# 9555

Diag. Cht. Nos. 1000-3 & 1211-3

NOAA FORM 76\_35A

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

## DESCRIPTIVE REPORT

(HYDROGRAPHIC).

Type of Survey HYDROGRAPHIC

Field No. PE-80-2-75

Office No. H-9555

LOCALITY

State NEW YORK

General Locality LONG ISLAND

Locality SOUTH OF MONTAUK POINT

19 75

CHIEF OF PARTY

J. W. DROPP

LIBRARY & ARCHIVES

11-4-76

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☆ U.S. GOV. PRINTING OFFICE: 1975—668-353

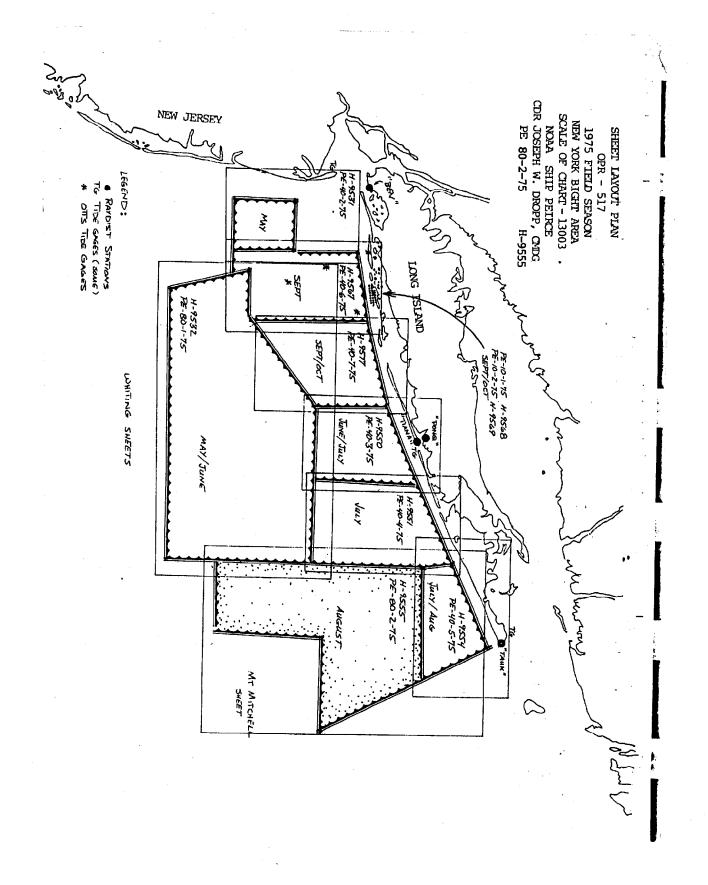
Chts
(12300) Applied BW 12/18

70 (13006) Applied RW 3/18

1211 (13205) Applied RW 3/18

1000 (13003)

	4
HYDROGRAPHIC TITLE SHEET	H-9555
INSTRUCTIONS - The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.	DE 00 0 75
State New York	And the second s
General locality New York Bight Long Island South of Montauk Point	Montank Point
Locality Offshore from Mecox Bay Inlet to 5	
	09-26 August 1975
	Jo. OPR-517
Vessel NOAA Ship PEIRCE, CSS-28 (Ves. No.	2830)
Chief of party Commander Joseph W. Dropp, NOAA Cdr. J. W. Dropp, LCdr. D. L. Sulo	ff. Lt. K. J. Schnebele.
Surveyed by Ltjq. B. B. Johnson, Ltjg. D. A. D. Ens. K. W. Santarelli	reves, Ens. T. I. Lillestol
Soundings taken by echo sounder, hand lead, pole Ross Model	
Graphic record scaled by Ship's Crew	
Graphic record checked by Ship's Officers and Surve	v Personnel VERIFICATON , AMC
Protracted by Hydroplot System CDP, AMC Auton	CALCOMP GIB EDP, AN
Verification by L. C. Cram	nated plot by
Soundings in Willow's feet at MLW xXXXV	
	7
REMARKS: All times are Greenwich mean time	
REMARKS: All times are Greenwich mean time	
All corrections in red by	h. G. Cram
	h. G. Coam
All corrections in red by	h. G. Coam



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- Checked items above and other misc. information removed from D.R. and filed in the cahier with the	

LANKY .

ME BET

LX CAST

field records

## DESCRIPTIVE REPORT

OPR-517-PE-75 PE-80-2-75 H-9555

## A. PROJECT

This survey was conducted as a part of the Atlantic Seaboard Area Project, New York Bight Phase. The pertinent project instructions were dated 27 March 1975, titled OPR-517-PE-75 with change #1 dated 14 April 1975.

## B. AREA SURVEYED

PE-80-2-75 covers the offshore area south of Long Island, N.Y. from Mecox Bay Inlet to five (5) miles east of Block Island. The survey limits may best be defined by straight lines connecting the following points:

	Lat.(N)	Long.(W)
From	40°47.4	72°13.4°
To	40°47.4'	71°40.7'
	40°30.0'	71°30.0'
	40°30.0'	71°54.0'
	40°04.0'	71°54.0'
	40°04.0'	72°13.4'
	40°47.4'	72°13.4'

Hydrographic Operations began on 09 August 1975 and ended on 26 August 1975.

## C. SOUNDING VESSEL

All soundings were obtained by the PEIRCE (CSS-28), VESNO 2830.

## D. SOUNDING EQUIPMENT AND CORRECTIONS TO ECHO SOUNDINGS

See attached corrections to Echo Soundings Report.

## E. HYDROGRAPHIC SHEETS

All field sheets were plotted aboard the PEIRCE by the ship's PDP8/e Computor and Complot Roll-Bed Plotter. Final smooth plotting, however, will be done by Atlantic Marine Center.

It should be noted that the first of the plotter sheets was prepared with the long axis of the paper running East-West while the second plotter sheet long axis runs North-South.

#### F. CONTROL STATIONS

See included Electronic Control Report.

## G. HYDROGRAPHIC POSITION CONTROL

See included Electronic Control Geport.

## H. SHORELINE

No shoreline is shown on this sheet.

## I. CROSSLINES

Crosslines constituted approximately (7.92%) of all hydrography excepting developments. Crosslines were run within one (1) foot of the time of predicted mean low water.

## J. JUNCTIONS

This survey junctions with five (5) contemporary surveys and one (1) prior survey. The junction to the north with H9554, PE-40-5-75 was very good. Differences were usually 1-2 feet with this survey having generally deeper soundings. To the north and east, a junction was made with H6331, 1:80,000, 1938 which was generally good to the south and east, the survey borders on OPR-517 "P" Sheet, 1:80,000 assigned to the NOAA Ship MT. MITCHELL, which was completed after the present survey and not available for comparison. The southernmost portion of the present survey junctions with WH-80-2-75. White WHITING's soundings were shallower by 4-10 feet, but the apparent differences may be attributed to two factors. The first of these is that the WHITING plotted its soundings without velocity corrections. Secondly, the WHITING plotted in fathoms vice feet for the PEIRCE. These factors added together could make the differences between plotted soundings very small. The present survey junctions with H9532 (PE-80-1-75) on the southern part of the western edge. This junction is very good with differences of one to two feet. The northern part of the western edge borders on a contemporary survey, H-9551, (PE-40-4-75). Here the junction was good with most differences in the 1-3 foot range.

#### K. COMPARISON WITH PRIOR SURVEYS

There were no presurvey review items within the survey area.

The three (3) prior surveys covering the survey limits were: H6329, 1:40,000, 1938, H6331, 1:80,000, 1938, and H6347, 1:120,000, 1938 with most differences one to three feet.

## L. COMPARISON WITH THE CHART

The northernmost sector of the survey area compared favorably with NOS Chart 13205; 1:80,000; 23 November 1974. Most of the field sheet was compared with chart 12300 (C&GS 1108); 1:400,000; 25 May 1974. The comparison was favorable except for two (2) soundings listed below:

LAT.	LONG.	CHARTE FMS	D SNDG. (FEET)	$\frac{\text{SURVEY SNDG.}}{(\text{FEET})}$
40°13.1'N	71°57.0'W	36	216	239
40°33.6'N	71°44.9'W	33	198	223

It is recommended that these charted soundings be changed to reflect the greater depths observed during this survey.

retaining the charted foundings

## M. ADEQUACY OF SURVEY

This survey is complete and adequate to superrede prior surveys for charting purposes. Note that bottom samples were not taken as per project instructions. That information is to be available from NOAA MESA studies.

## N. AIDS TO NAVIGATION

There were no aids to navigation within the survey area.

## O. STATISTICS

Total number of positions	•	•	•	•	•	1782
Total N. miles of Sounding Lines					•	2188.6
Total N. Miles of Crosslines					• /	<b>¥176.</b> 7
Total Square Nautical Miles					D	872.70
Number of Oceanographic Stations					Ю	2

## P. MISCELLANEOUS

In the final plotting of this field sheet, it was noticed that the corrector tape was not read by the computer between position numbers 1037 and 1225. Hand corrections were made on the field sheet for those soundings that were changed by 2.0 feet or more on the corrector tape.

## Q. RECOMMENDATIONS

This survey may be considered adequate to superred prior surveys for charting purposes. Also note recommendation for changes to charted soundings under section L of this report.

## R. AUTOMATED DATA PROCESSING

The following programs were used in collecting and processing the data for this survey:

RK 111	Range-Range Real Time Hydroplot	8/7/74
RK 201	Grid, Signal, Lattice Plot	4/18/75
RK 211	Range-Range Non-real-time Plot	8/16/74
RK 300	Utility Computations	5/22/75
PM 360	Electronic Corrector Abstract	3/21/74
AM 500	Predicted Tide Generator	11/10/72
RK 530	Layer Corrections for Velocity	6/25/74
RK 561	H/R Geodetic Calibration	2/19/75
AM 602	Elinore Line Editor	5/21/75

## S. REFERENCE TO REPORTS

All reports and information is included with the Descriptive Report or survey records. Note that Echo Soundings and Horizontal Control Reports are appended following the text of this report.

Respectfully submitted,

E. Scott Varney

ENS., NOAA

Approved:

CDR., NOAA

Commanding Officer NOAA Ship PEIRCE

#### CORRECTIONS TO ECHO SOUNDINGS

PE-80-2-75 H-9555

## **GENERAL**

This report covers corrections to echo soundings from the NOAA Ship PEIRCE, Ves. No. 2830, from 09 August 1975 to 26 August 1975 (J.D. 221-238). The corrections apply only to the survey PE-80-2-75 (H9555).

Final corrections are the algebraic sum of corrections input at (1) the Hydroplot Controller (and hence on the master data tape), (2) TRA corrector tape, and (3) velocity corrector tape, each of which is discussed separately within this report.

The PEIRCE made soundings with two Ross Fathometers. The first Model 200 A, modified to operate as a Model 5000. Its serial number is C-537-1039-5; however on some records the serial number was misunderstood to be 83898 which was a Department of Commerce instrument number. The second, Model 5000, S/N 1078, was used intermittently during the project.

The depths encountered by these fathometers were between 129 and 272 feet.

## HYDROPLOT CONTROLLER

The assumed depth of the transducer including settlement and squat was maintained at 11.0 feet at the Hydroplot Controller.

## TRA CORRECTIONS

TRA corrections are a combination of the following components:

- (1) TRA Draft
- (2) Initial Variation
- (3) Settlement and Squat

The sum of these factors range from 10.3 feet to 11.0 feet. The TC/TI tape reflects the difference between actual depth of the transducer and the 11.0 ft. maintained at the Hydroplot Controller.

#### INITIAL VARIATION

No correction for initial variation is required because the Ross units were maintained at zero initial by their built-in calibration circuitry.

## TRA DRAFT

The rail to water height was measured at the beginning and ending of each trip. This height was subtracted from rail to transducer height. The resultant figure was used as TRA draft.

## SETTLEMENT AND SQUAT

Settlement and Squat were determined for the NOAA Ship PEIRCE on 1 April 1974 off Point Comfort, Norfolk, VA. This data is listed in the settlement and squat abstract included with this descriptive report. Speed of the sounding vessel was noted on the daily statistics sheet for this survey and appropriate S&S correctors applied on the TC/TI tape. (See Echo Soundings Abstract).

#### VELOCITY CORRECTIONS

Velocity of sound through the water was assumed to be 800 FM per second. Any changes to this velocity were derived from a Nansen Cast taken on 25 August 1975 at Lat. 39°55.5'N, Long. 72°16.2' W, from which temperature, depth and conductivity measurements were obtained. After the conductivities were converted to salinities, the resultant information was input into the Program RK 530 (version 6-25-75) to determine velocity correctors. These correctors were applied on the velocity corrector tape. (Refer to Echo Soundings Abstracts).

#### DIRECT COMPARISONS

No corrections were derived from lead line soundings (vertical 7 casts), however, direct comparisons were used as a check on corrections determined by oceanographic casts.

No values for instrumental corrections estamed

## ELECTRONIC CONTROL REPORT

PE-80-2-75 OPR-517-PE-75 H-9555

## A. HORIZONTAL CONTROL

Horizontal positioning for this survey of PE-80-2-75 was established through the use of electronic Raydist operating in the Range-Range mode at a frequency of 3292.40 KHz.

## B. SHORE LOCATIONS

The shore locations of the slave stations were as follows:

Pattern I - Ponq

Lat. 40°50'55.904"N Long. 72°30'12.962"W

Pattern II - Tauk

Lat. 41°04'13.251"N Long. 71°51'29.524"W

Station Ponq was located near the Shinnecoek Inlet. Station Tauk was located south of the Mantauk Point C.G. Station at Mantauk Point. Station Ponq was located by a field party from the NOAA Ship PEIRCE. Station Tauk was located by the Atlantic Marine Center.

## C. CALIBRATION

All calibrations were computed using three point sextant fixes, with check angles, to known shore signals. Raydist lane counts were computed using AM 561 and the NOAA Ship PEIRCE'S PDP-8 computer. Each calibration consisted of at least three (3) sextent fixes when weather did not permit sextant fixes on shore signals, a whole lane count was determined by using a calibration buoy located at a known position. Passes were made close to the buoy on headings perpendicular to the Raydist arcs. The whole lane count of the buoy was determined immediately after a shore side calibration. #4 calibration buoy was placed at Lat. 40°43'05"N, Long. 72°14'22"W. On day 223 buoy #4 was damaged and replaced by buoy #5 located at Lat. 40°43'15"N, Long. 72°14'36"W. The calibration data is included with the supplemental data submitted with PE-80-2-75.

## ATLANTIC MARINE CENTER

## PROJECTION PARAMETERS

## POLYCONIC OR MODIFIED TRANSVERSE MERCATOR

1. Project No. OPR-517 4. Requested By R.G. Cram
2. Reg. No. H-9555 5. Ship or Office Verification Branch
3. Field No. PE-80-2-75 6. Date Required A.S.A.P.
7. Polyconic X Modified Transverse Mercator
8. Central Meridian of Projection 71 ° 52 ' 30 "
9. Survey Scale: 1: <u>80,000</u>
10. Size of Sheet (check one):
36 x 54 X 36 x 60 Other Specify
11. Sheet Orientation (check one):
NYX = 1
N .
36"N
54" CMER CMER
12. Plotter Origin: S.W. Corner of Sheet (not necessarily a grid intersection)
10 10 30 30 m
Longitude 72 ° 17 ' 30 "
13. G.P.'s of triangulation and/or signals attached
14. Material Desired: Tracing Paper Mylar X
Smooth Sheet X Other Specify
15. Remarks:

1. Project # OPR-517 2. Reg. # H-95	And World He had been a common a proper
4. Type of Control Raydist - Range/Ra	(Hi-Fix, Raydist, EPI, etc.)
5. Frequency 3292 HC htt. (for convers	ion of electronic lanes to meters)
6. Mode of Operation (check one):	
Range-Range	Range-Visual
Range One (R <sub>1</sub> ) None Station I.D. Pong	Lat. 40 50 55.904"  Long. 72 30 12.962"
Range Two (R <sub>2</sub> ) Station I.D. TAUK	Lat. 41 04 3.251" Long. 51 57 29.524"
Hyperbolic (3-station)	Hyper-Visual
Slave One Station I.D.	, Lat
Master	Lat.
Station I.D. Slave Two	Lat. "
Station 1.D.	Long. "
7. Location of Survey:  Range-Range  Imagine an obser	ver is standing at R <sub>1</sub> Station and
looking directly	at R <sub>2</sub> (check one):
Survey area is	to observer's Right A=Ø
Survey area is	to observer's Left A=1
Hyperbolic Looking from sur	vey area toward Master Station:
Slave One must	be to observer's Left.
	be to observer's Right.
8. This form is submitted as an aid	
This form applies to all data on	
This form applies to part of the	data on this survey.
Vessel From EDP # Time Day Tim	To Position Numbers e Day (inclusive)
2830 073023 221 2140	26 238 000\ to 1851
	to to
9, Remarks:	
	Page 5
The same of the sa	The state of the s
Transmittal No. 12	

# U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY

## TIDE NOTE FOR HYDROGRAPHIC SHEET

Processing Division: Atlantic Marine Center:

Hourly heights are approved for

Tide Station Used (NOAA Form 77-12): Sandy Hook, N.J.

Period: August 9 - 26, 1975

HYDROGRAPHIC SHEET: H-9555

**OPR:** 517

6

Locality: New York Bight

Plane of reference (mean XXXXXX low water): 2.26 ft.

Height of Mean High Water above Plane of Reference:

3.0 ft.

Remarks: Recommended zoning:

	•	Time correction	Range ratio
(1)	West of 71°50'	-60 min.	x0.65
(2)	North of 40 <sup>0</sup> 35' East of 71 <sup>0</sup> 50'	-45 min.	x0.61
(3)	South of 40 <sup>0</sup> 35' East of 71 <sup>0</sup> 50'	-60 min.	x0.65

Jon Chief, Tides Branch

# VELOCITY TAPE PRINTOUT PE-80-2-75 H-9555

```
000040 0 0002 0001 000 283000 080275
000086 0 0004.
000132 0 0006.
000179 0 0008.
000230 0 0010.
000279 0 0012-
000327 0 0014.
ØØØ369 Ø ØØ16·
000428 0 0018
000498 0 0020.
000572 0 0022
000660 0 0024
000773 0 0026-
000931 0 0028
001042 0 0030.
001124 0 0032
001203 0 0034.
001280 0 0036.
001328 0 0038
001403 0 0040.
001500 0 0042
001598 0 0044
001700 0 0046
001801 0 0048
001925 0 0050.
002085 0 0052-
002305 0 0054
ØØ2553 Ø ØØ56
003000 0 0058°
999999 Ø ØØ6Ø'
```

## SIGNAL NAMES OPR-517 1975 PE-80-2-75

PONQ

098....HAMP (ELECTRONIC)

099....TAUK (ELECTRONIC)

058....EAST HAMPTON BOSCO CABLE CO. MAST

060....EAST HAMPTON CHURCH SPIRE

061....EAST HAMPTON LARGE WARER TANK

062....AMAGANASETT WATER TANK

063....AMAGANASETT ELECTRIC LIGHT PLANT CHIMNEY

064....NAPEAGUE RADIO STATION WSL EAST MAST

065....NAPEAGUE RADIO STATION WSL WEST MAST

069....MONTAUK PT. LIGHT

### SIGNAL LOCATIONS OPR-517 1975 PE-80-2-75

Ø98 7 40 50 55904 072 30 12962 250 0000 329240 Ø99 7 41 04 13251 071 51 29524 250 0000 329240 40 59 37511 072 10 18256 Ø58 7 139 0000 000000 060 7 40 57 36591 072 11 18857 139 0000 000000 40 58 14201 072 10 08376 139 0000 000000 Ø61 7 062 7 40 58 44378 072 08 24199 139 0000 000000 063 7 440 59 28426 072 05 40155 139 0000 000000 40 59 53936 072 03 08199 064 7 139 0000 000000 Ø65 7 40 59 50299 072 03 20416 139 0000 000000 Ø69 7 41 04 15113 071 51 27291 13990000 0000000

## Approval Sheet

Field work on PE-80-2-75, H-9555 was done under my immediate daily supervision. The Boat Sheet and all records have been reviewed and are approved by me.

Joseph W. Dropp Commander, NOAA Commanding Officer

NOAA Ship PEIRCE (CSS-28)

## ATLANTIC MARINE CENTER APPROVAL SHEET AUTOMATED SURVEY H-9555

All revisions and additions made on the smooth sheet during verification have been entered in the magnetic tape records for this survey. A new final position printout has/has not been made. A new final sounding printout has/has not been made.

July 26,1976

Signed: William A

Chief, Verification Branch

The verified smooth sheet has been inspected, is com-В. plete, and meets the requirements of the Hydrographic and AMC Manuals. Exceptions are listed in the verifier's report.

Chief, Processing Division

NOAA FORM 76-155 (11-72) NA	TIONAL O	CEANIC A			NT OF CO		SUF	RVEY NU	MBER	
GEO	GRAPH			V.				9555		
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# HYDROGRAPHIC SURVEY STATISTICS HYDROGRAPHIC SURVEY NO. H-9555

PE-80-2-75

1.7

RECORDS ACCOMPANYING SURVEY: To be completed when survey is registered.

RECOR	D DESCRIPTION		АМО	UNT		AMOUNT		
sмоотн sнеет & smooth PNO.exces:				1 BOAT SHEETS 2-parts mylar			x <b>?</b>	
DESCRIPTIVE RE	PORT	•		l	OVERL	24		
DESCRIPTION	DEPTH RECORDS	HORIZ.		PRINT	OUTS	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/ SOURCE DOCUMENTS
ENVELOPES	X			ĸ	2			
CAHIERS	lwith p	rintou	its	Ķ	[			
VOLUMES	1							
BOXES				l-smoo	th P/C	,envelopes,s	awtooth rec.	sndg, vol.

T-SHEET PRINTS (List)

N.A.

SPECIAL REPORTS (List)

N.A.

## OFFICE PROCESSING ACTIVITIES The following statistics will be submitted with the cartographer's report on the survey

	AMOUNTS						
PROCESSING ACTIVITY	PRE- VERIFICATION	VERIFICATION	REVI	EW	TQTALS		
POSITIONS ON SHEET					1819		
POSITIONS CHECKED		190					
POSITIONS REVISED		10					
DEPTH SOUNDINGS REVISED		150					
DEPTH SOUNDINGS ERRONEOUSLY SPACED		0	.,				
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED		0					
		TIME (MA	NHOURS)				
TOPOGRAPHIC DETAILS		0					
JUNCTIONS		38					
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS		32					
SPECIAL ADJUSTMENTS		0					
ALL OTHER WORK		48					
TOTALS		118	98				
PRE-VERIFICATION BY		BEGINNING DATE		ENDING DAT	E		
R. Roberson, J. Griffin, C. M	Meekins	03/01/		06/	11/76		
R. Roberson, J. Griffin, C. N VERIFICATION BY QUALITY CONTROL BY		BEGINNING DATE	11-18-76	ENDING DAT	E 11-23-76		
L.G. Cram X.W. Wellman	22 hrs	07/12/			15/76		
REVIEW BY		BEGINNING DATE		ENDING DAT			
Hydrographic Inspection Team	(AMC)	07/30/3	76	07/36/7	16		

ENGLE 8413 18 aumgadur 5 hw 1-7-77 \* U.S. G.P.O. 1972-769-562/439 REG.#6

## REGISTRY NO. H-9555

The Computer and Excess Sounding Cards for this survey have not been corrected to reflect the changes made to the Computer Card and Excess Card Printouts at this time of the review.

When the cards have been updated to reflect the final results of the survey, the following shall be completed:

	CARDS CORRECTED
DATE	TIME REQUIREDINITIALS
REMARKS:	
	REGISTRY NO. H-9555
	containing the data for this survey has not reflect the changes made during evaluation
	tape has been updated to reflect the final rvey, the following shall be completed:
• . •	MAGNETIC TAPE CORRECTED
DATE	TIME REQUIRED INITIALS
REMARKS.	

## H-9555

## Items for Future Presurvey Reviews

None

## HYDROGRAPHIC INSPECTION TEAM

#### ATLANTIC MARINE CENTER

#### HYDROGRAPHIC SURVEY REVIEW

DATE: July 30,1476

REGISTRY NO.: H-9555 FIELD NO.: PE-80-2-75

## GENERAL LOCALITY and SPECIFIC LOCATION:

New York, Bight - Offshore, from Mecox Bay Inlet to Montauk Point

SURVEYED: August 9, 1975 through August 26, 1975

PROJECT NO.: OPR-517 SCALE: 1:80,000

Ross Model 200A -SOUNDINGS BY: CONTROL: Raydist

Modified to Model 5,000 (Range-Range)

Chief of Party ...... CDR Dropp Surveyed by ..... CDR Dropp ..... LCDR Suloff ..... LT Schnebele ..... LTJG Johnson ..... LTJG Dreves

..... ENS Lillestolen ..... ENS Santarelli

Automated Plot by ...... Calcomp Plotter #618 (AMC)

Verified and Inked by ..... L.G. Cram

## Control and Shoreline

The control is adequately described in the Descriptive Report.

No shoreline was used for this offshore survey.

## 2. Hydrography

- A. Crossings: The crosslines are in good agreement.
- B. Depth Curves: The standard depth curves adequately delineate the bottom configuration; however, the 150 foot curve was added in brown to better delineate the bottom. The development of bottom configuration and investigation of least depths are considered adequate.

C. Developments: There were no developments on this sheet.

## 3. Condition of the Survey

The sounding records, automated plotting and the Descriptive Report are adequate and conform to the requirements of the Provisional Hydrographic Manual, supplemented by the Atlantic Marine Center Manual, with the following exceptions:

There were no stamps used in the Sounding Volumes and the cover page was not filled out. No detailed positions or location of calibration buoys were recorded in the Sounding Volume.

The locality, as shown on the cover sheet, disagreed with that shown on the Hydrographic Title Sheet.

## 4. Junctions

Adequate junctions were effected with the following contemporary surveys: H-9554′(1975) to the north, H-9551 (1975) to the west, H-9574′(1975) and H-9557 (1975) to the south. There is no contemporary survey on the eastern side of this survey; an adequate junction was made with H-6331 (1938). (See QC. Report items | land 2)

## Comparisons

A. Prior Surveys: H-6331 (1938) 1:80,000 H-6347 (1938) 1:120,000 H-6329 (1938) 1:40,000

The present survey was compared with three prior surveys that cover the area, with good agreement in all areas of comparison. (See Q.C. Report-item 3)

It is recommended that this present survey supersede the prior surveys in the common area.

B. Wire Drag Surveys: There appears to be no wire drag survey within the area. (See Q.C. Report-item 4)

#### 6. Published Charts

#13205 (C&GS 1211), 21st edition, dated November 29, 1975 and #12300 (C&GS 1108), 21st edition, dated April 3, 1976. (See Q.C. Report-item 5)

June 7, 1975

- A. Hydrography: The current survey is in good agreement with the charts listed above. (See Q.C. Report-item 6)
- B. Attention is directed to the following: There were two soundings mentioned in the Descriptive Report;

page 3, paragraph L. - there is no indication that the 33 fathom sounding exists and the probability of its existence appears doubtful. The 36 fathom charted sounding is in the very near vicinity of a 36 fathom (216 feet) sounding on the present survey.

C. Aids to Navigation: There are no aids to navigation in the survey area.

## 7. Compliance With Instructions

This survey complies with Project Instructions.

Bottom samples on this survey were obtained from an "Oceanographic Log Sheet-M" submitted by the NOAA Ship GEORGE B. KELEZ. Since this sheet is the only source data on hand, the geographic positions were not verified. The depths were changed to "missed depths" in the records.

Two submerged wrecks on Chart 12300 were not indicated on the Pre-survey Review for any specific investigation, nor was there any performed. Recommend the wrecks remain, as charted. These items were not brought forward to this survey as the source is unknown at this office. (See Q.C. Report-item 7)

1. Sunken wreck at latitude 40° 10' 00" and longitude 72° 02' Ad" (Originates with Work Chart 1108 A-4 S. Navy Wresk List)

72° 02' 96" (Originates with Wreck Chart 1108A-U.S. Navy Wreck List)

2. Sunken wreck at latitude 40° 46' 26" and longitude 71° 48' 00". (Originates with NM 16/60) RE YOUR ZORN ZORN EN ALL SUNKE

The location of the tide stations used is noted in the Descriptive Report.

#### 8. Additional Field Work

This is an excellent basic survey. Additional field work is not recommended.

## 9. Hydrographic Inspection Team Comments

Hydrographic Inspection Team comments are included within this report and Verification deficiencies found have been corrected on the Smooth Sheet. Approval Sheet for H-9555

Examined and Approved: Hydrographic Inspection Team

Chief, Operations Di√ision

Chief, Processing Division

Chief, EDP Branch

William L. Jonns Chief, Verification Branch

Approved/Forwarded

Robert C. Munson

RADM, NOAA

Director, Atlantic Marine Center

## UNITED STATES DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration

NATIONAL OCEAN SURVEY Rockville, Md. 20852

C352

November 23, 1976

a. D. Put

T0:

. J. Patrick

Chief, Marine Surveys Division

THRU:

Chief, Quality Control Branch

FROM:

K. W. Wellman 95. W. Wellman

Quality Evaluator

SUBJECT:

Quality Control Report for H-9555 (1975), New York, Long

Island, South of Montauk Point

A quality control inspection of H-9555 (1975) has been accomplished to evaluate the accuracy and adequacy of the survey with respect to data acquisition, delineation of the bottom, determination of least depths and navigational hazards, junctions, decisions and actions by the verifier, and cartographic presentation of data.

Junctional sheets H-9532 (1975) and H-9557 (1975) are not presently available for examination of junctional adequacy.

In general, the present survey was found to conform with National Ocean Survey standards and requirements except as follows:

- 1. It is considered incorrect to claim that a junction was effected with H-6331 (1938) or to include it in section 4 (Junctions) of the Review Report. This prior survey is appropriately considered and superseded in section 5-A (Comparisons-Prior Surveys) of the Review Report and, therefore, should not have been included in section 4.
- 2. Section 4 of the Review Report contains no reference to junctional survey H-9532 (1975) on the west.
- 3. Section 5-A of the Review Report is supplemented by the following: . . . good agreement in all areas of comparison; i.e., present depths generally within  $\pm$  0 to 3 feet of prior survey depths. The depth differences are attributed to natural causes. (See provisional manual section 6.6(11).)





H-9555

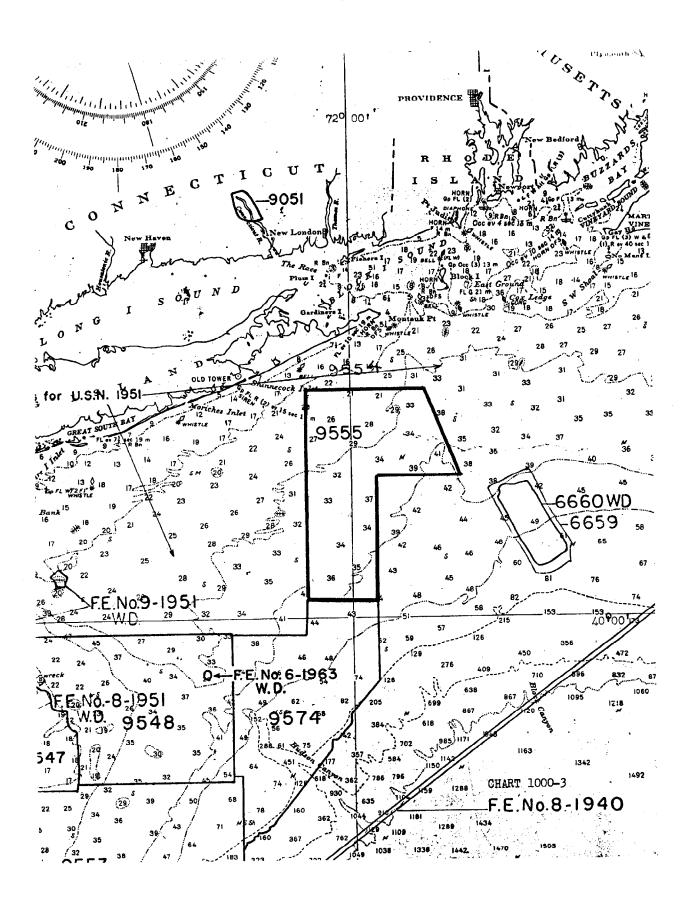
4. Section 5-B of the Review Report is considered superfluous inasmuch as there are no prior wire-drag surveys covering the area of the present survey. This section should be omitted unless wire-drag surveys fall in the area of the present survey.

- 5. The verifier did not use the editions of charts current at the date of the survey in his "Comparison with Charts" (apparently because they were not available at the Marine Center), nor did he forward the charts, later editions, which he used as required by the Provisional Hydrographic Manual section 8.3(12).
- 6. The verifier failed to specify the adequacy of the present survey to supersede the charted hydrography.

Section 6-A of the Review Report is supplemented by the following: The charted hydrography originates with the previously discussed prior surveys which require no further consideration supplemented by the U.S. Navy Wreck List and a Notice to Mariners. With the exception of the wrecks discussed in section 7 of the Review Report, the present survey is adequate to supersede the charted hydrography within the common area.

7. The discussion of the charted nondangerous submerged wrecks (section 7 of the Review Report) would have been more appropriate as an additional item in section 6-B of the Review Report (Comparison with Chart).

cc: C351



## NAUTICAL CHART DIVISION

## **RECORD OF APPLICATION TO CHARTS**

H-9555 FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. \_\_

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A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

2. In "Remarks" column cross out words that do not apply.

Z, 111 1/C11101110 COLUMNIC TOTAL		
		er "Comparison with Charts" in the Review.
7 Cine recent tot deviations	any trom tecommendations made undi	er Comparison with Chaits in the Neview.
3. Give leasons for deviations.	ally, from recommendations made	

CHART	DATE	CARTOGRAPHER	REMARKS CO.C.
1211	2-7-77	Gott CHeley	Part Baine After Verification Review Inspection Signed Via
1			Drawing No. 45 PROOF. EXAMINED FOR CRITICAL CORRS ONLY
,			NO CORRECTION.  Full Part Before After Verification Review Inspection Signed Via
1211	9-01-78	P. Wirtheld	Full Part Before After Verification Review Inspection Signed Via
		$\cup$ 0	Drawing No. 47 Revised Soundings and curves
-1110	11/12/20	Bellevanless	Full Part Before Affer Verification Review Inspection Signed Via
IIVO	12/12/78	15 M Wantes	Drawing No. 48
70	3/7/79	P. Windshill	Full Part Before After Verification Review Inspection Signed Via
,		- water	Drawing No. 43
(13006)			
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