

10677

10677

FORM C&GS-504

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey SHORELINEField No. _____ Office No. T-10677

LOCALITY

State ALASKAGeneral locality CORONATION ISLANDLocality EGG HARBOR - ALIKULA BAY1955

CHIEF OF PARTY

E. W. Richards, Chief of Field Party
William F. Deane, Baltimore District Officer
Alfred C. Holmes, Director, A. M. C.

LIBRARY & ARCHIVES

DATE _____

DESCRIPTIVE REPORT - DATA RECORD

1

T-10676, T-10677 and T-10680

Project No. (II): Ph-5702

Quadrangle Name (IV):

Field Office (II): USC&GS Ship HODGSON

Chief of Party: E. W. Richards

Photogrammetric Office (III): Baltimore, Md.

Officer-in-Charge: William F. Deane

Instructions dated (II) (III): 27 November 1957

Copy filed in Division of
Photogrammetry (IV)

Method of Compilation (III): Air Photographic (Multiplex)

Manuscript Scale (III): 1:10,000

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

Scale Factor (III): 1.000

Date received in Washington Office (IV):

20 OCT 1958
Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

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): WIND, 1922

Lat.: 55° 51' 16.297"

Long.: 134° 20' 48.158"

Adjusted
~~20100228~~

Plane Coordinates (IV):

State: Alaska

Zone: 8 (UTM)

Y=

X=

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.

DESCRIPTIVE REPORT - DATA RECORD

2

Field inspection by (II): E. W. Richards
J. P. Randall
M. D. Christensen

(Horizontal control
Identification only)

Date: 1957

Planetable contouring by (II):

Date: -

Completion Surveys by (II):

Date: -

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

21 September 1955 air photographic (Multiplex)
(date of photography)

Projection and Grids ruled by (IV): Haskins

Date: 25 Nov. 1957

Projection and Grids checked by (IV): I. Y. Fitzgerald

Date: 26 Nov. 1957

Control plotted by (III): J. D. McEvoy
J. C. Cregan

Date: 9 Dec. 1957

Control checked by (III): B. Kurs

Date: 10 Dec. 1957

Radial Plot or Stereoscopic

Date: 17 Jan. 1958

Control extension by (III): D. M. Brant

Planimetry D. M. Brant

Date: 20 Jan. 1958

Stereoscopic Instrument compilation (III):

~~XXXXXX~~

Date: -

Manuscript delineated by (III): C. A. Lipscomb

Date: 18 April 1958

Photogrammetric Office Review by (III): D. M. Brant

Date: 30 Sept. 1958

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

Date: ----

DESCRIPTIVE REPORT - DATA RECORD

3

Camera (kind or source) (H1): U.S.C. & G.S. Type W, 6" Focal length.

Number	Date	Time	Scale	Stage of Tide
T-10676				
55-W-9292 thru 9295	9/21/55	1247	1:25,000	2.5' below MHW
T-10677				
55-W-9322 thru 9324	"	1314	"	1.8' below MHW
9299 thru 9301	"	1256	"	2.3' below MHW
T-10680				
55-W-9290 thru 9292	"	1246-1247	"	2.5' below MHW
9317	"	" "	"	1.9' below MHW

Tide (III)
From Predicated Tables

Reference Station: Sitka Alaska
 Subordinate Station: Port McArthur, Kuiu Is.
 Subordinate Station:

Atlantic Marine Center
~~Washington State~~ Review by (IV):

C. H. Bishop

Date: 10-19-71

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):

Number of Triangulation Stations searched for (II):

Recovered:

Identified:

Number of BMs searched for (II):

Recovered:

Identified:

Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

Remarks:

* T-10676 - 2.5 sq. mi.
 T-10677 - 8.0 sq. mi.
 T-10680 - 1.0 sq. mi.

** T-10676 - 8 mi.
 T-10677 - 15 mi.
 T-10680 - 4 mi.

Diurnal		
Ratio of Ranges	Mean Range	Spring Range
--	7.7	9.9
1.1	8.4	10.6

T-10677

COMPILATION RECORD

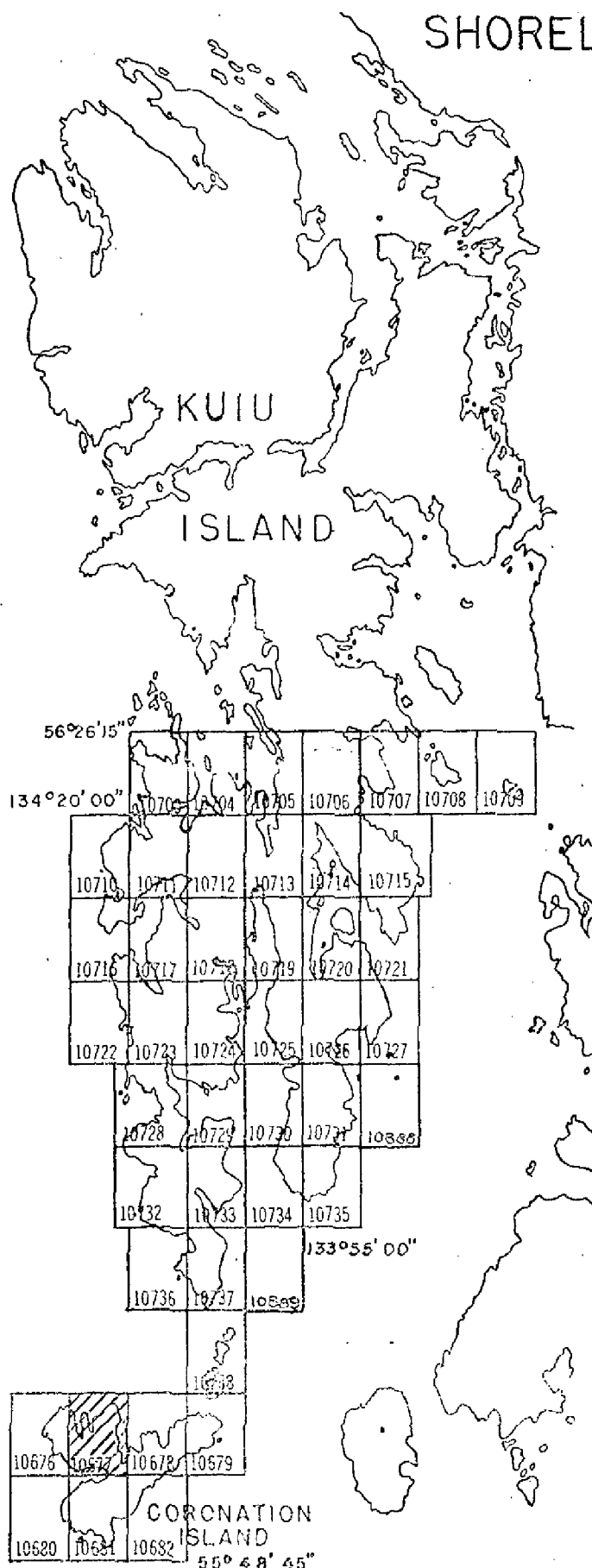
COMPLETION DATE

REMARKS

Alongshore area for hydrography	April 1958	
Final review	Oct. 1971	

SHORELINE MAPPING PROJECT

Ph-5702

CORONATION and
KUIU ISLANDS,
ALASKAOfficial Release For Cost AccountsCHATHAM
STRAIT

Sheet No.	Area Sq. Mi.	Lin. Mi. Shoreline
10676	2	3.4
10677	8	11.1
10678	6	7.7
10679	3	6.0
10680	1	1.5
10681	8	7.7
10682	2	2.6
10703	10	11.5
10704	6	12.8
10705	9	11.9
10706	14	2.6
10707	4	7.7
10708	2	9.4
10709	1	3.0
10710	5	6.8
10711	11	7.7
10712	14	9.9
10713	12	9.4
10714	5	8.5
10715	11	6.8
10716	4	5.1
10717	9	11.1
10718	13	6.0
10719	8	11.1
10720	9	8.5
10721	4	8.5
10722	2	4.3
10723	14	3.4
10724	11	10.2
10725	8	7.7
10726	11	4.3
10727	3	4.5
10728	10	14.5
10729	6	11.9
10730	5	4.3
10731	10	6.0
10732	10	6.0
10733	9	5.1
10734	3	3.4
10735	4	4.7
10736	1	1.5
10737	6	8.5
10738	1	6.8
TOTAL	295	298.8

SUMMARY

DESCRIPTIVE REPORT T-10677

This shoreline manuscript, scale 1:10,000, is one of 45 maps planned for Project PH-5702, which includes the south half of Kuiu Island, Spanish Islands, and Coronation Island, in Southeast Alaska. Only 33 maps were compiled. T-10677 includes Egg Harbor and Alikula Bay on the north side of Coronation Island.

Bridging was by Multiplex, using single-lens photography taken near high water on September 21, 1955. The bridge was run between field identified horizontal control points. Detail points were dropped directly to the plastic sheets and compilation was done graphically, without the benefit of field inspection. Classification of this map is INCOMPLETE.

This map was not involved in photo-hydro support. There was no field edit.

Final review was done at the Atlantic Marine Center in October 1971.

The compilation manuscript was an acetate sheet 3 minutes 45 seconds in latitude by 5 minutes in longitude.

A cronaflex copy of the final reviewed manuscript and a negative have been forwarded for record and registry.

PHOTOGRAMMETRIC PLOT REPORT
Project Ph-5702

Field Inspection Report - None submitted. Report on horizontal control attached.

21. AREA COVERED

T-10738, T-10676, T-10677, T-10678, T-10679, T-10680, T-10681 and T-10682.

22. METHOD

Multiplex bridges were run between horizontal control points as shown on Sketch of Control attached. The 1:10,000 scale projections on plastic were used directly under the multiplex bar and detail points plotted for subsequent delineation, using ratio prints. It was endeavored to obtain a consistent set of points for this purpose and also for use by the hydrographer. In comparing shoreline points in overlapping flights, it was noted that identical points were very difficult to identify.

23. ADEQUACY OF CONTROL

Identification of horizontal control on the Spanish Islands was adequate. Identified control on Coronation Island is sparse. Three points, namely, LAST, 1922; HEIN, 1922 and AATS, 1922 are poorly located with respect to the photography. As noted in correspondence, attached, between the Director and Chief of Party (field), the geographic position of TOP-, 1922 was in considerable error. No other control point in the area was provided. All other horizontal control points, where visible, were held within a probable error of 0.5 mm. Many of the points were not distinct enough to be pin-pointed. The field inspection party's choice of well-defined points was limited. Control is adequate for an allowable error of between 0.5 mm. and 1.0 mm.

The field party furnished two Sub. Pts. for most of the stations identified by this method. This was helpful as often only one point was discernible in the models. The following points were either not visible or identification was very doubtful:

- WIT, 1922 - Sub. Pt. 1 - Not visible.
- WIND, 1922 - Sub. Pt. 1 - Not visible.
- TRE, 1922 - Sub. Pt. 2 - Not visible.
- POLE, 1922 - Sub. Pt. 2 - Doubtful.
- NO, 1922 - Sub. Pt. B - Doubtful.

Two points, ISLE, 1922 and CORONATION ISLAND HIGHEST PEAK, 1916 2343 identified on the photographs with the notations "probable location".

They appeared to hold very well. In addition, office identification from published descriptions was attempted for several other points. Of these the following appeared reasonable with regard to our bridging solutions:

HI, 1922
END, 1922
PIN, 1922

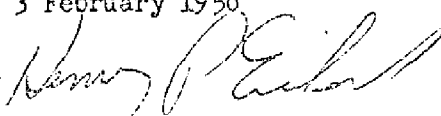
24. SUPPLEMENTAL DATA

None.

25. PHOTOGRAPHY

Coverage and overlap of photography was adequate. Diapositives were good.

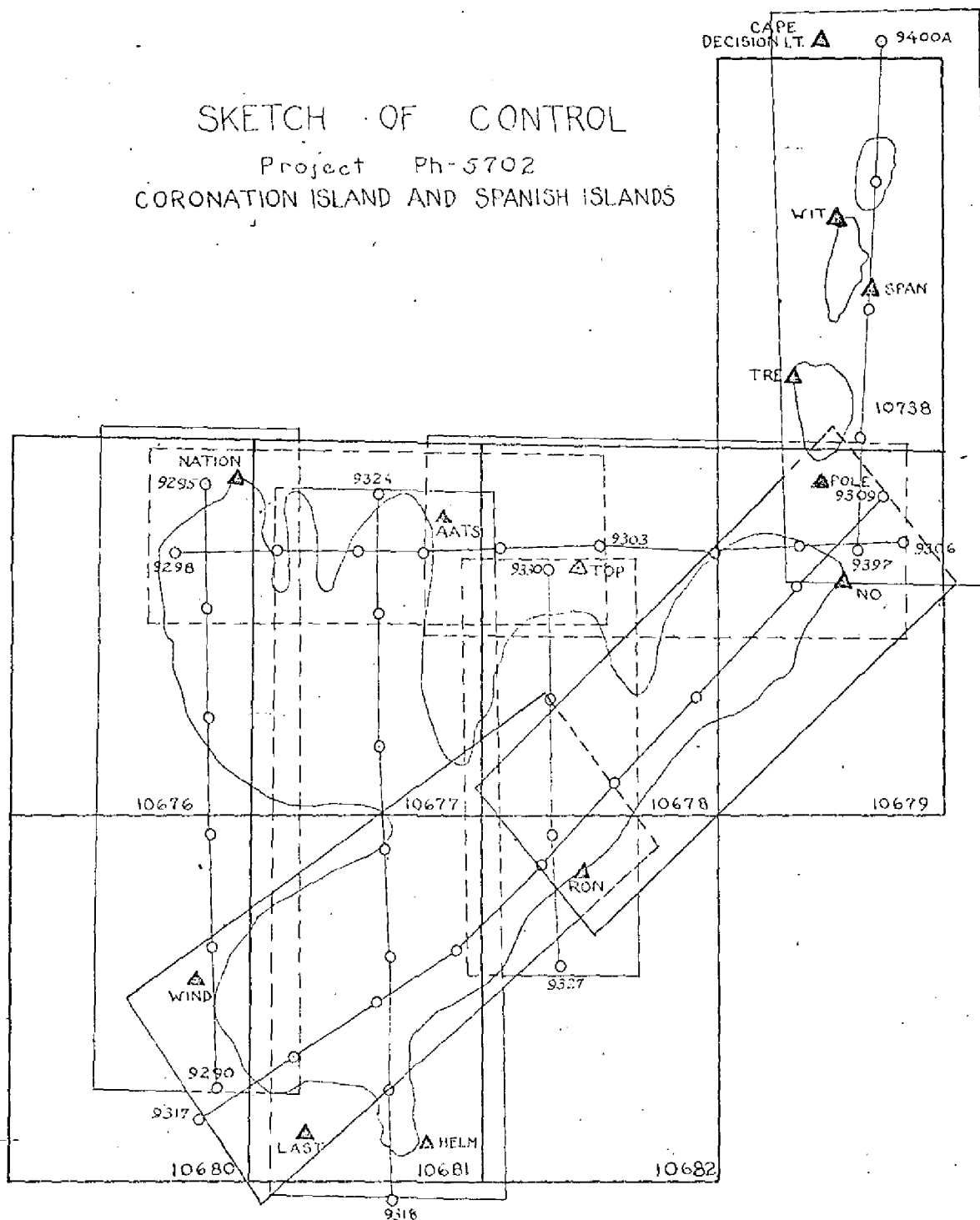
Respectfully submitted
3 February 1958



Henry P. Eichert
Super. Carto. (Photo.)

SKETCH OF CONTROL

Project Ph-5702
CORONATION ISLAND AND SPANISH ISLANDS



LEGEND

- ▲ Identified and held
- △ Identified and not held

HORIZONTAL CONTROL

Only control station identification was attempted on the Spanish Islands and Coronation Island. Receipt of instructions and field data for this project was received so late in the season that landing conditions were not ideal and in some cases impractical to attempt. The stations were visited on different dates until it was apparent that it was uneconomical to continue offshore operations at an expense to our inshore hydrography which still had a few holidays.

A total of 13 stations of the 15 requested were inspected. The discrepancy in position of station TOP was not resolved in the field as mentioned in the Director's letter of 20 Sept. 1957, File No. 731-lfs due to unfavorable weather. Possibly a position for the unstamped disk can be obtained from records of the previous hydrographic survey in 1922-23.

Control Identification By

E. W. Richards

J. P. Randall

M. D. Christensen

Approved and forwarded:



E. W. Richards,
LCDR, C&GS
Comdg., Ship HODGSON

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

RECEIVED
MAIL ROOM

POST-OFFICE ADDRESS: Ship HODGSON, Edna Bay, Alaska

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

SEP 15 10 44 AM

COAST & GEODETIC SURVEY

11 Sept. 1957

To: The Director
Coast and Geodetic Survey
Washington 25, D. C.

Att.: Chief, Photogrammetry Division

Subject: Instructions - Project PH-87.

There appears to be a discrepancy in the G. P. of station TOP 1922 on Coronation Island which was to have been photo-identified before the completion of this season.

An unstamped hydrographic disk was found on the point in Lat. $55^{\circ} 54' 5''$, Long. $134^{\circ} 13' 5''$ W. and fits the description for the station. However, the G. P. Plots on a rock which is awash only at low water. A check of the records in your office may clear up this difference.

Identification of horizontal control is progressing as rapidly as weather and landing conditions permit, which is difficult on the open coast at this time of the year. To date, all of the identification is complete on Kuiu Island, Spanish Islands, and on the northern portion of Coronation Island.

E. W. Richards
E. W. Richards,
LCDR, C&GS
Comdg., Ship HODGSON

731-lfs

20 September 1957

To: LCDR E. W. Richards
USCGC Ship MORGSON
Edna Bay, Alaska

Subject: Station TOP 1922, Project PH-27 *570 2*

An observation was found in the 1922 records from station CORA to TOP. Using this observation and the one from AATS, a new position for TOP was computed, but it plots (Lat. 55-54-28.68, Long. 134-12-10.51) at the northeast end and not at the northwest end of the point as noted in your letter of 11 September.

The angles CHAN and CORA in the triangle TOP-CHAN-CORA sum to 135°, indicating one of the directions is in error. Since the discrepancy in positions cannot be resolved here, station TOP should be rejected, unless you can determine a new position for it. If the station is not re-located, please substitute station CHAN for photo-identification.

(Signed) Charles Pierce

Assistant Director

cc: Seattle District Officer

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U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

MAP T-10676, T-10677, PROJECT NO. Ph-5702 SCALE OF MAP 1:10,000 SCALE FACTOR 1.000

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR U-COORDINATE LONGITUDE OR X-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS	DATUM CORRECTION	N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
T-10676: NATION, 1886-1922	G-609 p. 333	N.A. 1927	55 55 44.283 134 20 02.351	1369.6 (486.1) 40.8 (1001.1)			
Sub. Sta. NATION		"	55 55 134 20	1363.3 (492.4) 8.4 (1033.5)			
HI, 1922	G-609 p. 338	"	55 54 22.081 134 21 53.108	682.9 (1172.8) 922.8 (119.7)			
T-10677: AATS, 1922-25	G-609 p. 337	"	55 55 48.808 134 16 00.484	1509.5 (346.1) 8.4 (1033.4)			
Sub. Sta. AATS		"	55 55 134 15	1547.0 (308.6) 1039.3 (2.5)			
CORONATION IS HIGHEST PEAK, 1916	G-609 p. 205A	"	55 53 21.75 134 19 13.19	672.7 (1183.0) 229.3 (813.7)			
CORONATION IS BARREN PEAK, 1916	"	"	55 54 50.17 134 19 46.85	1560.9 (294.7) 813.9 (228.4)			
NOT, 1922	G-609 p. 344	"	55 53 08.91 134 19 30.83	275.6 (1580.1) 535.9 (507.1)			
PIN, 1922-23	G-609 p. 337	"	55 54 49.594 134 19 48.980	1533.9 (321.8) 850.8 (191.4)			
T-10680: WIND, 1922	G-609 p. 338	"	55 51 16.297 134 20 48.158	504.0 (1351.6) 837.8 (206.0)			6
Sub. Sta. 1 WIND, 1922		"	55 51 134 20	501.0 (1354.6) 840.4 (203.4)			-
Sub. Sta. 2 WIND, 1922		"	55 51 134 20	477.3 (1378.3) 862.0 (181.8)			13

COMFILATION REPORT
(Preliminary)
T-10676, 10677 & 10680

Refer to the Preliminary Descriptive Report for T-10679 and 10738
for Horizontal Control, and Photogrammetric Plot Reports.

31 through 38.

Refer to Preliminary Descriptive Report for T-10679 and 10738.

39. JUNCTIONS

T-10676:

Junction was made to the south with T-10608 and to the east with
T-10677. There are no other junctions to be made.

T-10677:

Junction was made to the south with T-10681, to the east with T-10678
and to the west with T-10676. There is no junction to the north.

T-10680:

Junction was made to the north with T-10676 and to the east with
T-10681. There are no other junctions to be made.

40 through 47.

Refer to Preliminary Descriptive Report for T-10679 and 10738.

Respectfully submitted
15 October 1958

Donald M. Brant

Donald M. Brant
Carto. (Photo.)

Approved and forwarded

William F. Deane
William F. Deane
CDR C&CS
Baltimore District Officer

COMPILATION REPORT
(Preliminary)
T-10738 & T-10679

31. DELINEATION

Shoreline and all details were delineated by graphic methods using detail points established by the multiplex bridging. 1:10,000 ratio points were ordered to scale for this purpose and for subsequent use by the hydrographer.

32. CONTROL

Refer to Photogrammetric Plot Report bound with this report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

Shoreline and details were delineated from office inspection without benefit of field inspection. Hence it is classified in the category "incomplete". Many offshore rocks and small islands were delineated by office interpretation. Other areas that may be rocks, ledge or kelp have been enclosed with a broken line and labeled foul. Some shoreline obscured by shadow, or overhang was delineated with the approximate shoreline symbol.

36. OFFSHORE DETAILS

No comment.

37. LANDMARKS AND AIDS

None.

38. CONTROL FOR FUTURE SURVEYS

There were no Recoverable Topographic points established. Detail points established along the shoreline will aid the hydrographic party in locating photo-hydro signals.

39. JUNCTIONS

Junction was made to the south of T-10738 with T-10679 and to the west of T-10679 with T-10678. There are no other junctions to be made.

40. HORIZONTAL AND VERTICAL ACCURACY

Refer to Photogrammetric Plot Report, item 23, attached.

41. through 45.

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

None available.

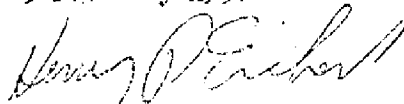
47. COMPARISON WITH NAUTICAL CHARTS

Chart No. 8173, scale 1:40,000, published March 1939, 2nd edition, 10/22/51.

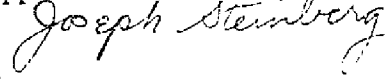
Items to be applied to nautical charts immediately: None.

Items to be carried forward: None.

Respectfully submitted
5 February 1958


Henry P. Eichert
Super. Carto. (Photo.)

Approved and forwarded


For
William F. Beane
CER C&GS
Baltimore District Officer

October 26, 1971

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-5702 (Alaska)

T-10677

Aats Bay

Aats Point

Alikula Bay

Christian Sound

Coronation Island

Egg Harbor

Pin Peak

Windy Bay

Windy Peak

Approved by:

A. Joseph Wraight
A. Joseph Wraight
Chief Geographer

Prepared by:

Frank W. Pickett
Frank W. Pickett
Cartographic Technician

T-10676, T-10677 & T-10680

59. NOTES FOR THE HYDROGRAPHER

A set of ratio prints at a scale of 1:10,000 has been prepared. Detail points along the shoreline have been established for use in locating hydrographic signal sites. They have been shown on the photographs.

REVIEW REPORT T-10677

SHORELINE

October 19, 1971

61. GENERAL STATEMENT:

See Summary on page 6 of this Descriptive Report.

An ozalid comparison print, pages 20 through 27 , with differences noted in Items 62, 63, and 65 is bound with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with Survey No. 4054, scale 1:20,000, dated 1923. Differences between this survey and T-10677 are shown in blue on the comparison print.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A visual comparison was made with U.S.G.S. Quadrangle CRAIG (D-7 and D-8), ALASKA, scale 1:63,360, dated 1948. Significant differences between this map and T-10677 are noted in brown on the comparison print.

Because of the great difference in scale, shoreline on the U.S.G.S. map is much more generalized than on T-10677.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

None available for final review.

65. COMPARISON WITH NAUTICAL CHARTS:

A visual comparison was made with Chart 8173, Scale 1:40,000, 5th edition, dated August 30, 1969. Shoreline is more detailed on T-10677 than on the chart. Several charted rocks were not compiled on T-10677 because they were not visible on the photographs. Significant differences are noted in red on the comparison print.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This INCOMPLETE survey complies with Job Instructions and Bureau requirements. Control was adequate for mapping with a probable error between 0.5 mm and 1.0 mm. No accuracy tests were run in the field.

Reviewed by:

Charles H. Bishop

Charles H. Bishop
Cartographer
October 19, 1971

Approved for forwarding:

Melvin J. Umbach

Melvin J. Umbach, CDR, NOAA
Chief, Photogrammetry Division, AMC

Approved:

Alfred C. Holmes

Alfred C. Holmes, RADM, NOAA
Director, Atlantic Marine Center

Approved:

Charles E. Luth

Chief, Photogrammetric Branch

Jack E. Luth

Chief, Coastal Mapping Division

134°20'00"

19'30"

191

55°56'

COMPARISON PRINT

Red = Chart 8173

Brown = U. S. G. S.

EGG HARBOR

chart and usgs

55°55'00"

55 W 9299
PIN PEAK

NS SURVEY NO T-10676

CORONATION IS
BARREN PEAK 1916
PIN, 1922-23

19' *

18'30"

18'

21

134°17'30"

9324



ALIKULA BAY

COMPARISON PRINT

Blue = T-4054

Foul

Foul

Foul

55°55'00"

9300

54'30"

18'

134°17'30"

19'

18'30"



134° 17' 00"

16' 30"

134° 16' 00"

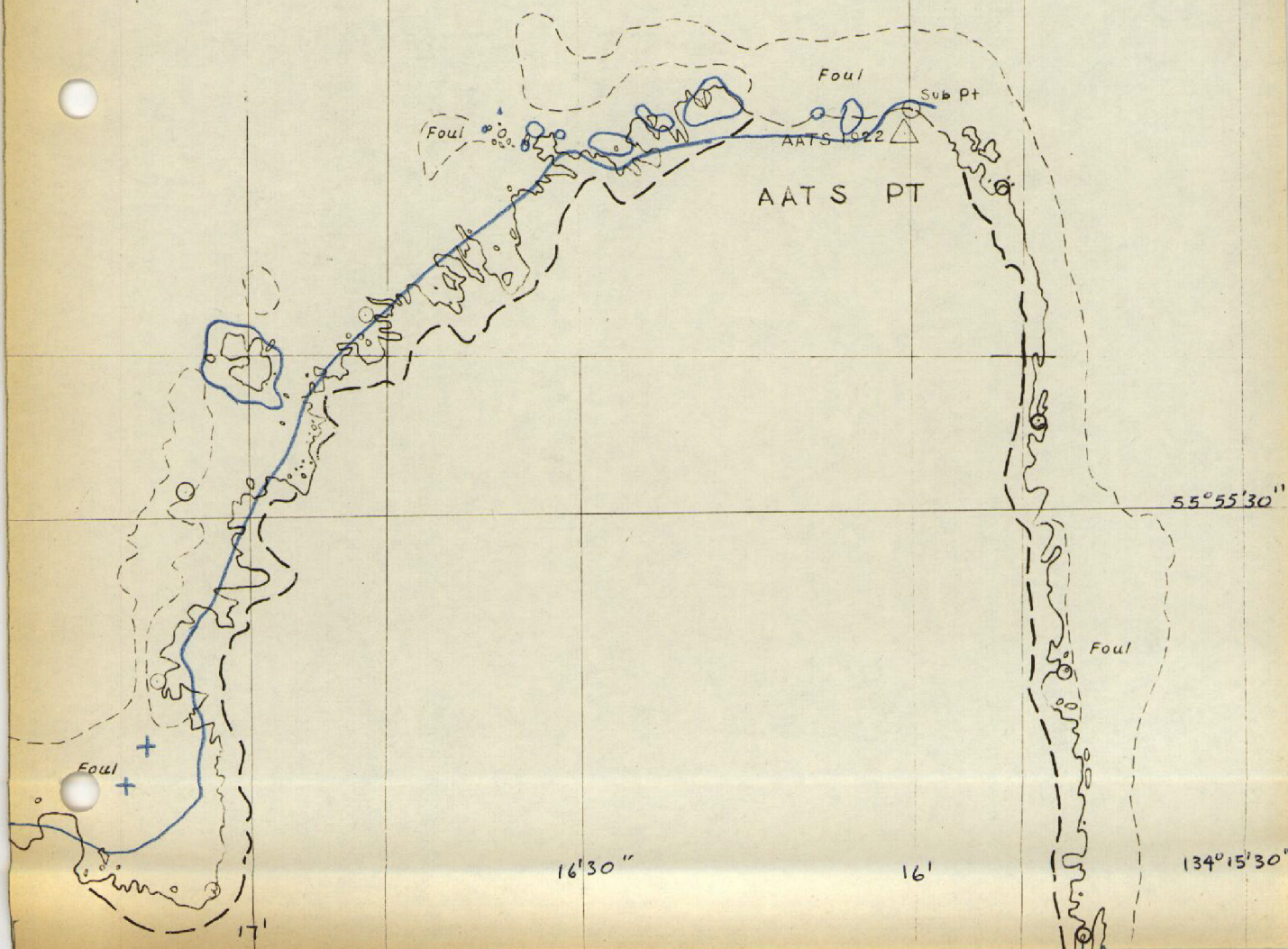
2' 54" 000

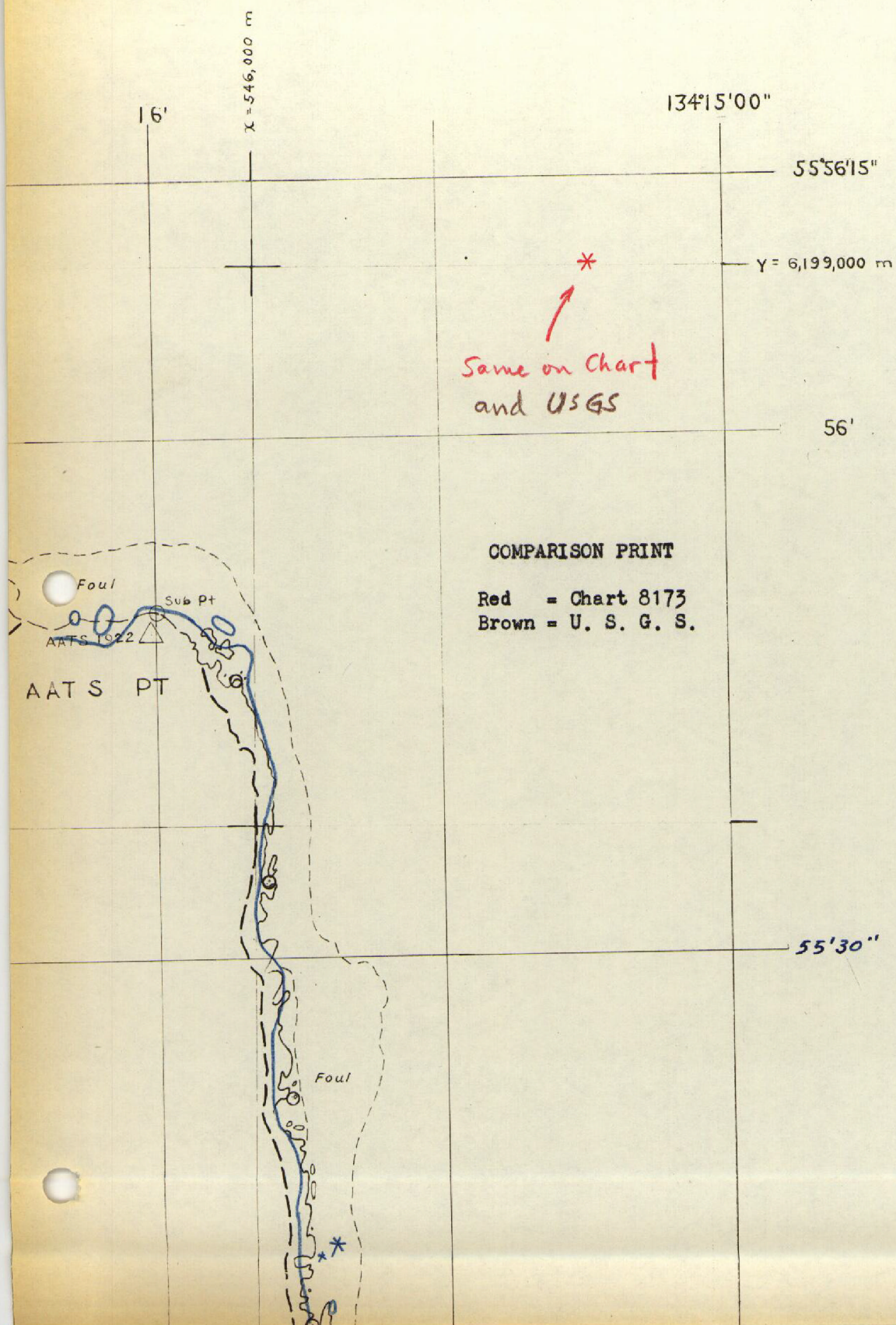
15' 30"

COMPARISON PRINT

Blue = T-4054

55° 56'





16'

15' 30"

134° 15' 00"

55° 55' 00"

9301

COMPARISON PRINT

Blue = T-4054

JOINS SURVEY NO T-10678

54' 30"

AATS BAY

55° 54'

16'

15' 30"

134° 15' 00"



16'

15' 30"

134°15'00"

55°53'30"

*chart shows
rk aw*

53'

COMPARISON PRINT

Red = Chart 8173

Brown = U. S. G. S.

SHORELINE SURVEY
T-10677

SCALE 1:10,000

CORONATION ISLAND
EGG HARBOR - ALIKULA BAY
POLYCONIC PROJECTION
UTM ZONE 8
HORIZONTAL DATUM : NA 1927

55°52'30"

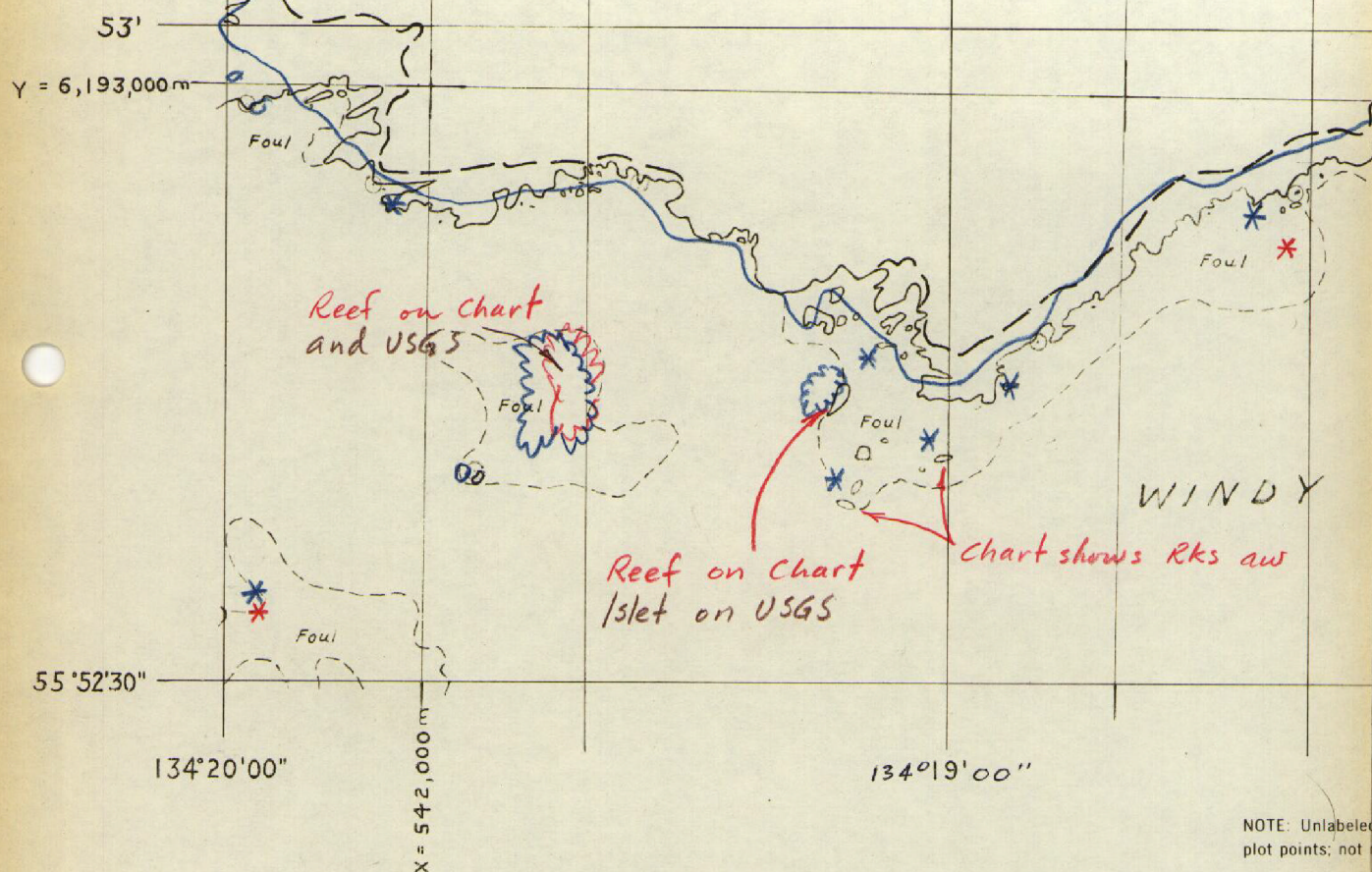
15' 30"

16'

134°15'00"

△ CORONATION IS
HIGHEST PEAK, 1916

WINDY PEAK
NOT 1922



COMPARISON PRINT
Red = Chart 8173
Brown = U. S. G. S.

18'

17'30"

134°17'

27

53'30"

COMPARISON PRINT

Blue = T-4054



9322

55°53'00"

Foul

Foul

INDY BAY

JOINS SURVEY NO T-10681

52'30"

134°18'

17'30"

134°17'