9542

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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 MI-40-2-75 Office No H-9542
LOCALITY
State NEW JERSEY
General Locality OFF. THE FAST .COAST
Locality CAPE MAY - ATLANTIC CITY
1975
CHIEF OF PARTY R. M. Buffington
LIBRARY & ARCHIVES
DATE 4/12/76

Areas 142

☆U.S. GOVERNMENT PRINTING OFFICE: 1974-763-098

- 1217. Applied 5/20/77 JP - 1108. - 1109 Applied 1/0/17 RLH

DESCRIPTIVE REPORT

HYDROGRAPHIC SURVEY MI-40-2-75

H-9542

OPR-517-MI-75

CAPE MAY TO ATLANTIC CITY, N.J.

26 JUNE, 1975 to 10 AUGUST, 1975

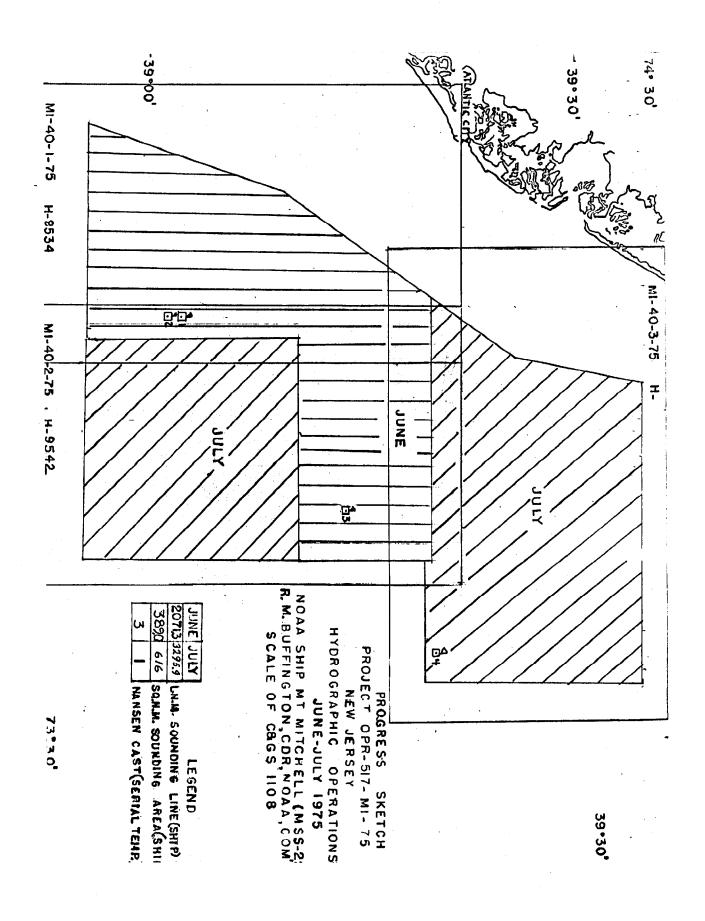
NOAA SHIP MT.MITCHELL, (MSS-22)

Ronald M. Buffington Commander, NOAA Commanding Officer

ORM C&GS-537 U.S. DEPARTMENT OF COMMERCE 1-66) ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY	REGISTER NO.
HYDROGRAPHIC TITLE SHEET	H-9542
INSTRUCTIONS - The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.	FIELD NO. MI-40-2-75
State New Jersey General locality Northeast Atlantic Ceast Locality Offshore Cape May to Atlantic City	
Scale 1:40,000 Date of sur	26 June 1975
Instructions dated 27 March 1975 Project No.	
Vessel NOAA Ship Mt. Mitchell MSS-22	
Chief of party Ronald M. Buffington, Commander, N Surveyed by	
•	Echo Sounder
Graphic record checked by	
Protracted by Plotted by Cal Comp - 6/8 HMC Automa 8/3	ted plot by Hydroplet System, NOAA Ship Mt.Mitche
Soundings penciled by	tephenson 2-11-76
	1975;

applied to s	il ulular
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	Lew .

USCOMM-DC 37009-P46



A. PROJECT:

This survey, MI-40-2-75 (H-9542), was conducted by the NOAA Ship MT MITCHELL MSS-22 as a pretion of Project "ASAP", OPR-517, New York Bight Phase in accordance with Project Instructions dated 27 March 1975, and Change No. 1 dated 14 April 1975.

B. AREA SURVEYED:

This survey was conducted offshore of the Atlantic Coast between Cape May and Atlantic City, New Jersey, generally between the 18 and 22 fathom curve. The survey limits are described as the line connecting the following corner points in a clockwise direction:

Lat.	38°	52.0'	N	Long.	74°	09.5'	W
	39°	22.01	N		74°	09.5	W
	39°	22.0'	N		73°	44.0'	W
	38°	52.01	N		73°	44.0"	W

Hydrography was conducted for this survey on the following dates:

26 June (JD 177) to 3 July (JD 184) 1975 11 July (JD 192) to 17 July (JD 198) 1975 9 August (JD 221) to 10 August (JD 222) 1975

C. SOUNDING VESSEL: H-3542

All soundings for MI-40-7-75 were obtained by the NOAA Ship MT MITCHELL MSS-22 (vessel number 2220 on all survey records) utilizing a fully automotated HYDROPLOT SYSTEM. Digitized soundings and electronic control data were entered into a Digital PDP-8E computer (serial number 8503) via a NOS Hydroplot Controler. Soundings and positions were punched on paper tape, recorded on teletype printouts and plotted automatically by a Complot DP-3 roll plotter.

D. SOUNDING EQUIPMENT AND CORRECTIONS TO ECHO SOUNDINGS:

All soundings were obtained by a Ross Laboratories Model 5000 Fineline Recorder, (serial number 1052) using two skeg mounted transducers and a Ross Model 4000 transceiver (serial number 1050). All soundings were digitized to the neasest tenth of a foot by a Ross 6000 Depth Digitizer (serial number 1039-2).

All graphic records were scanned by survey personnel and checked by the officer in charge. Siginificant peaks and deeps that occurred between soundings were inserted, errors were corrected, and the effects of seas were meaned and corrected on a corrector tape.

D. SOUNDING EQUIPMENT AND CORRECTIONS TO ECHO SOUNDINGS (CONT'D.):

Phase calibration checks were made at frequent intervals to check for fathometer belt speed. Adjustments were made as necessary, and were noted on the fathogram and in the sounding volume. Departures of the trace due to phase differences were corrected during the scanning process.

On 29 June 1975, a Nansen case was deployed at Latitude 39° 13.0' N., Longitude 73° 46.5' W. From the temperature and salinity data obtained by this cast, layer corrections for the velocity of sound were computed. The values placed on the velocity tape employed during the final smooth plotting of the boat sheets were only the correctors applicable at the location of each Nansen bottle. After all smooth plotting of the sheet had been finished, it was need that the velocity tape was not in accordance with Hydrographic Instructions.

The curve graphically portraying depth versus correctors to be applied was constructed. From this graph, every two-tenths of a foot difference apparently in velocity correctors and their corresponding depths were compiled nove compared into a proper velocity table and tape. Printouts of both tapes are in-nor instrument cluded with this report. The maximum discrepancy in the soundings due to error for the use of the improper velocity tape are six-tenths of a foot for depths depth recompared from 16.4 feet to 32.7 feet. No soundings were obtained within this or applied range. All other discrepancies were less than one half foot. Because of this fact, the boat sheet was not replotted. It is recommended that when replotted at AMC, the corrected velocity tape, included with data tapes, be employed.

A number of draft readings were taken throughout the course of MI-40-2-75. During the on line process, a draft correction of 14 feet was applied to all soundings. Changes of the draft are incorporated in the TC/TI tape included with the survey data (A printout of the tape in included with this report).

Settlement and Squat correctors were determined on 22 July 1974 in Mayport, Florida. An abstract of the settlement and squat correctors versus engine "RPM" is included with this report.

The survey was conducted using predicted tides based on daily predictions for Sandy Hook, New Jersey as found in the Tide Tables for 1975. A copy of the request for actual tides for the area surveyed is included with this report.

E. HYDROGRAPHIC SHEET:

The smooth sheet of MI-40-2-75 will be prepared at the Atlantic Marine Center, Norfolk, Virginia. The following tapes and their respective printouts will be forwarded to CAM-3 with this report:

E. HYDROGRAPHIC SHEET (CONT'D.):

Master Range Range Data Tapes
Electronic Corrector Tape
Parameter Tape
ASCII Signal Tape
Velocity Tape (Revised 21 August 1975)
Transducer Corrector/Table Indicating Tape

This survey was plotted on three Complot roll plotter sheets with a skew of 0° 22' 36". A printout of the parameter tapes accompanies this report. The Boat Sheet was smooth plotted off-line with an electronic corrector tape and an incorrect velocity tape.

F. HYDROGRAPHIC POSITION CONTROL: *

A Decca Range Range HIFIX system, operating at a frequency of 1799.60 KHZ, was the control for the survey. The two shore stations were located at:

Signal Number	Station Name	Latitude	Longitude
005	Cape May (H-AMC-1-NJ-75)	38° 56' 12.689"N	74° 53' 44.342"W
015	Barnegate (ZIMM, 1975)	39° 45' 44.159"N	74° 06' 19.764W

The Shore Stations were located by the National Ocean Survey, Atlantic Marine Center.

The HIFIX Calibration was accomplished using three point sextant fixes with a check angle. All computations employed the hydroplot calibration program (K 561. Only fixes with an inverse distance of less than five meters were considered acceptable in establishing the mean lane count.

The calibration area was located four miles offshore of Atlantic City. When it became desir table to determine the validity of whole lane count one of two calibration buoys (B-1 & B-2 respectively) was circled. These buoys were constructed and established in the working area by the NOAA Ship MT MITCHELL, MSS-22. A number of navigational aid buoys were also used in dtermining lane count.

Name	Latitude	Longitude
B-1	39° 13.5'N	73° 51.4'W
B-2	39° 04.1'N	74° 05.5'W
Avalon Shoals	39° 05.4'N	74° 34.0'W
"2FB"	38° 58.2' N	74° 3;/3'W
		31.5 W

The lane count was constantly monitered by members of the Survey Department by comparing the HIFIX goniometer with a running count being recorded on the sawtooth recorder. Due to the frequent instability of the system, the sawtooth was continuously manned and records scanned on line so that all lane jumps could be caught and corrected.

* Sections F and G are combined

F. HYDROGRAPHIC POSITION CONTROL (CONT'D.);

Although the ship's maximum distance from either of the shore stations was 56.2 miles, a number of problems with the HIFIX resulted in many costly delays and the rejection of data. Lane jumps were due to adverse atmosphereic conditions and equipment failure. Another factor affecting lane count was the frequent mis-application of lane losses or gains in the Hydroplot Controller. An abstract of the total electronic correctors applied is inserted in the appendices.

H. SHORELINE:

There was no shoreline within the survey limits.

I. CROSSLINES:

Crosslines were run to the extent of 5% of the regular sounding lines. Agreement was generally within a foot.

J. JUNCTIONS:

Survey MI-40-2-75 junctions well with MI-40-1-75 (H-9534) to the west. Most soundings were in general agreement, the maximum discrepancies being only one to two feet, and found in the relatively steeper slopes at the northwest corner of the sheet.

Junction soundings to the north with MI-40-3-75 (H-9552) were all within a foot of each other with no set pattern. Depth curves continued across the junction with no distortion.

M-9542 M-9553 MI-40-2-75 junctions to the east with MI-80-1-75 which has not yet been completed. Junctions between the two sheets will be discussed in the Descriptive Report for that sheet.

K. PRIOR SURVEYS:

Prior surveys conducted in the area of this survey are as follows:

Res	gistry Number	Scale	Date of Survey
•	н-6217	1:40,000	1937
	H-6219	1:120,000	1937
	н-6264	1:40,000	1937
	н-6345	1:80,000	1938
WITE Drag	FE NO. 5	1:40,000	1951

All soundings were in fathoms. The prior survey's soundings coincided well with MI-40-2-75 soundings at all depths.

H-9542

There were no pre survey review items to be investigated.

L. COMPARISONS WITH THE CHART:

The area surveyed is contained on Chart No. 12120 at 1:400,000 scale.

All soundings compared well with the chart. The three wire dragged wrecks indicated on the chart did not show up on the fathograms.

(see, Section, Soundings enclosed by triangles, Pre-Survey Review, M. ADEQUACY OF THE SURVEY:

This investigation is complete and adequate to supersede all prior work in the area.

N. AIDS TO NAVIGATION:

There were no aids to navigation within the survey limits.

O. STATISTICS:

Linear Nautical Miles Sounding Lines	1959.9
Crosslines	98.5
Developments	236.1
Total Linear Nautical Miles of Hydro	2295.5
Total Linear Miscellaneous Miles	1357.0
Total Linear Miles Run	3652.5
Square Miles of Hydro	48
Total Positions	2266
Nansen Casts .	1
Bottom Samples obtained by George B. Kelez FRS-4	1101
and platted on Smooth Sheet and	
P. MISCELLANEOUS: entered in Survey records	•

None

Q. RECOMMENDATIONS:

None

R. AUTOMATED DATA PROCESSING:

The following programs were utilized to complete this survey:

Program	Title	Version Date
RK 111	Range Range Real Time	8-7-74
RK 201	Grid Signal & Lattice Plot	4 - 18 - 75
RK 211	Range Range Non Real Time	8-16-74
RK 337	Unscrambler	8-8-74
PM 360	Electronic Tape 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
RK 602	Elinore Line Editor	5-21-75

S. REFERENCE TO REPORTS:

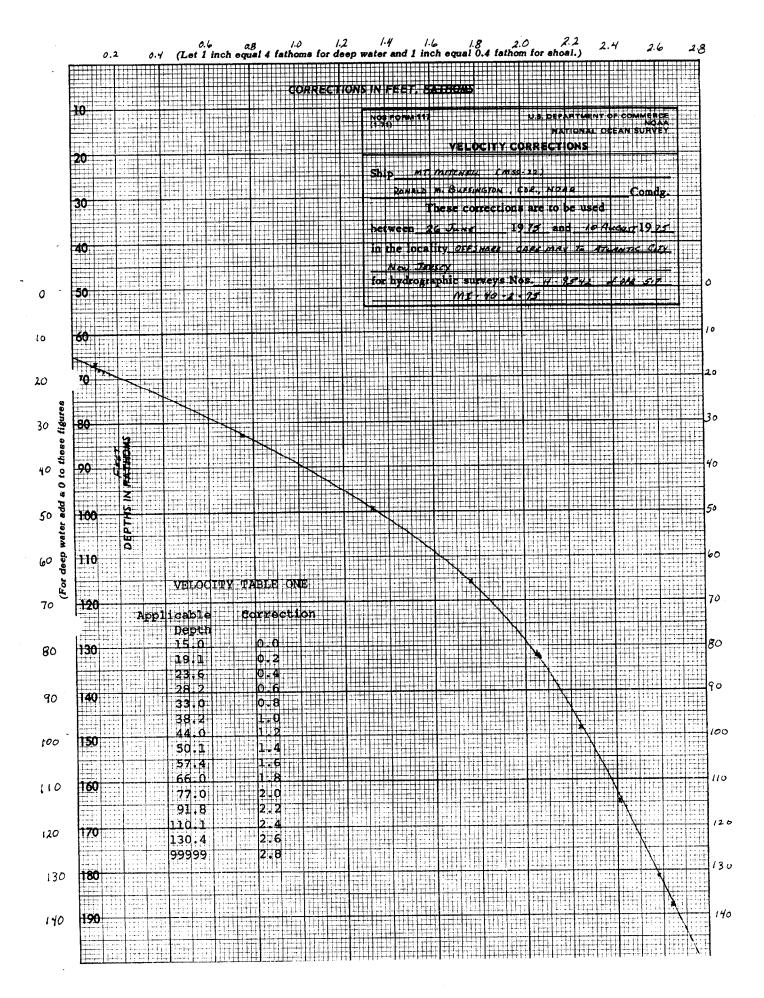
None.

Respectfully submitted,

Kuhan Emarrine A Richard E. Marriner II

Ensign, NOAA

Cnova	VELOCITY CORRECTIONS FOR SURVEY H 9542.
- tace	
TABLE NUMBER 1.	
21	UNIT IS FEET.
15.0 0.0	CORRECTION
19.1	
33.0 0.8	
44.0 50.1	
57.4 1.6 66.0 1.8	er en en en en e
77.0 2.0 91.6 2.2	
110.1 2.4	
2.8	
- Take corre	ction for sounding plus Tra
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<u> </u>	P.O. CHECKED BY 8/5
	DATE Z-//-76 VERIFICATION BR. AND
	TARLES TION BR. AMC
9	
	



NOAA Ship MT MITCHELL MSS-22
Abstract of Settlement and Squat Correctors

RPM's	s+s Correctors (ft)	s+s Correctors (ft)
105	0.0	0.0
110	0.045	0.0
120	0.140	0.1
130	0.225	0.2
140	0.300	0.3
150	0.356	0.4
160	0.403	0.4
170	0.440	0.4
180	0.472	0.5
190	0.500	0.5

Computed by: Evelyn J. Fields

Checked by: David Pasciuti

SIGNAL NAMES LIST SOUTH COAST OF NEW JERSEY

~ ~ ~	11-AMO-1-N 1-100F	AMC	OPER DIV
005	H-AMC-1-NJ-1975		
	Z1MM, 1975		OPER DIV
Ø 5Ø	WILDWOOD, STANDPIPE, 1928	VOL	1 P328
Ø 6Ø	NORTH WILDWOOD, NORTH STANDPIPE, 1962	VOL	2 P97
0 70	STONE HARBOR, COAST GUARD STATION CUPOLA	VOL	2 P95
	1932		
080	STONE HARBOR WATER TANK, 1962	VOL	2 P94
0 90	AVALON STANDPIPE, 1932	VOL	2 P65
120	OCEAN CITY STANDPIPE, 1962	VOL	2 P89
130	OCEAN CITY FLANDERS HOTEL CUPOLA, 1962	VOL	2 P90
140	OCEAN CITY WATER TANK, 1962 MARGATE CITY STANDPIPE, 1962 MARGATE CITY WATER TANK, 1962 DITE OF DESCRIPTION 1981	VOL	2 P88
150	MARGATE CITY STANDPIPE, 1962	VOL	2 P86
1 60	MARGATE CITY WATER TANK, 1962	VOL	2 P86
1 70	RITZ AERO BEACON, 1931	VOL	2 P101
180	ATLANTIC CITY, CLARIDGE HOTEL, (DOME), 1932	VOL	1 P31
190	ABSECON LIGHT, 1931	VOL	2 P105
200	ATLANTIC CITY MUNICIPAL WATER TANK, 1962	VOL	2 P115
210	HOTEL, 1962	VOL	2 P108
220	HOLGATE WATER TANK, 1962	YOL	2 P216
230	HOLGATE WATER TANK, 1962 BEACH HAVEN WATER TANK, 1975	AMC	OPER DIV
240	LONG BEACH WATERWORKS STANDPIPE, 1962		
260			2 P207
300	SURF CITY STANDPIPE, 1962 BARNEGAT LIGHTHOUSE, 1962		2 P160
		V J 🗕	L OD

APPROVAL SHEET

MI-10-2-75

OPR-517

The field work on this hydrographic survey was under my daily supervision.

The Boatsheet and records have been reviewed and approved by me.

Ronald M. Buffington

Commander, NOAA Commanding

ATLANTIC MARINE CENTER APPROVAL SHEET AUTOMATED SURVEY H- 9542

All revisions and additions made on the smooth sheet Α. 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.

Date: Feb 26, 1976

Signed: william of Jonns

Title: Chief, Verification Branch

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

Date: 26 1et 1916

Signed:

C, Dave Loth

Title:

Chief, Processing Division

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): Atlantic City

Period: June 26 - August 10, 1975

HYDROGRAPHIC SHEET: H-9542

OPR: 517

Locality: Off the New Jersey coast in the vicinity of Atlantic City

Plane of reference (mean lower low water):

4:53 ft.

Height of Mean High Water above Plane of Reference: 4.1 ft.

Remarks: Recommended zoning:

		Time <u>Correction</u>	Range Ratio
1.	West of 74°00'	- 5 min.	x0.98
2.	74 ⁰ 00'-73 ⁰ 50'	-10 min.	x0.93
3.	East of 73 ⁰ 50'	-15 min.	x0.88

P.O. CHECKED BY BJS

DATE Z-11-76

VERIFICATION BR. AMC

Chief, Tides Branch

NOAA FORM 76-155 (11-72) NA	TIONAL C	CEANIC .			NT OF CO		SUR	VEY NU	MBER	
GEOGRAPHIC NAMES					H-	9542				
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U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

HYDROGRAPHIC SURVEY STATISTICS HYDROGRAPHIC SURVEY NO. H-9542

(MI-40-2-75)

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

RECORD DESCRIPTION		AMOUNT B			RECORD DESCRIPTION			AMOUNT	
smooth sheet & 2-Overlays				BOAT SHEETS			3 1 (3 parts)		
DESCRIPTIVE R	EPORT]		OVE	RL	AYS		3
DESCRIPTION	DEPTH RECORDS	HORIZ.	CONT.	PRIN	TOUTS		TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/ SOURCE DOCUMENTS
Accordion	1								¥
CAHIERS	1 & P/O.			1	f cc				
VOLUMES	2					KON WATE			
BOXES]	L				

T-SHEET PRINTS (List)

No shoreline l-Mylar Composite Sheet

SPECIAL REPORTS (List)

None

OFFICE PROCESSING ACTIVITIES

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

		AMOL	JNTS	
PROCESSING ACTIVITY	PRE- VERIFICATION	VERIFICATION	REVIEW	TOTALS
POSITIONS ON SHEET				2266
POSITIONS CHECKED		200		
POSITIONS REVISED		7		
DEPTH SOUNDINGS REVISED		147		
DEPTH SOUNDINGS ERRONEOUSLY SPACED				
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED				
		TIME (MA	NHOURS)	
TOPOGRAPHIC DETAILS		0		
JUNCTIONS		8		
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS		10		
SPECIAL ADJUSTMENTS				
ALL OTHER WORK		128		
TOTALS	1 1.	146	12	
PRE-VERIFICATION BY		BEGINNING DATE	ENDING	DATE
W.H. Tyndall, R.G. Cram		10/15/75		2/22/75
VERIFICATION BY		BEGINNING DATE		
B.J. Stephenson REVIEW BY		02/04/76 BEGINNING DATE	0.	2/24/76
HIT- AMC		03/04/76	03	104/76

QC. Evel: BK. Myers, Who. C. U.S. G.P.V. 1972-469-562/439 REG. #6

HYDROGRAPHIC INSPECTION TEAM

ATLANTIC MARINE CENTER

HYDROGRAPHIC SURVEY REVIEW

REGISTRY NO.: H-9542 FIELD NO.: MI-40-2-75

GENERAL LOCALITY and SPECIFIC LOCATION

New Jersey, Offshore New Jersey East Coast, approximately 25 miles Southeast of Atlantic City

SURVEYED: June 26, 1975 through August 10, 1975

<u>PROJECT NO.</u>: OPR-517 <u>SCALE</u>: 1:40,000

SOUNDINGS BY: Ross Model 5000 Fineline CONTROL: Electronic

Recorder, Serial Number 1052 HI-FIX (Range-

Ross 6000 Depth Digitizer Range)

Freq. 1799.6 KHz

Chief of Party R.M. Buffington

Verified and Inked by B.J. Stephenson

l. Description of the Area

This survey covers an irregular staped area southeast of Atlantic City, New Jersey. Survey limits are described by connecting the following corner points in a clockwise direction:

Latitude:	38° 52.0'N	Longitude:	74°	09.5'W
	39° 22.0'N	-	74°	09.5'W
	39° 22.0'N		73°	44.0'W
	39° 52.0'N		73°	44.0'W

The predominantly sand and shell with traces of mud and pebbles bottom slopes moderately between eleven and twenty-eight fathoms.

2. <u>Control and Shoreline</u> Type-Source-Origin

The control is adequately described in Section F of the Descriptive Report.

This is an offshore survey, no shoreline is shown.

Hydrography

- A. Crossings: Depths at crossings are in good agreement.
- B. Depth Curves: The standard depth curve, 120 feet, was adequately delineated. The non-standard curve, ninety feet, and several 100 foot curves were added to the survey to better delineate the bottom configuration.
- C. Developments: The developments of the bottom configuration and the investigation of least depths are considered adequate.

4. 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.

Junctions

An adequate junction has been made with the following contemporary surveys:

```
H-9534 (1975) on the West
H-9552 (1975) on the North
H-9553 (1975) on the East
```

There are no contemporary surveys to the South.

6. Comparisons

A. Prior Surveys: H-6271 (1937) 1:40,000 H-6219 (1937) 1:120,000 H-6264 (1937) 1:40,000 H-6345 (1938) 1:80,000 FE No. 5 (1951) WD

Taken together, these surveys comprise the prior coverage of the area of the present survey.

A comparison between the prior Hydrographic Surveys and the present Hydrographic Survey reveals only minor differences. Slight curve displacement and bottom configuration changes are evident. Such changes are considered to result from natural causes, and the more modern instruments utilized today.

B. Wire Drag: FE No. 5 (1951) WD
The prior wire drag investigation only covered the two (2) wire drag items mentioned in the Pre-survey review, dated March 21, 1975, for the present survey; a 76 foot wire drag wreck on Chart 12318 (formerly C&GS 1217) in latitude 39° 00' 23"N, longitude 74° 05' 00"W and a seventeen

fathom wire drag sounding on Chart 12300 (formerly C&GS 1108) in latitude 39° 05' 00'N, longitude 73° 47' 00'W.

Neither item showed up on the fathograms when investigated. The Pre-survey review for soundings enclosed by triangles, only required further investigation if a trace of these items were found. The present survey did not prove or disprove either item, but since the prior wire drag investigation, FE No. 5, had previously recommended that the seventeen fathom sounding be deleted from the Chart, only the 76 foot wreck was carried forward from the wire drag investigation. Charting is adequate with Clearance of 17 thus.

C. Published Chart #12300 (formerly C&GS 1108), 23rd edition, dated June 7, 1975 and #12318 (formerly C&GS 1217), 28th edition, dated October 4, 1975, and #12214 (formerly C&GS 1219):

(a) Hydrography

The charted hydrography and the present survey reveals only minor differences, as previously discussed under prior surveys, and the Pre-survey review items discussed under prior wire drag surveys.

(b) Aids to Navigation

There are no aids to navigation in the area of the present survey.

7. Compliance with Instructions

This survey does comply with the Project Instructions.

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, if any, have been corrected on the Smooth Sheet.

Examined and Approved: Hydrographic Inspection Team Date: 3/4/76

CAPT Royald M. Buffington NOAA Chief, Operations Division C. Dale North, Jr., LCDR, NOAA Chief, Processing Division

CDR Jeffrey G. Carlen, NOAA Chief, Goastal Mapping Division Gregory R. Bass, LT, NOAA
Chief, Electronic Data Branch

William L. Johns

Chief, Verification Branch

Approved/Forwarded

Afred C. Holmes

RADM, NOAA

Director, Atlantic Marine Center

REGISTRY NO. H-9542

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 RE	QUIRED		INITIALS
REMARKS:				
•.				
			4	
	REGIST	RY NO		
The magnetic tape been corrected to and review. When the magnetic results of the su	reflect	the cha	nges made d	eflect the final
	MAGNET	C TAPE C	CORRECTED	
DATE	TIME RE	QUIRED_		INITIALS
REMARKS:				

H-9542

<u>Item for Future Presurvey Reviews</u>

The 76-foot wire-drag depth and submerged wreck at latitude $39^{\circ}00.36'$, longitude $74^{\circ}04.95'$ from FE No. 5 (1951) WD should be verified or disproved by future wire-drag investigations.

Position Lat.	Index Long.	Bottom Change Index	Use <u>Index</u>	Resurvey Cycle
385	0735	1	3	50 years
390	0735	1	3	50 years
391	0735	1	3	50 years
385	0740	1	3	50 years
390	0740	1	3	50 years
391	0740	1	.3	50 years
385	0741	1	3	50 years
390	0741	1	3	50 years
391	0741	1	3	50 years

UNITED STATES DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration

NATIONAL OCEAN SURVEY Rockville, Md. 20852

C352

June 7, 1976

TO:

Chief, Marine Surveys Division

THRU:

Chief, Quality Control Branch

FROM:

G. K. Myus G. K. Myérs

Quality Evaluator

SUBJECT: Quality Control Report H-9542 (1975), New Jersey, Off the

East Coast, Cape May to Atlantic City

A quality control inspection of H-9542 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 navigation hazards, decisions and actions by the verifier, and cartographic presentation of data.

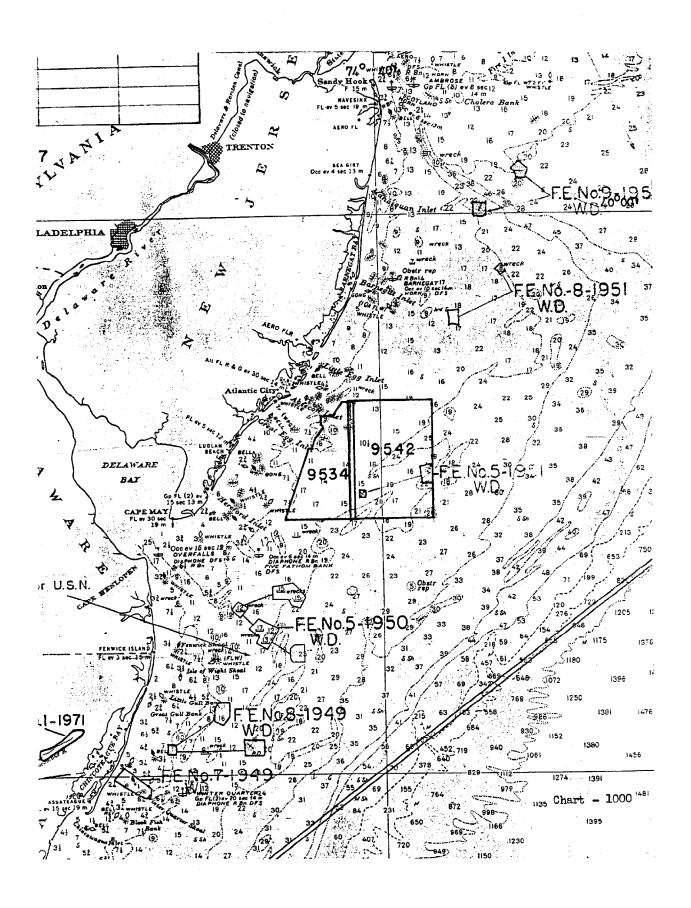
Specific mention is made of the following deficiencies:

- 1. A comparison with H-6343 (1938) WD and FE No. 5 (1951) WD was completed during quality evaluation. No conflicts between present depths and effective wire-drag depths were found. The charted 76-foot wiredrag clearance depth and submerged wreck at latitude 39°00.36', longitude 74°04.95' from FE No. 5 (1951) WD were carried forward to supplement the present survey.
- 2. Comparisons with prior surveys and charts were completed during quality control evaluation. The present survey is adequate to supersede the prior surveys and the charted information in the common area.
- 3. No indication was found of a determination of the depth recorder instrumental correction by vertical cast comparisons. The amount of this correction is not known. However, the good agreement between prior and present depths would indicate the correction not to be large.

cc: C351







NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. #-9542

INSTRUCTIONS

- 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.

3. Give reasons for deviations, if any	, from recommendations made under "(Comparison with Charts"	'in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
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