10138

Diagram No. LS-2

NOAA FORM 76-35A

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

DESCRIPTIVE REPORT

Registery No. ... H-10138

LOCALITY

General Locality Lake Ontario

Sublocality North Hamlin to Rochester...

1984

CHIEF OF PARTY LCDR R.W.Jones

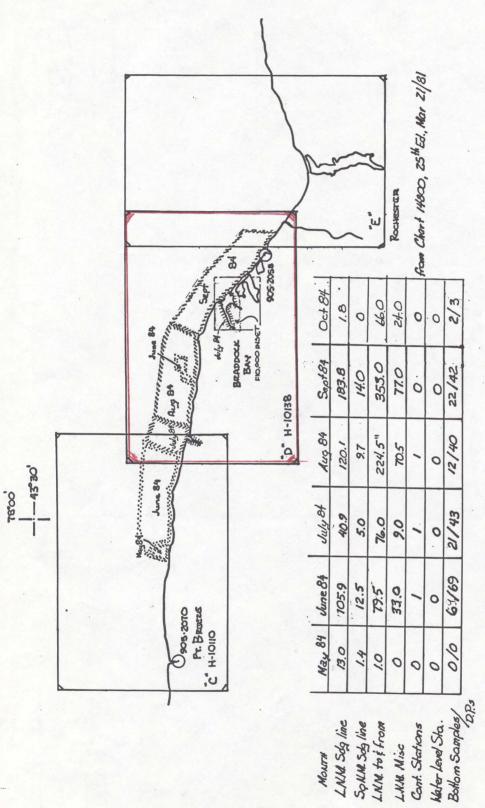
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"RECORD OF EXAMINATION"

DAA FORM 77-28 U.S. DEPARTMENT OF COMMER 1-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATI	CE REGISTER NO.
HYDROGRAPHIC TITLE SHEET	H-10138
INSTRUCTIONS - The Hydrographic Sheet should be accompanied by this form	
filled in as completely as possible, when the sheet is forwarded to the Office.	HFP-20-1-84
New York	
Lake Ontario	
North Hamlin to Rochester	
Scale	urvev 19 June - 10 October 1984
Instructions dated 11 April 1984 Ch. 1 - 5/21/84 Project N	
Vessel <u>Hydrographic Field Parties Section</u> - Hydro F	
Chief of party Ronald W. Jones, LCDR, NOAA	
Surveyed by Franklin Ohlinger & E. Martin	
Soundings taken by echo sounder, hand lead, pole_all	
	C Waisney I Discorner
Graphic record scaled by <u>F. Ohlinger, E. Martin, R. Adam</u>	S, S. Weisher, L. Discurrer
Graphic record checked by <u>F. Ohlinger & E. Martin</u> Gerification by J. N. Shofner Autor	DMO Vimatica
Restricted by C.R. Davies	nated plot byPMC Xynetics
MENTICENTARY C.R. DAVIES	
Soundings in Anchons feet at MANNE LWD-I	GLD 1955 (Lake Ontario)
REMARKS: All times in UTC. Marginal notes in bl	ack by evaluator. Separates
filed with the hydrographic data.	
STANDANDS CK'D 10-24-86	,
Cloy	
SP 4-16-97 AWOLD	



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11,30,

LCDR POUND W. JONES, COMOS

Descriptive Report to Accompany Hydrographic Survey H-10138

HFP-20-1-84

Scale: 1:20,000 Chief of Party: Ronald W. Jones, LCDR, NOAA Officer in Charge: Franklin E. Ohlinger, LTJG, NOAA Hydrographic Field Party 4

A. PROJECT: ✓

This survey was accomplished under Project Instructions OPR-V255-HFP-84, Dated 11 April 1984, and amended by Change No. 1 dated 21 May 1984.

B. AREA SURVEYED V

The area surveyed was the South shore of Lake Ontario from North Hamlin to Rochester, NY. out to the 20-fathom curve. The area is bounded by:

See EVAL Right

Sation 1

Lat.43°15.5'N, Lon.77°36.0'W

Lat.43°23.0'N, Lon.77°36.0'W

Lat.43°23.0'N, Lon.77°54.0'W

Lat.43°20.5'N, Lon.77°55.0'W

A 1:10000 scale inset of Braddock Bay is included in this survey. This area is bounded by.

Lat.43°18.0'N, Lon.77°45.5'W

Lat.43°20.0'N, Lon.77°42.0'W

Lat.43°18.0'N, Lon.77°42.0'W

Lat.43°20.0'N, Lon.77°45.5'W

The survey was conducted from 19 June 1984, J.D. 171 to 10 October 1984, JD. 284, inclusive.

c. sounding vessel

All soundings obtained on this survey were obtained from NOAA Launch 0520 (EDP# 0520). All survey records are annotated with the vessel number.

D. SOUNDING EQUIPMENT AND CORRECTIONS TO ECHO SOUNDINGS

The following Raytheon equipment was used during the survey:

JD. 171-174 DE 719B S/N 9221

JD. 184-207 DE 719C S/N 7881

JD. 214- DE 719C S/N 10271

Fathometer DE 719B S/N 9221 developed an intermittent chart drive failure while running on H-10110 and was replaced. This problem did not affect this survey. Fathometer DE 719C S/N 7881 was used until a variation in the chart drive speed appeared on JD. 207, while surveying Braddock Bay. On chart speed 3, the sounding interval on this unit would drift from 20 to 23 seconds in the course of the day. Even though this drift did not affect the quality, the unit was replaced.

Throughout the survey, all Fathometers showed interference from the launch's VHF radio. The traces tended to jump as the microphone was keyed. All such glitches were accounted for when scanning the graphic records. Otherwise, the initial and calibration lines were monitored while running to ensure no initial corrections were necessary.

Settlement and squat tests on Launch 0520 were run on 24 May 84 off Bald Eagle Marina. The results are included in File with the the Appendix to this report. Settlement and squat corrections hydrographic debt will be applied via the TC/TI tape.

Velocity and instrument correctors were determined by barchecks and TDC casts. The TDC was a Martek Model 101-10 instrument S/N 477, which was calibrated for fresh water by AMC personnel on 1 March 1984. Casts were taken almost weekly.

Barchecks were taken twice daily whenever possible. The chains were compared to a steel tape throughout the survey to ensure their accuracy. No discrepancy was observed.

The velocity and barcheck data were grouped according to the thermal activity of the lake as described in the report. "The Effect of Lake Ontario Water Temperatures on Hydrography". A graph of water temperatures was obtained from the Brockport water works and is included with the bar check and TDC data. These temperatures show the periods of thermal fluctuations around which the velocity data were grouped. Tuenty scale velocity to take were grouped.

While surveying in the shallow water of Braddock Bay, a discrepancy approaching one foot appeared between simultaneous pole soundings and the adjusted Fathometer trace. This difference is due to a deep layer of soft mud in the bay and was minimized by switching between the two sounding methods as little as possible.

E. SURVEY SHEETS

The field sheets were prepared in the field using a PDP-8/e computer and a DP-3 Complot plotter. Work sheets, semi smooth sheets, smooth field sheets and overlays are included with this survey.

Mainscheme hydrography and crosslines are plotted on the smooth field sheet, while developments, bottom samples, prior survey soundings, junction surveys, presurvey review items, and aids to navigation are shown on the overlay sheets. The independent parameter tape listing for the field sheets is included in the Appendix of this report. The final smooth sheet and verification of this survey will be accomplished at the Atlantic Marine Center.

F. CONTROL STATIONS

Control stations used during this survey were established this year to third order standards or better. Stations Temp. Bay, Yeager ECC and Rochester Harbor Light were established by HFP-4 all other new stations were set by AMC's Geodetic Control Group. All stations are referred to the North American 1927 Datum. A list of all control stations is included in the Appendix of this report.

The chart datum is North American Datum of 1902.

G. HYDROGRAPHIC POSITION CONTROL

The method used to control most of this survey was range-azimuth using a Nikon NT-2D (S/N 031005) and the Del Norte transponder RO-3C system. The Distance Measuring Unit (S/N 192) and Master transponder (S/N 1066) were used aboard Launch 0520 and Remote code 74 (S/N 927) was placed ashore for position control. Mainscheme arcs were run from a Remote code 76 (S/N 244) positioned 1.5 mile SW of the Braddock Pt. Light (Station 400) and later 2.5 mile NW of the Rochester Harbor Light (station 631).

On JD 268, bottom samples were taken in the fog on the west side of the sheet using code 76 in a range/range mode with code 74. Although code 76 had not been calibrated since JD 145, a careful systems check and a closing calibration indicated it was reliable.

The Del Norte equipment used for positioning was calibrated periodically over a distance of 2363 meters as determined by the HP3810B EDMI. Daily systems checks were performed before and after hydrography, when possible, by bringing the boat alongside a known point. When necessary, an antenna offset was measured and supplied to the readings.

The average of the system checks on JD 171 and JD 174 were -5 and -3 respectively. These figures were verified by a calibration on JD 179 and were applied to the data via the corrector tape. All other correctors are zero.

Some "See Boat Sheet" positions were taken in Sandy Creek on the 1:20,000 sheet and near the head of Salmon Creek on the inset. Pesudo fix data were generated in order to machine plot this data.

C. Plath sextant (S/N 56316 was used to verify landmarks and determine heights of objects.

The HP-3810B (S/N 1929 A0041) was calibrated by Hewlett Packard in February 1984 during repairs and was verified by the AMC Geodetic Control Group in the field.

H. SHORELINE

Shoreline was obtained for both sheets from class 5cc Eval Report III photomanuscripts dated June 1980.

Detail for the 1:20,000 sheet along Braddock Bay and again near the Genesee River was obtained from reductions of TP-0900 and TP-1065, which were both at a scale of 1:10,000. Some alignment problems occurred at these junctions but were smoothed by shifting the reduced sheets as necessary.

A discrepancy appears on TP-504 near Lat. 43°21.0′N, Lon. 77°53.6′W. The bridge across Sandy Creek and station Sandy Bridge (station 617) differ by 10 meters. The true width of the bridge is 23 meters and the station is located about 1 meter south of the center of the north edge. The bridge appears to be misplaced as the position of the station was remeasured and verified. No hydrography was controlled from this station, but "See Boat Sheet" pos. 1096 was pseudo plotted by it's proximity to the station. This position will need to be adjusted if the station itself is adjusted. Statica 617 was not used to control position itself.

Shoreline verification was accomplished in conjunction with the survey and all notes are included in the survey data. Most piers shown on the T-sheets are temporary and are deleted from the shoreline. All other changes are noted on the overlay and are transferred to the smooth field sheet, and smooth sheet.

I. CROSSLINES

Crosslines constitute 13% of the mainscheme hydrography of the 1:20,000 sheet and 20% on the 1:10,000 sheet. All soundings agree to 1 foot and meet the criteria set forth in Section 1.1.2 of the Hydrographic Manual.

J. JUNCTIONS

This survey junctions with the following contemporary surveys:

H-10110	1:20,000	19843-84	To the West
LS-2081	1:80,000	1960	To the North
LS-1840	1:10,000	1945	To the East

Survey H-10110 is continuous with this survey and was performed in the same year with the same equipment. The $_{\rm CONCUT}$ junction is satisfactory.

LS-2081 soundings agree to within two feet for all but 6 of 62 common soundings. These six spurious soundings are:

LS-2081	H-10138	POSITION
161 feet	147 feet	Lat. 43°22.3'N Lon.77°47.4'W
134 feet	126 feet	Lat. 43°22.1'N Lon.77°47.4'W
95 feet	85 feet	Lat. 43°21.8'N Lon.77°46.5'W
110 feet	95 feet	Lat. 43°21.8'N Lon.77°46.1'W
120 feet	107 feet	Lat. 43°21.8'N Lon.77°45.7'W
144 feet	133 feet	Lat. 43°22.0'N Lon.77°45.6'W

The LS-2081 soundings are "in-between" soundings taken while the ship was apparently off course during sharp turns. The displacement of these soundings is less than 1.5mm at the scale of the earlier survey. It is recommended that the concur present soundings be charted.

There are only 6 soundings from LS-1840 common with this survey. All agree to one foot.

K. COMPARISON WITH PRIOR SURVEYS /

The survey area was previously covered by the following prior surveys:

LS-605	1:60,000	1875	See FUAL REPORT Section 6
LS-614A	1:10,000	1875	
LS-615	1:10,000	1875	
LS-616	1:10,000	1875	
LS-617	1:10,000	1875	
LS-1606	1:80,000	1932	

LS-605 junctions by one sounding at the northwest corner of the sheet. LS 1606 has three soundings near Braddock Point Light. All agree to % fathom.

The remaining prior surveys have no geodetic grid and were compared by aligning recognizable shoreline and near shore features. Overall agreement was excellent with all soundings agreeing to 2 feet. This is the approximate difference between the survey datums. On LS-616 the area within the 12 foot contour at Lat. 43°21.1'N, Lon 77°48.2'W appears smaller than found. This area was investigated by divers and confirmed to be a wreck site.0 The rocks located in 1875 near the same area were also found on H-10138. The uncharted shoal found near Lat43°18'.5'N, Lon 77°40'.1'W, was barely skirted by sounding lines in 1875 on LS-616 and LS-615.2 A danger to navigation report was issued on this feature. (see Appendix)

(2) 14.3 feet sounding at Latitude 43:15'29.85'N, Longitude 77640'08:25"W (Pez 2486)

L. COMPARISON WITH THE CHART

This survey was compared to charts 14804, 21st edition and 14805, 20th edition as the survey progressed. These charts see Eurle were enlarged to the scale of the survey and all agree to the Report See being criteria of section 1.1.2 part B.II.1 of the Hydrographic Manual except the following.

14804/14805	LOCATION	н-10138	POSITION
43 feet	Lat. 43°21.4'N Lon. 77°46.0'W	58	1694 +1 Longitude 43°21'26.87'W
59 feet	Lat. 43°21.8'N Lon. 77°48.8'W	7 0	1342 +1 Lefitude 43°21'4612"N Long Husle 77°48'46.48"W

14804/14805	LOCATION	H-10138	POSITION
86 feet	Lat. 43°21.9'N Lon. 77°43.8'W	125	1788 Latitude 43°21' 47.72"N tongitude 77043' 53.96"W
31 feet	Lat. 43°18.5'N Lon. 77°40.1'W	14	2486 2303 Loditude 43°18'29.88"N Longitude 77040'08:25"W

All four charted soundings had no identifiable source or probable cause. In all, agreement was good and the current coundings should supersede all charted soundings.

PSR #2209; obstruction, sunken rocks, source unknown, Lat. 43°21'15.00"N, Lon. 77°48'06.00"W (AWOIS Position). This feature was developed by 50 meter splits. The bottom was found to be very broken. A spike found on a crossline in the area was investigated by divers and an underwater star pattern was performed to about 50 meters in each direction using a buoy placed at the spike's location. Visibility was about 12 feet. Numerous rocks were found but the spike could not be identified. The rock at position 2692 was thought to be the spike, but probably is not because of the least depths. It is recommended that the charted rocks be retained at position*2692 Do Not concur * 11.0 RK (excessed) and at the spike near crossline position 1597 Lat. 43°21'06.26"N, Lon. 77°48'14. 88"W, with the least depths * Chartrock covered found. Note that the rocks*from 1875 mentioned in PSR 2209 9th at this position. were found as positioned on that survey and it is obvious that the 1914 note of rocks covered two feet refer to these. * that two rocks avered 2.4 and 2.2 ft at LWD at latitude 43°20'42.45"N, 43°20'42.75"N, longitude 77°48',7.51"W,

PSR #2210: dangerous submerged wreck, source unknown, Lat.43°21′15.00"N, Lon.77°48′06.00"W (AWOIS posit.). This feature was also developed by 50 meters splits which showed several suspicious spikes. These were investigated by divers and found to be natural rock outcroppings so extensive that a least depth could not be determined. This type of feature is common on the deeper mainscheme further east. It is recommended that the wreck symbol be retained, but the danger symbol is unwarranted. Do Not concur, remain as charted.

The background investigation for PSR 2210 turned up evidence of a later wreck. The Times Union article of See article aftacked 18 August 1920 is included with the dive reports in the supporting data. This wreck may have been confused with the original wreck, which was first charted in 1896. Local knowledge and comparison with the prior surveys led to a diver investigation of the area just inside the 12 foot contour. Wreckage, located at position 2693, consisted of sizable wooden planking flush with the bottom and mostly covered with gravel and boulders. The boulders in this area were evenly distributed and turned out to be coal. Local knowledge indicates that the U.S Coast Guard or U.S. Army Corps of Engineers did some work in the area to remove wreckage in the 1950's but no record could be found at either office or the newspaper. The size of the wreck, 80'x38' is given in the articles and the orientation is an approximation. It is

recommended that a wreck symbol be placed on position 2693, Lat.43°20′55.33"N, Lon.77°48′21.87"W, as described. A danger symbol is not recommended. That work work is that Lund.

The two six foot shoals found in the same area were developed by 50 meter splits and later by star patterns by the survey vessel. These features were very broad mounds and no point of least depth was apparent. The problem was compounded on the last day by a moderate swell. Chart according to smooth sheet.

PSR #00493; obstruction, source LNM 16/83 (7-1-83), Lat.43°43′17′.41‰N, Lon.77°39′12.00″W (AWOIS posit). This feature was searched for and found by divers on JD 171 at Lat.43°17′33.93″N, Lon.77°40′13.36″W, with the aid of U.S. Coast Guard personnel who had been on the wreck earlier. The wreck is dangerous and was verified with the originator as the item described in the Local Notice to Mariners of 1 July 83. This item was further identified by local divers as the "Laura Grace" which was beached in the 1930′s. A dangerous wreck commonded is recommended. It should be noted the position of the wreck from this survey is approximately 1 mile west of the AWOIS listing. Chat dangerous surker week coreal [ft.attwo]

A submerged concrete pier was also found on JD 171 as position 1001. This item extends twice as far offshore as charted near Lat. 43°20.3°N, Lon. 77°42.6 W and is hazardous. Chart runs as shown an smarth sheet.

A detached shoal was found and developed off Long Pond Road near Lat. 43°18.5'N, Lon. 77°40.4'W. The least depth on this feature is 143 feet, found near position 2302 on a crossline. This feature was barely skirted by all previous survey lines that Her depth of where position.

Information about PSR #00493, the submerged pier, and the uncharted shoal were immediately transferred to the U.S. Coast Guard 9th District and confirmed by letter. A copy of all correspondence is included in the Appendix.

Another detached shoal was developed at Lat. 43°18.0'N,
Lon. 77°38'.4'W. The least depth was found by sounding as 23.6
feet##### Charted depth on this feature is 28 feet and should concay be superseded by the new data. Po#2584/01 Chart 23 ft. depth at the above Postion.

There are seven charted water intakes and one sewage outfall on this area. Due to weather and personnel Section Lyck constraints, these features could not be inspected by divers. Section 7 However, the sewage outfall was found by Fathometer as positions 1925-1927, Lat. 43°20′38.60" N, Lon. 77°44′11.60" W. This least depth was found as 284feet, which compares well with the charted depth of 27 feet. The charted position agrees well with the engineer's drawings, but the field positions differ from both by about 20 feet. The drawings show 12 diffusers buried 100 feet into the bottom that rise to about 3.5 feet off the bottom in a line tending N 15°21′28" E. The diffusers are

on 25 foot centers between the following state plane coordinates:

> 1,219,566.81 1,219,832.02

> E 725,342.81 725,269.99

The position discrepancy may be due to the x-z to geodetic conversion. The charted position should be shifted to match the field position. Positions 1925 and 1927 are the southern most diffuser and 1926 is the next one north. Also note that the chart datum is the North American Datum of 1902.

The three intakes at Lat. 43°16.0'N, Lon. 77°37.2'W were detected on a crossline near position 2572. These positions are also slightly shifted from the charted positions, possibly due to the state plane to geodetic coordinate shift as discussed above. The charted positions should be shifted only if this discrepancy can be confirmed. All other intakes should be retained as charted until further investigation is possible.

The charted piles at the mouth of Braddock Bay, Lat. 43°18.7'N, Lon. 77°42.5'W were found by aerial reconnaissance at the beginning of the survey and positioned during hydrography. However, a single pile, charted south of the east entrance light was not found. This pile was searched for by boat and repeatedly by air on clear days with the bottom plainly visible. Nothing was found and local knowledge indicates all piles in this area were removed when the spit was rebuilt. The other piles, actually a railroad trestle in ruins, should be retained as found on the survey. Remore single pile South of entrance and chart the others according to smooth street.

A crib charted at Lat. 43°17.4'N, Lon. 77°40.0'W was found at position 2646. This feature is in ruins and is bare at all concur water levels. This item should be charted at the new position. check crib in ruins (5ft above Luid) at Latitude 43617' 21.71"N, Longitude 77° 401.1.98"W.

A rock charted at Lat. 43°16.5'N, Lon. 77°38.1'W was found as charted at position 2517[★] The charted buoy, Rigney Bluff buoy was not found. The maintaining organization, the New York Department of Parks and Recreation, confirmed that it was pulled early this year and that is does mark the above rock. These features should be retained at the new positions.
Chart reck uncours 2 ft et en o et latitude 43°16'31.44"N, ungitude 77° 28'03.76"W *Bury is several, remain as charted.

It is recommended that the following new items be charted as described in H-10138: CONCUY

Item	Position	Latitude	Longitude
Rock awash	2344	43°18′3 0 "	77 • 42 · 60 "
Groin	1893	43°20′ 12"	77°45′ 12 "
Rock	1948	26.44" 43°20′ 24 "	77°45′3 0 ''
Obstruction	1511	43°20′ 24 "	77°46′ 54 "

Some problem was encountered with the charted shoreline, while some discrepancies can be attributed to the chart enlargement used. The shoreline appears to be charted about 100 meters north of its true position and the following creek mouths are charted 100-200 meters east of their true positions:

Cowsucker Ck.	Lat. 43°20.7'N	Lon. 77°50.2'W
Brush Ck.	Lat. 43°20.4'N	Lon. 77°48.2'W
East Ck.	Lat. 43°20.4'N	Lon. 77°47.8'W
Round Pond Ck.	Lat. 43°16.6'N	Lon. 77°38.6'W

In all cases the T-sheet shoreline as edited on the smooth field sheet should be used. Churt should revisions as shown a smeeth sheet.

M. ADEQUACY OF SURVEY

This survey is complete and adequate to warrant it's use to supersede prior surveys for charting in the common area except as listed below. The following items will be See Eval Report investigated by divers in 1985 and information forwarded.

Three water intakes near Lat. 43°16.5'N, Lon. 77°37. B'W Remains charles

Three water intakes near Lat. 43.17.6'N, Lon. 77.38.8'W Lumin church

Detached shoal at Lat. 43°18.0'N, Lon. 77°38.4'W

روری (۱۳۶۳ میلان) اور کری (۱۳۶ میلا

Water intake near Lat. 43°20.5'N, Lon. 77°47.3'W Remain as chasted

N. AIDS TO NAVIGATION

All fixed and non-fixed aids to navigation in the survey area were located and comparisons made between their charted, Light List (volume IV, 1984), and surveyed positions and descriptions were made. All aids were found to adequately serve the purposes for which they were established.

The characteristic of Braddock Bay Entrance East Light has been changed from flashing white to flashing green 4S. See Special LNM 2-22 May 1984.

The following private aids were located as new aids and are recommended for charting:

Sandy Creek Entrance Light FL 2S Strobe
Sandy Creek Front Range Light FR
Sandy Creek Rear Range Light FR

Position information for these aids and revised positions for all others can be found on the included form 76-40. The Aids to Navigation team in Cleveland, OH indicated that the Sandy

Creek Entrance Light is either technically not a strobe light or it is illegal. This had not been resolved by the close of the season.

The private aids in Braddock Bay, Light List #340.10 - 340.40 were located by hydrographic fix methods. These aids are non-fixed, non-floating and are relocated as necessary. At the time of the survey, Rigney Bluff buoy, Page 21, Light List IV, had been removed for the winter as noted in Section L.

The following bridge clearances were found on 30 May 1984, JD 151:

- 1. Fixed bridge at entrance to Cranberry Pond from Long Pond. Lat. 43°17.9'N, Lon. 77°41.1'W, vertical clearance 0.5 feet at 1235Z. 4.38
- 2. Fixed bridge at entrance to Long Pond, Lat. 43°17.6'N, Lon. 77°40.7'W, vertical clearance 5.0 feet at 1240Z
- Fixed bridge at entrance to Buck Pond, Lat. 43°16.3'N, Lon. 77°39.4'W, vertical clearance 3.5 feet at 1255Z.
- 4. Fixed bridge at entrance to Round Pond Lat. 43°16.6'N, Lon. 77°38.7'W, vertical clearance 3.0 at 1300Z.

Note that Long Pond Ck and Buck Pond Ck are non-navigable because of dry or shallow mouths. The bridge over Round Pond Ck is the limit of navigation.

The following bridges were located and clearances measured on 25 July 1984, JD 207.

- 1. Fixed bridge on Button wood Ck at Lat. 43°18.1N, Lon. 77°43.4'W, vertical clearance is 5.5 feet at 17512.
- 2. Fixed bridge on Salmon Ck at Lat. 43°18.9'N, LWD. Lon. 77°43.4'W, vertical clearance is 8.5 at 1648Z.

The bridge over Salmon Ck is considered navigable to small vessels.

The bridge over Sandy Creek at Lat. 43°21.0'N, Lon. 77°53.6'W was measured at 12.0 feet at 1739Z on July 2, 1984, JD 184. This bridge is navigable to small vessels.

All landmarks visible from this survey area and of value to the navigator were inspected and the results are found on the attached 76-40's. The landmarks listed as new are new construction and could not be located to third order due to time and personnel constraints. The radio mast is notable because it is marked with strobe lights and can be seen in Canadian waters. The stack is also marked with strobe lights and it's twin is currently under construction. The positions of these objects are from private surveys and were verified by

sextant cuts taken at positions 2164 and 2250 and by T-2 cuts from station PK Slavin (s/n 627). The windmotor is also new construction located by sextant resection. A check angle was taken with good closure.

O. STATISTICS

On the 1:20,000 sheet:

Number of positions2720
LNM of mainscheme
LNM of crossline31.2
LNM of development58.2
Total miles323.6
Number of bottom samples32
Number of TDC casts6
Number of barchecks28
Sq. nautical milea30.1

On the 1:10,000 inset

Number of positions417
LNM of mainscheme7.3
LMN of crossline
LNM of development16.0
Total Miles24.8
Sq. N miles
Number of Bottom samples4
Number of TDC cast
Number of barchecks4

One water level gage was maintained during this survey.

P. Miscellaneous

Operations were severely hampered this summer by weather. It is apparent from the progress sketch that July was hardest hit. Throughout the season, the typical hydro day started fairly calm, but would freshen by mid-afternoon: operations ceased when data quality was affected. By this time, however, it would not be possible to come close ashore to system check or to barcheck. Subsequent instrument checks were scrutinized to ensure that the data was reliable.

Sand waves were apparent across the mouth of Braddock Bay during hydrography and from aerial reconnaissance. These waves tended northwest to southeast.

Large false returns can be seen on many of the Fathometer records. These were brought to the attention of Mike Voiland of the Sea Grant Office, State University of New York,

Brockport, NY who operated a research vessel on Lake Ontario. He identified these traces as schools of alewives fish.

Lake currents were investigated and found to be generally eastward flowing in this area although wind generated effects were larger. All currents were much less than % knot.

On August 22, 1984 the boundary of the upwellings described in the accompanying report "The Effect of Lake of the Ontario Water Temperatures on Hydrography" was visible on the Section Definition of the Section Definition Definition of the Section Definition Definition Definition of the Section Definition Def

Several reports of "river currents" in the lake were investigated and believed to be localized events caused by warm water being trapped inshore during upwellings. As the cold water encroaches in the shallow, the warmer water may wash out from shore at a low spot much like a rip tide. This is supported by the seiche-like behavior of the upwellings and the bathymmetry of the area where the "rivers" are reported.

Geographical names were investigated and all were found to be adequate and in local usage. Facility names are correct with the following exceptions:

- 1. "Manitou Marina" at Lat. 43°18.5'N, Lon. 77°45.5'W should be changed to "Braddock Bay Hotel Marina". The ramp is still existent. They also have fuel and supplies.
- 2. "Larry's Marina" at Lat. 43°18.3'N, Lon. 77°45.0'W should be deleted. The ramp notation should be retained. The establishment is now a bar.
- 3. "Skinner's Marina" at Lat. 43°19.1'N, Lon. 77°43.2'W should be changed to "Miller's Boathouse". This facility still has a ramp, hoist and fuel.
- 4. "Braddock Marine" at Lat. 43°18.0'N, Lon. 77°42.8'W is more correctly "Braddock Bay Marina". This facility has fuel, a ramp, pumpout equipment, supplies, groceries, repair services and marine supplies.
- 5. "Braddock Bay State Park" at Lat. 43°18.2'N, Lon. 77°43.5'W is now operated by the city of Greece. The correct name is "Braddock Bay Park".

The sublocality for this survey is North Hamlin to Rochester, not Point Breeze to Oswego as shown in the sounding volumes.

O. RECOMMENDATIONS

In addition to the extra work mentioned in Section M of this report, effort will be made during the 1985 season to locate all new landmarks to third order standards and obtain their heights. No 1985 Season was accomplished. The project was performed.

R. AUTOMATED DATA PROCESSING

Programs used during field data acquisition and field processing of this survey are as follows:

		<u>VERSION</u>
210		4 14 0 175
210	Grid, Signal and Lattice Plot	4/18/75
212	Visual Station Table Load	4/01/74
216	Range Azimuth Non-real Time Plot	2/09/81
300	Utility Computations	10/21/80
330	Reformat and Data Check	5/04/76
407	Geodetic Inverse/Direct Computations	9/25/78
530	Layer Corrections for Velocity	5/10/76
602	ELINORE	12/08/83
	216 300 330 407 530	212 Visual Station Table Load 216 Range Azimuth Non-real Time Plot 300 Utility Computations 330 Reformat and Data Check 407 Geodetic Inverse/Direct Computations 530 Layer Corrections for Velocity

S. REFERENCE TO REPORTS

Control Report for OPR-V255-84

Special Report, "Effect of Lake Ontario Water Temperatures on Hydrography"

Respectfully Submitted,

Franklin E. Ohlinger, LTJG

OIC HFP-4

FIELD WATER LEVEL NOTE

Water levels for Lake Ontario, southern shore from Pt. Breeze to Oswego, are referred to the International Great Lakes Datum Of 1955 which is 242.8 feet above mean water level at Father Point, Quebec.It is also referred to as Low Water Datum. Water levels for smooth plotting were reduced in the field from Oak Orchard water level gage data.

Water level gages were located at the following sites during the 1984 season. Rochester gage is a permanent installation.

Site & Operator	Location	Period	Zone
Oak Orchard Harbor #905-2070 National Ocean Service	43°21.3 78°11.5	5/30/84 10/11/84	78°10 - 77°45
Rochester #905-2058 National Ocean Service	43°16.2 77°37.5	5/30/84 10/11/84	78°00 – 77°30

The Oak Orchard gage was operated by a contract observer and records were forwarded by HFP-4. Some problems were encountered with missing times and heights but none are believed to be during times of hydrography. The gage was operated on Eastern Standard Time, 75°W, and ZETG was reportedly 249.827 feet.

LEVELS

Levels were run before and after hydrography in 1984 by HFP-4 on both gages. No significant difference in elevations were found.

ZONING

As Rochester gage data was not available for comparison with the Oak Orchard data, zoning was not used in the field reduction of soundings.

Currents within the Lake Ontario Project area are negligible.



SIGNAL LIST

OPR V255-MFP-84

HFP 20-1-84

H-10138

MINOR disages in position due to TENCOC Adjustment?

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See next page for positions used on the smooth sheet, preliminary adjusted field positions.

^{*} Stations located by HFP4
All other stations located by AMC Geodetic Control Group

	YEAR		·	LAKE ONTAKIO	PREPAREN BY	". F / 1/F 2/ 19/8
OL .	Setablishe	NAC LIST -	SHEET= HFP 20 84	REGISTR 0= 4/10/38	CHECKED BY:	
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	1984	617 SANDY BRIDGE	43 - 20 - 59.537		80.5%	
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	1984	626	43-19-50. 446 V	1	77.38 ".	
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	1884	625 TEMP POPLAR	1	,	76.29 "	
	1984	630 WATKINS	!!	13	17.77	
	1984	631	43-15-49,785	7	91.80 ".	
1	1984	635 TEMP BAY	43-18-35.563	7,	76.15	
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REPORTING UNIT (Field Party, Ship or Office) HFP-4	<u> </u>	STATE New York		Locality Monroe	e County	<u> </u>	DATE 9/26/84	COMPLETION ACTIVITY FINAL REVIEWER QUALITY CONTROL & REVIEW GRP.	CONTY CARVIEW GRD.
HAVE [X] HAVE NOT	P	been inspected from seaward to determine their value as landmarks	ward to de	termine thei	r value as	landmarks.		(See reverse for responsible personnel)	ible personnel)
NUMBER	าร	urvey number H-10138	DATUM NA 16	1927			NOTANO DATE OF 1 OCATION	701 FA 20 F	
	•)		POSITION	NO.		(See instructions on reverse side)	on reverse side)	CHARTS
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Braddock Bay Entrance LL# 339	ыğ	East Light	43 18	43.0017	77 42	30.5423		F-2-6-L 6/84	14805
Braddock Bay Entrance West LL# 340	M,	est Light	43 18	44.7313	77 42	32.8859		F-2-6-L 6/84	14805
Rochester Harbor Light LL# 337	1,		43 15	49.794	77 35	57.273		F-2-6-L 6/84	14805
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7-1155 (86)									

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Enter the number and date (including month) day, and year) of the photograph used to identify and locate the bject. EXAMPLE: 75E(C)6042 8-12-75	otograph used to	date of field work graph used to loca EXAMPLE: P-8-V 8-12-75	date of field work and number of the photo- graph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75
FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified V - Verified 1 - Triangulation 5 - Field identified 2 - Traverse 3 - Intersection 7 - Planetable 4 - Resection 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75 *FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	er the applicable data by symbols as follows: Field P - Photogrammetric Located Vis - Visually Verified Triangulation 5 - Field identified Traverse 6 - Theodolite Intersection 7 - Planetable Resection 7 - Planetable Resection 8 - Sextant Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L S-12-75 POSITIONS are determined by field obsersection ground survey methods.	74L(C)2982 II. TRIANGULATION STATION RECOVERED When a landmark or aid which is also a triangulation station is recovered, enter 'Tr Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75 III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75 **PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control establisheby photogrammetric methods.	74L(C)2982 I. TRIANGULATION STATION RECOVERED When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75 I. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75 PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.

NOAA FORM 76-40 (8-74) Replaces C&GS Form TO BE CHARTED TO BE REVISED TO BE DELETED	m 567. D REPORTING (Field Party, D	NONFLOATING AIDS GRACANGAINS FOR CHARTS UNIT Ship or Office) NEW YORK MONROE COU	ZHARAKA ZHARAKA	FOR CHA	U. OR CHARTS DCALITY MONROE COUNTY	S. DEPARTM	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION COCALITY MONROE COUNTY 9/26/84	ORIGINATING ACTIVITY HYDROGRAPHIC PARTY GEODETIC PARTY PHOTO FIELD PARTY COMPILATION ACTIVITY FINAL REVIEWER QUALITY CONTROL & REVIEW GRP	ARTY ARTY TTY TOTAL TOTA
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	RESPONSIBLE PERSONNEL	PERSONNEL	
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	INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64,	OR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64,	
OFFICE 1. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the bisect. EXAMPLE: 75E(C)6042 8-12-75	CATED OBJECTS e (including month, btograph used to	FIELD (Cont'd) B. Photogrammetric field entry of method of lodate of field work an graph used to locate EXAMPLE: P-8-V 8-12-75 74L(C)2982	Cont'd) Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photo- graph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982
EW POSITION DETERMINED nter the applicable dat - Field P - Located Vis - Verified - Triangulation 5 -	NED OR VERIFIED data by symbols as follows: P - Photogrammetric Vis - Visually 5 - Field identified	II. TRIANGULATION STATION RECOVERED When a landmark or aid which is angulation station is recovered Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75	TRIANGULATION STATION RECOVERED When a landmark or aid which is also a tri- angulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec.
3 - Intersection 7 - Planetable 4 - Resection 8 - Sextant A. Field positions* require entry o location and date of field work.	Intersection 7 - Planetable Resection 8 - Sextant Field positions* require entry of method of location and date of field work.	<pre>iii. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V+Vis.' and date. EXAMPLE: V-Vis. 8-12-75</pre>	UALLY ON PHOTOGRAPH ite.
EXAMPLE: F-2-6-L 8-12-75 *FIELD POSITIONS are determined by 'vations based entirely upon ground	ned by field obser- ground survey methods.	**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.	SITIONS are dependent on control established ds.

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NOAA FORM 76-40	-40		TAN	NATIONAL OCE	U.	S. DEPARTM	U.S. DEPARTMENT OF COMMERCE AND ATMOSPHERIC ADMINISTRATION	ORIGINATING ACTIVITY	ACTIVITY
Replaces C&GS Form 567.	m 567.	MONFLOATING WIDS OR LAND	DMARKS	LANDWARKS FOR CHARTS	\RTS			MHYDROGRAPHIC PARTY GEODETIC PARTY PHOTO FIELD PARTY	ARTY
TO BE CHARTED TO BE REVISED TO BE DELETED	REPORTING UNIT (Field Pany, Ship or Office) SED HFP-4	e) STATE NEW YORK	>	LOCALITY MONROE	E COUNTY	А	DATE 9/26/84	COMPILATION ACTIVITY PINAL REVIEWER QUALITY CONTROL & REVIEW GRP COAST PILOT BRANCH	CENTY CREVIEW GRP.
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STACK	(Rochester Gas and Electric S Stack, 1969)	ectric Plant No 7	43 16	07.1848	77 37	51.6634		F-3-6-V 6/84	14804
	(Rochester Kodak Park N	N Stack, 1969)	43 11	57.8578	77 37	54.3198		F-3-8-V	1,00,
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	RESPONSIBLE PERSONNEL	PERSONNEL	
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			OTHER (Specify)
	7.8.002x		FIELD ACTIVITY REPRESENTATIVE
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IND REVIEW GROUP AND FINAL REVIEW			REPRESENTATIVE
	INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64)	OR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64,	
OFFICE INENTIFIED AND LOCATED OBJECTS	CATED OBJECTS	FIELD (Cont'd) 8. Photogrammetric fie	<pre>Cont'd) Photogrammetric field positions** require</pre>
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	otograph used to	date of field work	date of field work and number of the photo- graph used to locate or identify the object.
identify and locate the ≎Ject. EXAMPLE: 75E(C)6042	-) ect.	EXAMPLE: P-8-V	
8-12-75		8-12-/5 74L(C)2982	82
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- Intersection 7 -	Planetable	III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH	SUALLY ON PHOTOGRAPH
- Resection	Sextant	Enter 'V+Vis. and date.	are.
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*FIELD POSITIONS are determined by	ned by field obser-	by photogrammetric methods.	ods.
vations based entirely upon ground survey methods.	ground survey methods.		

NOAA FORM 76-40	-40		7	TOO I WIND I HAN	U SINA	S. DEPARTA	OCEANIC AND ATMOSBUEDIC ADMINISTRATION	ORIGINATING ACTIVITY	CTIVITY
Replaces C&GS Form 567.	m 567.	MENNETOWATING WHEN DAY LAN	LANDWARKS FOR CHARTS	FOR CH	ARTS			HYDROGRAPHIC PARTY GEODETIC PARTY	ARTY
XTO BE CHARTED	REPORTING UNIT	STATE		LOCALITY			DATE	COMPILATION ACTIVITY	1VITY
TO BE REVISED TO BE DELETED	•	NEW YORK	-	MONR	MONROE COUNTY	IY ,	9/26/84	FINAL REVIEWER OUALITY CONTROL & REVIEW GRP	L & REVIEW GRP.
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				POSITION	NO		(See instructions on reverse side)	on reverse side)	CHARTS
	DESCRIPTION	Z	LATITUDE	.ude	LONGITUDE	TUDE		•	AFFECTED
CHARTING	(Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	k or aid to navigation. re applicable, in parentheses)	/ 0	// D.M.Meters	, ,	// D.P.Meters	OFFICE	FIELD	
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K MASI	survey; 610' above gra	gradestrobe-		`	- 1			9/84	14805
WINDMOTOR	New construction, 100'	100'above grade	43 20	59.25	77 56	10.34		Т-3-8- Т	14805
								7-3-6-7 9/84	000+1
STACK	New construction, position survey; 410' above grade.	tion from priv. destrobe-	43 11	52.6	68 22	55.3		F-3-8-V 9/84	14804
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	RESPONSIBLE PERSONNEL	PERSONNEL	
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TYPE OF ACTION			PHOTO FIELD PARTY
			HYDROGRAPHIC PARTY
BLECTS INSPECTED FROM SEAWARD	0)601	-	GEODETIC PARTY OTHER (Specify)
	7.6.0		FIELD ACTIVITY REPRESENTATIVE
SSITIONS DETERMINED AND/OR VERIFIED	7. C. Chel		OFFICE ACTIVITY REPRESENTATIVE
			REVIEWER
FORMS ORIGINATED BY QUALITY CONTROL			UNDITY CONTROL AND REVIEW GROUP
AND REVIEW GROUP STORY THE			REPRESENIALIVE
	INSTRUCTIONS FOR ENTRIES UNDER "METHOD AND DATE OF LOCATION" (Consult Photogrammetric Instructions No. 64.)	OR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64,	
OFFICE		FIELD (Cont'd)	(Cont'd) Description field positions** require
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day, and year, of the photograph used to	notograph used to	date of field work graph used to loca	date of field work and number of the photo- graph used to locate or identify the object.
identify and locate the baject EXAMPLE: 75E(C)6042	· no lect	EXAMPLE: P-8-V	
		74L (C) 2982	82
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i. NEW PUSHION DELERMINED ON VENTIONS Enter the applicable data by symbols as	ta by symbols as follows:	When a landmark or aid which is also a	id which is also a tri- greened enter 'Triang
F - Field P -	P - Photogrammetric	angulation station is lecovered, enter	ecovery.
L - Located Vis	- Visually	EXAMPLE: Triang. Re	Rec.
V - Verified 1 - Triangulation 5 -	Field identified		
	Theodolite Dissetable	III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH	SUALLY ON PHOTOGRAPH
3 - Intersection / - h - peraction 8 -	Sextant	Enter 'V+Vis.' and date.	late.
	4	EXAMPLE: V-Vis.	
A. Field positions* requ	Field positions* require entry of method of	8-17-8	-
and date	of field work.	**************************************	POSITIONS are dependent
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	the field obser-	by photogrammetric methods.	.spor
*FIELD POSITIONS are determined by reid of order wathous vations based entirely upon ground survey methods.	ned by held objections.		



Atlantic Marine Center 439 W. York St. Norfolk, VA 23510

TO:

Charting and Geodetic Services

N/CG223

26 September 1984

FROM:

F.E. Ohlinger

N/MOA233x4

SUBJ:

Coast Pilot Report

Coast Pilot 6 should be amended as follows based on information obtained during hydrographic surveys H-10110 and H-10138 performed under OPR-V255-84.

page 125, line 20L ...within 1 mile offshore except near Latitude 43° 18.5' Longitude 77° 40.1' where shoaling to 14 feet occurs 1.2 mile offshore. Numerous potable water intakes are within 2.5 miles NW of the Genesee River and a dangerous wreck covered 1.4 feet is 0.2 miles offshore at Latitude 43° 17.6', Longitude 77° 40.2'; caution is advised

page 125, line 31L ...midchannel line. In 1984 the controlling depth...

All else remains the same.



TO: Chart Information N/CG 222

29 June 1984

FM: F.E. Ohlinger, OIC
Hydrographic Field Party 4
N/MOA 233

SUBJ: Hazards to Navigation

The included notice to the U.S. Coast Guard was transmitted by telephone on 26 June 1984. Additional information follows:

The wreck is PSR 00493 and was found visually with the aid of U.S. Coast Guard personnel. The item was investigated by NOAA divers on 19 June 1984 and located by range azimuth techniques using Del Norte and Wild T-2 equipment. It is position 1002, HFP 20-1-84. An "H" number is yet to be assigned. Soundings were reduced using a field water level of 3.7 feet. The origin of PSR 00493 is an item in the Local Notices to Mariners, 16/83. The originator was Gordon Sprague of Kendall, N.Y. who was contacted to ensure the identity and position of the wreck. The LNM position is inaccurate.

The submerged pier ruins were also located that day. They are a continuation of the exposed pier shown on the Braddock Heights quadrangle. This position is 1001 and is also reduced by 3.7 feet.

The shoal spot off Oak Orchard Creek was located on 21 June 1984 by NOAA divers. A buoyed weight was dropped and located by range azimuth techniques with the above equipment as position 2127, H-10110, HFP 20-2-83. A 100 meter line was attached and used to guide a circular underwater search. Visibility was 15 feet. The least depth was found atop a 2 foot diameter boulder in a field of boulders and located as position 2142. This depth was reduced by 3.7 feet.





25 June 1984

TO: Commander (GAN)
U.S. Coast Guard 9th District
1240 E. 9th St.
Cleveland, Ohio 44199

FM: F.E. Ohlinger, LT(jg), OIC

Hydrographic Field Party 4

439 W. York St.

Norfolk, Va 23510

SUBJ: Hazards to Navigation

Three hazards to navigation have been found during hydrographic operations conducted by this party. Preliminary data indicates the following:

A wreck exists in eight feet of water near Lat. 43/17/33.9N, Long. 77/40/13.4W and is coveredby 1.4 feet at the International Great Lakes Datum of 1955 (IGLD). This point is approximately 280 meters from shore. This item is identical to and supersedes an obstruction reported in LNM 16/83 at 3.5 statute miles bearing 307° true from the Rochester Light.

A submerged pier ruins extends 215 meters from shore to Lat. 43/19/19.7 N, Long. 77/42/38.1 W. It is covered by 0.8 feet at IGLD.

A point covered by 5.7 feet at IGLD was located on the shoal east of Point Breeze at Lat. 43/22/50.5 N, Long. 78/10/08.1 W. This point is approximately 830 meters from shore.





25 September 1984

TO:

Chart Information

N/CG 222

FROM:

F.E. Ohlinger, OIC

Hydrographic Field Party 4

N/MOA 233

SUBJ:

Danger to Navigation

The enclosed letter to the U.S. Coast Guard was transmitted after rough plotting was completed on H-10138. The least depth on the sheet was not reduced by an approximate water level of 2.0 feet. The sounding occurs on a crossline between positions 2302 and 2303. This report may be amended as the shoal is further developed.





25 September 1984

TO:

Commander

U.S. Coast Guard 9th District

1240 E. 9th St.

Cleveland, QH 44199

FROM:

F.E. Ohlinger, LTJG, OIC Hydrographic Fig.

439 W. York St. Norfolk, VA 23510

SUBJ:

Danger to Navigation

This is to confirm the telephone report of 25 September 1984.

An uncharted shoal has been located during hydrographic operations conducted along the south shore of Lake Ontario near Rochester, New York. Preliminary information indicates that the shoal extends from LAT 43° 18.5' LON 77° 40.5' northeast to LAT 43° 18.8' LON 77° 39.5'. The shoal is approximately 0.3 NM wide with a least depth of 14 feet below chart datum found at LAT 43° 18.5' LON 77° 40.1'. This point is approximately 4.0 NM bearing 318° true from the Rochester Harbor Light. The 24 foot depth curve extends from 1.2 NM to 2.2 NM off Long Pond on chart 14805



Times Union 8-18-4820

et Russia

Coal Barge Goes On Rocks; Crew/Escapes In Life Boats

ttempt To Beach Boat Fails After She Develops Bad Leak PRESENT STATUS

ourteen Sailors Unsuccessfully Man Pumps for an Hour Barge Strikes Ledge of Rock Off Willow Beach and Resis in 15 Feet of Water—Coal Will Be Salvaged
—Charlotte Life Savers Called.

ièrpreters' Examination

'inds No Evidence Of Walnut Weevil In Parks Of Rocheste

State Indian Commission Stops in Rochester on Way to Tonawanda Indian Reservation in Western Part of the State.

Telephon Advanta Over So

APPROVAL SHEET

For

SURVEY H-10138 (HFP-20-1-84)

The hydrographic records transmitted with this survey are complete and adequate.

No direct supervision was given by me during the field work.

The survey is complete and adequate, with no additional field work recommended.

Ronald W. Jones, LCDR, NOAA

Chief, Hydrographic Field Parties Section

NOAA FORM 76-155 (11-72)	NATIONAL OC	U.S. DE	PARTMENT OF		SURVEY N	UMBER
GI	EOGRAPHI				н-1013	8
Name on Survey North Hamlin to Roches	ster o	chart paerious su	D E	on cal was	G AND H	J.S. Light List
Benedict Beach		x				1
Bogus Point	х	х				2
Braddock Bay	x	x				3
Braddock Heights		х				4
Brush Creek		х				5
Buck Pond	х	x				6
Cowsucker Creek		x				7
Cresent Beach		x				8
Davidson Beach		х				9
Grandview Beach		x				10
Island Cottage Beach		x				11
Lake Ontario	х	х				12
Lighthouse Beach		х				13
Long Pond	х	x				.14
Manitou Beach		х				15
North Hamlin, N.Y.	х	x				16
Payne Beach		x				17
Rigney Bluff		X				18
Salmon Creek	х	Х				19
Sandy Creek	х	х				20
Sandy Creek Marina		х				21
Sandy Harbor Beach		x	·			22
Shore Acres		х				23
Wautoma Beach		x				24
						25

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

WATER LEVEL NOTE FOR HYDROGRAPHIC SHEET

Processing Division: Atlantic Marine Center: MOA231

Hourly heights are approved for

Water Level Station Used: Rochester, New York (905-2058)

Period:

June 19, 1984 through October 10, 1984

HYDROGRAPHIC SHEET: H-10138

OPR- V255-HFP-84

Locality: Lake Ontario

Plane of reference: Low Water Datum (IGLD 1955: 242.8 Feet)

Remarks:

Zoning not required, data from other gages on Lake Ontario indicates no unusual water level movement during the survey period.

Many a-Lipincall
Chief, Water Levels Section

NOAA FORM 77	-27(H)		U.S. DEPARTMEN	NT OF COMMERCE	REGISTRY	Y NUMBER	
(8-83)	HYDROGR	APHIC SURVEY	STATISTICS		H-1	0138	
RECORDS AC	COMPANYING SUR	VEY: To be completed w	hen survey is processed.				
RECOR	RD DESCRIPTION	AMOUNT		RECORD DESCRIP	TION		AMOUNT
SMOOTH SHE	ET	1	SMOOTH OV	ERLAYS: POS., AR	C, EXCESS	;	8
DESCRIPTIVE	REPORT	1 1	FIELD SHEE	TS AND OTHER OV	ERLAYS		3
DESCRIP- TION	DEPTH/POS RECORDS	HORIZ. CONT. RECORDS	SONAR- GRAMS	PRINTOUTS	ABSTRA SOURI DOCUME	CE	
ACCORDION FILES	2						
ENVELOPES				·/////////////////////////////////////			
VOLUMES	9					-	
CAHIERS							
	METRIC MAPS (List):	504, 00505, 00	0506, 2 - 01065	//////////////////////////////////////			
	HYDROGRAPHER (List):						
SPECIAL REF		art Enlargemer	+ 14804				
NAUTICAL CI	TARTS (LIST). CITA		OFFICE PROCESSING AC	CTIVITIES			
				artographer's report on the	survey		
	PROCESS	ING ACTIVITY			AMOU	NTS	
				VERIFICATION	EVALUA	ATION	TOTALS
POSITIONS ON S	HEET						2720
POSITIONS REVI	SED						
SOUNDINGS REV	/ISED		-				
CONTROL STATE	ONS REVISED	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
				VERIFICATION	TIME-HO		TOTALS
PRE-PROCESSIN	IG EXAMINATION						
VERIFICATION O	F CONTROL						
VERIFICATION O	F POSITIONS			179			179
VERIFICATION O	FSOUNDINGS			222			222
VERIFICATION O	F JUNCTIONS						
APPLICATION OF	PHOTOBATHYMETRY						
SHORELINE APP	LICATION/VERIFICATION						7.40
COMPILATION O	F SMOOTH SHEFT			149			149
COMPARISON W	ITH PRIOR SURVEYS AND	CHARTS			7		7
EVALUATION OF	SIDE SCAN SONAR RECO	ORDS					
EVALUATION OF	WIRE DRAGS AND SWEF	PS					
EVALUATION RE	PORT				33	-	33
GEOGRAPHIC N	AMES						
OTHER*	Digitizing			550	110		18
	DE OF FORM FOR REMAR	KS	TOTALS	550 Beginning Date	40	Ending Date	608
Pre-processing E	wamination by			5/26/86		5,	/31/86
Verification of Fie				Time (Hours) 550		Ending Date	/4/86
Verification Chec	k by	A Olmatood	TS Green	Time (Hours)		Ending Date	/24/86
Evaluation and A		A. UHISTEAU,	חיחי מוממו	Time (Hours)		Ending Date	/22/86
Inspection by	Davies			Time (Hours)		Ending Date	
D. H	ill					9	/25/86

PACIFIC MARINE CENTER EVALUATION REPORT H-10138

1. INTRODUCTION

H-10138 was accomplished by Hydrographic Field Party #4 in accordance with the following project instructions:

OPR-V255-HFP-84, dated April 11, 1984 Change Number 1, dated May 21, 1984

This is a basic hydrographic survey along the southern shore of Lake Ontario between North Hamlin, and Rochester, New York. The surveyed area extends from the high water line to two and one-half nautical miles offshore; included within the area is Braddock Bay. The bottom slopes gradually offshore with a few isolated shoal areas within the 30-foot depth curve. The deepest depth in the area is approximately 174 feet northeast of North Hamlin. Numerous cultural features, piers, piles, and ramps are along the coast and in Braddock Bay. Bottom characteristics are generally sand, shells and mud.

Field reduction of soundings to low water datum was based on unverified recorded heights from the water level gage from Oak Orchard, New York. Water level correctors used for the final reduction of soundings reflect approved hourly heights from water level station Rochester, New York (905-2058).

The field sheet parameters have been revised to center the hydrography on the smooth sheet and to change the projection to polyconic. The sound velocity correctors have been revised during office processing to one-tenth foot increments as required by the Hydrographic Manual. Electronic correctors were revised to reflect daily correctors applicable to the appropriate Del Norte transponder unit. The revised data is listed in the smooth position/sounding printout.

A digital file for this survey has been generated and includes categories of information required to comply with N/CG2 Hydrographic Survey Guideline No. 23, Completion of Digital Hydrographic Surveys, September 7, 1983. Certain descriptive information, however, may not be included in the digital record due to the restrictions of the presently available cartographic codes. The user should refer to the smooth sheet for complete information.

2. CONTROL AND SHORELINE

Horizontal control and hydrographic positioning are adequately discussed in section F and G of the hydrographers report.

Horizontal control stations used during hydrography are preliminary adjusted field positions based on the North American Datum of 1927. Applicable shoreline manuscripts are TP-00504, TP-00505, TP-00506, TP-00900, and TP-01065. These are registered Class III maps, and originate from photography dated June 1980.

The following high water features have been added to the smooth sheet in red from the field sheet without supporting positional information:

Feature	Latitude (N)	Longitude	(W)
Pier ruins	43°19'16" 43°18'55"	77°42'39" 77°43'47"	
Pier Piers	43°18'51"	77°43 ' 56"	
Shoreline	43°18'49"	77°44'06"	
Pier	43°18'40"	77°44'36"	
Pier ruins	43°18'40"	77°44'40"	
Ramp	43°18'37"	77°44'53"	
Finger piers	43°18'34" 43°18'25"	77°44'54" 77°42'25"	
Piers,bulkhead Pier	43°18'29"	77°44'55"	
Ramp, pier ruins	43°18'20"	77°44'54"	
Ramp	43°21'00"	77°53'48"	
Ramp	43°20'32"	77°53'53"	
Pier ruins	43°20'35"	77°49'28"	
Pier ruins	42°20'24"	77°47'25"	
Pier ruins	43°15'47"	77°36'51"	

HYDROGRAPHY

Soundings at line crossings are in good agreement. Hydrography within the limits of the sheet is adequate to:

- a. Delineate the bottom configuration, determine least depths, and to draw the standard depth curves.
- b. Reveal that there are no significant discrepancies or anomalies requiring further investigation.
- c. Show that the survey had been properly controlled and soundings are plotted correctly.

4. CONDITION OF SURVEY

The hydrographic records and reports are adequate and conform to the requirements of the Hydrographic Manual, 4th Edition, revised/through Change Three, except as noted in the Preprocessing Examination Report, dated May 31,1985.

5. JUNCTIONS

H-10138 junctions with the following surveys:

Survey	Year	Scale	Area	
LS-1840	1945	1:10,000	East	
LS-2081	1960	1:80,000	North	
H-10110	1983-84	1:20,000	West	

The junctions have been adequately effected.

LS-1840 and LS-2081 adjoin H-10138 because these surveys have been processed and submitted to Rockville for charting. Junction comparisons were made using copies. Soundings are in fair agreement. Depth curves should be adjusted to conform with those on this survey.

6. COMPARISON WITH PRIOR SURVEYS

LS-605 (1875) 1:80,000 LS-614A (1875) 1:10,000 LS-615 (1875) 1:10,000 LS-616 (1875) 1:10,000 LS-617 (1875) 1:10,000

The present survey soundings compare within 1 to 8 feet of the prior survey soundings; all soundings being shoaler on the present survey. This can be attributed primarily to the change in the sounding datum, these prior surveys being based on Mean Lake Level 1860-1875.

LS-1606(1932) 1:80,000

The present survey soundings compare within 1 to 2 feet of the prior survey soundings. These differences are attributed to the relative accuracy of the data acquisition techniques.

H-10138 is adequate to supersede the prior surveys within their common areas.

7. COMPARISON WITH CHART

Chart 14804, 21st Edition, dated May 23,1981; scale 1:80,000

Chart 18805,20th Edition, dated March 14,1981; scale 1:80,000

a. Hydrography - Most charted information originates from the prior surveys discussed in Section 6 of this report. Other soundings and charted features originate from miscellaneous sources. For more details see section L of the hydrographer's report.

The seven charted water intakes referenced in section M of the hydrographer's report were not completely investigated. They should remain as charted.

The sewer outfall charted at latitude 43°20'42"N, longitude 77° 44'12"W, was not adequately investigated to supersede the charted minimum depth of 27 feet. The charted depth of 27 feet should be retained as the minimum depth over the riser, however the location of the feature should be revised on the chart as indicated on the smooth sheet.

Shoaling was reported in 1975 at latitude 43°18'47"N, longitude 77°42'30"W. This area is near the entrance to Braddock Bay. Hydrography was run in the area and depths range from 0.5 to 4 feet at LWD. Chart according to smooth sheet.

Pre-survey review items/AWOIS items originating from miscellaneous sources are adequately discussed in section L of the hydrographer's report.

Geographic names appearing on the smooth sheet originate with this chart and the topographic manuscripts.

H-10138 is adequate to supersede charted hydrography within the common area except for the seven water intakes noted previously in this section.

The following Dangers to Navigation Reports (copies appended) have been submitted to the Coast Guard:

Originator	Date	Coast Guard District
HFP#4	June 29,1984	9th
HFP#4	Sept.25,1984	9th

No additional dangers were identified during office processing.

- b. Controlling Depths There are no controlling depths within the limits of this survey.
- c. Aids to Navigation Charted aids to navigation have been located and adequately serve their intended purpose.

Three new fixed aids to navigation were located during this survey and are recommended for charting at the following locations:

Sandy Creek Entrance Light	43°21'10.91"N	77°53'28.80"W
Sandy Creek Front Range Light	43°21'06.12"N	77°53'31.45"W
Sandy Creek Rear Range Light	43°21'04.92"N	77°53'32.31"W

8. COMPLIANCE WITH INSTRUCTIONS

H-10138 adequately complies with the project instructions noted in section 1 of this report.

9. ADDITIONAL FIELD WORK

This is an adequate basic hydrographic survey. Additional field work is recommended concerning the location and depth of the seven water intakes mentioned in section M.

Respectfully submitted,

Charles R Davis

C.R.Davies Cartographer This survey has been examined and it meets Charting and Geodetic Services standards and requirements for use in nautical charting. The survey is recommended for approval.

Dennis Hill

Chief, Hydrographic Section

ATTACHMENT TO DESCRIPTIVE REPORT FOR H-10138

I have reviewed the smooth sheet, accompanying data, and reports of this hydrographic survey. Except as noted in the Evaluation Report, the hydrographic survey meets or exceeds Charting and Geodetic Services (C&GS) standards, complies with instructions, and is accurately and completely represented by the smooth sheet and digital data file for use in nautical charting.

Chief, Nautical Chart Branch (Date)

CLEARANCE:

N/MOP2:LWMordock

SIGNATURE AND DATE:

After review of the smooth sheet and accompanying reports, I hereby certify this survey is accurate, complete, and meets appropriate standards with only the exceptions as noted above. The above recommendations are forwarded with my concurrence.

Director, Pacific Marine Center (Date)

DIAGRAM NO. LS-2

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. H-10138

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.

			made under "Comparison with Charts" in the Review.
CHART	DATE	CARTOGRAPHER	REMARKS
7	3-3-87	Kussell & Kenned	Full Part Before After Marine Center Approval Signed Via
14800 M)			Drawing No. 5 Critical Corrections only
1			
14815	6-23-89	Athydy	Full Part Before After Marine Center Approval Signed Via
	18	7.511	Drawing No. full Application of sudge from SS
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14815	3-12-90	EdMartin	Full-Part-Before After Marine Center Approval Signed Via
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14800	3-15-90	ALMACEN	Full Part Before After Marine Center Approval Signed Via FULL APPLICATION OF
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