

7939

Diag. Cht. No. 1210-3

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey **HYDROGRAPHIC**

Field No. **SP-1351** Office No. **H-7939**

LOCALITY

State **Massachusetts**

General locality **Fall River**

Locality **Taunton River**

194 51

CHIEF OF PARTY

John Laskowski

LIBRARY & ARCHIVES

FEB 28 1952

DATE

B-1870-1 (1)

7939

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

REGISTER No. H-7939

Field No. SP-1351

State MASSACHUSETTS

General locality FALL RIVER

Locality TAUNTON RIVER

Scale 1:10,000 Date of survey 26 Oct. to 2 Nov. 1951

Instructions dated 1 October 1951

Vessel SHORE PARTY - LAUNCH NO. 168

Chief of party JOHN LASKOWSKI

Surveyed by J.A. ROULIER

Soundings taken by ~~XXXXXXXX~~ graphic recorder, hand lead, ~~XXXX~~

Fathograms scaled by PARTY PERSONNEL

Fathograms checked by PARTY PERSONNEL

Protracted by BEN T. LEWIS

Soundings penciled by BEN T. LEWIS

Soundings in ~~XXXXXX~~ feet at MLW ~~MLLW~~

REMARKS: This survey was smooth plotted in the Hydrographic Section
of the Norfolk Processing Office.

DESCRIPTIVE REPORT

TO ACCOMPANY

HYDROGRAPHIC SHEET H-7939 (FIELD NO. SP-1351)

TAUNTON RIVER FALL RIVER MASSACHUSETTS

LONG ISLAND SHORE PARTY JOHN LASKOWSKI, CHIEF OF PARTY

SPECIAL PROJECT SCALE 1:10,000

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PROJECT:

This survey was executed in accordance with Instructions dated 1 October, 1951, Special Project, Taunton River, Massachusetts.

SURVEY LIMITS AND DATES:

The survey covers Taunton River from Lat. $41^{\circ} - 44.0'$ northward to Lat. $41^{\circ} - 46.2'$, Long. $71^{\circ} - 07.2'$. Junctions were made at the southern limit with Hydrographic Sheet H-792b, 1861, and at the northern limit with previous surveys of the United States Engineers.

The field work was accomplished between 26 October and 2 November 1951.

VESSEL AND EQUIPMENT:

Aluminum Launch No. 168 was used for sounding. The launch was operated from a shore base located within the limits of the survey.

Graphic Recorder No. 139 SPX was used throughout the survey. The transducers were mounted inboard.

TIDE AND CURRENT STATIONS:

The Tide Note is attached to this report. Currents were not observed.

SMOOTH SHEET:

The smooth sheet is to be plotted by the Norfolk Processing Office.

CONTROL STATIONS:

Triangulation stations established in previous years were used for control.

The planetable graphic control stations were transferred from Graphic Control Sheet ~~T-7128~~ (Field No. SP-A-51). Three signals were transferred from Air Compilation Sheet T-5750, 1945.

Graphic Control Sheet was destroyed

No hydrographic stations were established.

SHORELINE AND TOPOGRAPHY:

The shoreline and topographic details were transferred from Air Compilation Sheet T-5750, 1945. The revisions ^{in red} were taken from Graphic Control Sheet ~~T-7128~~ (Field No. SP-A-51). *on the smooth sheet*

SOUNDINGS:

Soundings were obtained with the graphic recorder. Hand-lead soundings were taken at buoys and shoals. The bottom samples were taken with an armed lead.

CONTROL OF HYDROGRAPHY:

The hydrography was controlled by the three-point sextant fix. In a few instances such as at the end of slips or near piers where hydrographic control was lacking, the positions of sounding lines were referred to distinctive shoreline details. The proper remarks were inserted in the sounding volumes.

ADEQUACY OF SURVEY:

At the southern limit a satisfactory junction was made with the most northerly sounding line of Hydrographic Sheet H-792b, 1861. The rest of the area has changed due to dredging.

The northern limit of the survey joins previous United States Engineers surveys. No comparison was made as these surveys were not available in the field.

See TP4 of Review

L of 1930 (Bps. 26144 & 45)

CROSSLINES:

There is a sufficient number of crosslines to verify the accuracy of the survey.

COMPARISON WITH CHART AND PRIOR SURVEYS:

No chart covers the area. No prior surveys are available.

*Chart 353 covers the area
RKD 7-21-55*

DANGERS AND SHOALS:

<u>Latitude</u>	<u>Longitude</u>	<u>Depth water</u>	<u>Pos. No.</u>	<u>Remarks</u>
41° - 46.0 ⁷ '	71° - 07.2 ⁵ '	-	5a	Rk outcrop bare 2.4 ⁰ ' at MLW. About 10 m. in dia.
41° - 46.28'	71° - 07.26'	3.4 ⁰ '	6a	Sunken boulder
41° - 46.15'	71° - 07.30'	5-6'	8 - 9a	Shoal area

COAST PILOT INFORMATION:

Coast Pilot information will be forwarded to the Washington Office as a separate report.

AIDS TO NAVIGATION AND LANDMARKS FOR CHARTS:

Aids to navigation and landmarks for charts have been forwarded to the Washington Office. A copy of the list is appended to this report.

MISCELLANEOUS:

On 3 November 1951 a severe wind and rain storm swept through the area. The water rose higher than any experienced in recent years. A few boats were washed ashore. A memorandum was attached to the tide marigram that covers the duration of the storm.

Joseph A. Roulier
Joseph A. Roulier
Ensign, C&GS.

STATISTICS TO ACCOMPANY
 HYDROGRAPHIC SHEET H-7939 (FIELD NO. SP-1351)

LAUNCH NO. 168

<u>Date</u> <u>1951</u>	<u>Vol.</u> <u>No.</u>	<u>Day</u> <u>Ltr.</u>	<u>H.L.</u> <u>Sdgs.</u>	<u>No. of</u> <u>Pos.</u>	<u>Stat. Mi.</u> <u>Sdgs.</u>
26 Oct	1	a	5	120	13.6
29	1 & 2	b	4	108	16.1
30	2	c	4	172	22.0
31	3	d	2	50	4.4
2 Nov	3	e	-	37	3.1
<hr/>					
TOTALS	3	5	15	487	59.2

Area in square statute miles . . . 1.2

TIDAL NOTE TO ACCOMPANY

HYDROGRAPHIC SURVEY H-7939 (FIELD NO. SP-1351)

A Portable Automatic Tide Gage was maintained at O'Connell's Boat Yard (Lat. 41° - 44.45', Long. 71° - 07.94') for the entire period of the survey. Height of MLW as determined by the office was 1.9 feet above zero of the tide staff. No time or range corrections were applied to the tidal data in reducing the soundings. Hourly heights were scaled from the marigrams by the officers attached to the party.

VELOCITY CORRECTIONS

HYDROGRAPHIC SHEET H-7939 (FIELD NO. SP-1351)

LONG ISLAND SHORE PARTY

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The corrections tabulated below are based on an INITIAL of 1.0 - Launch No. 168. Where the INITIAL on the fathogram varies from 1.0 an INDEX correction must be applied. All soundings recorded on FOOT SCALE - A RANGE.

LAUNCH NO. 168

RECORDER NO. 159 HEX
(For all of sheet)

Corrections	From	To
ft		ft
- 1.0	0	572
- 0.9	575	571
- 0.8	572	573
- 0.4	574	970
- 0.6	971	1870
- 0.6	1871	Sdg. depth

LEADLINE CORRECTION

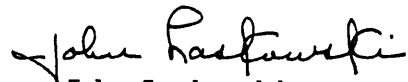
0.0 to 18 ft.
-0.1 for all soundings over 18 ft.

APPROVAL SHEET

TO ACCOMPANY

HYDROGRAPHIC SHEET H-7939 (FIELD NO. SP-1351)

The boat sheet and records were examined daily. The survey is considered adequate and no additional field work is recommended.



John Laskowski

Cdr. C&GS

Chief of Party

LIST OF SIGNALS

HYDROGRAPHIC SHEET H-7939 (FIELD NO. SP-1351)

TRIANGULATION STATIONS

SOME SOMERSET SPIRE, 1874, 1887
SPUR WHITE CHURCH SPIRE, 1874, 1934

TOPOGRAPHIC STATIONS

Sheet ~~T-7126~~ (Field No. SP-A-51)

Sheet destroyed

ACE S. cupola on top of school bldg.
BOB E. gable, two story house
CAB E. gable, 2 $\frac{1}{2}$ story house
DOG E. gable, two story house
EVA Chimney on 1 $\frac{1}{2}$ story house
FOX Flag pole
GUS Church spire
HOP Clump of brush - temporary
ICE Stack
JAP S. gable, stone bldg.
LIZ E. gable, house
MAX Center, W. door, brick shed
NUT Center, culvert outlet, W. end
OAK Temporary tripod
PET W. chimney, clubhouse
TOM Cupola on boat storage shed
VIM Stack on heating plant bldg.
WAR Stack, yellow brick
ZOO Temporary banner

Radial Plot T-5750, 1945

* EAST STACK (EAST), 1944
NOR TRANSMISSION TOWER NO. 1, 1944
SOW TRANSMISSION TOWER NO. 4, 1944

*Date of location was taken from form 567, Landmarks For Charts.
Compilation shows date of 1945.

~~NEW~~ FLOATING AIDS ~~ON~~ FOR CHARTS

TO BE CHARTED
~~NEW~~ STRIKE OUT ONE

Norfolk, Va.

30 November

19 51

I recommend that the following objects which have ~~(703-705)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(GENERAL PURPOSE)~~ the charts indicated.
The positions given have been checked after listing by J.A. Roulier, Ens.

John Iaskowski

Chief of Party.

STATE Taunton River, Narragansett Bay, Mass.

Pos. No.	DESCRIPTION	Depth Water	POSITION		DATUM	METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	CHARTS AFFECTED			
			LATITUDE D.M. METERS	LONGITUDE D.P. METERS				HARBOR CHART	INSHORE CHART	OFFSHORE CHART	
1a	Taunton River Bdy "1" P. 703	14.3'	41 44	72 08	NA 1927	Seabank Fix	10/26	X			353
2a	" " " " " " " "	14.2'	41 44	72 07	"	"	"	X			"
3a	" " " " " " " "	19.7'	41 45	72 07	"	"	"	X			"
4a	" " " " " " " "	25.9'	41 46	72 07	"	"	"	X			"

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

PARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS ~~FOR~~ LANDMARKS FOR CHARTS
AND

Norfolk, Va.

30 November

1951

TO BE CHARTED
~~TO BE CHARTED~~

STRIKE OUT ONE

I recommend that the following objects which have (~~been~~) been inspected from seaward to determine their value as landmarks be charted on (~~the~~) the charts indicated.

The positions given have been checked after listing by

J.A. Boulier, Ens.

John Iaskowski

Chief of Party.

STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION			DATUM	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED			
				LATITUDE	LONGITUDE	D.P. METERS										
		GREAT SOUTH BAY, LONG ISLAND, NEW YORK. Following two fixed red lights maintained by Point O' Woods Association throughout year. Not previously charted. One light on NW corner of yacht basin and other light on W. side of entrance to yacht basin. Approx. 10' above bhhd. level.		0	1	0	1									
FR		NW corner of yacht basin #		40	39	382	73	08	352	1927	NA	Secant	7/11/51	X		578
FR		W side entrance to yacht basin #		40	39	387	73	08	331	"	"	"	"	X		"
		# Plot to Cite outline of yacht basin.														
		TAUNTON RIVER, FALL RIVER, MASS.														
STACK		N'y of three **		41	44	494	71	08	1035	"	"	Plane table	Oct '51	X		353
STACK		Brick, yellow (Approx 100')		41	43	1770	71	08	553	"	"	"	"	X		"
SPIRE		Church, white		41	45	259	71	08	743	"	"	Tylang. Plane table	1874	X		"
STACK		steel, gray (Approx. 80')		41	45	1677	71	07	994	"	"	Plane table	Oct '51	X		"
		** Two 3'ly stacks charted. N. stack of recent construction. The three stacks are of approx. same height and dimension. Recommend the three stacks be charted. Most prominent landmarks in area.														

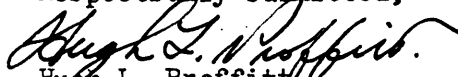
This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation if redetermined shall be reported on this form. The data should be considered for the charts of the area and not for

ADDENDUM
To Accompany

HYDROGRAPHIC SURVEY H-7939 (Field No. SP-1351)

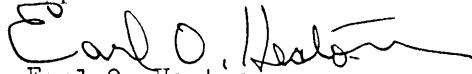
This survey was smooth plotted in the Hydrographic Section of the Norfolk Processing Office.

Respectfully submitted,


Hugh L. Proffitt
Cartographer.

Norfolk, Va.
13 February 1952

Approved & Forwarded:


Earl O. Heaton
Supervisor, SE Dist.

837

RHC

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~DIVISION OF HYDROGRAPHY AND TOPOGRAPHY~~

12 March 1952

Division of Charts: R. H. Carstens

Plane of reference approved in 3
volumes of sounding records for

HYDROGRAPHIC SHEET 7939

Locality Taunton River, Fall River, Massachusetts

Chief of Party: J. Laskowski in 1951
Plane of reference is mean low water, reading
1.9 ft. on tide staff at Taunton River
8.8 ft. below B. M. 1 (1951)

Height of mean high water above plane of reference is 4.4 feet.

Condition of records satisfactory except as noted below:

E. C. McKay
Section
Chief, ~~Division of Tides and Currents.~~

GEOGRAPHIC NAMES

Survey No. H-7939

Name on Survey										
	A	B	C	D	E	F	G	H	K	
	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List		
<u>Massachusetts</u>			(for title)						B.G.M.	1
<u>Fall River</u>			" "						"	2
<u>Taunton River</u>										3
<u>Breeds Cove</u>										4
<u>Steep Brook</u>			(village)							5
<u>Pottersville</u>										6
<u>Somerset</u>										7
										8
										9
										10
										11
<u>Steep Brook</u>										12
										13
										14
										15
										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

Names underlined in red are approved.
3-11-57. L. HEAR

suggest this as location for tide gage rather than a private boat yard, subject to change of name

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. ~~H-7939~~...

Records accompanying survey:

Boat sheets ..1...; sounding vols. ...3.; wire drag vols.;
 bomb vols.; graphic recorder rolls .2. ~~Env.~~;
 special reports, etc. 1. Descriptive Report; 1. Smooth Sheet;.....

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	.....	487
Number of positions checked	.....	167
Number of positions revised	.....	3
Number of soundings revised (refers to depth only)	.....	0
Number of soundings erroneously spaced	.....	12
Number of signals erroneously plotted or transferred	.....	0
Topographic details	Time	4 hrs.
Junctions	Time	.....
Verification of soundings from graphic record	Time	4 hrs.

Verification by GORDON J. THOMPSON..... Total time 56 hrs. Date 2 JUNE '52

Reviewed by *Am Zeskind*..... Time 23... Date 8-27-52

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. SP-A-51

REGISTER NO. T-7128

State Massachusetts

General locality Fall River

Locality Taunton River

Scale 1:10000 Date of survey 22 - 25 October, 19 51

Vessel Long Island Shore Party

Chief of party John Laskowski

Surveyed by J.Laskowski and J.A.Roulier

Inked by J.A.Roulier

Heights in feet above MHW to ground to tops of trees

Contour, Approximate contour, Form line interval _____ feet

Instructions dated 1 October, 19 51

Remarks: Graphic Control Sheet

G P O

The graphic control survey was applied to H-7934 and was then destroyed.

DESCRIPTIVE REPORT

TO ACCOMPANY

GRAPHIC CONTROL SHEET T-7128 (FIELD NO. SP-A-51)

TAUNTON RIVER FALL RIVER MASSACHUSETTS

LONG ISLAND SHORE PARTY JOHN LASKOWSKI, CHIEF OF PARTY

SPECIAL PROJECT SCALE 1:10,000

A. PROJECT:

This survey was executed in accordance with Instructions dated 1 October 1951, Special Project, Taunton River, Massachusetts.

B. SURVEY LIMITS AND DATES:

The survey covers Taunton River from about Lat. $41^{\circ}-46.2'$, Long. $71^{\circ}-07.2'$.

Field work was done during the period of 22-25 October 1951.

C. CONTROL:

Control for the survey was furnished by the following three triangulation stations: SOMERSET SPIRE 1874, 1887; WHITE CHURCH SPIRE 1874, 1934; and STEEP BROOK, BROWN CHURCH SPIRE 1874.

The 1945 radial plot positions STACK, EAST and STACK, WEST from sheet T-5750 were used, and checked in with the triangulation.

The radial plot position CUPOLA, 1945 did not check. The two northerly cuts to the cupola were made from strong fixes. The southerly cut is probably in error as the control available for orienting the planetable in that vicinity is weak.

G.C. Position
Ignoring southerly
cut
 $41^{\circ} 44'$, 180 m
 $71^{\circ} 07'$, 974 m
Not shown on
H-7939

D. SURVEY METHODS:

All signals were located by intersections from setups at points located by three point fixes and by resection. No traverses were run.

E. COMPARISON WITH PREVIOUS SURVEYS:

Air Photo Compilation Sheet T-5750, 1945 covers the area. The shoreline was transferred in pencil to the planetable sheet and verified in the field. In general the agreement was good.

At O'Connell's Boat Yard (Lat. $41^{\circ} - 44.44'$, Long. $71^{\circ} - 07.94'$) a mooring basin was formed by the sinking of old wooden barges. The location of the basin is shown on the sheet.

The marshland at signal OAK (Lat. $41^{\circ} - 45.31'$, Long. $71^{\circ} - 07.78'$) has been partially filled by the waste of the recent dredging of the channel. There is a ridge about twenty feet high extending along the shoreline. The marsh in back of the ridge will be probably filled by future dredging.

The New York, New Haven and Hartford Railroad Bridge (Lat. $41^{\circ} - 46.20'$, Long. $71^{\circ} - 07.26'$) has been removed. The remains of the approaches are as shown on the sheet.

Near signal ZOO (Lat. $41^{\circ} - 45.70'$, Long. $71^{\circ} - 07.43'$) there is a change in the shoreline. It is inked on the sheet.

F. LANDMARKS FOR CHARTS:

A separate report covers Landmarks for Charts and the information is not repeated in this report.

G. MISCELLANEOUS:

Not transferred to hydro sheet H-7939
A large boulder was located at Lat. $41^{\circ} - 44.67'$, Long. $71^{\circ} - 07.78'$. It lies between the high and storm water lines. The boulder was not used as a signal.

Approved:

John Laskowski
John Laskowski
Chief of Party

J.A. Roulier
J.A. Roulier
Ens. C&GS

RECOVERABLE PLANETABLE POSITIONS

OBJECT & DESCRIPTION	LAT.	D.M. m	LONG.	D.P. m	HT ft	REMARKS
CUPOLA, S. cupola on school building	41-44	996	71-08	1270		Somerset High School, Somerset, Mass. County Rd. (Mass. Hwy. 138)
STACK, tall, N.W. of three	41-44	494	71-08	1035		Power Plant, Riverside Ave., Somerset, Mass.
STACK, circular, metal	41-45	1677	71-07	994	80	Parks Co. Shellac Manufact. End Main St. Somerset, Mass
STACK, square, brick.	41-44	453	71-08	53		Small heating plant for Orphanage, Fall River, Mass
STACK, circular, brick.	41-43	1770	71-08	553	100	Shell Oil Co. Storage Yd. Fall River, Mass.
CUPOLA, on boat storage shed	41-44	898	71-07	1250		O'Connell's Boat Yard, 3200 N.Main St., Fall River, Mass.
SPIRE, church	41-46	71	71-08	32		Somerset, Mass.
DOOR, center of W. door, brick shed.	41-46	67	71-07	329		On N. end of bridge approach.
OUTLET, center of culvert outlet.	41-45	1417	71-07	386		W. end of stone culvert

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-7939

FIELD NO. SP-1351

Massachusetts, Fall River, Taunton River

Project No. Special,
Taunton River, Mass.

Surveyed in October - November 1951

Scale 1:10,000

Soundings:

808 Fathometer

Control:

Sextant fixes on shore signals

Chief of Party - J. Laskowski
Surveyed by - J. A. Roulier
Protracted by - B. T. Lewis
Soundings plotted by - B. T. Lewis
Verified and inked by - G. J. Thompson
Reviewed by - I. M. Zeskind, 27 August 1952
Inspected by - R. H. Carstens

1. Shoreline and Control

The shoreline originates with air-photographic survey T-5750 (1944). Shoreline changes shown in red are from graphic control survey (field number SP-A-51) which was subsequently destroyed.

The source of the control is given in the Descriptive Report.

2. Sounding Line Crossings

Depths at crossings are in good agreement.

3. Depth Curves and Bottom Configuration

The usual depth curves are adequately delineated.

This survey covers an area of river bottom which is generally smooth except for channel deeps. Depths along the axis of the channel range from 18 to 39 ft.

4. Junctions with Contemporary Surveys

No contemporary surveys join the present survey. However, present survey depths are in adequate agreement with depths charted from U. S. Corps of Engineers surveys of 1930 (Bps. 26144-45) on the north and with charted depths on the south.

5. Comparison with Prior Surveys

H-792a (1861), 1:20,000
H-792b (1861), 1:10,000

Only a few sounding lines from these early surveys cover the southern limits of the present survey. Numerous bottom changes have resulted from dredging and the construction of piers. The present survey supersedes the prior survey within the common area.

6. Comparison with Chart 353 (Latest print date 5-26-52)

A. Hydrography

The charted hydrography originates principally with the present survey prior to verification and review. Except for minor differences of 1 to 2 ft.; the charted depths are in agreement with those on the present survey.

B. Aids to Navigation

The present survey positions of aids to navigation are in substantial agreement with the charted positions and adequately mark the features intended except as follows:

1. Buoy "C3" charted in lat. $41^{\circ} 44.73'$, long. $71^{\circ} 08.0'$, falls about 200 meters northeastward on the present survey.
2. Buoy "N-4" charted in lat. $41^{\circ} 45.96'$; long. $71^{\circ} 07.45'$, falls about 240 meters northward on the present survey.
3. The FR Light charted in lat. $41^{\circ} 44.0'$, long. $71^{\circ} 08.62'$, was not shown on the present survey. Its existence however, was confirmed by telephone communication with the U. S. Coast Guard.

7. Condition of Survey

- a. The sounding records and Descriptive Report are complete and comprehensive.
- b. The smooth plotting was accurately done.

8. Compliance with Project Instructions

The present survey adequately complies with the Project Instructions.

9. Additional Field Work Recommended

This is a very good basic survey and no additional field work is recommended.

Examined and approved:



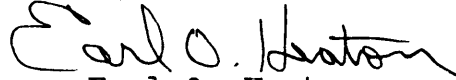
H. R. Edmonston
Chief, Nautical Chart Branch



H. Arnold Karo
Chief, Division of Charts



L. S. Hubbard
Chief, Section of Hydrography



Earl O. Heaton
Chief, Division of Coastal Surveys

