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

DESCRIPTIVE REPORT

Type of Survey
SHORELINE

Field No. Class Office No. T-11686

LOCALITY
State VIRGINIA
General locality HOG ISLAND BAY
Locality UPSHUR NECK TO

FOWLINGS POINT

1959-61

CHIEF OF PARTY
Elgan T. Jenkins, Field Party 726
V. Ralph Sobiersalski, Tampa District Office
Alfred G. Holmes, Director, AMG

LIBRARY & ARCHIVES

DATE JUL 1975
DESCRIPTIVE REPORT - DATA RECORD
T- 11686

PROJECT NO. (III):
PH-5907 (21021)

FIELD OFFICE (III):
Accomac, Virginia

PHOTOGRAHAMMETRIC OFFICE (III):
Tampa, Florida

CHIEF OF PARTY
Elgan T. Jenkins

OFFICER-IN-CHARGE
V. Ralph Sobieralski

INSTRUCTIONS DATED (III) (III):
Field: October 20, 1959
Field Amendment 1: April 26, 1960
Office: December 28, 1960
Office Amendment 1: August 10, 1961
Office Amendment 2: September 29, 1961

METHOD OF COMPILATION (III):
Graphic

MANUSCRIPT SCALE (III):
1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
Inapplicable

DATE RECEIVED IN WASHINGTON OFFICE (IV):
OCT 9 1963

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:

DATE REGISTERED (IV):

GEOGRAPHIC DATUM (III):
N. A. 1927

REFERENCE STATION (III):
FOWLING 2, 1910

LAT.: 37°26'36.21" (1116.1m.)
LONG.: 75°48'36.888" (906.8m)

PLANE COORDINATES (IV):

X = 1,115,276.40 Ft.

STATE: Virginia

ZONE: South

VERITCAL DATUM (III): Mean Navigational Datum except as follows:
Elevations shown as (21) refer to mean high water
Elevations shown as (5) refer to sounding datum
I.e., mean low water or mean lower low water

ADJUSTED

UNADJUSTED

ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (III) FIELD PARTY, (III) PHOTOGRAHAMMETRIC OFFICE,
OR (IV) WASHINGTON OFFICE.

WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.
# DESCRIPTIVE REPORT - DATA RECORD

**FIELD INSPECTION** by (III):

| E. T. Jenkins | DATE: Apr. 1961 |

**MEAN HIGH WATER LOCATION** (III) (STATE DATE AND METHOD OF LOCATION):

| Air photo compilation |
| Date of photography: Oct. 13, 1959 |

**PROJECTION AND GRIDS RULED BY** (IV):

| A. Riley | DATE: Jan. 1962 |

**PROJECTION AND GRIDS CHECKED BY** (IV):

| I. Y. Fitzgerald | DATE: Jan. 1962 |

**CONTROL PLOTTED BY** (III):

| V. P. Cackowski | DATE: Jan. 1962 |

**CONTROL CHECKED BY** (III):

| R. R. Wagner | DATE: Jan. 1962 |

**RADIAL PLOT OF STEREOSCOPIC CONTROL EXTENSION BY** (III):

| R. R. Wagner | DATE: Apr. 1962 |

**STEREOSCOPIC INSTRUMENT COMPILATION** (III):

| PLANIMETRY |
| CONTOURS |

**MANUSCRIPT DELINEATED BY** (III):

| R. Dossett |
| Reviewed by: W. H. Shearouse |

**SCRIBING BY** (III):

| R. J. Pate |
| Reviewed by: W. H. Shearouse |

**PHOTOGRAMMETRIC OFFICE REVIEW** (III):

| W. H. Shearouse | DATE: Apr. 1963 |

**REMARKS:**
## Descriptive Report - Data Record

**Camera (Kind or Source) (iii):**

- C&GS Nine-lens

### Photographs (iii)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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</thead>
<tbody>
<tr>
<td>60566</td>
<td>10-13-59</td>
<td>1137</td>
<td>1:10,000</td>
<td>0.1 ft above MLW</td>
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<tr>
<td>60567</td>
<td></td>
<td>1138</td>
<td></td>
<td></td>
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<tr>
<td>60578</td>
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<td></td>
<td></td>
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<tr>
<td>60579</td>
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<td>1146</td>
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**Predicted Tide (iii):**

<table>
<thead>
<tr>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>4.6</td>
<td>5.6</td>
</tr>
</tbody>
</table>

**Reference Station:**

- Sandy Hook

**Subordinate Station:**

- Upshur Neck, south end

**Atlantic Marine Center**

Date: Nov. 1973

**Remarks:**
<table>
<thead>
<tr>
<th>Compilation Record</th>
<th>Completion Date</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manuscript complete pending field edit</td>
<td>July 1962</td>
<td>Superseded</td>
</tr>
<tr>
<td>Final review</td>
<td>Nov. 1973</td>
<td></td>
</tr>
</tbody>
</table>
SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-11686

This 1:10,000 scale shoreline manuscript is one of 43 maps that comprise Project PH-5907, Cape Charles to Assateague, Virginia. The project diagram on page 5 indicates the location of this map in the project.

Field inspection prior to compilation was done in April, 1961.

Compilation was from 9-lens photographs taken in October, 1959. Control was based on a radial plot, using the 9-lens photographs. The Photogrammetric Plot Report was not available at the time of final review and is not bound with this Descriptive Report.

Field edit of this map was not accomplished.

Final review was done at the Atlantic Marine Center in November, 1973.

The compilation manuscript was a vinylite sheet 3 minutes 45 seconds in latitude by 3 minutes 45 seconds in longitude.

A cronaflex copy of the final reviewed manuscript and a negative have been forwarded for record and registry.
2. AREAL FIELD INSPECTION-

The area covered by the seven maps, with the exception of map 11685, is composed mostly of mud flats that are bare or nearly so at mean low water. This mud area is very soft and will not afford footing for any type of travel at low water. Some of these mud areas have insufficient water, even at high tide, to support skiffs drawing more than two feet of water.

At high water these areas are large shallow areas of water that can become very choppy with strong winds. There are scattered shell piles throughout the areas that makes small boat travel very hazardous to anyone crossing these areas at high water.

The outer shore of Hog and Parramore Islands is sand that held its position well during hurricane Donna of September, 1960. Numerous measurements were made from fixed objects to the present shoreline to determine the shoreline delineation on the photographs.

The quality of the photography is good. Most single pile structures can be identified on the nine lens photographs. It is believed that enough photographic tones have been labeled to clarify all tones for the compilers.

3. HORIZONTAL CONTROL-

All stations, indicated on the Project Diagram, have been searched for. Those that were desired to be identified were all recovered and identified except CHIMNEY, NORTHEAST GABLE OF SHACK, 1934. This station is destroyed and was replaced with topographic station CUTE, 1961. CUTE, 1961 will furnish control if desired as a fix was observed from it as well as it was referenced to a photograph point.
The following stations are lost or destroyed and reported on Form 526;
DRAW, 1933
Great Machipongo River Bl. Beacon No. 3, 1934
Great Machipongo River Red Beacon No. 2, 1934
Great Machipongo River Channel Lt., 1933
CUNJER CHANNEL LIGHT, 1937
SLOOP, 1910
Little Machipongo Inlet, North Inlet Light, 1933
PONGO, 1934
SOUTHWEST GABLE OF OLD TWO STORY HOUSE, 1934
Revels Island, West Gable Chimney, 1934
LITTLE MACHIPONGO INLET, COAST GUARD TOWER, 1937
CHIMNEY, NORTHEAST GABLE OF SHACK, 1934

4. VERTICAL CONTROL-
Tidal bench mark 1, map 11686 was recovered and identified.

The following bench marks are lost;
Tidal bench marks 1, 2 and 3 all of 1947, Revel Creek, Little Machipongo Inlet, Lat. 37-29-8 and Long. 75-41.0
Tidal bench mark 3, 1914, Little Beach Cove, Little Powder Tub Creek, Parramore Island, Lat. 37-31.9 and Long. 75-39.8

5. CONTOURS AND DRAINAGE-
Drainage consists of small streams and ditches. Those that were considered of sufficient size have been delineated. There are some few flat areas that will occasionally flood but there is no real swamp of importance.

6. WOODLAND COVER-
The tree areas are mostly pine with some few areas interspersed with hardwoods.

7. SHORELINE AND ALONGSHORE FEATURES.
The shoreline is mostly apparent. Very often there is a fringe of Sea Oars or Sea Oats sometimes fifty or more feet in width at the offshore edge of the marsh. This type of grass may reach a height of three to four feet during the summer and fall months and then be killed out during the winter season.
This can cause the apparent shoreline to change with the seasons. However as the grass is growing in these areas most of the year, the apparent shoreline was delineated along the outer edges of it.

There is a submerged telephone cable between the islands of Parramore and Hog. The approximate underwater position of this cable has been delineated on the photographs. This position could be several hundred feet in error as the position was determined by verbal information from the Hog Island Coast Guard Personnel.

3. OFFSHORE FEATURES—
There are no offshore features of any size. There are thousands of small stakes scattered over the mud flats that mark either some small channel or beds of oysters.

9. LANDMARKS AND AIDS—
Landmarks and aids are reported on Form 567. The black and white prints of the color photography were field inspected to verify or correct the office identification of the aids to navigation. Fixed aids not identified on the photographs have been located using ground survey methods.

10. BOUNDARIES, MONUMENTS AND LINES—
The corporate limits of Nassawadox, Virginia have been delineated on single lens ratio print 59W 9297 as far as possible to do so. Some of the southern boundary will need to be projected from an enclosed plat.

An enclosed map of Accomac County will show the mapped position of the line between Accomac and Northampton Counties. Information from the County Court Clerks of these two counties failed to reveal any information concerning a legal description. The division line was established in 1663 and any legal action concerning it has probably been lost in the files of three hundred years. The county court clerks advise that the best place to obtain such information is with the Virginia Department of Highways.
A branch office of this department was visited at Accomac, Virginia. Information obtained from this branch office indicates that their maps are compiled from old federal maps and records. It appears as no one is positive as to just where this line is. The Virginia Highway Department position their highway county line markers by a scaled distance from a map, of the enclosed type. There is a possibility that there is a descrip- of this line somewhere in the files of the North- hampton Court House, but no more investigations will be made unless instructed to do so.

11. OTHER CONTROL-
Three previously marked topographic stations were searched for but not found. This informa- tion is reported on Forms 524.

The following is a list of new topographic stations established.

<table>
<thead>
<tr>
<th>BOSS</th>
<th>HANG</th>
<th>GABE</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOOM</td>
<td>GONE</td>
<td>GOUT</td>
</tr>
<tr>
<td>BUNT</td>
<td>MORE</td>
<td>WIND</td>
</tr>
<tr>
<td>DUNE</td>
<td>GRAY</td>
<td>HELP</td>
</tr>
<tr>
<td>HAND</td>
<td>CUTE</td>
<td>EURT</td>
</tr>
<tr>
<td>CUPOLA</td>
<td>RUIN</td>
<td>SHED</td>
</tr>
</tbody>
</table>

12. OTHER INTERIOR FEATURES-
All roads and buildings have been inspected and classified accordingly to current instructions.

There are no bridges or cable clearances re- quired.

13. GEOGRAPHIC NAMES-
No systematic investigation was made and no errors found in the geographic names.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA-
The following map and plat is enclosed;

Accomac County Map
Nassawadox Corporate Limits.
No changes are recommended for the Coast Pilot.
It is not believed that notes to the compiler would be of any aid in the compilation.

The field photographs and all other data for the compilation of these maps are being transmitted by transmittal letter 62-1J dated 28th July, 1961

Respectfully submitted,
July 28, 1961

Elgan T. Jenkins
Chief of Party 726
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR ( y )-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</th>
<th>N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOULING 2 1910 1933</td>
<td>P.C. 479</td>
<td>NA</td>
<td>415,276.40</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>LITTLE MACHEDO INLET, NORTH</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NORTH CAY. 184</td>
<td></td>
<td>1927</td>
<td>2,780,782.38</td>
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<tr>
<td>BLACK BEACON 1933</td>
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<td>430,392.51</td>
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<td>2,793,820.98</td>
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</tbody>
</table>
COMPILATION REPORT T-11686

PHOTOGRAFMETRIC PLOT REPORT

Submitted with T-11688

31. **DELINEATION**

The graphic method was used.

The photographs were of reasonably good scale, 60579 having the best scale. Field inspection was adequate.

32. **CONTROL**

See photogrammetric plot report

33. **SUPPLEMENTAL DATA**

None.

34. **CONTOURS AND DRAINAGE**

Contours are inapplicable.

Drainage has been delineated as shown on the photographs and consists principally of marsh streams to the river and bay.

35. **SHORELINE AND ALONGSHORE DETAILS**

Mean high-water line and alongshore structures have been shown in accordance with field inspection notes. Low-water and shoal lines were delineated from office interpretation of the photographs with the assistance of scattered field notes. The inspection was satisfactory.

36. **OFFSHORE DETAILS**

No offshore structures were indicated by the field inspection. There are, however, numerous mud flats and shell reefs in Hog Island Bay.
37. **LANDMARKS AND AIDS**

No landmarks were recommended.

Form 567 for Nonfloating Aids was submitted to the Washington Office under date of July 24, 1962.

38. **CONTROL FOR FUTURE SURVEYS**

Three topographic stations are being submitted on forms 524. These are listed under item 49.

39. **JUNCTIONS**

A junction has been made with T-11685 on the west, T-11687 on the east, T-11690 on the south and T-12130 on the north.

40. **HORIZONTAL AND VERTICAL ACCURACY**

No comment.

46. **COMPARISON WITH EXISTING MAPS**

Comparison has been made with Army Map Service quadrangle NASSAWADOX, scale 1:25,000, compiled in 1947.

47. **COMPARISON WITH NAUTICAL CHARTS**

Comparison has been made with nautical chart 1221, scale 1:80,000, 8th edition, revised to October 28, 1961. Comparison was favorable.

**ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY**

None.
ITEMS TO BE CARRIED FORWARD

None.

Rudolph Dossett
Carte Photo Aid

APPROVED AND FORWARDED - 8 OCT 1963

V. Ralph Sobierski
Tampa District Officer
June 22, 1972

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-5907 (Virginia)

T-11686

Cedar Point
Fowling Point
Great Machipongo Channel
Greens Creek
Hog Island Bay
Machipongo River
North Channel
Upshur Neck

Approved:

A. J. Wraight

A. Joseph Wraignt
Chief Geographer

Prepared by:

Frank W. Pickett
Cartographic Technician
49. NOTES FOR THE HYDROGRAPHER

The following is a list of topographic stations that may be of use to the hydrographer:

GRAY 1961

WIND 1961 (S.E. Gable)

HELP 1961
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>WHS</td>
<td>WHS</td>
<td>Unclassified</td>
<td>WHS</td>
</tr>
</tbody>
</table>

### Control Stations
- Horizontal Control Stations of Third-Order or Higher Accuracy
- WHS
- Photographic Stations
- WHS
- Bench Marks
- WHS
- Plotting of Sextant Fixes
- WHS
- Photographic Plot Report
- WHS
- Detail Points
- WHS

### Alongshore Areas
(Antique Chart Data)
- Shoreline
- WHS
- Low-Water Line
- WHS
- Rocks, Shoals, Etc.
- WHS
- Bridges
- XX
- Aids to Navigation
- WHS
- Landmarks
- XX
- Other Alongshore Physical Features
- WHS
- Other Alongshore Cultural Features
- WHS

### Physical Features
- Water Features
- WHS
- Natural Ground Cover
- WHS
- Planetary Cross Sections
- XX
- Stereoscopic Instrument Contours
- WHS
- Contours in General
- XX
- Spot Elevations
- XX
- Other Physical Features
- WHS

### Cultural Features
- Roads
- WHS
- Buildings
- WHS
- Railroads
- XX
- Other Cultural Features
- WHS

### Boundaries
- Boundary Lines
- XX
- Public Land Lines
- WHS

### Miscellaneous
- Geographic Names
- WHS
- Juncions
- WHS
- Legibility of the Manuscript
- WHS
- Discrepancy Overlay
- XX
- Descriptive Report
- WHS
- Field Inspection Photographs
- WHS
- Forms
- WHS

**Signature of Reviewer**

**Signature of Compiler**

**Signature of Supervisor**

**Field Completion Additions and Corrections to the Manuscript**
Additions and corrections published by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted in remarks on reverse side.

**Use Reverse Side for Remarks**
<table>
<thead>
<tr>
<th>STATE</th>
<th>VIRGINIA</th>
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<tbody>
<tr>
<td>CHARTING</td>
<td>NAME</td>
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</tr>
<tr>
<td></td>
<td>LIGHT 3</td>
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<td></td>
<td>LIGHT 6</td>
</tr>
<tr>
<td></td>
<td>LIGHT 7 *</td>
</tr>
<tr>
<td></td>
<td>LIGHT 10</td>
</tr>
</tbody>
</table>

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.
I recommend that the following objects which have not been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by W. H. Shearouse.

<table>
<thead>
<tr>
<th>State</th>
<th>Virginia</th>
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</thead>
<tbody>
<tr>
<td>Charting Name</td>
<td>GREAT MACHIFONGO INLET</td>
</tr>
<tr>
<td>Description</td>
<td>GREAT MACHIFONGO CHANNEL</td>
</tr>
<tr>
<td>Signal Name</td>
<td>DAYRN 12</td>
</tr>
<tr>
<td></td>
<td>LIGHT 13</td>
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<tr>
<td></td>
<td>LIGHT 15</td>
</tr>
<tr>
<td></td>
<td>LIGHT 17</td>
</tr>
<tr>
<td>Latitude (N)</td>
<td>37 28.71</td>
</tr>
<tr>
<td>Longitude (W)</td>
<td>75 48.54</td>
</tr>
<tr>
<td>Datum</td>
<td>N.A.</td>
</tr>
<tr>
<td>Method of Location</td>
<td>Plot</td>
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<tr>
<td>Survey No.</td>
<td>T-11866</td>
</tr>
<tr>
<td>Date of Location</td>
<td>1927</td>
</tr>
<tr>
<td>Aids Chart</td>
<td>Photo</td>
</tr>
<tr>
<td>Operating Chart</td>
<td>1961</td>
</tr>
<tr>
<td>Charts Affected</td>
<td>x 1221</td>
</tr>
</tbody>
</table>

*Day of month not available

**This is date on Form 567 submitted by field party.

**Verified on 1962 photos.

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-35, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charred landmarks and non-floating aids to navigation, if recharted, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.
REVIEW REPORT T-11686
SHORELINE
November 15, 1973

61. GENERAL STATEMENT

See Summary on page 6 of this Descriptive Report.

An ozalid comparison print, showing differences noted in Par. 62 and 63, is bound with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

A comparison was made with Survey T-8174, 1:20,000 scale, dated 1943. Significant differences were shown in blue on the comparison print.

T-11686 supersedes previous topographic surveys for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with AMS SHEET 5856 IV NE, NASSAWADOX, VA, scale 1:25,000; dated 1947. T-8174 was the origin of this map and differences noted were the same.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

No contemporary hydrographic surveys were available for comparison.

65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Chart 1221, scale 1:80,000, 16th edition, dated Sept. 11, 1971. No significant shoreline differences were noted. Names and numbers of fixed aids to navigation have been changed and some have been added. They are shown on T-11686 as they existed at the time of field inspection in April, 1961.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

The Photogrammetric Plot Report, which usually states the accuracy of control used for compilation, was not available for final review and no accuracy statement was made in the Compilation Report. However, there is no reason to believe that accuracy is substandard.
INDEX TO ADJOINING SHEETS
PROJECT-9507

Class II Map
This map is based on the requirements for National a pre-compilation field tigraphy. It is subject to final review. Landmarks investigated during field

T-11686
1:10,000