

12060

orig

Diag. Cht. No. 6450-2.

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey <u>SHORELINE (PHOTOGRAMMETRIC)</u>	
Field No. <u>Ph-6101</u>	Office No. <u>T-12060</u>
LOCALITY	
State <u>WASHINGTON</u>	
General locality <u>ADMIRALTY INLET</u>	
Locality <u>BLYN</u>	
<u>1960-1962</u>	
CHIEF OF PARTY	
<u>FRED NATELLA</u>	
LIBRARY & ARCHIVES	
DATE <u>May 1964</u>	

USCOMM-DC 5087

12060

788

DESCRIPTIVE REPORT - DATA RECORD
T - 12060

PROJECT NO. (II):

PH-6101

FIELD OFFICE (II):

PORT TOWNSEND, WASHINGTON

CHIEF OF PARTY

FRED NATELLA

UNIT CHIEF

R. B. MELBY

PHOTOGRAMMETRIC OFFICE (III):

PORTLAND, OREGON

OFFICER-IN-CHARGE

FRED NATELLA

INSTRUCTIONS DATED (II) (III):

14 MARCH 1961 II, III

AMENDMENT 1: 8 MAY 1961 II, III

AMENDMENT 1: 17 MAY 1961 II, III

AMENDMENT 4: 14 DECEMBER 1962 III

METHOD OF COMPILATION (III):

KELSH INSTRUMENT

MANUSCRIPT SCALE (III):

1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:6000

PANTOGRAPH 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):

GEOGRAPHIC DATUM (III):

N.A. 1927

VERTICAL DATUM (III):

MEAN SEA LEVEL EXCEPT AS FOLLOWS: ☒ X
 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):

BLYN (USE) 1920

LAT.:

48° 01' 49.898"

LONG.:

122° 59' 48.811"

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

383,345.09

x = 1,470,684.31

STATE

WASHINGTON

ZONE

NORTH

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.

FORM C&GS-187b
(12-61)U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (III): R. B. MELBY; L. L. RIGGERS		DATE: AUG.-SEPT. 1962
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): AUG. - SEPT. 1962 BY FIELD INSPECTION COMPILED BY KELSH INSTRUMENT.		
PROJECTION AND GRIDS RULED BY (IV): A.R.		DATE 12-26-62
PROJECTION AND GRIDS CHECKED BY (IV): W.M.		DATE 12-27-62
CONTROL PLOTTED BY (III): J. L. HARRIS		DATE 1-24-63
CONTROL CHECKED BY (III): L. L. GRAVES		DATE 1-24-63
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): HENRY P. EICHERT		DATE DEC. 1962
STEREOSCOPIC INSTRUMENT COMPILED BY (III):	PLANIMETRY R. H. MEYER	DATE 3-11-63
	CONTOURS NONE	DATE
MANUSCRIPT DELINEATED BY (III): SMOOTH DRAFT: D. N. WILLIAMS		DATE 3-19-63
SCRIBING BY (III): STICK-UP: C. C. HARRIS		DATE 5-15-63
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): ROUGH DRAFT: J. L. HARRIS ADVANCE: J. L. HARRIS		DATE 3-15-63 5-24-63
REMARKS:		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

C&GS SINGLE LENS "W"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
60 W 1985 THRU 1987	9-21-60	11:25	1:30,000	2.5' ABOVE M.L.L.W.
60 W 1942 AND 1943	"	10:52	"	1.9' " "
COMPUTED FROM PRE-DICTED TIDE TABLES.				

TIDE (III)

	RATIO OF RANGES	MEAN RANGE	DIURNAL SPRING RANGE
REFERENCE STATION: PORT TOWNSEND, WASHINGTON		5.1	8.3
COORDINATE STATION: SEQUIM BAY ENTRANCE, WASHINGTON		4.8	7.9
SUBORDINATE STATION:			
WASHINGTON OFFICE REVIEW BY (IV):	DATE:		
PROOF EDIT BY (IV):	DATE:		
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): - 10	RECOVERED: 10	IDENTIFIED: 2	
NUMBER OF BM(S) SEARCHED FOR (II): 0	RECOVERED: 0	IDENTIFIED	

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): NONE

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): 5

REMARKS:

FIELD INSPECTION REPORT

MAP MANUSCRIPT T-12060

PROJECT PH-6101

REFER TO THE FIELD INSPECTION REPORT FOR T-12050 THRU T-12056
AND T-12059 THRU T-12063 INCLUDED WITH THE DESCRIPTIVE REPORT FOR
T-12050. ALSO REFER TO THE SPECIAL REPORT, "NOTES TO COMPILER"
BY ROBERT B. MELBY, DATED 4 AUGUST 1961.

* See Desc. Report T12054

PHOTOGRAMMETRIC PLOT REPORT

MAP MANUSCRIPT T-12060

PROJECT PH-6101

REFER TO THE PHOTOGRAMMETRIC PLOT REPORT No. 2, BY HENRY P.
EICHERT, DECEMBER 1962 AND INCLUDED WITH THE DESCRIPTIVE REPORT
FOR T-12050.

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

MAP T-12060

PROJECT NO. P-6101

SCALE OF MAP 1:10,000

SCALE FACTOR

STATION	WASH.N. SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -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		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD	(BACK)		FORWARD	(BACK)	
1962 BLYN (USE) 1920	1962 S-12941 P-352	N.A. 1927	383,345.09 1,470,684.31	3345.09 684.31	(1654.91) (4315.69)		1019.6 208.5	(504.4) (1315.5)	
1962 BLYN 2 (USE) 1955	P-355	"	383,484.67 1,470,695.37	3484.67 695.37	(1515.33) (4304.83)		1062.1 211.9	(461.9) (1312.1)	
BLYN MTN., BORDER PATROL MAST, 1962	FIELD S-12941 COMP.	"	374,737.16 1,476,684.20	4737.16 1684.20	(262.84) (3315.80)		1443.9 513.5	(80.1) (1010.7)	
BLYN L.O. 1955	P-344	"	374,598.36 1,476,725.84	4598.36 1725.84	(401.64) (3274.16)		1401.58 526.04	(122.42) (997.96)	
BLYN LOOKOUT TOWER, 1961	FIELD S-12941 COMP.	"	374,567.12 1,476,706.58	4567.12 1706.58	(432.88) (3293.42)		1392.1 520.2	(131.9) (1003.8)	
BM X 14, 1955	P-355	"	390,395.60 1,478,185.34	395.60 3185.34	(4604.40) (1814.66)		120.58 970.89	(1403.42) (553.11)	
BM 59 (USE) 1955	P-355	"	390,422.70 1,477,935.58	422.70 2953.58	(4577.30) (2046.42)		128.84 900.25	(1395.16) (623.75)	
GREEN 1926	P-394	"	374,575.94 1,476,723.04	4575.94 1723.04	(424.06) (3276.96)		1394.75 525.18	(129.25) (998.82)	
KNAPP 1955	P-348	"	390,581.55 1,478,110.16	581.55 3110.16	(4418.45) (1889.84)		177.26 947.98	(1346.74) (576.02)	
BLYN (USE) LOOK- OUT TOWER 1955	P-354	"	374,565.41 1,476,718.94	4565.41 1718.94	(434.59) (3281.06)		1391.54 523.93	(132.46) (1000.06)	90°
NOTE									
THESE CHANGES HAVE BEEN MADE AS A RESULT OF NEW WORK IN 1962.									
ALL POSITIONS SHOWN IN 1957 ARE ADJUSTED POSITIONS									

1 FT. = 3048006 METER
COMPUTED BY: L.L.G.

DATE 1-17-63

CHECKED BY: D.N.W.

DATE 1-18-63

COMPILATION REPORT

MAP MANUSCRIPT T-12060

PROJECT PH-6101

ITEMS 31 THRU 33:

REFER TO THE COMPILATION REPORT FOR T-12065.

ITEM 34:

REFER TO THE COMPILATION REPORT FOR T-12063.

35. SHORELINE AND ALONGSHORE DETAILS:

ALL INFORMATION UNDER THIS SIDE HEADING OF THE COMPILATION REPORT FOR T-12065 IS APPLICABLE TO THIS MAP MANUSCRIPT WITH THE EXCEPTION THAT THE PHOTOGRAPHY USED FOR COMPILATION WAS TAKEN AT A PREDICTED TIDE OF 2.5 FEET ABOVE M.L.L.W.

36. OFFSHORE DETAILS:

NONE.

37. LANDMARKS AND AIDS:

NONE.

38. CONTROL FOR FUTURE SURVEYS:

FIVE PHOTO-HYDRO STATIONS WERE IDENTIFIED BY THE FIELD UNIT AND LOCATED DURING KELSH INSTRUMENT COMPILATION. THEIR NUMBERS AND DESCRIPTIONS ARE LISTED UNDER PARAGRAPH 49, NOTES TO THE HYDROGRAPHER.

39. JUNCTIONS:

SATISFACTORY JUNCTIONS WERE MADE WITH T-12059 TO THE WEST; WITH T-12053 TO THE NORTH AND WITH T-12061 TO THE EAST. THERE IS NO CONTEMPORARY SURVEY TO THE SOUTH.

46. HORIZONTAL AND VERTICAL ACCURACY:46. COMPARISON WITH EXISTING MAPS:

COMPARISON WAS MADE WITH THE U.S.G.S. 7½ MINUTE GARDINER,
WASHINGTON QUADRANGLE, SCALE 1:24,000, EDITION 1953.

47. COMPARISON WITH NAUTICAL CHARTS:

COMPARISON WAS MADE WITH NAUTICAL CHART 8403, SCALE 1:40,000,
5TH EDITION, OCT. 23, 1941, REVISED 6-20-60.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

NONE.

ITEMS TO BE CARRIED FORWARD:

NONE.

APPROVED:

RESPECTFULLY SUBMITTED:

Fred Natella
FRED NATELLA, CAPT, C&GS
PORTLAND DISTRICT OFFICER

James L. Harris
JAMES L. HARRIS
CARTOGRAPHER

48. GEOGRAPHIC NAME LIST:

THE GEOGRAPHIC NAMES LISTED BELOW AND SHOWN ON THIS MANUSCRIPT
WERE FURNISHED BY THE WASHINGTON OFFICE ON A FINAL NAME SHEET, A
COPY OF THE 7½ MINUTE U.S.G.S. GARDINER, WASHINGTON QUADRANGLE
SCALE 1:24,000, EDITION 1953.

BLYN
MILLER PENINSULA
SEQUIM BAY

George W. Breen
Geographic Names
Section
15 August 1963

49. NOTES FOR THE HYDROGRAPHER:

THE FIVE PHOTO-HYDRO STATIONS SHOWN ON THIS MANUSCRIPT AND LISTED BELOW WERE IDENTIFIED BY THE FIELD PARTY AND LOCATED BY THE KELSH OPERATOR DURING COMPILATION.

No.	DESCRIPTION	FIELD PHOTO. No.
6001	S.W. CORNER, BLDG. ON PILING	60 W 1942
6002	W. GABLE, UNPAINTED BLDG. ON PILING	"
6003	W. GABLE, STAGGERED ROOF, SHINGLED BLDG.	"
6004	W. GABLE, LONG WHITE HOUSE	"
6005	E. GABLE, BROWN HOUSE	"

PHOTOGRAMMETRIC OFFICE REVIEW

T-10003 12060

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) None		7. PHOTO HYDRO STATIONS ✓
8. BENCH MARKS None	9. PLOTTING OF SEXTANT FIXES None	10. PHOTOGRAMMETRIC PLOT REPORT ✓	11. DETAIL POINTS None
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE ✓	13. LOW-WATER LINE ✓	14. ROCKS, SHOALS, ETC. ✓	15. BRIDGES None
16. AIDS TO NAVIGATION None	17. LANDMARKS None	18. OTHER ALONGSHORE PHYSICAL FEATURES ✓	19. OTHER ALONGSHORE CULTURAL FEATURES ✓
PHYSICAL FEATURES			
20. WATER FEATURES ✓	21. NATURAL GROUND COVER ✓		22. PLANETABLE CONTOURS Not Applicable
23. STEREOSCOPIC INSTRUMENT CONTOURS Not Applicable	24. CONTOURS IN GENERAL Not Applicable	25. SPOT ELEVATIONS Not Applicable	26. OTHER PHYSICAL FEATURES ✓
CULTURAL FEATURES			
27. ROADS ✓	28. BUILDINGS ✓	29. RAILROADS ✓	30. OTHER CULTURAL FEATURES ✓
BOUNDARIES			
31. BOUNDARY LINES None		32. PUBLIC LAND LINES None	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES ✓	34. JUNCTIONS ✓		35. LEGIBILITY OF THE MANUSCRIPT ✓
36. DISCREPANCY OVERLAY None	37. DESCRIPTIVE REPORT ✓	38. FIELD INSPECTION PHOTOGRAPHS ✓	39. FORMS ✓
40. REVIEWER James L. Harris		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			

COMPILATION RECORD	COMPLETION DATE	REMARKS
Interior details added compilation complete	5/15/63	SUPERCEDED
FIELD EDIT APPLIED	9/13/67	} *
REMAINING FIELD EDIT FROM BOAT SHEET APPLIED	4/26/68	

Applied to R8-878
See Addendum

Review Report
Shoreline Surveys
T-12056 through T-12061
October 1963

61. General Statement

There are six (6) shoreline maps of Project FM-6101, Admiralty Inlet, Washington. These maps were prepared primarily for the location of nonfloating aids and landmarks for the revision of our nautical charts and for control of proposed hydrographic surveys.

62. Comparison with Registered Topographic Surveys

T-6884 add 1	1:10,000 & 1:5,000	1941
T-6885 add	1:10,000 & 1:5,000	1941
T-1255	1:10,000	1871
T-4191	1:10,000	1926

There are cultural and shoreline differences due to time interval. These maps are to supersede the above surveys for common areas for nautical charting.

63. Comparison with Maps of Other Agencies

Sequin	1:24,000	1956
Gardiner	1:24,000	1953
Fort Townsend (South)	1:24,000	1953
Nordland	1:24,000	1953

There are minor cultural and shoreline differences, due to the difference in time intervals.

64. Comparison with Contemporary Hydrographic Surveys

None

65. Comparison with Nautical Charts

6403	1:40,000	Revised to July 1963
6405	1:20,000	Revised to Feb. 1962

Differences exist. However, there are no items to be applied immediately.

66. Accuracy of Results and Future Surveys

These surveys were prepared according to project instructions and are within the required accuracy for Nautical Charting.

Reviewed by:

L. C. Lande
L. C. Lande

Approved by:

Charles Jensen
Chief, Photogrammetric Branch

J. E. Lang 12/16/67
Chief, Photogrammetry Division

ADDENDUM TO DESCRIPTIVE REPORT T-12060, JOB PH-6106
REVISION SURVEY RS-878, JOB PH-6714.
ADMIRALTY INLET, WASHINGTON
APRIL 24, 1968

The revision of this survey was confined to the selection and positioning of shoreline pass points as an aid to the Hydrographer to establish additional hydrographic signal sites; and the subsequent application of additional field edit.

In as much as the original hydro support data was inadvertently mis-placed and new photography was not available, nor planned; cronapaque ratio prints of the original photography were furnished and processed for additional hydro. signal site location, if required.

Control for this revision and the processing of hydro. support data was adequate and consisted of previously established photo-hydro stations and other office identified control. Revision and support data was done graphically with good results.

Appropriate standard hydro. support data and a field edit ozalid with Notes for the Hydrographer were forwarded to the USC&GS Ship PATHFINDER on February 28, 1967.

The field edit ozalid was prepared after comparison of this survey was made with USC&GS Chart No. 6403, scale 1:40,000, rev. July 29, 1963.

Field edit for this revision was received September 5, 1967 and was applied September 13, 1967. Additional field edit information in the form of boat sheet data and fixes from hydrographic volumes were required to complete the application of edit data. This was not available at the time of application.

In April, 1968, this additional information became available and was applied to the revised sheet in the form of additional offshore rock data, hydro. signal sites for plotting fixes, wreck locations and other pertinent data.

Other fix data in the form of hydrographic volumes have been or will be applied to the hydrographic sheet by the hydrographic processing unit.

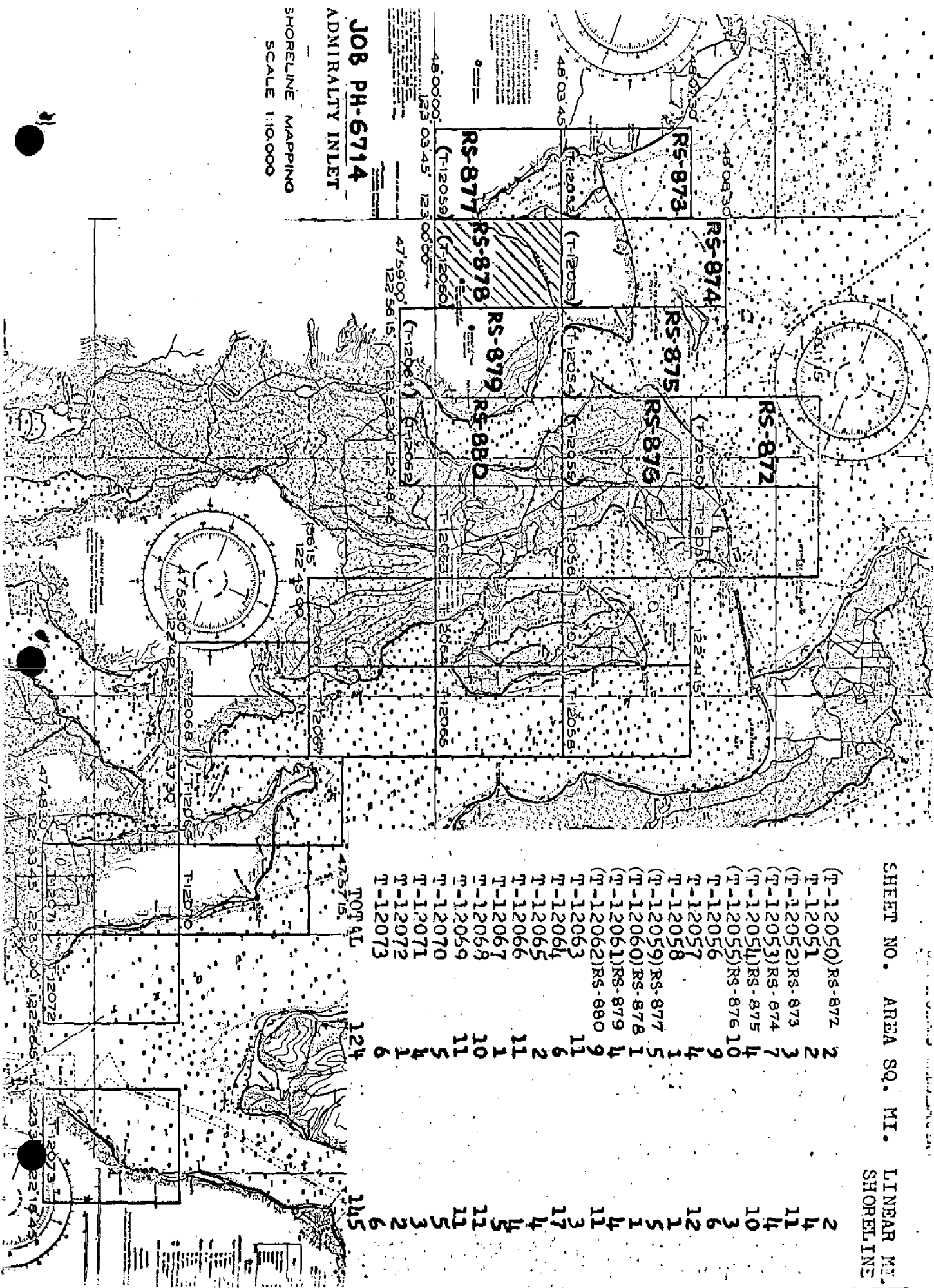
An amended copy of the "Notes for the Hydrographer", a page size diagram and a copy of the Field Edit Report is included with this addendum.

Respectfully submitted:

Albert C. Rauck, Jr.

Albert C. Rauck, Jr.
Supervisory Cartographer

JOB PH-6714
ADMIRALTY INLET
 SHORELINE MAPPING
 SCALE 1:10,000



T-12060
RS-878

49. NOTES FOR THE HYDROGRAPHER

The five photo-hydro stations shown on this manuscript and listed below were identified by the field party and located by the Kelsh operator during compilation.

No.	Description	Field Photo No.
6001	S. W. Corner, Bldg on Piling	60 W 1942
6002	W. Gable, Unpainted Bldg. on Piling	"
6003	W. Gable, Staggered Roof, Shingled Bldg.	"
6004	W. Gable, Long White House	"
6005	E. Gable, Brown House	"

See field edit ozalid for notes on items yet to be verified during edit.

UNITED STATES GOVERNMENT

Memorandum

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

TO : Chief, Photogrammetry Division

DATE: August 23, 1967

In reply refer to:

FROM : Commanding Officer,
USC&GS Ship HODGSON

SUBJECT: Field Edit Report: Projects Job PH-6714, Admiralty
Inlet, and PH-6706, Dungeness Bay, Wn.

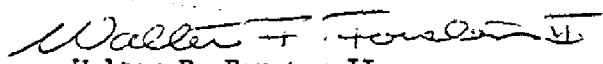
In accordance with Project Instructions OPR 412-Port Discovery - to Dungeness Bay dated 6 February 1967 the above subject assigned field editing was accomplished.

Under separate cover are submitted field edit ozalids and photographs for OPR 412 and subject projects. Signals were located by standard photo-grametric methods and all location of photo-hydro signals are considered final.

Final verification of preliminary control overlays is now being undertaken. After final control verification the mylar cronaflex copies of the "T" sheets will be forwarded to your office.

Attached with this report is a summary per "T" sheet of field editing accomplished. All notes are in purple ink. Little photo-identification of rocks was accomplished on the southern part of the subject survey area because of heavy shadowing. Hydrographic fixes were plotted on all "T" sheets to aid in the final varification of questioned items and uncharted rocks.

The HODGSON is being deactivated as of 25 August 1967. All field data that is remaining aboard will be transferred to Chief Processing, Seattle, Washington.


Walter F. Forster II

Enclosure: Summaries of accomplished
field editing



BUY U.S. SAVINGS BONDS REGULARLY ON THE PAYROLL SAVINGS PLAN

Attachment

23 August 1967

OPR 412 PORT DISCOVERY TO DUNGENESS BAY WASHINGTON
SUMMARIES OF ACCOMPLISHED FIELD
EDITING

T-12050

Verification of this entire sheet was accomplished. In addition, the most important rocks off Middle Point are shown on the paper field ozalid. This area is mostly foul with boulders.

Cross reference was made to 60W 1961

T-12052

Verification of this entire sheet is complete. The middle ground in Sequim Bay does exist and its final extent will be shown on smooth sheet H-8928. The sunken barge was located by fixes 1a and 2a HO-10-1-67. Rocks and other items found not to exist on chart 6403 are also shown.

Cross reference was made to photos GOW 1955.

1a Sunken Barge

Lat 48 04.88N

Long 123 01.77W

Sunken Barge bares 2 feet @ 0927 on 4/26/67

T-12053

All field varification is complete for this sheet. Note hydrographic
fixes plotted for uncharted rocks.

Cross reference is made to photo 60W 1957.

T-12054

Field varification on questioned items is complete. All new uncharted rocks have been plotted on the manuscript for reference.

Cross reference note was made to:

60W 1959

60W 1961

60W 1982

60W 1983

T-12055

Field varification of this sheet is considered complete. At approx
Lat. $48^{\circ} 06.8N$ Long. $122^{\circ} 52.25W$ rocks and boulders in this area are
quite numerous.

Cross reference was made to Photo 60W 1961

T-12059

Field varification of this sheet is considered complete. Numerous uncharted rocks and piles are plotted on the sheet using hydrographic fixes. Fix 12c changes the position of 4 piles in a row approx Lat $48^{\circ} 01.8N$ Long $123^{\circ} 01.1W$.

Cross reference is made to Photo 60W 1986.

T-12060

Verification of all questioned items are complete. One deadhead was found in this area and its position is shown on the field edit ozalid.

Cross reference to Photo 60W 1986 was made on T-12060.

T-12061-

All field varification is considered complete.

T-12062

Varification of this sheet is considered complete. Additional deadheads
fixes 13 b & 14 b were plotted on the sheet. No photo identification was
made of these items.

JOB PH-6706

T-13097

Verification of T-13097 is complete. All notes to the verifier are on the field edit ozalid attached. Field edit was made only within the area of the hydrographic survey, these limits are shown on the ozalid. The MLLW line will be developed in its final correct position on smooth sheet H-8930.

JOB PH-6706

T-13098

All requested items were verified in the field. In addition, 9 piles, one sunken wreck, and an obstruction was found and their location transferred to the paper ozalid in purple ink. Field editing was accomplished for the entire sheet.

Cross reference was made to photos 665 32 93A and 665 32 56A. Appropriate notes may be found on these photos.