

T-12651

T-12651

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
PH-6409	
Type of Survey SHORELINE (PHOTOGRAMMETRIC)	
Field No. <i>Edition No. 1</i> Office No. T-12651 <i>Field Edited map</i>	
LOCALITY	
State	ALASKA
General locality	ORCA INLET
Locality	DEEP BAY
1964-1966	
CHIEF OF PARTY	
CHIEF OF PARTY	H. J. SEABORG
COMPILATION OFFICE	P. A. STARK
LIBRARY & ARCHIVES	
DATE	

DESCRIPTIVE REPORT - DATA RECORD
T - 12651

PROJECT NO. (II): 21423 (2) <i>PH-6409</i>		
FIELD OFFICE (II): SHIP PATHFINDER		CHIEF OF PARTY H. J. SEABORG
PHOTOGRAMMETRIC OFFICE (III): PORTLAND, OREGON		OFFICER-IN-CHARGE P. A. STARK
INSTRUCTIONS DATED (II) (III): DECEMBER 7, 1964 III		
METHOD OF COMPILATION (III): KELSH INSTRUMENT		
MANUSCRIPT SCALE (III): 1:10,000		STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:6,000 PANTOGRAPH SCALE: 1:10,000
DATE RECEIVED IN WASHINGTON OFFICE (IV): <i>May 1977</i>		DATE REPORTED TO NAUTICAL CHART BRANCH (IV):
APPLIED TO CHART NO.		DATE: DATE REGISTERED (IV): <i>AUG. 1977</i>
GEOGRAPHIC DATUM (III): N.A. 1927		VERTICAL DATUM (III): <i>MHW</i> 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): ATOMIC, 1964		
LAT.: 60° 36' 47.798"	LONG.: 145° 48' 19.626"	☐ ADJUSTED ☒ UNADJUSTED
PLANE COORDINATES (IV): Y = 2,416,136.9 FT X = 534,952.7 FT		STATE ALASKA ZONE 3
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

FIELD INSPECTION BY (II): NONE		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): KELSH INSTRUMENT - AUGUST 25, 1964		
PROJECTION AND GRIDS RULED BY (IV): A. E. ROUNDTREE		DATE 11-24-64
PROJECTION AND GRIDS CHECKED BY (IV): P. HAWKINS		DATE
CONTROL PLOTTED BY (III): R. H. MEYER		DATE 12-14-64
CONTROL CHECKED BY (III): W. MASULA		DATE 12-14-64
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): W. HEINBAUGH		DATE 11-18-64
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY W. MASULA	DATE 1-5-65
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III): C. C. HARRIS		DATE 1-8-65
SCRIBING BY (III): <i>A. Santillan</i>		DATE <i>Dec. 1966</i>
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): D. N. WILLIAMS		DATE 1-12-65
REMARKS:		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

C&GS SINGLE LENS "S"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
64 S 6786 THRU 64 S 6789	8-25-64	0850	1:30,000	0.5 FT ABOVE M.L.L.W.
64 S 6892 THRU 64 S 6894	"	0954	"	4.0 FT ABOVE M.L.L.W.
64 S 6913 AND 64 S 6914	"	1005	"	3.8 FT ABOVE M.L.L.W.

TIDE (III)

DIURNAL

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: CORDOVA, ALASKA		10.0 FT	12.4 FT
SUBORDINATE STATION: ORCA		9.9 FT	12.4 FT
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV):

Leo F. Beugnot, Atlantic Marine Center

DATE:

April 1967

PROOF EDIT BY (IV):

J.B. Phillips Rockville, Md.

DATE:

June 1977

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

RECOVERED: 1

IDENTIFIED: 1

NUMBER OF BM(S) SEARCHED FOR (II):

RECOVERED:

IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): NONE

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): NONE

REMARKS:

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COMPILATION RECORD

COMPLETION DATE

REMARKS

Alongshore area for hydro	January 1965	Superseded
Field Edit applied subject to further verification	November 1965	Superseded
Second Field Edit applied	May 1966	
Final Review	April 1967	

2013

2530

12

9

50°41'13"

3130

3735

1421

11-22-13 11-26-13 11-26-13

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12651

Shoreline survey T-12651 is one of fifteen similar maps in project PH-6409. The primary purpose of the project was to provide new shoreline for nautical charts and photo-hydro support data for hydrographic surveys to be made in the same area.

Field work preceding compilation consisted of recovery and/or establishment and identification of horizontal control. There was no field inspection prior to compilation.

The manuscript was compiled by Kelsh instrument at 1:10,000 scale using the panchromatic photography obtained August 25, 1964. Cronaflex copies were provided for preparation of the hydrographer's boat sheet along with specially prepared ratio photographs for location of hydro signals and for field edit use.

The manuscript is a vinylite sheet 3 minutes 45 seconds in latitude by 5 minutes 00 seconds in longitude which was scribed and reproduced on cronaflex. One cronar positive and one cronar negative are provided for record and registry.

FIELD INSPECTION REPORT

MAP MANUSCRIPT T-12651

PROJECT 21423 (2)

NONE SUBMITTED. THERE WAS NO FIELD INSPECTION BEFORE
COMPILATION.

MAP T. 12651 PROJECT NO: 21423 (2) SCALE OF MAP 1:10,000 SCALE FACTOR _____

[illegible]

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Aerotriangulation Report
Project 21423
Orca Inlet, Alaska

21. Area Covered

The area covered by this report on aerotriangulation bridging encompasses the shoreline of Orca Inlet, Alaska (T-12648 through T-12652 and the northeast portion of T-12653).

22. Method

Three strips of photography (64S 6892-98), (64S 6787-92) and (64S 6909-15) were bridged on the stereoplanigraph and were adjusted by IBM 1620 methods.

Plotting coordinates are furnished at 1:5,000 scale for T-12804, T-12805 and T-12806 and at 1:10,000 scale for T-12648 through T-12653.

Positions of tie points were meaned when necessary.

23. Adequacy of Control

Horizontal control provided was adequate as to location and quality to control the bridges within the limits of accuracy required by National Map Accuracy Standards. However, a portion of the shoreline of T-12653 cannot be compiled since control station, Travel 2, could not be held. Each attempt to use Travel 2 as the terminal point (Strip 3) resulted in large residuals for other control stations in that bridge. An adjustment of the bridge, with Orca Bay, South Bldg., West Gable (1955) as the terminal station, was made and the resulting foreshortened bridge held satisfactorily. No explanation of the failure of station Travel 2 to hold is apparent. The station should be re-identified to provide control for that portion of the shoreline.

24. Supplemental Data

USGS quadrangles Cordova, Alaska (B-5, B-6, C-5 and C-6) scale 1:63,360, 1953 edition were used to provide vertical control where needed.

25. Photography

Photography was adequate as to coverage, overlap and definition.

Approved by:

Submitted by:

John D. Perrow, Jr.
John D. Perrow, Jr.

Wallace H. Hinchey
W. Hinchey

COMPILATION REPORT
T-12651

31. DELINEATION

The manuscript was compiled by Kelsh instrument.

32. CONTROL

Adequate supplemental control, based on field identified horizontal control, was established by aerotriangulation for control of the Kelsh models.

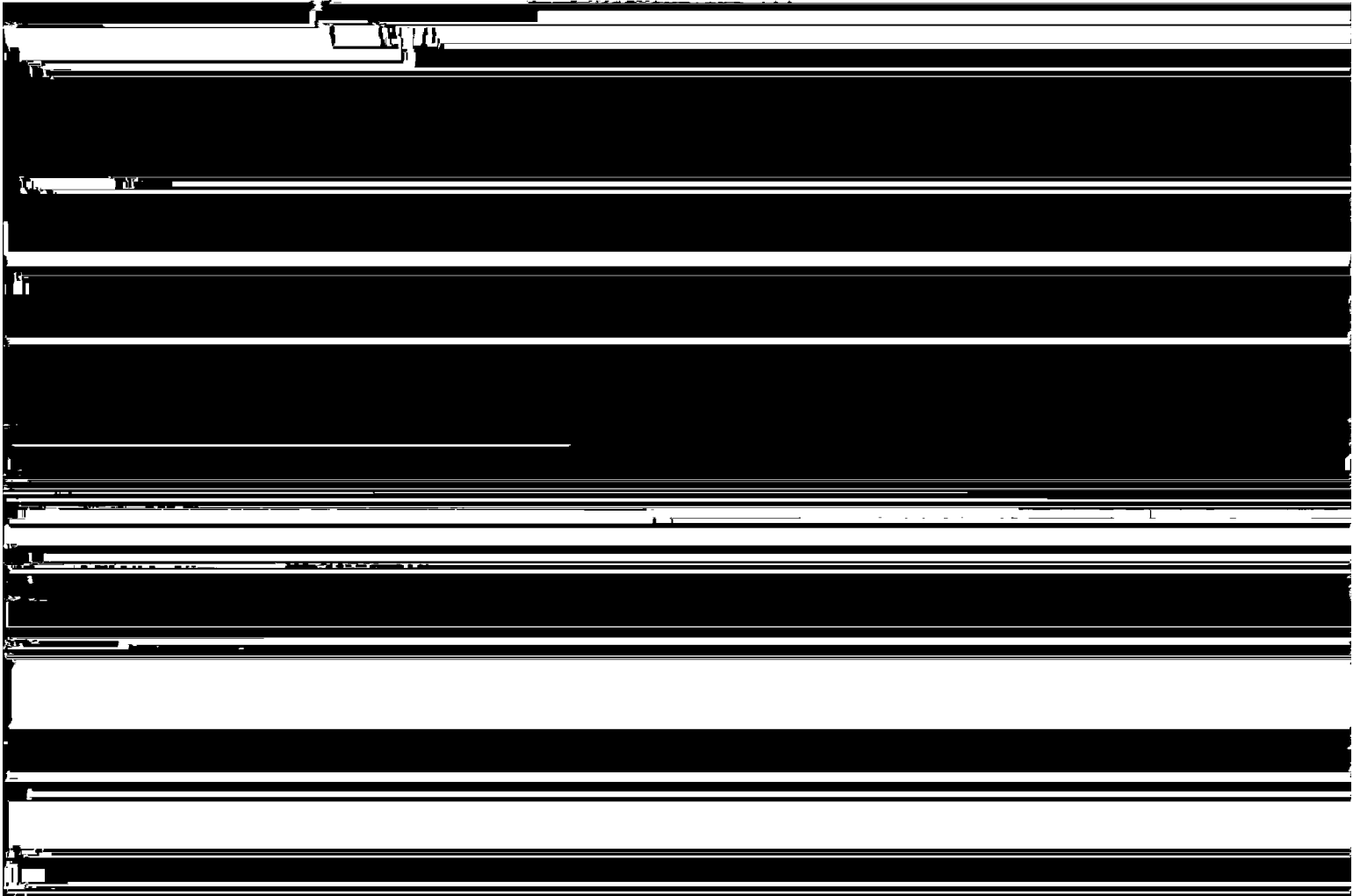
33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Contours inapplicable.

The drainage was delineated by the Kelsh operator using the USGS quadrangle as a guide.



38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Satisfactory junctions were made with 1:10,000 scale manuscripts T-12648 on the north, T-12652 on the east, T-12653 on the south; 1:5,000 scale overlapping manuscripts T-12805 and T-12806 and with 1:20,000 scale manuscript T-12807 on the west.

40. HORIZONTAL AND VERTICAL CONTROL

46. COMPARISON WITH EXISTING MAPS

Comparison was made with USGS CORDOVA (C-5) ALASKA quadrangle, 1:63,360 scale, edition of 1951.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with the following nautical charts:

8525,	1:30,000 scale	July 27, 1964
8520,	1:80,000 scale	July 20, 1964
8551,	1:200,000 scale	April 15, 1963

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted:

Donnel M. Williams
Donnel N. Williams
Cartographer

Approved:

for Leo F. Bugner
P. A. Stark, CDR, C&GS
Portland Field Officer

48. GEOGRAPHIC NAME LIST:

THE APPROVED GEOGRAPHIC NAMES LISTED BELOW WERE FURNISHED BY
THE WASHINGTON OFFICE ON U.S.G.S. CORDOVA (C-5), ALASKA, 15 MINUTE
QUADRANGLE, SCALE 1:63,360, EDITION 1951.

CHANNEL ISLAND
DEEP BAY
DEEP CREEK
GRASS ISLAND
HAWKING ISLAND
KNOT POINT
ODIAK CHANNEL
ORCA BAY
ORCA INLET
SALMO POINT
SHIPYARD BAY
THE NARROWS

49. NOTES FOR THE HYDROGRAPHER:

VERIFY FOUL AREAS AT $60^{\circ} 36' 30''$, $145^{\circ} 47' 30''$; AND $60^{\circ} 34'$, $145^{\circ} 45'$.

INVESTIGATE POSSIBLE WRECKS AT $60^{\circ} 35' 15''$, $145^{\circ} 48' 10''$; $60^{\circ} 34' 50''$, $145^{\circ} 47' 40''$ AND $60^{\circ} 35' 40''$, $145^{\circ} 46' 55''$.

INVESTIGATE BUILDING IN ISLAND AND PILING AT $60^{\circ} 35' 15''$, $145^{\circ} 48' 55''$.

C&GS FORM 1002 (11-13-61)		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW T-10883 12651			
1. PROJECTION AND GRIDS DNW		2. TITLE DNW	
3. MANUSCRIPT NUMBERS DNW		4. MANUSCRIPT SIZE DNW	
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY DNW		6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY <i>(Topographic stations)</i> None	
7. PHOTO HYDRO STATIONS None			
8. BENCH MARKS None		9. PLOTTING OF SEXTANT FIXES None	
10. PHOTOGRAMMETRIC PLOT REPORT DNW		11. DETAIL POINTS DNW	
ALONGSHORE AREAS <i>(Nautical Chart Data)</i>			
12. SHORELINE DNW		13. LOW-WATER LINE DNW	
14. ROCKS, SHOALS, ETC. DNW		15. BRIDGES None	
16. AIDS TO NAVIGATION DNW		17. LANDMARKS DNW	
18. OTHER ALONGSHORE PHYSICAL FEATURES DNW		19. OTHER ALONGSHORE CULTURAL FEATURES DNW	
PHYSICAL FEATURES			
20. WATER FEATURES DNW		21. NATURAL GROUND COVER DNW	
22. PLANETABLE CONTOURS None			
23. STEREOSCOPIC INSTRUMENT CONTOURS None		24. CONTOURS IN GENERAL None	
25. SPOT ELEVATIONS None		26. OTHER PHYSICAL FEATURES DNW	
CULTURAL FEATURES			
27. ROADS DNW		28. BUILDINGS DNW	
29. RAILROADS None		30. OTHER CULTURAL FEATURES DNW	
BOUNDARIES			
31. BOUNDARY LINES None		32. PUBLIC LAND LINES None	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES DNW		34. JUNCTIONS DNW	
35. LEGIBILITY OF THE MANUSCRIPT DNW			
36. DISCREPANCY OVERLAY DNW		37. DESCRIPTIVE REPORT DNW	
38. FIELD INSPECTION PHOTOGRAPHS DNW		39. FORMS DNW	
40. REVIEWER Donnel N. Williams		SUPERVISOR, REVIEW SECTION OR UNIT Leo F. Beugnet	
41. REMARKS <i>(See attached sheet)</i>			
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 L. Neterer		SUPERVISOR <i>Albert C. Rauck Jr.</i> A. C. Rauck	
43. REMARKS			

UNITED STATES GOVERNMENT

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION

Memorandum

TO : Chief, Photogrammetry Division

DATE: May 7, 1966

In reply refer to:

FROM : Commanding Officer
USCGS Ship HODGSON

SUBJECT: Field Edit - Orca Inlet
Project 21423 (2) Job PH-6409

Photographs, manuscripts and ozalids for the above project are returned under separate cover. The required field edit has been accomplished and appropriate notes made on the photographs and ozalids. Upon re-compilation the advance manuscripts and photos should be returned to Seattle processing office for application of shoreline to smooth sheets and final signal location.

John B. Watkins, Jr.
John B. Watkins, Jr.

cc: PACMARCON

New photos
submitted
at 1/10,000
Ran 5.1m
2/10/12
KXZ/p

Sheet T-12806

Discrepancies as noted were verified in the field. See photo no. 64S6942 1/5000. Please note the changes to the area about the small boat basin. To scale sketch has been made of the area as found in May 1966. Other changes are contemplated and it is recommended that a stereo triplet be obtained in mid-summer for updating. The MML line is shown in purple about the fill area as requested.

Sheet T-12649

Discrepancies as noted were verified in the field and appropriate notes made in purple on photo no. 64S6786 1/10,000.

Sheet T-12652

Discrepancies as noted were verified in the field and appropriate notes made in purple on photo no. 64S6786, 64S6787, 64S6949, 1/10,000. Please note new MML for western side of observation island.

Sheet 12804

Discrepancies as noted were verified in the field. Applicable notes were made on the ozalid.

Sheet 12805

Discrepancies as noted were checked in the field. See also sheet T-12652.

Sheet T-12653

All discrepancies as noted were verified on photo nos. 64S7353, 64S6891, 64S7350, 1/10,000 and 64S6943, 1/5000. All shoreline verified is shown in purple on the photos.

New | In the area SW of station MAUD 2, 1964, photo no. 64S6891 considerable

Sheet T-12648

All discrepancies as noted by the compiler were checked and appropriate notes made on the ozalid with the exception of Simpson Bay. This area was not within the project limits.

Sheet T-12650

Discrepancies as noted were verified in the field. MHWL was inked in purple on photo no. 64S6952 and 64S6953, 1/10,000.

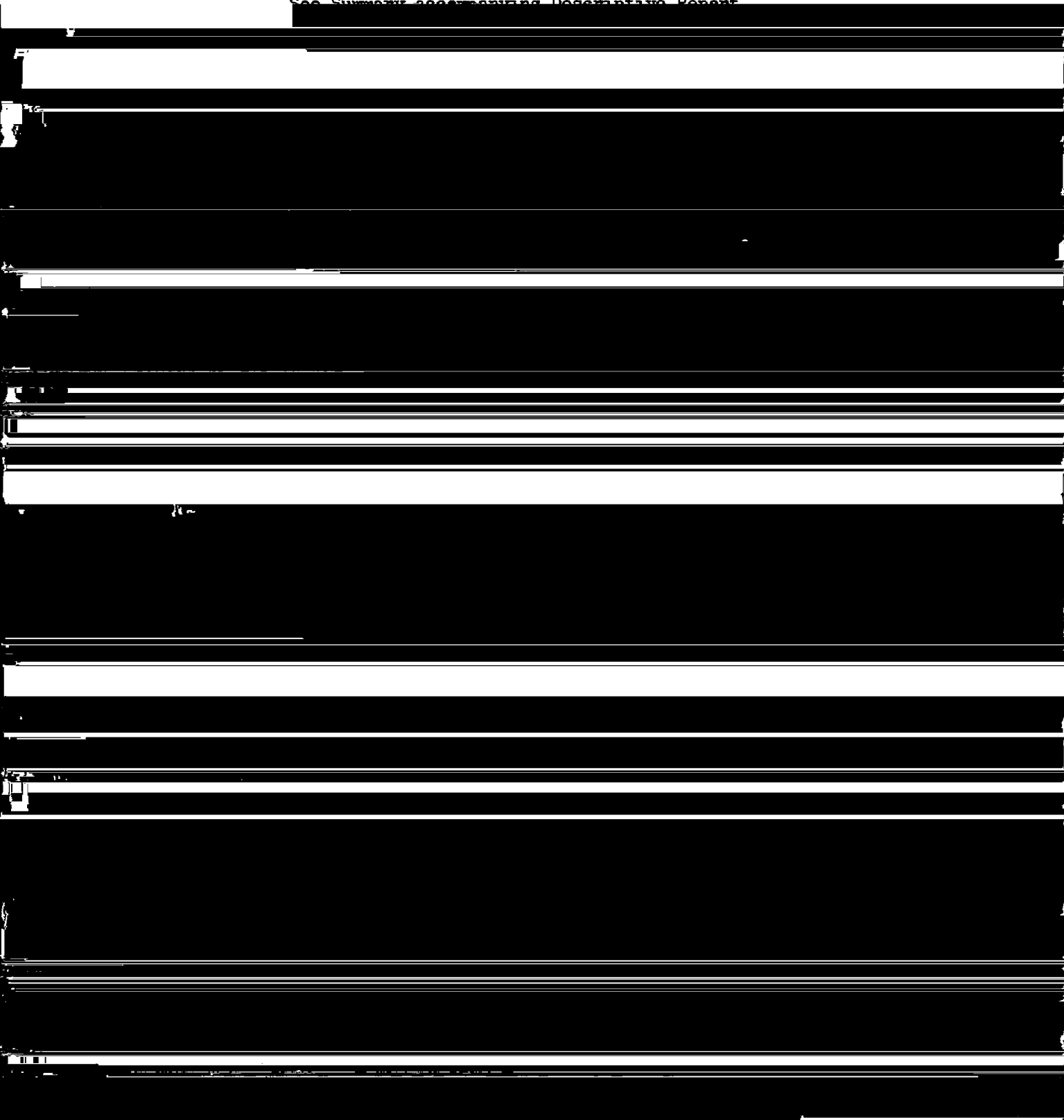
Sheet T-12651

Discrepancies as noted were verified in the field. All references are made to photo no. 64S6784, 1/10,000. Notes with "LL" indicate a lead line sounding at the applicable time. Shoreline verification is shown in purple on the photo. Several rocks not noted on the discrepancy sheet were added and applicable notes made.

REVIEW REPORT T-12651
SHORELINE
18 APRIL 1967

61. GENERAL STATEMENT

See Summary accompanying Descriptive Report



66. ACCURACY OF RESULTS AND FUTURE SURVEYS

This survey complies with instructions and meet the National Standards of Map Accuracy.

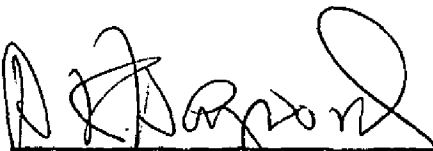
Approved by:

Reviewed by:

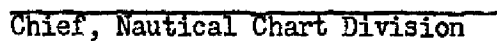

J. Bull, RADM
Director, Atlantic Marine Center


Leo F. Beugnet

Approved by:


Chief, Photogrammetric Branch


Chief, Photogrammetry Division


Chief, Nautical Chart Division

NOTES TO THE VERIFIER

An approximate mean lower low water line has been left on the manuscript for any value it may have to the nautical chart compiler. It is not in complete agreement with the soundings on the boat sheet. However, it is realized that the sounding on the copy of the boat sheet furnished the reviewer have probably not been reduced to their final value.

