

10541

Diag. Cht. No. 1245

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric

Field No. Ph-169 Office No. T-10541

LOCALITY

State Florida

General locality Cape Canaveral

Locality Port Canaveral

194 56-57

CHIEF OF PARTY

I.R. Rubottom, Chief of Party

L.W. Swanson, Div. of Photo. Wash., D.C.

LIBRARY & ARCHIVES

DATE June 24, 1958

10541

DATA RECORD

T -10541

Project No. (II):

PH 169

~~25750~~

Quadrangle Name (IV):

Field Office (II): **Cocoa, Florida**

Chief of Party: **Ira R. Rubottom**

Photogrammetric Office (III):

Officer-in-Charge: **L.W. Swanson**

Instructions dated (II) (III):

11 February 1957
Amendment 1 (Field) dated
25 February 1957
30 January 1957

Copy filed in Division of
 Photogrammetry (IV)

Method of Compilation (III):

Stereotriangulation and compilation on Stereoplanigraph C-8

Manuscript Scale (III): **1:10,000**

Stereoscopic Plotting Instrument Scale (III): **1:10,000**

Scale Factor (III): **1.0**

Stereotriangulation Inst. scale 1:10,000

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): **10 Feb 1958**

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III):

NA 1927

Vertical Datum (III):

Mean sea level except as follows:
 Elevations shown as (25) refer to mean high water
 Elevations shown as (5) refer to sounding datum
 i.e., mean low water or mean lower low water

Reference Station (III):

Porter 1957

Lat.: **28° -24' -29.091"**

Long.: **80° -35' -50.555"**

Adjusted
 Unadjusted

Plane Coordinates (IV):

State:

Florida

Zone:

East

Y= **1,481 224.12 feet**

X= **629 432.92 feet**

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

Flanimetric

(Show name within area)

DATA RECORD

Field Inspection by (II): J.K. Wilson, Cartographer

Date: Feb. '57

Planetable contouring by (II): Inapplicable

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location):

Photos of oct. 1956
Field Inspection Feb. '57

Projection and Grids ruled by (IV): J. Chaconas

Date: Feb. '57

Projection and Grids checked by (IV): H. Wolfe

Date: Feb. '57

Control plotted by (III): C.E. Cook

Date: March '57

Control checked by (III): K. Maki, M. Keller

Date: March '57

Radial Plot or Stereoscopic

Control extension by (III): C.E. Cook

Date: March '57

Planimetry C.E. Cook

Stereoscopic Instrument compilation (III):

Date: March '57

Contours

Date:

Manuscript delineated by (III): C.E. Cook

Date: March '57

Photogrammetric Office Review by (III):

M. Keller

Date: March '57

Elevations on Manuscript

checked by (II) (III): inapplicable

Date:

Camera (kind or source) (III): Wild Aviogon

Number Date Time Scale Stage of Tide above
56 W 3575 thru 19 Oct. 1956 0820-0829 1:15000 + 3.8 MLW
3598

Tide (III)

Reference Station: Miami, Harbor Entrance
Subordinate Station: Cape Canaveral
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
	2.5	3.0
	3.5	4.1

Washington Office Review by (IV):

Date:

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 5
Shoreline (More than 200 meters to opposite shore) (III):
Shoreline (Less than 200 meters to opposite shore) (III):
Control Leveling - Miles (II): None
Number of Triangulation Stations searched for (II): 16
Number of BMs searched for (II):
Number of Recoverable Photo Stations established (III): 3
Number of Temporary Photo Hydro Stations established (III):

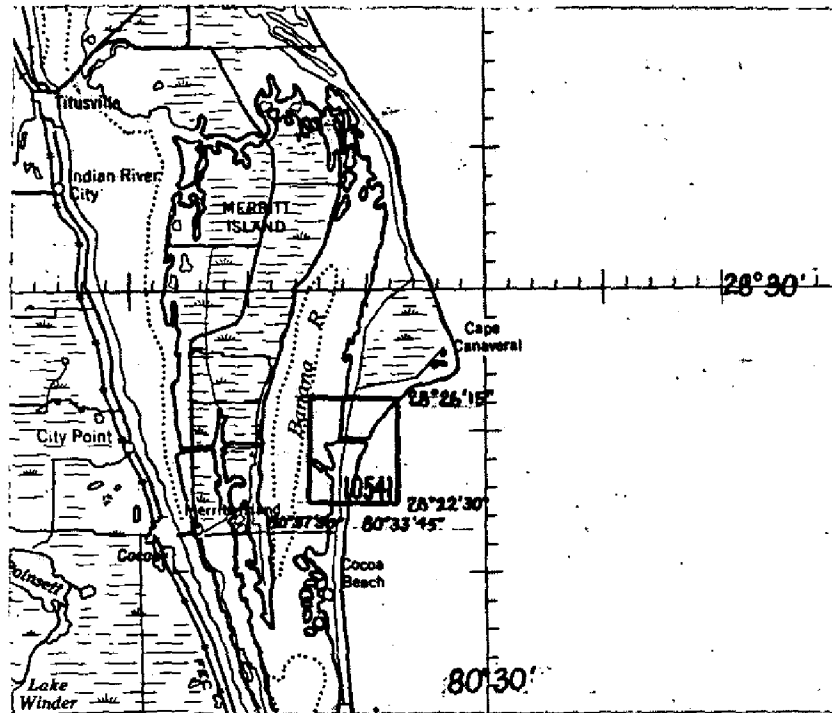
Recovered: 14
Recovered: 2

Identified: 9
Identified: 1

Remarks:

PLANIMETRIC MAPPING PROJECT 25150

Cape Canaveral, FLORIDA



OFFICIAL MILEAGE FOR COST ACCOUNTS

SHEET NO.	LIN.MI. SHORELINE	AREA SQ. MILES
10541	10	5
TOTALS	10	5

PHOTOGRAMMETRIC PLOT REPORT

T-10541

21. Area covered

Canveral Harbor, Florida, sheet T-10541

22. Method

One strip of photography, photos 56W-3576 thru 3585, was bridged and adjusted mathematically. Pass points were left to control the side flight and cross flight. Adjusted positions for pass points were plotted by use of the coordinatograph.

23. Adequacy of control

Triangulation station Bqrea, 1956 was incorrectly identified on the photography and the sketch on the CSI card was incorrect. By inspection of the stereo model the described position was identified and used in the bridge. Control was considered to be adequate.

24. Supplemental data

Inapplicable

25. Photography

Photography was very well placed for coverage of this narrow strip of land, especially for use with stereoplottting instruments.

Submitted:

C.E. Cook

C.E. Cook

Approved:

M. Keller

M. Keller

COMPILATION REPORT
T-10541

31. Delineation

The stereoplanigraph was used because of the extensive water areas.

32. Control

See Photogrammetric Plot Report

33. Supplemental data

Inapplicable

34. Contours and drainage

Inapplicable

35. Shoreline and alongshore detail

Field inspection data was used in all instances where available to delineate shoreline and alongshore details. Any areas marked on the photographs as undergoing development were delineated as of the date of photography.

36. Offshore details

Inapplicable

37. Landmarks and aids

Six channel marker buoys were located by office inspection and labeled "Buoy".

See Form 567, a part of this report, for fixed aid to navigation Canaveral Harbor Light 10.

38. Control for future surveys

Three Form 524 cards have been submitted. Two are azimuth mark stations and the third is a tidal bench mark.

39. Junctions

Inapplicable

40. Horizontal and vertical accuracy

See Photogrammetric Plot Report, paragraph No. 23

46. Comparison with existing maps

AMS Cape Canaveral, Florida	1:25,000, 1949
USGS Cape Canaveral, Florida	1:24,000, 1949
T-300	1:20,000, 1850
T-1450a	1:20,000, 1877
T-4442a	1:20,000, 1929
T-4442b	1:20,000, 1929
T-9174	1:20,000, 1948-1949

47. Comparison with nautical charts

Chart 1245, 1:80,000 1931, corrected to January 1957

"Items to be Applied to Nautical Charts Immediately:" None

As noted in paragraph No. 35 the field inspector indicated where changes were being planned or were underway, but did not furnish specific detail. Development was underway in the area of the Turning Basin.

48. Geographic name list

See separate list attached to this report.

Submitted:

C.E. Cook

C.E. Cook

Approved:

M. Keller

M. Keller

49. Notes for the hydrographer

The following recoverable topographic stations are shown on the map manuscript:

View Azimuth Mark (1929) 1957

Artesia Azimuth Mark (1953) 1957

TBM No. 2 (1956) 1957

compilation
~~PHOTOGRAMMETRIC~~ OFFICE REVIEW

T-

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) _____ 7. Photo hydro stations _____ 8. Bench marks _____ 9. Plotting of sextant fixes _____ 10. Photogrammetric plot report _____ 11. Detail points _____

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 along-shore cultural features _____

PHYSICAL FEATURES

20. Water features _____ 21. Natural ground cover _____ 22. Planetable contours _____ 23. Stereoscopic instrument contours _____ 24. Contours in general _____ 25. Spot elevations _____ 26. Other physical features _____

CULTURAL FEATURES

27. Roads _____ 28. Buildings _____ 29. Railroads _____ 30. Other cultural features _____

BOUNDARIES

31. Boundary lines _____ 32. Public land lines _____

MISCELLANEOUS

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

40. M. Keller _____
 Reviewer Supervisor, Review Section or Unit

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:

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

~~TO BE DELETED~~
TO BE CHARTED

STRIKE OUT ONE

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

Cocoa, Florida

29 March 1957

I recommend that the following objects which have ~~(have not)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing by

L.H. Swanson

Chief of Party.

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. 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.

*** TABULATE SECONDS AND METERS**

STRIKE OUT ONE

~~22 February, 1957~~

The positions given have been checked after listing by **Matthew A. Stewart**

IRA B. RUBOTTOM *Chief of Party.*

*** TABULATE SECONDS AND METERS**

T-10541

Geographic Names.

Atlantic Ocean

Banana River

Canaveral Bight

Canaveral Harbor (for moment it apparently includes the entrance channel and a small turning basin at its west end---see latest charts 1245, 1246).

Canaveral Peninsula

Florida

Long Point

Port Canaveral (this is name of village on south side of harbor. It replaces the former name of Artesia)

Turning Basin

Names approved 3-6-57.
L. Heck

The names Canaveral Harbor (village) near north edge of sheet is to be deleted, as well as Pelican Banks, Moore Point and Artesia P.O.

T-10541
Atlantic Ocean

Geographic Names.

Banana River

Canaveral Bight

Canaveral Harbor (for moment it apparently includes the entrance channel and a small turning basin at its west end—see latest charts 1245, 1246).

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Florida

Long Point

Port Canaveral (this is name of village on south side of harbor. It replaces the former name of Artesia)

Turning Basin

Names approved 3-6-57.

The names Canaveral Harbor (village) near north edge of sheet is to be deleted, as well as Pelican Banks, Moore Point and Artesia P.O.

Review Report of
Planimetric Map T-10541
April 1957

62. Comparison with Registered Topographic Surveys:

T-300 1:20000 1850
T-1450a 1:20000 1877
T-4442a and b 1:20000 1929
T-9174 1:20000 1948-49

63. Comparison with Maps of Other Agencies:

Cape Canaveral, Florida AMS 1:25000 1949
Cape Canaveral, Florida U.S.G.S. 1:24000 1949
Extensive changes as a result of the construction of
Canaveral Harbor and Turning Basin south of Cape Canaveral have
made the above listed Quadrangles obsolete.

64. Comparison with Contemporary Hydrographic Surveys:

H-8340 1:10000 1956, 1957
T-10541 furnished shoreline along the Atlantic Coast
and entrance to Canaveral Harbor prior to Review. This infor-
mation has remained unchanged.

Nautical Charts:
65. Comparison with Contemporary Hydrographic Surveys:

1245 1:80000 1931 corrected to 1/28 1957
The revised nautical chart shows the newly constructed
Canaveral Harbor, Turning Basin and related changes.

66. Adequacy of Results and Future Surveys:

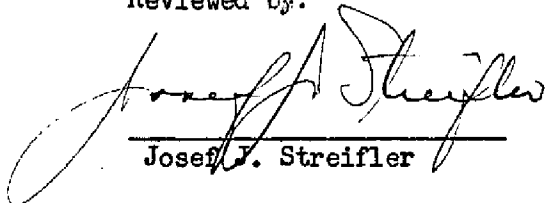
Adequate photographic coverage, control and field inspection
enabled accurate delineation of all detailing.

APPROVED:


Reviewed by:




Chief, Review and Drafting
Section, Photogrammetry Division




Josef J. Streifler



Chief, Photogrammetry Division



Chief, Nautical Chart
Branch




Chief, Coastal Surveys

Summary
to accompany Planimetric Map T-10541

This is the only map of Project ^{PH 169}~~Map 25250~~ and covers a 3 3/4 minute quadrangle at scale of 1:10000 south of Cape Canaveral, Florida. The construction of Canaveral Harbor and Turning Basin necessitated the revision of nautical charts. Single lens photography was accomplished in October 1956 and field inspection in February 1957. Shoreline information was furnished from compilation T-10541 for hydrographic survey No. 8340 (1:10000), since then completed. The subject manuscript as such is correct only as of the time of field inspection (February 1957). The field inspector noted the fact that work was yet in process and blueprints from the Corps of Engineers, U.S. Army, indicate that further construction may be anticipated.

18 April 1957


Josef J. Streifler

CAPE CANAVERAL, FLORIDA

MAP T. 10541

PROJECT NO. 25150

SCALE OF MAP 1:10,000

SCALE FACTOR 1.0

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y -COORDINATE LONGITUDE OR x -COORDINATE ZONE 3	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD	(BACK)		FORWARD	(BACK)	
BAREA, 1956	*	1927	1494719.04 634385.69						
PAREA, 1956	*	1927	1493058.39 638768.16						
1953 FRANK (AFMTC)	*	1927	1486130.53 634481.33						
EAREA, 1956	*	1927	1498074.51 630132.23						
AREA, 1956	*	1927	1491260.46 631362.77						
1957 PORT CANAVERAL LIGHTHOUSE 10A	*	1927	1482044.21 631356.80						
HOLMES, 1934		1927	1491577.96 629461.23	Good within 1 foot					
GUARD, 1950		1927	1491673.46 629087.66						
ARTESIA CAMERA PAD E, 1954		1927	1485942.67 634449.30						
ARTESIA CAMERA PAD W, 1954		1927	1485949.58 633850.16						
PORTER, 1957	*	1927	1481224.12 629432.92						
Sub Station 1957			1481231.96 628387.45						

1057

CHECKED BY: C. E. Cook

DATE

February 1957

MAP T-10541

PROJECT NO. 25150

SCALE OF MAP 1:10000

SCALE FACTOR 1.0

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y -COORDINATE LONGITUDE OR x -COORDINATE ZONE 3	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
						FORWARD	(BACK)	FORWARD	(BACK)
COCOA BEACH 1956	*	1927	1460461.13 626770.20						
Substation COCOA BEACH 1956		"	1460509.34 626749.67						
VIEW 1929		"	1475986.12 629795.71						
Substation VIEW 1929		"	1476027.43 629804.31						
LEE (P.A.A.) 1955		"	1492671.13 637539.71						
LEE AZIMUTH 1955		"	1491779.57 638813.37						
Substation LEE AZIMUTH 1955		"	1491663.86 638830.71 1485913.59						
ARTESIA 1953		"	634391.20						
CAPE CANAVERAL 1934 Light House Center			1500188.50 646622.07	Good within 1 foot					
* are imaged field positions. Adjusted field position should not change by more than two feet.									

1 FT. = 3048006 METER

COMPUTED BY:

DATE

CHECKED BY:

DATE

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): **Joseph K. Wilson, Cartographer**

Date: **February 1957**

Planetable contouring by (II): **Inapplicable**

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location):

Projection and Grids ruled by (IV):

Date:

Projection and Grids checked by (IV):

Date:

Control plotted by (III):

Date:

Control checked by (III):

Date:

Radial Plot or Stereoscopic

Date:

Control extension by (III):

Stereoscopic Instrument compilation (III):

Planimetry

Date:

Contours

Date:

Manuscript delineated by (III):

Date:

Photogrammetric Office Review by (III):

Date:

Elevations on Manuscript
checked by (II) (III):

Date:

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III):

Number	Date	PHOTOGRAPHS (III)		Scale	Stage of Tide
		Time			

Tide (III)

Reference Station:
Subordinate Station:
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range

Washington Office Review by (IV):

Date:

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III):

Shoreline (More than 200 meters to opposite shore) (III):

Shoreline (Less than 200 meters to opposite shore) (III):

Control Leveling - Miles (II): **None**

Number of Triangulation Stations searched for (II): **16**

Recovered: **14**

Identified: **9**

Number of BMs searched for (II): **2**

Recovered: **2**

Identified: **1**

Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

Remarks:

FIELD INSPECTION REPORT

T- 10541

Project ~~25150~~ PH169

Florida

2. AREAL FIELD INSPECTION

This report is submitted for one 3-3/4 minute planimetric map. The map covers a survey centered around Canaveral Harbor in Brevard County, Florida.

The north half of this map is owned by the U.S. Government, while the portion south of Canaveral Harbor is owned by private interests. The entire section was under construction during the field inspection. The government property is being enlarged; houses were being moved and land cleared etc. It will eventually include all land area north of Canaveral Harbor.

Canaveral Harbor was also under construction. Dredging operations were in progress and the entire area being changed. Plans for the development of buildings and harbor were secured from the U.S. Engineers Office. They are submitted with the data for this sheet. The contracts have been let and the work is in progress.

The south portion of the map embraces a residential area which will probably grow rapidly.

The 1956 photographs were of good quality and were easily interpreted.

3. HORIZONTAL CONTROL

All horizontal control stations, within the mapping limits, were searched for and are reported on form 526 with the exception of stations TIDE, 1929 and HOW, 1929. These two stations are houses which were reported destroyed by George E. Morris Jr. in 1948.

All horizontal control stations, as indicated on a special horizontal control diagram prepared by Washington, were recovered and identified with the following exceptions and additions: Stations MIDWAY, 1929, LUCKY, 1939 and BEACHY, 1929 were not searched for as the Geodetic Party had established a new station COCOA BEACH, 1956 in the vicinity. This new station was identified instead of LUCKY, 1939.

Station HARBOR, 1934 was not recovered. The area was visited on two different occasions and it was not found. The station is believed to be intact, but covered by drifting sand or underbrush.

Station PORTERL, 1957 is a new station recently established by the Geodetic Party. A substitute point for this station was identified in such manner as to control the western flight of photographs. This point is in the area where the special control diagram requested a new station if not too

difficult. Another new station would have been most difficult.

Station PORT CANAVERAL LIGHTHOUSE 10A is a new station which was recently established by the Geodetic Party. It was identified by the direct method.

Station ARTESIA R.M. No. 3, 1953 is destroyed.

The Geodetic Party has erected 20 and 30 foot stands over many of their 1956 and 1957 stations, therefore making it possible to identify these stations by the direct method.

No supplemental control was established.

There were no stations, recovered within the map limits, which were established by other agencies.

4. VERTICAL CONTROL

Two tidal bench marks were recovered and reported on form 685. One of these bench marks was identified on the photograph.

5. CONTOURING AND DRAINAGE

The contouring is inapplicable.

The drainage was delineated in accordance with instructions.

6. WOODLAND COVER

The cover was classified in accordance with the Topographic Manual. The vegetation is scrub oak and palmetto with scattered palm in the low areas.

7. SHORELINE AND ALONGSHORE FEATURES

The mean high-water line along the ocean beach was determined by measurements from identifiable features on the photographs. The mean high-water line along the river shore was determined from visual inspection.

The approximate low-water line has been delineated along the ocean beach in numerous areas. Also an approximate low-water line has been shown along the river shore in a few places.

The foreshore is composed of mud and shell along the river. There are no bluffs or cliffs, however the ocean beach is steeply sloping in some areas. The beach is capable of carrying light vehicular traffic at low tide.

Piers, docks etc. within the government reservation have been abandoned, therefore most of these features are shown in ruins.

Two submarine cables (one power and one communication) cross Canaveral Harbor. The shore ends are shown on the photograph.

8. OFFSHORE FEATURES

A few piling have been noted in the Banana River. No

other offshore features were noted.

9. LANDMARKS AND AIDS

There are no nautical or interior landmarks recommended.

There are no aeronautical aids.

Form 567 is submitted for one light and one daybeacon. The light was located by triangulation in 1957 by the Geodetic Party. The daybeacon was destroyed by dredging and will probably be replaced.

10. BOUNDARIES, MONUMENTS AND LINES

As was stated in paragraph 2, the northern half of the map is a part of the Cape Canaveral Auxilliary Air Force property. The south boundary of this property will be moved very soon according to officials at the Patrick Air Force Base, and will extend south to Canaveral Harbor. Both the present south limits are shown on the photographs. Buildings were being moved during this inspection and it is recommended that the most southern limits be shown. See photograph 56-W-3582.

Another small area, owned by the government, is located on the south side of Canaveral Harbor. It is known as Canaveral Terminal Unit of Patrick Air Force Base. The limits are shown on photograph 56-W-3581.

No maps or plats are submitted for these areas. They were delineated with the aid of authorities at the Patrick Air Force Base.

Field inspection of land lines was inapplicable.

11. OTHER CONTROL

There were no topographic stations or photo-hydra control established.

Two azimuth marks were located by photogrammetric methods. Form M-2226-12 is submitted for each.

12. OTHER INTERIOR FEATURES

There are no bridges, overhead cables, airports or landing fields within the limits of this map.

The field inspection of roads, houses and cultural features were done in accordance with project instructions. There are no roads with state or federal numbers within the limits of this map.

13. GEOGRAPHIC NAMES

Since Canaveral Harbor has been constructed, a number of names have been affected. They are discussed in the following paragraphs:

CANAVERAL HARBOR

This is the name for the harbor at the south end of the government reservation. It is well known and recommended.

PORT CANAVERAL

This is a new name for the settlement on the south side of Canaveral Harbor. It replaces the name ARTESIA. The post office name has recently been changed to PORT CANAVERAL. The new name is recommended.

MOORE POINT and PELICAN BANKS

These names are recommended for deletion. The land area has been changed and the names no longer apply.

Several people were consulted about geographic names in this area, but for any further future information consult the Postmaster at Port Canaveral, Florida. She is a long-time resident of this area.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Two U.S. Engineers plats of Canaveral Harbor are submitted to assist in the compilation.

Transmittal of forms 526 and 685 to Division of Geodesy, dated 1 March 1957.

Ira R. Rubottom
Chief, Photogrammetric Party 1

Submitted by:

28 February 1957

Joseph K. Wilson

Joseph K. Wilson

Cartographer

NOTES TO COMPILER
T-10541

Since this area is changing so rapidly at this time, both Comdr. Tison and the writer feel that much of the map data will become obsolete in the near future. Comdr. Tison has offered to assist the Division of Photogrammetry in supplying up-to-date material. He also has suggested that Pan American Airways flys new photographs of this area about once a month and that he could supply the office with these photographs.

It is believed that positions of three new stations, established by Lt. Nygren, have been forwarded to Washington. However, listed below are positions as copied by the writer from Lt. Nygren's records:

COCOA BEACH, 1956	Lat. 28-21-03.589	Long. 80-36-21.133
Porteral, 1957	Lat. 28-24-29.0906	Long. 80-35-50.5552
PORT CANAVERAL L.H. 10A	28-24-37.147	Long. 80-35-28.98

Joseph K. Wilson
Joseph K. Wilson
Cartographer