9552

Diag. Cht. No. 1000-3, 1216-2, 1217-2.

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-40-3-75.....

Office No......H-9552.....

LOCALITY

State .....NEW JERSEY.....

General Locality .OFFSHORE ATLANTIC COAST.....

Locality ....ATLANTIC CITY TO BEACH HAVEN.....

1975

CHIEF OF PARTY
R. M. Buffington

LIBRARY & ARCHIVES

DATE .....5/7/76.....

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

Sheet 2
1108
1216
1217

Sheet 1
1000

FORM C&GS-537
(8-15-59)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

REGISTER NO.

HYDROGRAPHIC TITLE SHEET

H-9552

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-40-3-75

State: New Jersey

General locality: Offshore Atlantic Coast, ~~New Jersey~~

Locality: Atlantic City to Beach Haven ~~Cape May to Atlantic City, New Jersey~~

Scale: 1:40,000 Date of survey: 12 July to 9 August, 1975

Instructions dated: 27 March, 1975 Project No.: OPR-517-MI-75

Vessel: NOAA Ship MT. MITCHELL, (MSS-22) Vesno 2220

Chief of party: Ronald M. Buffington, CDR, NOAA

Surveyed by: See REMARKS

Soundings taken by echo sounder, ~~hand lead, pole~~

Graphic record scaled by: Survey Personnel; CST R. Watkins, PS, RM, FL, DT, TR

Graphic record checked by: Survey Personnel

Protracted by: Calcomp 618 Automated plot by: AMC EDP Calcomp 618

~~Soundings penciled by~~ Verified by: H. L. Smith, R. G. Roberson ~~HRS and RGR~~

Soundings in ~~fathoms~~ feet at MLW ~~MLLW~~

REMARKS: LCDR W. Daniels, LTJG T. Russel, LTJG K. O'Donnell, LTJG E. Fields, ENS R. Marriner, ENS S. Iwamoto, ENS R. Mann

Corrections in red by RGR (AMC)

USCOMM-DC 19086-P65

DESCRIPTIVE REPORT

TO ACCOMPANY

HYDROGRAPHIC SURVEY MI 40-3-75

H-9552 1:40,000

OPR -517-MI-75

NOAA SHIP MT MITCHELL MSS-@@

RONALD M. BUFFINGTON. COMMANDER, NOAA

COMMANDING OFFICER

TABLE OF CONTENTS

ATTACHMENTS

A. PROJECT

This survey was a portion of OPR-517-MI-75 conducted in accordance with project instructions dated 27 March 1975 and change #1 dated 14 April 1975.

B. AREA

This survey was conducted offshore, between Cape May and Atlantic City, New Jersey, from the eleven fathom curve to about thirty miles offshore. The survey is approximately bounded by latitude 39° 20.0'N, longitude 74° 04.0'W, latitude 39° 33.0'N and longitude 73° 34.0'W. Work began on 12 July 1975 and concluded on 9 August 1975.

C. SOUNDING VESSEL

All soundings were obtained on board the Mt. Mitchell (MSS 22), vessel No. 2220. The receiving antenna is placed 32.0 meters forward of the skeg mounted transducer. This displacement was not corrected for on the field sheets.

D. SOUNDING EQUIPMENT AND CORRECTIONS TO ECHO SOUNDINGS

The following equipment was used to obtain all soundings:

Ross Fineline 5000 fathometer	s/n 1052
Ross Digitizer	s/n 1039-2
Ross Transceiver	s/n 1050

Changed s/n 1052 9 August @ 0845Z

Fathometer records were scanned by trained survey personnel in accordance with section 4.9.8 of the provisional draft of the Hydrographic Manual.

The fathometer initial was adjusted in accordance with the Ross operating manual. Adjustments were made during phase comparisons taken at the end of each line. Corrections for initial adjustments were applied during scanning.

Velocity corrections were determined from a nansen cast taken on 22 July 1975, at latitude 39° 19.9'N, longitude 73° 13.8'W. A curve fit graph was prepared using RK530 layer correctors for velocity. Corrections at 0.2' intervals were applied off line to soundings via velocity corrector tape. A vertical cast was taken on 30 July 1975 to determine instrument error. Cast data and calculations are contained with the field records.

Settlement and squat corrections were determined from data acquired on 22 July 1974. An abstract of settlement and squat correctors is included with the field records.

Draft readings for the period of the survey was 14.2 feet. A TC/TI tape was prepared but not applied to the field sheets. Corrections for settlement and squat, draft and instrument error are combined on the tape.

E. HYDROGRAPHIC SHEETS

The field records will be forwarded to the Atlantic Marine Center, Norfolk, Virginia for verification and final smooth plotting.

Two field sheets were necessary to cover the survey limits. These are accompanied by overlay sheets containing developments and splits. Least depths are indicated on the overlays. All soundings were logged and processed by the shipboard hydroplot system.

On Julian Date 203 the high speed punch malfunctioned and it was necessary to recut the master tape.

On Julian Date 207 between positions 886 - 887 the master data tape broke and this portion had to be recut.

F. CONTROL STATIONS

The electronic control stations were located as follows:

H-AMC-1-NJ-1975	L38°56'12.690"N, Ø74°53'44.342"W
ZIMM 1975	L39°45'44.159"N, Ø74°06'19.764"W

These stations were located by third order traverse by the Atlantic Marine Center.

G. HYDROGRAPHIC POSITION CONTROL

Range-range Decca Hi-Fix was used for control of all soundings. Equipment used is as follows:

Master MDU	078		
Master Transmitter	A250		
S_1 Receiver	234	Changed to: s/n 265	22 Jul 2215Z
		" " s/n A273	25 Jul 1030Z
		" " s/n 234	25 Jul 2100Z
		" " s/n 265	26 Jul 2010Z
S_1 Transmitter	066		
S_2 Receiver	251	" " s/n A278	31 Jul 1200Z
S_2 Transmitter	0754		
Ship Receiver	A274		
Ship S/T Recorder	D254		
Navigation Inter.	200587		

Three point sextant fixes, with check angle, were used to calibrate the Hi-Fix equipment. Using program RK561, only corrections from visual fixes with inverse distances less than five meters were used. Correctors were found to vary, approximately 0.5 lanes, with the relative bearing of the shore stations. Maximum positive correctors occurred when the station was at a relative bearing of 000° and maximum negative at 180° relative. Correctors from particular headings were meaned. Correctors were meaned for the off-line plot between any two calibrations during which hydrography was continuous.

Three buoys were used in the survey area to establish whole lane count. The Brigantine Shoal "2BS" buoy and two buoys placed by the Mt. Mitchell were given Hi-Fix position values. The locations of these buoys is as follows:

2BS	latitude 39°23.5'N	longitude 74°14.8'W
C1	latitude 39°22.9'N	longitude 74°01'W
C2	latitude 39°26.7'N	longitude 73°41.9'W

The Hi-Fix equipment was adversely affected by atmospherics. Reception degraded during thunderstorms causing numerous lane jumps and loss of signal. On Julian Date 204 positions 145 - 197 and Julian Date 207 positions 742 - 859 numerous lane jumps occurred which were not corrected properly on-line. As a result spacing of the lines was not as intended and splits were run to develop these areas.

On Julian Date 208 position 1150 to Julian Date 209 position 1340 wrong partial lane correctors for pattern 2 were used. This did not affect the line spacing significantly.

On Julian Date 218 after returning from in-port weekend Hi-Fix position values were reestablished incorrectly on C-2 buoy. The following positions were affected by one lane on P1 and P2:

1884 - 2059 2181 - 2207

On Julian Date 218 position 1895 - 1919, seven lanes on pattern I were not corrected for on line, as a result the split was not run in the intended location. Positions rejected by field

H. SHORELINE

There was no shoreline in the survey limits.

I. CROSSLINES

Crosslines were run at 13% of the regular sounding lines. Agreement was good generally within one foot.

J. JUNCTIONS

This survey does not junction with prior surveys. Junctions with contemporary surveys H9534 (MI-40-1-75) and H9542 (MI-40-2-75) were good generally within one foot. The northern junction will be with a contemporary survey to be conducted by the NOAA Ship Whiting. WHITING surveys are as follows: H-9547, H-9573

K. COMPARISON WITH PRIOR SURVEYS

There were no pre-survey items in the survey area. Comparison with prior surveys H-6346 (1:40,000), 1938 and H-6345 (1:80,000), 1938 was good, generally within 1 - 2 feet. Prior survey H-6271 (1:40,000), 1937, was consistently 1 - 2 feet shoaler than this survey.

L. COMPARISON WITH THE CHART

Comparison was made with the following charts:

Chart No.	Scale	Edition
1108	1:400,000	22nd ed 74
1216	1:80,000	15th ed 73
1217	1:80,000	27th ed 74

The 20 fathom curve on chart 1108 compared well with the survey. Soundings from chart 1217 were consistently shoaler 1 - 3 feet than the current survey. Chart 1216 compared well generally within 1 - 2 feet.

M. ADEQUACY OF SURVEY

This survey is complete and accurate to supercede previous surveys.

N. AIDS TO NAVIGATION

There were no floating aids in the survey area.

O. STATISTICS

Total number of positions	2180 positions
Total nautical miles of sounding lines	2051.5 miles
Total square nautical miles of hydro	316 square miles

P. MISCELLANEOUS

~~None.~~ REVISED VELOCITY CORRECTION - ~~NEXT PAGE~~

Q. RECOMMENDATIONS

None.

R. AUTOMATED DATA PROCESSING

Program Name	Number	Date
Range Range Real Time Hydroplot	RK111	8-7-74
Layer Correcting for Velocity	RK530	6-25-74
Elinore Line Editor	AM602	5-21-75
Range Range Nonreal Time Plot	RK211	8-16-74
Grid, Signal and Lattice Plot	RK201	4-18-75
Electronic Corrector Abstract	PM360	3-21-74
Predicted Tide Corrector	AM500	11-10-72

S. REFERENCE TO REPORTS

None.

Respectfully Submitted;

Stanley R. Iwamoto

Stanley R. Iwamoto
Ensign, NOAA

APPROVAL SHEET

The field work and processing of data from hydrographic survey H-9552 was under my daily supervision. This survey is complete and adequate to supercede prior surveys.

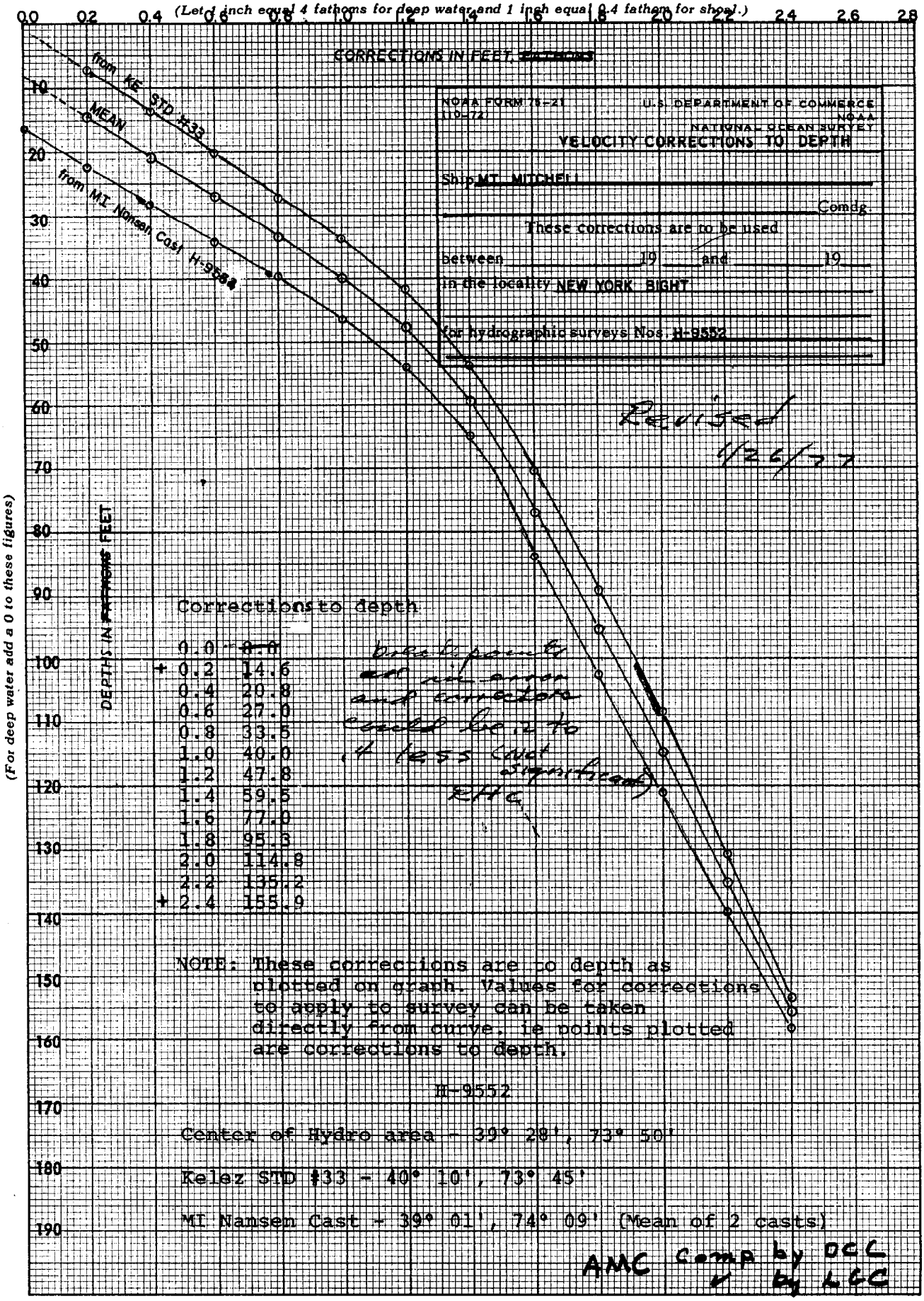
Ronald M. Buffington
Commander, NOAA
Commanding Officer, NOAA Ship Mt. Mitchell (MSS 22)

SIGNAL TAPE LISTING
H-9552

005	7	38	56	12690	074	53	44342	000	0000	179960
015	7	39	45	44159	074	06	19764	000	0000	179960
150	7	39	19	28587	074	30	53706	000	0000	000000
160	7	39	20	03068	074	30	11664	000	0000	000000
170	7	39	21	09739	074	26	38701	000	0000	000000
180	7	39	21	26671	074	25	55913	000	0000	000000
190	7	39	21	58343	074	24	52376	000	0000	000000
210	7	39	23	58012	074	22	18905	000	0000	000000
260	7	39	39	49041	074	09	55912	000	0000	000000
280	7	39	42	27724	074	08	05856	000	0000	000000
290	7	39	45	24355	074	06	31927	000	0000	000000
300	7	39	45	51179	074	06	23919	000	0000	000000

0 SIGNAL NAMES LIST

005	H-AMC-1-NJ-1975	AMC OPER DIV
015	ZIMM,1975	AMC OPER DIV
150	MARGATE CITY STANDPIPE,1962	VOL 2 P86
160	MARGATE CITY WATER TANK,1962	VOL 2 P86
170	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
260	SURF CITY STANDPIPE,1962	VOL 2 P207
280	HIGHPOINT STANDPIPE,1962	VOL 2 P152
290	BARNEGATE LIGHT NEW WATERTANK,1962	VOL 2 P198
300	BARNEGAT LIGHTHOUSE,1962	VOL 2 P160



10/16/75

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: July 22 - August 9, 1975

HYDROGRAPHIC SHEET: H-9552

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 correction	Range Ratio
ZONE II	West of 73°50'	- 10 min.	x0.98
ZONE I	East of 73°50'	- 15 min.	x0.93

James R Hubbard
for Chief, Tides Branch

NOAA FORM 76-155
(11-72)

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

SURVEY NUMBER

H-9552

GEOGRAPHIC NAMES

Name on Survey	A ON CHART NO.	B ON PREVIOUS SURVEY NO.	C ON U.S. QUADRANGLE MAPS	D FROM LOCAL INFORMATION	E ON LOCAL MAPS	F P.O. GUIDE OR MAP	G RAND MCNALLY ATLAS	H U.S. LIGHT LIST	K	
ATLANTIC CITY	(Not shown on sheet - purpose of orientation)									1
ATLANTIC OCEAN										2
BEACH HAVEN	"	"	"	"		"	"	"		3
										4
										5
										6
										7
										8
										9
										10
										11
										12
										13
										14
										15
										16
										17
										18
					Approved					19
					Chas E Harrington					20
					Staff Geographer - C&GS x2					21
					9 June 1976					22
										23
										24
										25

NOAA FORM 76-155 SUPERSEDES C&GS 197

U.S. G.P.O. 1972-769-565/516 REG.#6

Verifier: H.R. Smith

December 17, 1975

Verification Note to EDP (AMC)
Survey H-9552 MI-40-3-75 OPR-517

This branch has completed the verification of the sounding overlay for this survey. There are: 1 position to be changed, 21 soundings to be changed, and no excess changes.

Cards have been punched for all changes and accompany this note.

After all changes have been applied, please plot the smooth sheet.

William L. Jonns
Chief, Verification Branch
AMC

ATLANTIC MARINE CENTER
APPROVAL SHEET
FOR
AUTOMATED SURVEY H-9552

A. 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/[redacted] been made. A new final sounding printout has/[redacted] been made.

Date: March 22, 1976

Signed: [signature]

Title: Chief, Verification Branch

B. 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: 3/22/76

Signed: [signature]

Title: Chief, Processing Division

NOAA FORM 77-27
(9-72)
(PRESC. BY HYDROGRAPHIC MANUAL 20-2, 6-94, 7-13)

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

HYDROGRAPHIC SURVEY STATISTICS
HYDROGRAPHIC SURVEY NO. H-9552

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

RECORD DESCRIPTION	AMOUNT	RECORD DESCRIPTION	AMOUNT
SMOOTH SHEET & 2 - Overlays (mylar)	1	BOAT SHEETS	2
DESCRIPTIVE REPORT	1	OVERLAYS ~~Excess Positions~~	4 ~~3~~

DESCRIPTION	DEPTH RECORDS	HORIZ. CONT. RECORDS	PRINTOUTS	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/ SOURCE DOCUMENTS
ENVELOPES						
CAHIERS	1 & P/O					
VOLUMES	2					~~1~~
BOXES			1*			

T-SHEET PRINTS *(List)*
NONE

SPECIAL REPORTS *(List)*
~~Two Volumes (One box)~~
* contains Smooth Pos. & Sndg. P/O, sawtooth rec, sndg. vols & envelope of misc. data

OFFICE PROCESSING ACTIVITIES

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

PROCESSING ACTIVITY	AMOUNTS			
	PRE-VERIFICATION	VERIFICATION	REVIEW	TOTALS
POSITIONS ON SHEET				2180
POSITIONS CHECKED		300		
POSITIONS REVISED		32		
DEPTH SOUNDINGS REVISED		50		
DEPTH SOUNDINGS ERRONEOUSLY SPACED		0		
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED		0		
	TIME (MANHOURS)			
TOPOGRAPHIC DETAILS		0		
JUNCTIONS		13		
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS		14		
SPECIAL ADJUSTMENTS		0		
ALL OTHER WORK		83		
TOTALS		110	31	

	BEGINNING DATE	ENDING DATE
PRE-VERIFICATION BY: M.B.Hickson	09/08/75	09/10/75
VERIFICATION BY: M.B. Hickson, H.R. Smith, R.G. Roberson	09/14/75	02/12/76
REVIEW BY: AMC Hydrographic Inspection Team	03/25/76	03/25/76

QC Eval: G.K. Myers 18 hrs. 6/4/76
No QC inspection/Carsten
Replot submitted 4/1977 Baumgardner 4 hrs 7-2

* U.S. G.P.O. 1972-769-562/439 REG.#6

REGISTRY NO. H-9552

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 REQUIRED_____ INITIALS_____

REMARKS:

REGISTRY NO. _____

The magnetic tape containing the data for this survey has not been corrected to reflect the changes made during evaluation and review.

When the magnetic tape has been updated to reflect the final results of the survey, the following shall be completed:

MAGNETIC TAPE CORRECTED

DATE_____ TIME REQUIRED_____ INITIALS_____

REMARKS:

H-9552

Items for Future Presurvey Reviews

No significant changes have been found in a comparison between the present survey and the latest prior surveys of the 1930's.

Position Index		Bottom Change	Use	Resurvey
Lat.	Long.	Index	Index	Cycle
392	0734	1	3	50 years
393	0734	1	3	50 years
392	0735	1	3	50 years
393	0735	1	3	50 years
392	0740	1	3	50 years
393	0740	1	3	50 years
392	0741	1	3	50 years
393	0741	1	3	50 years

HYDROGRAPHIC INSPECTION TEAM

ATLANTIC MARINE CENTER

HYDROGRAPHIC SURVEY REVIEW

DATE: March 25, 1976

REGISTRY NO.: H-9552 FIELD NO.: MI-40-3-75

GENERAL LOCALITY and SPECIFIC LOCATION:

Atlantic Ocean, New Jersey Coast, Cape May to Atlantic City

SURVEYED: July 12, 1975 through August 9, 1975

PROJECT NO.: OPR-517 SCALE: 1:40,000

SOUNDINGS BY: Ross Fineline 5,000 s/n 1052 CONTROL: DECCA HI-FIX Range-Range mode

Chief of Party ..... CDR Buffington
Surveyed by ..... LCDR Daniels
..... LTJG Russell
..... LTJG O'Donnell
..... LTJG Fields
..... ENS Marriner
..... ENS Iwamoto
..... ENS Mann
Automated Plot by ..... Calcomp Plotter #618 (AMC)
Verified and Inked by ..... R. G. Roberson

1. Description of the Area

The area surveyed is bounded by the following points:

Latitude:	39° 20'	39° 25'	39° 35'	39° 35'	39° 20'
Longitude:	74° 10'	74° 05'	74° 03'	73° 34'	73° 34'

The bottom has a gradual slope to seaward. The depths in the survey varied from 63 feet to 158 feet. Bottom composition is predominantly sand and broken shell.

2. Control and Shoreline

No shoreline fell within the limits of this survey.

The survey was controlled with DECCA HI-FIX in the Range-Range mode at a frequency of 1799.600 kHz. The locations of the shore stations were established by personnel from the Operations Division of the Atlantic Marine Center. The positions of those stations are as follows:

H-AMC-1-NJ-75		Zimm, 1975	
Lat.:	38° 56' 12.690"	Lat.:	39° 45' 44.159"
Long.:	74° 53' 44.342"	Long.:	74° 06' 19.764"

Control was calibrated using three-point sextant fixes with a check angle, and three buoys were used to establish whole lane count.

3. Hydrography

A. Crossings: Crosslines comprised 13% of the total hydrography; depth crossings were in good agreement with the regular scheme of hydro lines with a maximum variance of two (2) feet.

B. Depth Curves: The standard curves were applied to the survey. Two brown curves, ninety (90) and one hundred-fifty (150) foot, were also drawn because they were found on Chart 12300 (formerly NOS 1108).

C. Developments: The developments run adequately delineated the bottom, and least depths were accentuated by darkening these soundings.

D. Bottom Samples: The bottom samples applied to the Smooth Sheet were taken by the NOAA Ship GEORGE B. KELEZ on October 29, 1974; January 7, 1975; and January 8, 1975.

4. Condition of the Survey

The sounding records, automated plotting and the Descriptive Report are adequate and conform to the requirements of the Hydrographic Manual, supplemented by the Atlantic Marine Center Manual.

5. Junctions

This sheet joins the following sheets: H-9534 (1975), H-9542 (1975), H-9547 (1975), H-9553 (1975), and H-9573 (1975).

The junction with H-9547 was made with difficulty in an area bounded by the following points:

Latitude:	39° 32'	39° 35'	39° 35'	39° 32'
Longitude:	73° 36'	73° 36'	73° 34'	73° 34'

Junction along the southern edge of the survey was good. Along the northern edge the serpentine curve was removed for the most part. Some junctional curves were left in pencil because the copy of the adjoining surveys was not available or the survey records were not at AMC.

6. Comparisons

A. Prior Surveys:
H-6271 (1937) 1:40,000 - A portion of this survey covers the western section of the survey. A small amount of change can be detected; general agreement is good.

H-6346 (1938) 1:40,000 - This survey joins along the north edge of H-9552 (1975) where there has been minimal change and general agreement is good.

H-6345 (1935) 1:80,000 - This survey covers the majority of H-9552 (1975) and is in extremely good agreement. Minimal changes can be seen, and only slight shifting of the bottom is noted.

The present survey is adequate to supersede these prior surveys within the common area.

B. Published Charts:
Chart #12300 (formerly C&GS 1108), 23rd Edition, dated October 4, 1975 and #12323 (formerly C&GS 1216), 16th Edition, dated August 30, 1975 - Depth agreement is good, within one foot overall. No mention is made of search for the wrecks and obstruction shown on these charts.

(a) The charted submerged wreck at latitude 39° 30', longitude 74° 00' was not found or developed. from 1959 Navy Wreck List

(b) The charted wire drag submerged obstruction was not developed or found at latitude 39° 23.5' and longitude 74° 06.4'. from FE No. 3, 1951 WD

(c) The sixty foot sounding at latitude 39° 21.88', longitude 74° 05.22' was not searched for or found. from 1963 ATT cable survey. (Bp 65566)

None of these items were listed as Presurvey Review Items in the Descriptive Report. It is recommended that the items mentioned on the preceding page be carried forward to this survey from their previous unmentioned source, except the 60ft. sounding.

This survey is adequate to supersede the charted hydrography within the common area.

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.

This survey was returned to AMC from Rockville with a velocity corrector problem. Subsequently, new velocity correctors were applied; the sheet was replotted, and verified. The resultant plot was generally one (1) foot shoaler.

The new velocity table was compiled by personnel of the Verification Branch using a mean of Std. Cast #33 taken by the NOAA Ship KELEZ and a Nansen Cast taken by the NOAA Ship MT MITCHELL during survey H-9534. Both casts were taken within or very near the survey area during the survey time.

Break points for selecting corrector not determined correctly and as much as +.4 fl could be added to many correctors

Approval Sheet For Survey H-9552

Examined and Approved:
Hydrographic Inspection Team
Date: 3/25/76

CAPT Ronald M. Buffington, NOAA
Chief, Operations Division

C. Dale North, Jr., LCDR, NOAA
Chief, Processing Division

CDR Jeffrey G. Carlen, NOAA
Chief, Coastal Mapping Division

Gregory R. Bass, LT, NOAA
Chief, Electronic Data Branch

William L. Jonns
Chief, Verification Branch

Approved/Forwarded

Alfred C. Holmes
RADM, NOAA
Director, Atlantic Marine Center

Approval Sheet for H-9552

Examined and Approved:
Hydrographic Inspection Team
Date: March 10, 1977

CDR Robert A. Trauschke, NOAA
Chief, Processing Division

CDR Jeffrey G. Carlen, NOAA
Chief, Coastal Mapping Division

C. Douglas Mason, LT, NOAA*
Chief, EDP Branch

William L. Jonns
Chief, Verification Branch

Guy F. Trefethen
Verification Branch

* Extended TDY

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

June 4, 1977

TO: A. J. Patrick
Chief, Marine Surveys Division

FROM: G. K. Myers
Chief, Quality Control Branch

SUBJECT: Quality Control Report, H-9552 (1975), New Jersey, Offshore Atlantic Coast, Atlantic City to Beach Haven

A quality control inspection of H-9552 (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 navigation hazards, decisions and actions by the verifier, and cartographic presentation of data.

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

1. A comparison with FE No. 3, 1951 WD was completed during quality evaluation. No conflicts between present depths and effective wire-drag depths were found. The charted 62-foot clearance depth and obstruction were brought forward, appropriately, to supplement the present survey. A discussion pertaining to this charted feature should have been mentioned under the heading "Comparison with Prior Surveys" in the Verifier's Report.

2. The survey title in the Verifier's Report is not the same as shown on the title page of the Descriptive Report.

3. The Verifier's Report did not discuss a comparison with a largest scale chart common to a portion of the area covered by the present survey. A comparison with chart 12318 (formerly 1217) print date October 4, 1975, was made during quality control. The correct disposition of significant features on chart 1217 that fall within the area of the present survey is given below:

a. The 60-, 66-, and 72-foot soundings charted at latitude 39°23.61', longitude 74°05.95'; latitude 39°22.7', longitude 74°05.57'; and latitude 39°20.9', longitude 74°04.8', respectively, that originate with a 1963

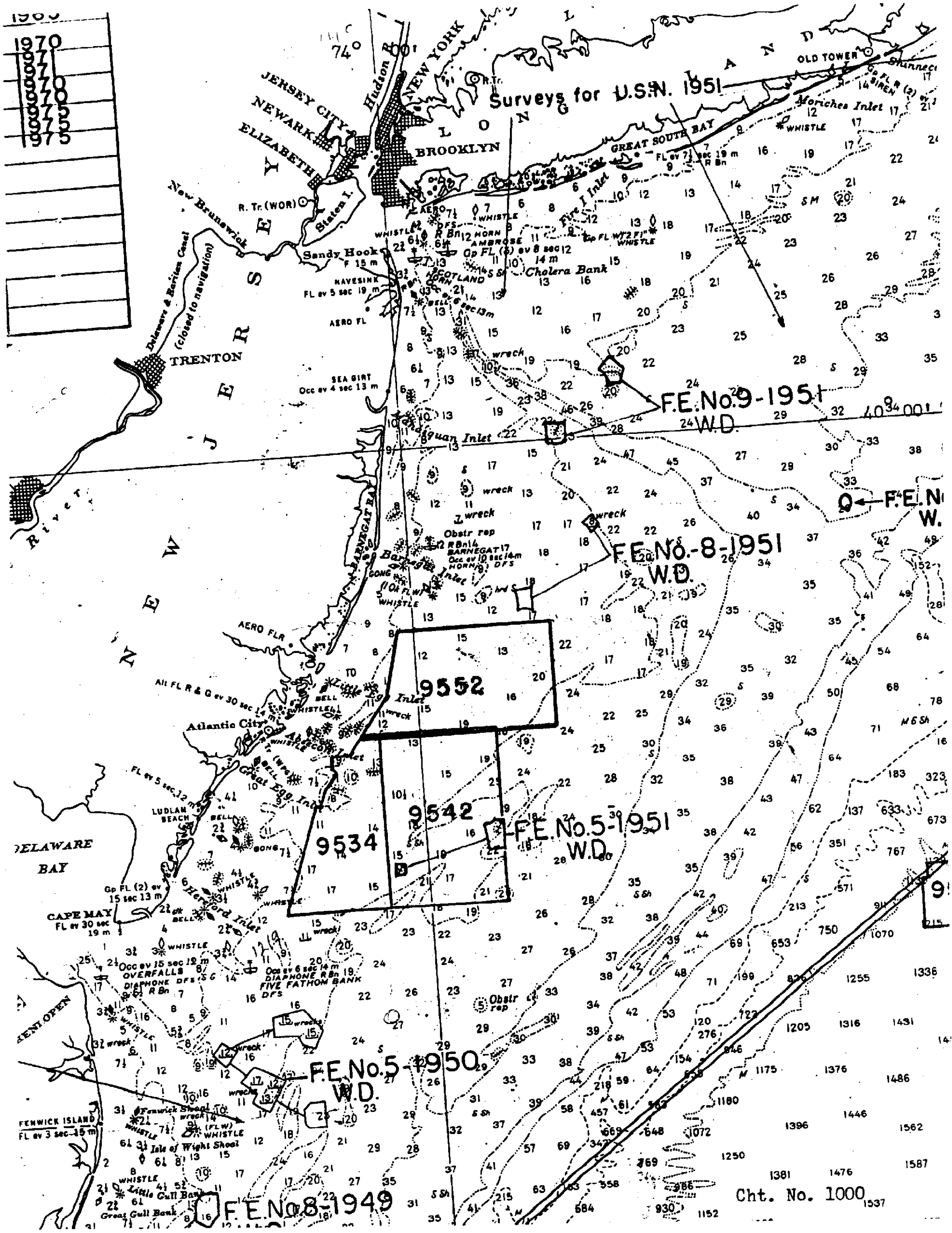
American Telephone and Telegraph cable survey (Bp-65566) are from a single line of soundings shown in whole fathoms. These depths uncorrected for velocity are several feet shoaler than present depths. They are considered unreliable probably due to less accurate survey methods employed and should be deleted from the chart.

b. The nondangerous submerged wreck charted at latitude 39°28', longitude 74°02' from the 1957 Navy Wreck List was not proved or disproved on the present survey and should be retained on the chart.

With the exception of item b noted above, the present survey is adequate to supersede the charted hydrography within the common area.

4. Adequate junctions were effected with H-9534 (1975) on the southwest, H-9542 (1975) on the south, H-9553 (1975) on the southeast, and H-9547 (1975) on the east during quality evaluation. Junction with H-9573 (1975) on the north will be discussed in the evaluation of that survey. Present survey depths are in general harmony with charted depths on the west.

cc:
C351


1970
1971
1971
1970
1970
1975
1975
1975
Surveys for U.S.N. 1951
NEW YORK
JERSEY CITY
NEWARK
ELIZABETH
BROOKLYN
Staten I.
Sandy Hook
TRENTON
NEW JERSEY
LONG ISLAND
GREAT SOUTH BAY
Fire I. Inlet
Moriches Inlet
Cholera Bank
F.E.No.9-1951
W.D.
F.E.No.-8-1951
W.D.
9552
9542
9534
F.E.No.5-1951
W.D.
F.E.No.5-1950
W.D.
F.E.No.8-1949
Atlantic City
Barnegat Inlet
Manasquan Inlet
Little Egg Inlet
Absecon Inlet
Great Egg Inlet
Hereford Inlet
DELAWARE BAY
CAPE MAY
FIVE FATHOM BANK
FENWICK ISLAND
Isle of Wight Shoal
Little Gull Bank
Great Gull Bank
Cht. No. 1000

FORM C&GS-8352
(3-25-63)

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. H-9552

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
1216	3/28/78	Dick Fuller	Full ~~Part Before~~ After Verification Review Inspection Signed Via
(12323)			Drawing No.
1217	3/28/78	Dick Fuller	Full ~~Part Before~~ After Verification Review Inspection Signed Via
(12318)			Drawing No.
1108	3/28/78	Dick Fuller	Full ~~Part Before~~ After Verification Review Inspection Signed Via
(12300)			Drawing No. #47 APPD Portion 1216, 1217
1000	5/10/79	RP Wakefield	Full ~~Part Before~~ After Verification Review Inspection Signed Via
(13003)			Drawing No. 56
12316"A"	9-17-81	Douglas Harpine	Full ~~Part Before~~ After Verification Review Inspection Signed Via
12316"B"	9-17-81	No Corr	Drawing No. 20
		Falls off of chart	Inspected and cleared from standard
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.

FORM C&GS-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-975.

USCOMM-DC 8558-P63