9534

Diag. Cht. Nos. 1000-3, 1217-2, & 1219-2

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 MT-40-1-75 Office No H-9534					
LOCALITY					
State NEW JERSEY General Locality OFFSHORE ATIANTIC COMMAN. Locality CAPE .MAY .TO .ATIANTIC CITY					
19 75					
CHIEF OF PARTY RONALD M. BUFFINGTON					
LIBRARY & ARCHIVES					
DATE 3/18/76					

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

1109 W

FORM C&GS-537 (8-18-59)	U.S. DEPARTMENT OF COMMERCE Coast and geodetic survey	REGISTER NO.
HYDROG	RAPHIC TITLE SHEET	н - 9534
	aphic Sheet should be accompanied by this form, ible, when the sheet is forwarded to the Office.	FIELD NO. MI-40-1-75
State	New Jersey	
General locality	Offshore Atlantic Coast	
Locality	Cape May to Atlantic City,	
Scale	1: 40,000 Date of surv	rey 11 June to 16 July, 1975
Instructions dated	27 March, 1975 Project No.	OPR-51₹-MI-75
Vessel	NOAA SHIP MT. MITCHELL, (MSS-22)	Veșno 2220
Chief of party	Ronald M. Buffington, Commander,	NOAA
Surveyed by	LCDR W.Daniels, LTJG T. RUSSEL, I LTJG K. O'Dônnell, ENS E. Fields	
Soundings taken by echo se	ounder, kaakkaakyasies	
Graphic record scaled by _	tr, ps, rm, rw	
Graphic record checked by	tr, ps, rm, rw Verified by	: B.J. Stephenson
Protracted by	NA CALCOMP -618 (AMC) Automa	ted plot by At TantieWerineGenter-
Soundings penciled by	NA Verified by: B.J.	Stephenson
Soundings in TaxKKKK	feet at MLW MERRYX	
ı		· · · · · · · · · · · · · · · · · · ·
REMARKS:		
		·
a	noticed to State 7/14/76	
	yeleed to State 7/14/76	

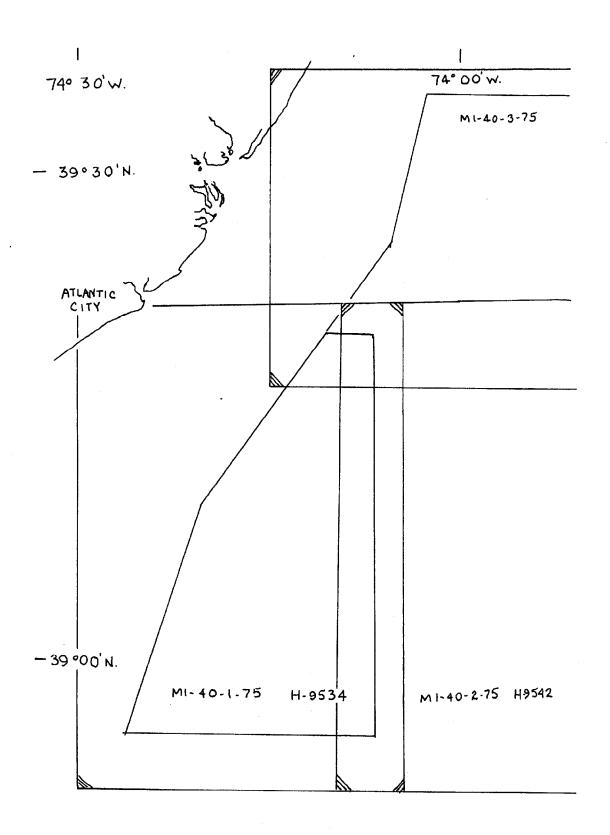
USCOMM-DC 19086-P65

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DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SURVEY H-9534, MI-40-1-75 1: 40,000 1975

NOAA SHIP MT. MITCHELL, (MSS-22)

Ronald M. Buffington, Commander, NOAA

Commanding Officer

A. PROJECT

This survey was carried out in accordance with Project Instructions OPR-517-MI-75, issued 27 March, 1975, as amended by change No. 1, dated 14 April, 1975.

B. AREA SURVEYED

This survey, at a 1: 40,000 scale, covered an area offshore of the New Jersey Coast from the approximate 11 fathom curve seaward. The survey area is described by the following points, connected counter-clockwise:

Lat.	38°	55.5'N	Long.	74°	26.0'W
	38°	55.5'N		74°	06.7'W
	39°	20.6'N	٠.	74°	06.7'W
	39°	20.6'N		74°	10.0'W
	39°	09.5'N		74°	20.0'W
	38°	55.5'N		74°	26.0'W

Survey operations were conducted between 11 June, 1975 and 16 July, 1975.

C. SOUNDING VESSEL

The NOAA Ship MT. MITCHELL (Vesno 2220) was used to obtain all soundings for this survey.

D. SOUNDING EQUIPMENT AND CORRECTIONS TO ECHO SOUNDINGS

The following sounding equipment was used to obtain depth information for this survey:

Ross Model 5000 Fine-Line Depth Sounder

Recorder

SN 1052

Digitizer

SN 1039-2

Transceiver

SN 1050

The digitizing feature of the Ross depth sounder was used during on-line sounding operations. However, the action of the seas on the ship made necessary the correction of a large number of soundings. These corrections were applied using the Hydroplot corrector tape and were determined during off-line scanning of the graphic records.

Variations in the instrument initial were adjusted on-line after hourly phase comparison checks. Any uncorrected shifts were corrected, by applying correctors dufing off-line scanning.

Settlement and squat corrections were applied using the TC/TI tape and are not included in the data plotted on the field sheets.

D. SOUNDING EQUIPMENT AND CORRECTIONS TO ECHO SOUNDINGS (Cont'd)

Draft changes of the sounding vessel were measured on entering and leaving port, and periodically through the survey period. These corrections were applied on the TC/TI tape and are not included in the data plotted on the field sheets.

Velocity of sound through water corrections were applied to all soundings using the Hydroplot system velocity corrector tape. These corrections were determined using Hydroplot program RK 530, with temperature and salinity data taken from Nansen casts in the operating area. The first Nansen cast was taken on 10 June and showed a substantial temperature and salinity change below a depth of 15 meters, indicating the presence of a layer of relatively fresh, warm water overlaying the colder, more saline bottom water. A second cast was taken on 11 June and showed the same layer change occurring below a depth of 10 meters. Data for both casts were processed separately to determine corrections. Comparison of the corrections showed negligible differences, so the correctors were meaned graphically and applied to all soundings. Nansen casts to determine velocity of sound through water corrections were taken at the following locations:

Cast # 1 10 June,1975 Lat. 39° 01.8'N Long. 74° 08.6'W
Cast # 2 11 June,1975 39° 00.8'N 74° 08.6'W

The following instruments were used to analyze the temperature and salinity data from the Nansen casts:

	•				
Protected	reversing Serial #	thermometers		Last	calibration
	12973	•	•	· 2	Jan. 1974
	12982	()			Jan. 1974
	13008	•			Jan.: 1974
	13261	4.5	•		Jan. 1974
	13263				Jan. 1974
	13276			_	Jan. 1974
	13300			_	Feb. 1974
	13310	•			Jan. 1974
	13315	·			Feb. 1974
	13321			·· -	Jan. 1974
	A58865	,			Jan. 1974
Sa	alinometer	: Beck Model	RS-7B		
	28289			10	Dec. 1973

E. HYDROGRAPHIC SHEETS

Field sheets on this survey were prepared using the Hydroplot system aboard the NOAA ship MT. MITCHELL. Field records will be forwarded to the Atlantic Marine Center for processing and verification.

Soundings on the field sheets are corrected for: velocity, draft, predicted tides, initial error and digitizer errors, but are not corrected for settlement and squat changes from the assumed draft of 14.0 ft.

F. CONTROL STATIONS

Control stations used for hydrography were:

<u>Signal</u>	Name	Latitude	Longitude
005	H-AMC-1-NJ-1975	38°56'12.690"N	74°53'44.342"W
015	ZIMM, 1975	38°45'44.159"N	74°06'19.764"W

Geodetic positions were provided by the Operations Division, Atlantic Marine Center, and Hi-Fix antennas were erected at the locations by ship's personnel.

G. HYDROGRAPHIC POSITION CONTROL

The Hi-Fix Navigation system was used in the Range-Range mode for position control for this survey. The following equipment was used:

Shipboard							
•	Hi-Fix	Master MDU		sn	078		
		Master transmitter	•	sn	A250		
		Ship receiver		sn	A358		
		<u>.</u> .	(changed t	o sn	A274 o	n 16	June)
		Sawtooth recorder		sn	D254		
		Navigation interfa	ace	sn	200587		
Station 1							
	Hi-Fix	transmitter		sn	A224		
		receiver		sn	065		
			(changed	tosn	A273 c	n 24	4 June)
Station 2	Hi~Fix	transmitter		sn	075		
		receiver		sn	251		

Calibration of Electronic control system:

Calibration of the Hi-Fix Range-Range system was accomplished using three point sextant fixes and comparing observed range values to the computed values. A simultaneous check fix was taken with each calibration and fixes with an inverse distance from the fix to the check fix of greater than 5 meters were rejected.

The calibration correction (difference between the observed Hi-Fix range values and the computed ones) was found to vary with the ship's heading, so calibrations were taken at headings of North, East, South and West. The resulting calibration corrections were meaned and the mean applied to all positions taken for the remainder of that two week operating trip. Calibration was checked at the end of each two weeks and the results compared to the original corrections. During on-line operations lane jumps were detected by operating personnel, using the saw-tooth recorder, and were corrected using the Hydroplot controller.

Calibration buoys were placed in the operating area and the Hi-Fix positions established by circling the buoy. Frequent returns were made to check the whole lane count and reset correct lane values to the calibration corrections established at the start of the trip. An abstract of calibration data is included in the supporting material accompanying this survey.

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G. HYDROGRAPHIC POSITION CONTROL (Cont'd)

During work in the project area, there were many hours lost because of Hi-Fix malfunctions. During specific work on this survey, the following down-times were caused by Hi-Fix failure:

12 June	0253-1054	8:01 hrs.
12 June	1441-1738	2:57 hrs.
16 June	2106 to	
17 June	0606	9:00 hrs.
	Total	10.58 bre

H. SHORELINE

There was no shoreline within the limits of this survey.

I. CROSSLINES

Crosslines for this survey were run in a North-South direction, perpendicular to the main scheme of sounding lines and were run in segments scheduled to begin approximately one hour before predicted low water and end approximately one hour after.

Crossing agreements are very good throughout the survey area with random one foot errors $\!\!\!/$

Crossline mileage was 7.4% of the regular sounding lines.

J. JUNCTIONS

There were no completed contemporary surveys junctioning with this survey. Work was started on survey MI-40-2-75, which will junction to the East, and MI-40-3-75, which will junction to the North.

K. COMPARISON WITH PRIOR SURVEYS

This survey junctions with the following prior surveys:

H-6264	1	:	40,000	1937
H-6271	1	:	40,000	1937
H-6345	L	:	80,000	1938

Comparison of randomly selected soundings was made for each of these prior surveys. Agreement was found to be very good, with only minor discrepancies throughout the area.

The following numbered pre-survey items were specifically investigated:

13 - (Obstruction reported at 39°12.0'N, 74°14.9'W) - a development (pos.1378/92) was run over the charted position and no evidence of an obstruction was found. Deletion of the item is recommended.

14 - (Fish Haven) - The inshore limit of hydrography for this survey was extended to cover the entire Fish Haven area. A peak of 64 ft. was found during development (pos. 1477-1442) at 39°14.4'N, 74°18.1'W. A 255 peak of 52 ft. was found in the Western corner of the Fish Haven (pos. 984-985) at 39°16.1'N, 74°16.3'W.

COMPARISON WITH THE CHART

Chart No. 12318 (C&GS 1217) (27th. edition Oct.12/74) is the largest scale chart covering the survey area. The chart was found to be an adequate representation of the area's depths.

M. ADEQUACY OF THE SURVEY

This survey is considered complete and adequate to supersede prior surveys for charting.

AIDS TO NAVIGATION

There are no aids to navigation within the limits of this survey.

O. STATISTICS

	Total number of positions	1526
11	Total nautical miles of sounding line	
	(excluding crosslines)	1307
1. 1	Total nautical miles of crosslines	96
	Total square nautical miles of hydrography	231
	Temperature and salinity stations	2 ucriona) 037 &/S
	Bottom samples (not required by project instr	decione) a c /
/	The bottom samples for this	Survey
D 3/70	OPT TAMPOUR	- R. Koloz Mar

Were obtained by the George B. K. and were morged into the Survey Positions 1527-1563 None.

RECOMMENDATIONS

None

R. AUTOMATED DATA PROCESSING

The following Hydroplot programs were used for processing

. а	TOT CHITO	Bur sel .	
		NAME	VERSION DATE
	RK 111	Range-Range Real Time System	8/7/74
	RK 201	Grid, Signal & Lattice Plot	2/19/75
	RK 211	Range-Range Non-real time plot	8/16/74
	AM 300	Utility Computations	5/24/73
	AM 500	Predicted Tide Correctors	11/10/72
		Velocity Corrections	6/25/74
	RK 530		7/1/74
	RK 561	Geodetic Calibration	3/10/72
	AM 602	Elinore	3/10/12

Respectfully Submitted,

Thomas G. Russel, LTJG, NOAA

PROJECTION PARAMETERS

POLYCONIC OR MODIFIED TRANSVERSE MERCATOR

	1.	Project No. OPR-517 4. Requested By W.H. TYNDALL
	2.	Reg. No. H-9534 5. Ship or Office VER. BRANCH (AMC)
	3.	Field No. MI 40-1-75 6. Date Required ASAP
	7	Polyconic X Modified Transverse Mercator
		-
		Central Meridian of Projection 74 ° 15 ' 00 "
		Survey Scale: 1: 40,000
	10.	Size of Sheet (check one):
		36 x 54 x 36 x 60 Other Specify
_	11.	Sheet Orientation (check one):
		NYX = 1
		N
		N
		CMER CMER
	12.	Plotter Origin: S.W. Corner of Sheet (not necessarily a grid
		Latitude 38 ° 51 ' 58 " intersection)
		Longitude 74 ° 30 ' 00 "
	13.	G.P.'s of triangulation and/or signals attached
		Material Desired: Tracing Paper Mylar X
		Smooth Sheet X Other Specify
	15	
	10.	Remarks:
		TIME CHECKED BY BJS

DATE /2-27-75
VENEZICATION BR., AND

Atlantic Marine Center

Electronic Control Parameters SHEET "A"
Project OPR-517-MI-75 Reg. No. H-9534 Field No. MI-40-1-75
Type of Control Hi-Fix (Sea-Fix, Hi-Fix, Raydist, etc.)
Frequency 1799.600 KHz (for conversion of lanes to meters)
Mode of Operation (check one)
Range-Range Range-Visual
Range One (R1) (SIGNAL NO.5) Station I.D. H-AMC-1-NJ-1975 Range Two (R2) (SIGNAL NO.15) Station I.D. ZIMM Lat. 38 ° 56 ' 12 . 6899"N. Long. 74 ° 53 ' 44 . 3419"W. Lat. 39 ° 45 ' 44 . 1589"N. Long. 74 ° 06 ' 19 . 7642"W.
Hyperbolic (3-station) Hyper-Visual
Slave One Lat. "N. Station I.D. Long. "W. Master Lat. "N. Station I.D. Long. "W. Slave Two Lat. "N. Station I.D. Long. "W.
Location of Survey:
Range-Range X Imagine an observer is standing at R1 station and looking directly at R2 (check one):
Survey area is to observer's Right $X A=\emptyset$
Survey area is to observer's Left A=1
Hyperbolic Looking from survey area toward Master station:
Slave One must be to observer's Left
Slave Two must be to observer's Right
This form is submitted as an aid in preparing a boat sheet.
This form applies to all data on this survey.
This form applies to part of the data on this survey.
More than one set of stations used to control hydrography on this boat sheet: Yes Yes Yes Yes Yes Yes Yes Ye
From: T: Jul. Day to T: Jul.Day
Remarks:

ATTACHMENT #1 cont'd.

FIELD SHEET PARAMETER TAPE PRINTOUTS

SHEET 1 OF THREE

SKEW 00.21.36

FEST = 100000 CLAT = 430000

CMER = 73/55/00

GRID = 2/0

PLSCL = 40000

PLAT = 38/52/00

PLON = 74/30/00

VESNO = 2220

YR = 75

ANDIST = \emptyset

SKEW 00,21,36

SHEET 2 OF THREE

FEST = 100000 CLAT = 4300000

CLAI = 430000

CMER = 73/55/00

GRID = 2/0

PLSCL = 40000

PLAT = 39/01/00

PLON = 74/30/00

VESNO = 2220

YR = 75

ANDIST = \emptyset

SKEW 00,21,36

SHEET 3 OF THREE

FEST = 100000

CLAT = 4300000

CMER = 73/55/00

GRID = 2/0

PLSCL = 40000

PLAT = 39/10/30

PLON = 74/30/00

VESNO = 2220

YR = 75

ANDIST = \emptyset

ATLANTIC MARINE CONTACT VERIFICATION OF SMOOTH TIDES

SURVEY H- 9534 (MI 40-1-75)

PLANE OF REFERENTIME MERIDIAN HEIGHT DATUM ON		MLW OR MLLW GMT 1. 4-53 2.	3	
TIDE STATIONS	POSITION	TYPE TIME CORR. GAGE H.W. L.W.	HEIGHT CORR. H.W. L.W.	
l Atlantic City N.J.	Ø 39 - 21: Y 74 - 25:	Std		
2.	Ø Y			
3•	Ø Y			
HOURLY HRIGHTS	FROM FROM	ROCKVILLE OFFICE FIELD MARIGRAMS	VERIFIED BY	. Rockville
TIDE ZONING	∠ BY CC	APPLICABLE OMPUTER TWO OR MORE GAGES		
LIMITS AND DESCR	RIPTION OF	ZONING METHODS		

TIDE CORRECTIONS COMPILED X BY COMPUTER MANUALLY

VERIFIED BY: GFT VERIFIED BY:

HEIGHT OF MHW ABOVE PLANE OF REFERENCE 4.1

TIDE CORRECTIONS VERIFIED ON SOUNDING PRINTOUT BY: GFT

DATE OF VERIFICATION 11-3-75

*OR RATIO

EXAMINED & APPROVED

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 10 - July 16, 1975

HYDROGRAPHIC SHEET: H-9534

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: Zone direct.

Janus & Hubbard

Anief, Tides Branch

ATTACHMENT # 2 - FIELD TIDE NOTE

Field tide reduction of soundings was based on predicted tides from Sandy Hook, N.J. corrected to the center of the survey area, with correctors for time and height supplied by Requirements and Facilities Section, Oceanographic Division. Correctors applied were: - 30 minutes on times of high and low waters and 0.89 ratio of heights of high and low waters. All times of predicted tides are in GMT. Correction of predicted tide data to the working area was accomplished using Hydroplot program AM500 on a PDP 8/E computer. A tide gage was installed by Coastal Mapping Tides Party at Wildwood, N.J. (Lat. 38° 58.5'N, Long. 74° 49.5'W). A letter from Operations Division, AMC, 4 June, 1975 reported the gage as operating. No other information as to quality of records is available at this time.

ATTACHMENT # 3 - GEOGRAPHIC NAMES LIST

The investigation of geographic names was not included in Project Instructions for this survey.

ATTACI	IMENT # 4	A Ge	BSTRAC	CT OF C	ORRE	CTION	IS TO	ECH	o so	UNDI	NGS.				,	
REGISTRY NO. H- 9534	Remarks	14.0 ft. Draft used on Corrector tapes. Changes	m that	on IC/II tape.	Instrument and initial	error included in	scanning corrections,		All corrections in feet.							
REC	TRA Corr. ft/fms	0.0	0.0	-0.4	-0.3	0.1	-0.3	0.1	-0.2	0.1	-0.2	0.1	-0.2	0.1	0.0	-0.2
e l	SES Corr.	+0.4	+0.4	0.0	+0.1	+0.4	0.0	0.4	0.1	₼.0	0.1	4.0	0.1	7.0	0.2	0.0
ABSTRACT	Initial Corr.														,	
OPR 517 TRA CORRECTION A SHEET MI-40-1-75	Instru- ment Error Corr.					•										
C TRA COF SHEET	Variation in Draft	* *				-0.3									-0.2	
	Velocity Table ft/fms	1000		•									•			
	GMT To Time	135730	163/ 003100	010030	232515	235815	164/ 002130	112500	121945	165/ 100030	100700	131130	133700	166/ 022100	025600	005470
2220	GMT From Time	004300	202600	003100	. 230613	232515	235815	002130	112500	121945	100030	100700	131130	133700	022100	025600
3-12 2-74 VESSEL	Jul. Day	162		163				182			165				166	
CAM3-12 2-22-74 VESSI	Vol.				10		and pop.	The state of the s								

-									
CAM3-12	2			Q	OPR %18 517	17			
2-22-7	-			TRA COR	RECTION	TRA CORRECTION ABSTRACT			
VES	VESSEL 2220			SHEET	MI-40-1-75	25	•	REG	REGISTRY NO. H- 9534
Jul.	1. GMT	GMT To Time	Velocity Table	Draft	Instru- ment Error Corr.	Initial Corr.	SES Corr.	TRA Corr. ft/fms	Remarks
			0001	-0.2				-0-1	
	100600	134315					0.0	-0.2	
	134315	165230					0.3	0.1	
	165230	195201					4.0	0.2	
	195201	200001				4.	0.1	-0.1	
	- 2000 601 01	167/ 010300					7.0	0,2	
167	57 010300	011200					0.0	-0.2	
	011200	084416			•		0.5	0.3	
	084416	115345					0.3	0.1	
	115345	185145					0.5	0.3	
	185145	191430					0.1	-0.1	
	191430	168631					0.5	0.3	
168	38 100631	121030					7.0	0.2	
	1210380	130216					0.5	0.3	
	130216	132531					0.1	-0.1	
	132531	169/ 074430					0.5	0.3	
16	169 074430	105830		-0.1			0.3	0.2	
					. :			. :	

9534 Remarks REGISTRY NO. H-TRA Corr. ft/fms 0.0 6.3 0.2 0.0 7.0 0 0 0.2 0.5 1.0 0.2 4.0 7.0 4,0 0.2 7.0 0.2 9. T SES Corr. 0 ₽. 1. 6 6 5. 9 0 N 6.0 5. 5.5 5. 0.1 0.3 7.0 0 N 0.0 6.9 TRA CORRECTION ABSTRACT Initial Corr. MI-40-1-75 Instrument Error Corr. OPR 517 SHEET Draft 9.7 'n Velocity Table ft/fms 0001 170/07493 To Time 142730 177/ 125646 197/ 115000 176/ 180200 191730 202530 214130 220630 071730 235959 183500 205130 212600 122529 221730 130731 GMT From Time 2220 . 180200 071015 105830 183500 202530 212600 220630 125646 115000 122529 142730 191730 205130 214130 221730 130731 074931 VESSEL Jul. Day CAM3-12 2-22-74 176 169 170 197 177 Vol. 12

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

HYDROPLOT VELOCITY CORRECTOR TAPE PRINTOUT

000165 0 0000 0001 000 222000 009534

000222 0 0002

000281 0 0004

000340 0 0006

000399 0 0008

000463 0 0010

000540 0 0012

000650 0 0014

000837 0 0016

001024 0 0018

001210 0 0020

001399 0 0022

001582 0 0024

999999 Ø ØØ26

H-9534	TC/T1
004300 0 0000 0001	
135730 0 -003 0001 202600 0 0000 0001	162 222000 001975 162 222000 001975
003100 0 -004 0001 010030 0 0001 0001	163 222000 001975
232515 0 0001 0001	163 222000 001975 163 222000 001975 163 222000 001975
002130 0 0001 0001 112500 0 =002 0001	164 222000 001975 164 222000 001975
121945 0 0001 0001 100030 0 -002 0001	164 222000 001975 165 222000 001975 165 222000 001975
131130 0 -002 0001	165 222000 001975 165 222000 001975 165 222000 001975
022100 0 0000 0001 025600 0 -002 0001	166 222000 001975 166 222000 001975
074500 0 -001 0001 100600 0 -002 0001	166 222000 001975
134315 0 0001 0001 165230 0 0002 0001 195201 0 -001 0001	166 222000 001975 166 222000 001975 166 222000 001975
200001 0 0002 0001 010300 0 -002 0001	166 222000 001975 167 222000 001975
011200 0 0003 0001 	-1 67 -222000 -0012 75
115345 0 0003 0001 185145 0 -001 0001 191430 0 0003 0001	167 222000 001975 167 222000 001975
100631 0 0002 0001 121030 0 0003 0001	168 222000 001975 168 222000 001975
130216 0 -001 0001 132531 0 0003 0001 	168 222000 001975
105830 0 -001 0001 115000 0 0002 0001	169 222000 001975 169 222000 001975
122529 0 0000 0001 142730 0 0003 0001 074931 0 0002 0001	169 222000 001975
074931 0 0002 0001 180200 0 0004 0001 183500 0 0002 0001	176 222000 001975
191730 0 0004 0001 202530 0 0002 0001	176 222000 001975 176 222000 001975
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ELECTRONIC CORRECTOR ABSTRACT

VESSEL : 2220 SHEET : H-9534

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154930	• .	-00015	• -00040
185900	•	-00015	-00040
210130	•	-00015	• -00040
0.0.00	•	•	•
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35000	•	•	•
000000	164	-00015	- 00040
011745	1	+00085	• -00040
030830	•	+00085	+00260
071400	•	+00085	+00360
083230	•	+00085	+00460
084545	•	+00085	+00360
121945	•	-00015	+00360
125714	•	+00085	+00360
132114	•	+00185	+00360
132459	•	+00285	+00360
132714	•	+00385	+00360
193729	•	• -00013	-00040
	•	•	•
000000	165	-00013	• -00040
090130	1	-00013	-00040
113630	•	-00013	• -00040
211015	•	-00013	-00040
234330	•	-00013	• -00040
	•	•	•
000000	166	-00013	• -00040
022401	•	-00013	-00140
060501	•	-00013	• -00240
063701	•	• -00013	-00340
063801	•	-00013	• -00440
065801	•	-00013	-00540
071401	•	-00013	-00440
165230	•	-00013	-00040
	•	•	•
000015	167	-00013	-00040
022045	•	-00113	• -00040
022945	•	-00013	-00040
034001	•	• -00113	• -00040
040946	•	-00013	-00040
042746	•	+00087	-00040
045730	1	+00187	• -00040
053500	•	+00287	• -00040
Ø53845	•	+00387	-00040
075145	•	+00287	• -00040
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ELECTRONIC CORRECTOR ABSTRACT

VESSEL : 2220

SHEET : H-9534

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065600 ' +00187 ' +00260	
072000 ' +00187 ' +00260	
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ELECTRONIC CORRECTOR ABSTRACT

VESSEL : 2220

SHEET : H-9534

TIME		DAY		PATTERN	1	F	ATTERN	5
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	•		•			•		
180200	•	176	•	-00079		•	-00221	
183500	•	• • •	•	-00079		•	-00221	
191730	•		•	-00079		•	-00221	
195900	•		•	-00079		•	-00221	
205130	•		•	-00079		•	-00221	
211100	•		•	-00079		•	-00221	
222900	•		•	-00079		•	-00221	
	•		•			•		
000300	•	177	•	-00079		•	-00221	
010900	•	•	•	-00079		•	-00221	
012930	•		•	-00079		•	-00221	
021900	•		•	-00079		•	-00221	
Ø24745	•		•	-00179		•	-00221	
031145	•		•	-00179		•	-00221	
Ø42415	•		•	-00179		•	-00221	
050215	•		•	-00179		•	-00221	
053500	•		•	-00179		•	-00221	
054800	•		•	-00279		•	-00221	
060930	•		•	-00279		•	-00221	
Ø64245	•		•	-00279		•	-00221	
081900	•		•	-00279		•	-00221	
090000	•		•	-00179		•	-00221	
100800	•		•	-00179		•	-00221	
103145	•		•	-00179		•	-00221	
122916	•		•	-00179		•	-00221	
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881900	-		•	-00035		•	-00038	
231315			•	-00035		•	-00032	
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002545	•	197	-	-00035		•	-00032	
003602	•			-00035		•	-00032	
004745	•		•	-00035		•	-00032	
Ø11225	•		•	-00035		•	-00032	
013931	•		•	-00035		-	-00032	
020606	•		-	-00035		-	-00032	
025550				-00035		•	-00032	
043210	•		•	-00035		•	-00032	
062945	•		•	-00035		•	-00032	

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HYDROPLOT SIGNAL TAPE PRINTOUT

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     WILDWOOD, STANDPIPE, 1928
050
                                                 VOL 1 P328
     NORTH WILDWOOD, NORTH STANDPIPE, 1962
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                                                 VOL 2 P97
     STONE HARBOR, COAST GUARD STATION CUPOLA, VOL 2 P95
     1932
080
     STONE HARBOR WATER TANK, 1962
                                                 VOL 2 P94
                                                 VOL 2 P65
Ø9 Ø
     AVALON STANDPIPE, 1932
     OCEAN CITY STANDPIPE, 1962
120
                                                 VOL 2 P89
     OCEAN CITY FLANDERS HOTEL CUPOLA, 1962
                                                 VOL 2 P90
     OCEAN CITY WATER TANK, 1962
                                                 VOL 2 P88
140
     MARGATE CITY STANDPIPE, 1962
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                                                 VGL 2 P86
     MARGATE CITY WATER TANK, 1962
160
                                                 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
     HOTEL, 1962
                                                 VOL 2 P108
210
220
     HOLGATE WATER TANK, 1962
                                                 VOL 2 P216
230
     BEACH HAVEN WATER TANK, 1975
                                                 AMC OPER DIV
     LONG BEACH WATERWORKS STANDPIPE, 1962
240
                                                 VOL 2 P210
260
     SURF CITY STANDPIPE, 1962
                                                 VØL 2 P207
300
     BARNEGAT LIGHTHOUSE, 1962
                                                 VOL 2 P160
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	•	1997	196	177	176	170	169	168	167	166	<u>121</u> 65	164	163	162	Jul. Day	Sal P FAUNCH	43-11 7-74	•
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ATTACHMENT # 8 - APPROVAL SHEET

The field work and data processing for Hydrographic Survey H-9534 were performed under my immediate daily supervision and are approved by me. This survey is considered adequate and complete for charting.

Ronald M. Buffington

Commander, NOAA

ATLANTIC MARINE CENTER APPROVAL SHEET FOR AUTOMATED SURVEY H- 9534

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/has not been made. A new final sounding printout has/has not been made.

	printout has/h as not been made.
	Date: 3/3/76
	Signed: Chief, Processing Division
	ricte. Chief, Processing Division
В.	The verified smooth sheet has been inspected by the Hydrographic Inspection Team, is complete, and meets the requirements of the Hydrographic and AMC Manuals. Exceptions are listed in the verifier's report. Date: 3/3/26 Signed: Manuals.
	Title: Chief, Operations Division
c.	Approved and forwarded.
	Date: 3/4/76
•	
	Signed: What to the hear
	Title: Director, Atlantic Marine Center

NOAA FORM 76-155 (11-72) NA	TIONAL	CEANIC	U.S. D	EPARTME IOSPHERIC	NT OF CO	OMMERCE TRATION	SU	RVEY N	JMBER	
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U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

HYDROGRAPHIC SURVEY STATISTICS HYDROGRAPHIC SURVEY NO. H-9534

	HYDROGRAPHIC SURVEY NO. H=9534 (MI-40-1-75)								
RECORDS ACC	OMPANYING SUR	/EY: To b	oe compl	eted whe	n survey				
RECOR	D DESCRIPTION		AMO	TNL		AMOUNT			
SMOOTH SHEET	& 2-Overlays		1		BOAT S	HEETS	(paper)	3	
DESCRIPTIVE RE	PORT		1		OVERL	AYS		6 🛊	
DESCRIPTION	DEPTH RECORDS	HORIZ. (PRINT	routs	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/ SOURCE DOCUMENTS	
ENVELOPES					:				
CAHIERS	1 with P/	þ							
VOLUMES		2							
BOXES				1	& Sawt	ooth Rec.			
T-SHEET PRINTS	(List)	NON	E						
SPECIAL REPOR	TS (Liet)								
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	The following st					TIVITIES artographer's repo	rt on the survey		
				AMOUNTS					
PROCESSING ACTIVITY				RE- ICATION	VERIFICATION	REVIÉW	TOTALS		
POSITIONS ON SHEET								1526	
POSITIONS CHECKED					150				
POSITIONS REVISED					10				
DEPTH SOUNDINGS REVISED			·		100				
DEPTH SOUNDINGS ERRONEOUSLY SPACED									
SIGNALS ERROR	EOUSLY PLOTTED	ORTRANS	FERRED						
						TIME (MA	(NHOURS)		
TOPOGRAPHIC DETAILS						2			
JUNCTIONS						2			
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS					11				
SPECIAL ADJUSTMENTS									
ALL OTHER WORK					90				
TOTALS					•				
	TOTALS			<u> </u>		105	32	<u></u>	
PRE-VERIFICAT	ION BY			<u> </u>		BEGINNING DATE	ENDIN	G DATE	
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JC Evaluation: MK. Myers 22 hrs.

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

H-9534

Information for Future Presurvey Reviews

There are no noteworthy items for a future Presurvey Review in the area of the present survey.

Position Lat.	Index Long.	Bottom Change Index	Use <u>Index</u>	Resurvey Cycle
385	0741	.1	3	50 years
385	0742	1	3 ·	50 years
385	0743	. 1	3	50 years
390	0741	1	3	50 years
390	0742	1	3	50 years
390	0743	1	3	50 years
391	0741	1	3	50 years
391	0742	1	3	50 years

HYDROGRAPHIC INSPECTION TEAM

ATLANTIC MARINE CENTER

HYDROGRAPHIC SURVEY REVIEW

REGISTRY NO.: H-9534 FIELD NO.: MI-40-1-75

GENERAL LOCALITY and SPECIFIC LOCATION

New Jersey, East Coast, Great Egg Harbor Inlet to Hereford Inlet

SURVEYED: June 11, 1975 through July 16, 1975

PROJECT NO.: OPR-517-MI-75 SCALE: 1:40,000

SOUNDINGS BY: Ross Digital CONTROL: HI-FIX (Range-Range)

Depth Recorder Freq. (1799.6 KHz)

1. Description of the Area

This survey covers an area offshore of the New Jersey Coast from the approximately eleven fathoms seaward. The surveyed area is described by the following coordinates connected counter clockwise:

Latitude:	38° 55.5'N	Longitude:	74°	26.0'W
	38° 55.5'N	. —	74°	06.7'W
	39° 20.6'N		74°	06.7'W
	39° 20.6'N		74°	10.0'W
	39° 09.5'N		74°	20.0'W
	38° 55.5'N		74°	26.0 W

The bottom is predominantly fine sand and shell and the depth ranges from 52 to 140 feet.

2. Control and Shoreline Type-Source-Origin

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

This is an offshore survey and no shoreline is shown.

3. Hydrography

- A. Crossings: Depths at crossings are in good agreement.
- B. Depth Curves: The standard depth curves were adequately delineated. Dashed and brown curves were added to emphasize the ninety foot curve and certain important bottom features.
- C. Developments: The developments of the bottom configuration and Pre-survey Review Items were considered adequate, with the exception of Pre-survey Review Item #13 (see "Comparison with the Chart.")

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.

5. Junctions

An adequate junction was made with H=9542 (1975) on the east, and H=9552 (1975) on the north. (Standard curves only.) There were no contemporary surveys to the south or west.

6. Comparisons

A. Prior Surveys: H-6264 (1937) 1:40,000 H-6271 (1937) 1:40,000 H-6345 (1938) 1:40,000

The prior surveys taken together cover the area of the present survey. A comparison reveals only minor differences. Slight curve displacement and bottom configuration changes are evident. Such changes are considered to result from natural causes.

- B. Wire Drag: FE-No. 3 (1951)W.D. 1:40,000 This Wire Drag investigation covers the Wire Drag sounding (69 feet) mentioned in the chart comparison section.
- C. Published Chart #12318 (formerly C&GS 1217) 27th edition, dated October 12, 1974, and #12214 (formerly C&GS 1219) 27th edition, dated May 25, 1975.

(a) Hydrography

The charted hydrography and the present survey reveal only minor differences, as previously mentioned under prior surveys.

(b) Attention is directed to the following:

CL 225(1951)

- (1) Pre-survey Review Item #13, the obstruction reported at Latitude 39° 12.0'N, Longitude 74° 14.9'W was not adequately developed over the charted obstruction position. The verifier recommends that the item be retained on the charts and that it be disproved by Wire Drag.
- (2) Pre-survey Review Item #14, the inshore limit of hydrography for this survey was extended to cover the entire Fish Haven area, located at Latitude 39° 15.0'N, Longitude 74° 14.0'W. A shoal depth of 64 feet at Latitude 39° 14.4'N, Longitude 74° 12.95'W, position 1444-1445, and least depth of 52 feet at Latitude 39° 16.1'N, Longitude 74° 16.4'W, position 984-985 were found during this survey.
- (3) The 69 foot Wire Drag wreck on chart #12318 (formerly C&GS 1217) at Latitude 39° 14' 45"N, Longitude 74° 09' 06"W did not show up on the fathograms, so no further investigation was attempted. (See section, soundings enclosed by triangles, Pre-survey Review, OPR-517, dated March 21, 1975.) Except as noted above, the present survey is adequate to supersede the charted hydrography in the common area.

(c) Aids to Navigation

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

7. Compliance with Instructions

This survey does comply with the Project Instructions with the following exceptions:

The line spacing between positions 393-402 and 403-413 are from 50 to 200 meters over the required 400 meter spacing for this sheet. This space was between Boatsheets. The problem was in the electronic correctors.

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 the verifier's report and Verification deficiencies found, if any, have been corrected on the Smooth Sheet.



UNITED STATES DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration NATIONAL OCEAN SURVEY Rockville, Md. 20852

C352

May 7, 1976

T0:

A. J. Patrick

Chief, Marine Surveys Division

THRU:

Chief, Quality Control Branch

FROM:

G. K. Myers

Quality Evaluator

SUBJECT:

Quality Control Report, H-9534 (1975), New Jersey, Offshore

Atlantic Coast, Cape May to Atlantic City

A quality control inspection of H-9534 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.

The following deficiencies are noted:

- 1. A fathogram in the records of the present survey revealed indications of the submerged wreck charted at latitude 39°14.74', longitude 74°09.1' from a prior wire-drag survey, FE 3, 1951 WD. Further investigation of this wreck should have been done by the hydrographer. The verifier reported that the feature "did not show up on the fathograms, so no further investigation was attempted." The 69-foot sounding and wreck were carried forward in green during quality control inspection.
- 2. The Descriptive Report noted an instrument correction. However, survey records do not indicate a simultaneous comparison between vertical cast and echo sounder depths. More survey data pertaining to this correction would have been desirable.
- An adequate junction was effected with H-9542 (1975) on the east. However, depth curves within the overlapping area were not drawn by the verifier to coincide.
- 4. A comparison with prior surveys--FE No. 2 (1951) WD, FE No. 3 (1951) WD, H-6343 (1938) WD--was completed during quality evaluation. No conflicts between present depths and effective wire-drag depths were found, except in the vicinity of latitude 38°55.6', longitude 74°24.75', where a few soundings were as much as 3 feet shoaler than cleared depths swept at 81 feet on FE No. 2 (1951) WD. These differences are reflected in a

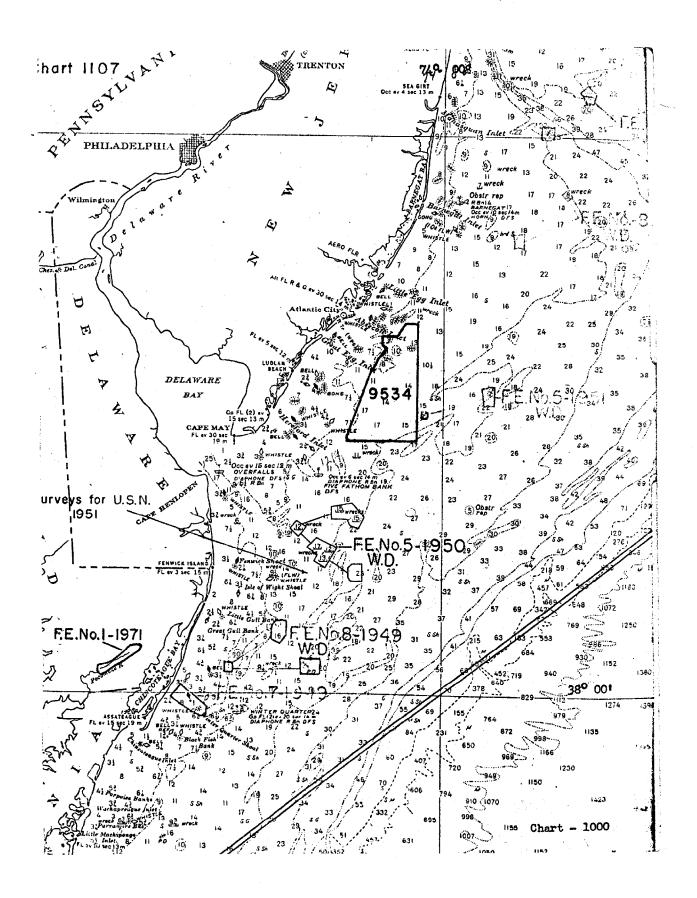




comment made in the Descriptive Report of the prior survey that "the drag was bumping on a shoal."

5. The survey title in the verifier's report is not the same as indicated on the title page of the Descriptive Report.

cc: C351



NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. _

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.

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