the inshore strip had about 40 per cent overlap. This deficiency in overlap resulted in a weak plot of the inshore strip. Due to the fact that this sheet had well distributed control, the accuracy of the eastern portion of the sheet was not impaired to a very large extent.
LANDMARKS FOR CHARTS

Landmarks for charts are submitted on form 558 as recommended by the Commanding Officer of the NATOMA, 1930.

DISCREPANCIES

It will be noted that several of the docks and some of the shoreline has been changed from the positions as located on Topographic sheet 4558. No serious errors were noticed. The errors that were found are probably due to the distortion of the topographic sheet. The railroads in Yonkers railway yard are not exact, but each switch is drawn as near correct as could be interpreted from the photographs.

NAMES

Names for this sheet were obtained from Topographic sheet 4558, Sanborn Map of Yonkers, and street guide and map of Yonkers.

SYMBOLS

Standard topographic symbols were used throughout the sheet. The widths of streets and roads extend to the property lines.

Approved:

O. S. Reading,
Chief of Party.

K. T. Adams
FIELD RECORDS (C)

L. O. Holbert
Chief, Division of Charts

APPROVED

Chief, Section Field Work

Chief, Div. of Hyd'y and Top'y
LANDMARKS FOR CHARTS

Washington, D. C.

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted and are recommended for charting on the proposed anchorage chart by the Commanding Officer of the HATCHA, 1930.

C. S. Reading
Chief of Party.

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>DATUM</th>
<th>CHARTS AFFECTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center of Gas Tank</td>
<td>40 55</td>
<td>(947)</td>
<td>(1022) N.A.</td>
<td>Photo-Topo. 747</td>
</tr>
<tr>
<td>Flag on Cupola of Apartment</td>
<td>40 55</td>
<td>1127</td>
<td>73 53 1370</td>
<td>N.A.</td>
</tr>
<tr>
<td>Stack, Sperrles Sugar Refiner</td>
<td>40 55</td>
<td>1450</td>
<td>73 54 431</td>
<td>N.A.</td>
</tr>
<tr>
<td>Stack,</td>
<td>40 55</td>
<td>1531.6</td>
<td>73 54 336</td>
<td>N.A.</td>
</tr>
<tr>
<td>Tank, Nat. Sugar Refinery</td>
<td>40 55</td>
<td>1540</td>
<td>73 54 305</td>
<td>N.A.</td>
</tr>
<tr>
<td>Flag Pole, Recreation Pier</td>
<td>40 56</td>
<td>1129.3</td>
<td>73 54 432</td>
<td>N.A.</td>
</tr>
<tr>
<td>Tanks, Hudson Fuel Co.</td>
<td>40 56.4</td>
<td>73 54.2</td>
<td>N.A.</td>
<td>747</td>
</tr>
<tr>
<td>Stack, Habirshaw Cable Co.</td>
<td>40 56</td>
<td>1572</td>
<td>73 54 78</td>
<td>N.A.</td>
</tr>
<tr>
<td>Inner Stack, Glennwood Power House</td>
<td>40 57</td>
<td>142</td>
<td>73 53 1375</td>
<td>N.A.</td>
</tr>
<tr>
<td>Green Cupola &amp; Weather Vane on Yonkers Museum</td>
<td>40 57</td>
<td>507</td>
<td>73 53 1123</td>
<td>N.A.</td>
</tr>
<tr>
<td>Flag Pole on battlemented cupola or red brick bldg.</td>
<td>40 57</td>
<td>796</td>
<td>73 53 651</td>
<td>N.A.</td>
</tr>
</tbody>
</table>

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance.

The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstaffs and like objects are not sufficiently permanent to chart.
The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be marked and are recommended for charting on the proposed anchorage chart by the Commanding Officer of the NAVA 1930.

O. S. Reading  
Chief of Party.

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>DATUM</th>
<th>METHOD OF DETERMINATION</th>
<th>CHARTS AFFECTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light brown house, gray roof</td>
<td>40 68.6</td>
<td>73 53.3</td>
<td>N.A.</td>
<td>Photo-Topo.</td>
<td>248</td>
</tr>
<tr>
<td>Prominent colonial house with columns</td>
<td>40 48.5</td>
<td>73 53.0</td>
<td>N.A.</td>
<td>&quot;</td>
<td>248</td>
</tr>
<tr>
<td>Flag pole on tower of house, St. Untermeyer</td>
<td>40 57</td>
<td>1841.9</td>
<td>73 53</td>
<td>1094.6</td>
<td>NA. Triang.</td>
</tr>
<tr>
<td>Hot house, Sta. Hot</td>
<td>40 59</td>
<td>1249.9</td>
<td>73 53</td>
<td>1219.3</td>
<td>N.A.</td>
</tr>
<tr>
<td>Steeple on Monastery, Sta. Steeple</td>
<td>40 57</td>
<td>1850.1</td>
<td>73 53</td>
<td>1160.1</td>
<td>N.A.</td>
</tr>
<tr>
<td>Outer Stack Glenwood Power House, Sta. Twin (out)</td>
<td>40 57</td>
<td>1902.1</td>
<td>73 54</td>
<td>1399.6</td>
<td>N.A.</td>
</tr>
<tr>
<td>Water tower, Sta. Lake Ave.</td>
<td>40 56</td>
<td>1457.8</td>
<td>73 53</td>
<td>708.4</td>
<td>N.A.</td>
</tr>
<tr>
<td>Silver colored water tank, Sta. Otis</td>
<td>40 56</td>
<td>1166.6</td>
<td>73 53</td>
<td>1390.3</td>
<td>N.A.</td>
</tr>
<tr>
<td>Tall brick stack, waterfront, Sta. Taller</td>
<td>40 55</td>
<td>1851.9</td>
<td>73 54</td>
<td>1055.6</td>
<td>N.A.</td>
</tr>
<tr>
<td>Tall yellow brick stack, Sta. Alex.</td>
<td>40 56</td>
<td>1597.8</td>
<td>73 53</td>
<td>507.3</td>
<td>N.A.</td>
</tr>
<tr>
<td>City Hall Yonkers, Sta. City</td>
<td>40 55</td>
<td>1713.0</td>
<td>73 53</td>
<td>1264.8</td>
<td>N.A.</td>
</tr>
<tr>
<td>Brick Water Tower, Sta. Nodine</td>
<td>40 55</td>
<td>1690.2</td>
<td>73 53</td>
<td>159.6</td>
<td>N.A.</td>
</tr>
</tbody>
</table>

* Approximate position, see airphoto sheet No. 4571.

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance. The description of each object should be short, but such as will identify it: for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstaffs and like objects are not sufficiently permanent to chart.
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

PHOTO - 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 No. ..................

REGISTER NO. 4571

State....... New York

General locality....... Yonkers

Locality....... Ludlow St., Yonkers to Palisades Yacht Club pictures

Scale...... 1:5000 Date of survey....... Sept. 28, 1930.

Vessel...... Aerotopograph Corporation Airplane

Chief of Party....... O. S. Reading

Surveyed by....... M. H. Reese

Inked by............. M. H. Reese

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

Contours, Approximate contour, Form line interval.............. feet

Instructions dated (Compilation & Control) July 22, 1930

Remarks: Compilation of single lens air photographs Nos. 84 to 103, & 123 to 134, and printed by photolithographic process
REPORT FOR SUPPLEMENTAL T-4571

Corrections shown in red on T-4571 Supplemental were plotted in the office from single lens Air Photographs without field inspection.

Corrections shown in blue were plotted in this office from the field inspection data supplied this office by the Tender GILBERT.

PHOTOGRAPHS

Single lens 7 x 9, Scale 1:10,000.

Negatives are on file in this office. Photographs were taken in February, 1939, by the Photographic Unit of the Naval Air Station, Washington, D. C.

PLOT

Details in red and blue were compiled from a radial plot using 1:5,000 scale ratio prints. Those details shown in red were plotted in March, 1939, by L. A. McGann and L. C. Lande and were reported to the Nautical Chart Section for the correction of Chart 747.

Details in blue were plotted in May, 1939, after receipt of the field inspection and were not reported to the Nautical Chart Section until June 3, 1939.

HYDROGRAPHIC SURVEY

H-6430 (1939), 1:5,000.

The shoreline on the contemporary hydrographic survey is from T-4571 prior to the above corrections and has not been corrected to agree with T-4571 Supplemental.

CHART 747

The dolphins shown on Chart No. 747, Lat. 40°56.5', Long. 73°54.2' are too close to the end of the pier. See T-4571. The label stacks at Lat. 40°55.7', Long. 73°54.2' should be "stack".

B.G. Jones
6/19/39