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Form \$04
U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
Type of Survey Hydrographic
Field No. AL 20-1-62 Office No. H-9504
LOCALITY
State VIRGINIA
General locality Chincoteague, Va.
Locality Wallops Island to
Metomkin Inlet Washaproagus Inlet
1962
CHIEF OF PARTY £ Hugh Proffitt Dale E. Westbrook, LCDR., C&GS
LIBRARY & ARCHIVES
DATE 7/11/77

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SURVEY

H - ____

FIELD NO. AL 20-1-62

1:20,000

1962

STORM DAMAGE PARTY ALPHA

Dale E. Westbrook, LCDR, C&GS

OFFICER-IN-CHARGE

Cat. 1 No further processing planned

Mr Cartens

Applical to state 10/11/79

A. PROJECT

The field work on this survey was done in accordance with INSTRUCTIONS, PROJECT OPR-431, CHINCOTEAGUE INLET TO CAPE CHARLES, VA., dated 31 May 1962.

B. AREA SURVEYED

The area surveyed was located on Virginia's eastern shore, just south of Chincoteague, Va.

This is a low-lying area with many bays, marshes, inlets, channels, and sloughs.

The offshore area has a relatively smooth sandy bottom. There is generally a ground swell and breakers on the exposed coast which prevented delineating the zero depth curve alongshore.

The locality of the survey lies roughly between the north end of Wallops Island, Va. and Wachapreague Inlet, Va.

The survey instructions called for sounding all inshore areas, and offshore through the 30 foot depth curve. Field work was begun on 1 June 1962 and was discontinued on 15 November 1962.

Two separate boat sheets covered the area. Sheet AL 20-1-62 covered the northern half, and Sheet AL 20-1-62 INSET covered the southern half. Sheet AL 20-1-62 was completed during the season, and Sheet AL 20-1-62 INSET was started but not finished.

3

This survey joins offshore with prior surveys H-5702, 1:40,000, 1934 and H-5715, 1:40,000, 1934. The survey joins with contemporary survey CO 20-1-62 on the north.

C. SOUNDING VESSEL

In general, Launch 1201 (30 ft.) was used to obtain soundings in the offshore areas. A 25 foot wooden sounding skiff was utilized in the inshore bays, channels, and creeks.

Launch 1201 was given the color BLUE for its day letters, and the 25 ft. skiff used RED.

D. SOUNDING EQUIPMENT

Type 808 fathometers were used exclusively aboard both the launch and skiff. Because of their poor condition, the fathometers were interchanged quite frequently between the skiff and the launch. The fathometer Nos. were:

57-35 SPX

150 SPX

160 SPX

In shallow waters (0'-5') where the fathometer would not give soundings, a standard sounding pole was used when sounding in the skiff.

Echo corrections were obtained by averaging bar checks, taken at least once a day, over a period of time. Separate correction curves were drawn whenever there was a fathometer change, a different sounding vessel was used, or when the bar checks for a particular day could not be averaged but were known to be reliable.

Bar checks were taken at 5 foot intervals to 30 feet and deeper if possible. All fathometer soundings were on "A" scale, which made it unnecessary to obtain phase corrections.

At the beginning of the survey, there was a great deal of trouble experienced with the fathometers. Due to the lack of training in fathometer repair, the crew found it difficult to keep them operating.

A Chief Electronics Technician was then assigned to the party and he managed to keep the apparatus in working order. However, these 808 fathometers have seen their better days, and should be soon retired from service in favor of a newer, more reliable type. Despite their spotty and erratic look, particularly at the beginning of the project, the fathograms provided satisfactory results when the appropriate corrections were applied.

E. SMOOTH SHEET

It is planned to turn this survey over to the Norfolk Processing Office on 30 November 1962. The smooth sheet has not yet been initiated.

F. CONTROL

by sextant fix on hydrographic signals. All signals, except for those over triangulation stations, were located by a Photogrammetric Sub-Party in charge of Mr. William M. Reynolds. The control provided was more than adequate for accurate fixes in all portions of the area. In a few cases, it was necessary to use the shoreline to reference the sounding vessel's position, but only in close to shore where a fix could not easily be obtained, or in narrow unimportant sloughs.

A list of Photogrammetric Manuscripts used for transfer of signals follows:

RS - 775	T-11674
T-11662	T-11675
T-11666	T-11676
T-11667	T-11677
T-11671	T-11678
T-11673	

G. SHORELINE

Shoreline details were transferred to the boat sheet from 1:20,000 scale Blue Line prints which were reduced from the 1:10,000 scale of the manuscripts. The manuscript numbers have been listed under F. above.

The high-water line was not revised by the hydrographer. The Photo Party was engaged in revising the HWL where necessary.

NOTE: Shoreline should not be applied to the smooth sheet until Blue Lines are obtained which reflect the corrections made by the Photo Party.

Where possible, the low-water shoreline was defined by soundings. In some areas, the approximate LWL was defined by walking it using sextant fixes for location. In the offshore areas, it was virtually impossible to obtain the LWL due to the almost constant surf breaking inshore of the 6 foot curve, and the danger of having no protective skeg on the launch when in the breakers. The inlet entrances were more dangerous because of the tidal currents as well as breakers.

H. CROSSLINES

Crosslines were run to the extent of 8-10 percent of the regular system of sounding lines.

There were some discrepancies of 1 to 2 feet at crossings on the Boat Sheet. These discrepancies can be justified by the fact that in many instances the predicted tides used for boat sheet soundings did not reflect the true heights of the tide.

I. JUNCTIONS

J. COMPARISON WITH PRIOR SURVEYS

K. COMPARISON WITH THE CHART

L. ADEQUACY OF THE SURVEY

The survey on Boat Sheet AL 20-1-62 is complete and adequate to supercede prior

surveys for charting.

Boat Sheet AL 20-1-62 INSET was begun but was not completed and will require further work.

M. AIDS TO NAVIGATION

There were no additions or deletions to Landmarks for Charts in the survey area.

Most floating aids to navigation in this area are moved quite often in position, and many are not shown on the chart, due to the changeable nature of the channels. Even though the Coast Guard has difficulty maintaining the aids in their proper position as the changes in the channels occur, the aids adequately serve the purpose for which they were intended.

There were no bridges or overhead cable areas found that are not shown on the chart. Submarine cable areas are as shown on the chart.

N. STATISTICS

LAUNC	H 1201	SKIFF	
No. Pos.	Mi. Hydro	No. Pos.	Mi. Hydro
1906	366.6	2617	317.4

There were SEVEN portable tide gages and TWO tide staffs established during the survey.

O. MISCELLANEOUS

There were no items of unusual interest in the project area.

P. RECOMMENDATIONS

The survey is complete and adequate for charting purposes. The Boat Sheet AL 20-1-62 INSET is not complete. It is recommended, however, that Boat Sheet AL 20-1-62 be considered a separate sheet for smooth plotting purposes.

It is also recommended that further hydrography in this area be done by a survey ship especially offshore, because of its inaccessability. The inshore areas could be done by a shore party such as this one. This plan of attack would cut down substantially on distances to and from the working grounds, and the necessity of traversing the tricky, shifting inlets on a day-after-day basis.

Q. REFERENCES TO REPORTS

The following reports have been submitted to the Washington Office:

- 1. Geographic Names Report- 9 Nov. 1962
- 2. Coast Pilot Report 30 November 1962
- 3. Season's Report 30 November 1962

The Fathometer Correction Report in incomplete.

TIDE NOTE

Time Meridian used: 750 W

<u>STATION</u>	LAT.	LONG.	MLW on staff
Assateague Cove	37°51.90¹	75°22.10'	-3.5
Wishart Point	37°52.901	75°29.51'	-2.4
Wallops I.	37°50.17'	75°29.32'	-3.1
Gargathy Neck	37°46.55'	75 ⁰ 33.70'	-2.5
Folly Creek	37°41.76'	75°38.08'	UNDETERMINED
Metomkin Inlet	37°40.32°	75°35.70'	UNDETERMINED

A letter has been sent requesting MLW on staffs at Metomkin Inlet and Folly Creek.

Another letter has been sent requesting that the working area be broken down into zones for the application of tide reducers to soundings. This letter also requests hourly heights from the Washington Office for the following gages and dates:

Assateague Cove	Gargathy Neck
13 Sept. 0900-1500 11 Sept. 0900-1500 12 Sept. 0900-1500	10 Oct. 1000-1600 8 Oct. 0800-1300

Hourly heights have been furnished by the Washington Office for Assateague Cove, 9 and 10 June, 1962.

GEOGRAPHIC NAME LIST

The smooth sheet has not been initiated.

ABSTRACT OF CORRECTIONS TO ECHO SOUNDINGS

Echo corrections for this survey are incomplete at the present time.

LIST OF SIGNALS

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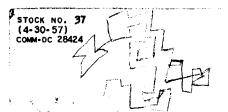
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UNITED STATES GOVERNMENT

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

Memorandum

In reply refer to: 631/ms

TO: Mr. Hugh L. Proffitt

DATE: June 20, 1962

Chief, Launch Party ALPHA 220

FROM : Chief, Photogrammetry Division

SUBJECT: Photo-hydro Support Data, Project 431 - Chincoteague

Inlet to Cape Charles, Virginia

A portion of your recent telephone conversation with Captain Mast was relayed to the Photogrammetry Division for further reply.

A sketch of our mapping project PH-5907 is enclosed. Photo-hydro support data is currently being furnished from that project to our photogrammetrist, Mr. Reynolds for location of signals. It was our intent, and we assume that Mr. Reynolds achieved the goal of meeting your signal location requirements by June 1, and will continue to solve your location requirements throughout the entire season.

All photogrammetric data for locating signals from Chincoteague Inlet south to Wachapreague Inlet (refer to sketch) for Maps T-11662, T-11666, T-11667, T-11670, T-11671, T-11673, T-11674, T-11675, T-11677, T-11678, T-11679, T-11680 and T-11681 were forwarded directly from Tampa District Office to Mr. Reynolds for locating the signals.

The Reproduction Division is making 1:20,000 scale blue line tracing reductions of those same maps. They will be forwarded to you within a week for transfer of shore line to your boat sheets. Instruction OPR 431 indicates that photo-hydro support data would be furnished by June 1, but it was our intent for the blue line tracings to follow two or three weeks later because of the additional handling required between the Tampa and Washington Offices.

The shore line that will be furnished on the tracings next week will be field edited by our photogrammetrist. Where applicable, new tracings will be furnished for transfer of shore line to the smooth sheets.

If you have any further questions regarding the photogrammetric data or photo-hydro support schedule, you are encouraged to telephone Mr. Cravat, Area Code 202, WO 7-2972, collect. He will be very glad to assist you in any way he can.

for J. E. Waugh

cc: Reynolds, 6313

VALUES FOR MLW ON TIDE STAFFS - CHINCOTEAGUE, VA.

ASSATEAGUE COVE -3.5'
CHINCOTEAGUE CHAN. -2.5'
Wishart Point -2.4'
FRANKLIN CITY -3.5'
Ferry Slip, Walleps I -3.1'
Gargathy Neck -2.5'

DEPARTMENT OF COMMERCE U. S. Coast and Geoderic Survey Form 685 A

Nearest town Designation

RECOVERY NOTE, BENCH MARK

State County

Distance and direction from nearest town
Character of mark
Established by
Present condition
Detailed report

County

Stamping

Chief of Party
Recovered by

Date Checked by

U. S. GOVERNMENT PRINTING OFFICE 16-49836-1

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135	YAK	RS-775	34
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APPROVAL SHEET

This survey is complete and adequate for charting purposes. The work on the boat sheet and the field record processing completed at the present time (30 November 1962) are hereby approved.

As stated before, the Boat Sheet AL 20-1-62 INSET is incomplete and requires further hydrography.

I personnally inspected the sounding records and found them to be complete and satisfactory.

The field work was closely supervised, and a nightly inspection of the records was made.

Approved and forwarded:

Dale E. Westbrook

LCDR., C&GS

Officer-in-Charge

Storm Damage Party ALPHA

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC CHANNEL INVESTIGATION Field No. Office No.
LOCALITY
State VIRGINIA
General locality CHINCOTEAGUE, BAY, VA.
Locality KILLICK CHANNEL
19 62
CHIEF OF PARTY
HUGH L. PROFFITT
LIBRARY & ARCHIVES
DATE

СОММ- DC 61300

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

REGISTER No.

	Field No. Channel Investigation
State	VIRGINIA
General locality	CHINCOTEAGUE BAY
Locality	KILLICK CHANNEL
Scale 1:20,000	Date of survey 2-6 August 1962
	8 July 1962
Vessel	SHORE PARTY ALPHA - 25' SKIPP
Chief of party	Hugh L. Proffitt
	Joseph D. D'Onofrio
	konneter, graphic recorder, knownessaystes POLE
	Personnel - Alpha
	n u
	Joseph D. D'Onofrio
•	Hugh L. Proffitt
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NOTES TO ACCOMPANY KILLICK CHANNEL INVESTIGATION

PROJECT OPR-431

CHINCOTEAGUE BAY, VA

SHORE PARTY ALPHA

2 - 6 AUGUST 1962

PROJECT

This hydrographic investigation of Killick Channel, Chincoteague Bay, Va., was done in compliance with the letter of Chief, Operations Division dated July 8, 1962, 211/pt.

All sounding was done with a 25' skiff using an 808 fathometer and a sounding pole. Bar checks showed all velocity corrections to be 0'.

CONTROL

Existing control stations, including fixed aids to navigation, were transferred to the boat sheet from air-photo compilations T-11660 and T-11661. Mr. W.M. Reynolds, of the Division of Photogrammetry, checked the positions of all fixed aids used to control the survey. All were in agreement with locations shown on the air-photo compilations.

TIDE NOTE

A portable tide gage was established at Franklin City, Va. and was operated during the period of the survey. Actual tide reducers were entered in the sounding volumes with-out time or range corrections.

SOUNDINGS

All soundings were plotted on the boat sheet using actual tides and applicable velocity corrections, which in this case was O'. Soundings are in good agreement at crossings.

CHART COMPARISON

Due to the small scale of chart 1220 a detailed comparison with this survey is impracticable. There has been some erosion on the West side of the large shoal area in the vicinity of day-beacon 14. The two isolated shoal areas between Long Foint and day-beacon 14, which are charted at 2 and 3 feet, apparently no longer exist. A shoal sounding of 4½ feet was obtained at the charted 2 foot spot. This survey shows a controlling depth of 4 feet in Killick Channel.

Nautical miles sounding lines - 37.8

Hugh L. Proffitt Chief, Shore Party Alpha FORM CD-121 (9-22-59) (PRES. BY A.O. 206-101

UNITED STATES GOVERNMENT

Memorandum

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

JUBBARY BRYSHOLD

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Nautical miles sounding lines - 37.8

Hugh L. Proffitt Chief, Shore Party Alpha

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Project OPR-431 Chincoteague Inlet to Cape Charles, Va.

GEOGRAPHIC NAMES REPORT 1962 SEASON

Dale E. Westbrook, LCDR., C&GS OinC, Storm Damage Party ALPHA

INSTRUCTIONS

This geographic names investigation was done under the authority of INSTRUCTIONS - PROJECT OPR-431, CHINCOTEAGUE INLET TO CAPE CHARLES, VIRGINIA, dated 31 May 1962.

AREA COVERED

The area covered by this report includes all named water features in the area worked during the 1962 field season. Roughly, this area runs from the northern limit of Chart 1221 at Chincoteague, Va., south to Latitude 37° 40' near Metomkin Inlet.

PERSONS INTERVIEWED

Five men from Chincoteague, Va. were independently interviewed concerning the names. Not one of those men has been in the area less than 50 years, and not one has had less than 30 years on the water.

All five men can be easily classified as expert authorities on water names in the area. The opinions of each man can be given equal weight when considering their merit.

Interview information on the five men is as follows:

No. 1

NAME:

Earl Birch

ADDRESS:

Ridge Road, Chincoteague, Va.

AGE:

68

OCCUPATION:

Waterman - 60 yrs.

IN AREA:

68 yrs.

OWN BOAT?

Yes

No. 2

NAME:

Will Nat Steelman

ADDRESS:

115 Mumford St., Chincoteague, Va.

AGE:

53

OCCUPATION:

Oyster Inspector - 34 yrs.

IN AREA:

53 yrs.

OWN BOAT?

Yes

No. 3

NAME:

Joseph D. Taylor

ADDRESS:

Chincoteague, Va.

AGE:

67

OCCUPATION:

Waterman - 57 yrs.

IN AREA:

67 yrs.

OWN BOAT?

Yes

No 4.

NAME:

Samuel Taylor

ADDRESS:

578 S. Main St., Chinecteague, Va.

AGE:

60

OCCUPATION:

Waterman - 45 yrs.

IN AREA:

60 yrs.

OWN BOAT?

Yes

No. 5

NAME:

Floyd W. Birch

ADDRESS:

562 S. Main St., Chincoteague, Va.

AGE:

56

OCCUPATION:

Waterman - 45 yrs.

IN AREA:

56 yrs.

OWN BOAT?

Yes

NOTE:

All further references to these

men will be by their number.

LIST OF CORRECT HAMES

The following names were agreed upon by all five men as being correct in every respect.

- 1. Blackfish Bank
- 6. Chincoteague Inlet
- 2. Chincoteague Shoals
- 7. Assateague Channel

3. Ship Shoal

- 8. Chinooteague Channel
- 4. Turners Lump
- 9. Black Harrows
- 5. Porpoise Banks
- 10. Queen Sound

11.	Semoneaston Bay	23.	Kegotank Bay
12.	Cookle Creek	24.	Gargathy Inlet
13.	Kendall Narrows	25.	Gargathy Creek
14.	Watts Bay	26.	Whites Oreek
15.	Root Narrows	27.	Gargathy Bay
16.	Powells Bay	28.	Wire Passage
17.	Ballast Narrows	29.	Metomkin Bay
18.	Taylors Narrows	30.	Parker Creek
19.	Island Hole Narrows	31.	Folly Oreek
20.	Bogues Bay	32.	Metomkin Inlet
21.	Hog Creek	33.	Longboat Creek
22.	Assawaman Inlet	34.	Oedar I. Bay

DISCUSSION OF NAMES DISAGREED UPON

Following is a discussion of the names disagreed upon, and recommendations for their disposition:

NAME: ASSATEAGUE COVE

, 1

Men #1,2, & 5 agreed that this name was correct. No. 3 stated that he knew the place as Tom's Cove. No. 4 that he knew it to be Assateague Anchorage.

RECOMMENDATIONS:

Since a majority of the men agreed that Assateague Cove was correct, it is recommended that the name be retained as charted.

44

NAME: SHELL BAY

Man #1 agreed that the name was correct.

Men #2,3,4, & 5 all claimed it should be changed to SHELLY BAY, since they all referred to it by that name. The term is used to denote more than one shell, or a mass of shells.

RECOMMENDATIONS:

In light of the agreement between four of the men independently interviewed, it is hereby recommended that the name SHELL BAY be changed on the chart to SHELLY BAY to conform to local usage.

NAME: CAT ORBEK

Men #2,3, & 5 agreed on the correctness of this name. Men #1 & 4 claimed the name was changed to CAT RIVER when the Army Engineers dredged it out for the waterway.

RECOMMENDATIONS:

Since most of the men agreed as to the correctness of this name, and since the term river, applied to a small body of water such as this, is misleading, it is recommended that the name CAT CREEK be retained as charted.

(NOTE: If the Army Engineers do change names of creeks to rivers after they dredge them, perhaps this one should be made to conform.)

NAME: OYSTER BAY

This is one name which all five men agreed was incorrect. Each of them claimed that once this bay was composed of two separate bays, the one on the north called OLD WOMANS BAY, and the one on the sewith called ARBUCKLE BAY. They also claimed that the two bays are still called OLD WOMANS BAY and ARBUCKLE BAY and are not known by the name OYSTER BAY.

RECOMMENDATIONS:

It is therefore recommended that the separate names be used on the chart (i.e. OLD WOMANS BAY on the next, and ARBUCKLE BAY on the south) and that the name CYSTER BAY be deleted.

NAME: ASSAVAMAN CREEK

Only one man (No. 2) disagreed with this name. He calls it BARNES CREEK.

- Was

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RECOMMENDATIONS:

Since the majority of the men may the name as charted is correct, it is recommended that the name ASSAWANAH CREEK be retained.

NAME: NORTHAM HARROWS

Only one man (No. 1) disagreed on this name. He stated that he knew it by the name HOG NECK NARROWS.

RECOMMENDATIONS:

In view of the fact that the other men are in agreement on this name, it is recommended that NORTHAM NARROWS be retained as shown on the chart.

NAME: CROSS CREEK

Only one man agreed as to the accuracy of this name. He is No. 3. The other men. #1,2,4, & 5, stated that this creek was known as LITTLE FOLLY CREEK.

RECOMMENDATIONS:

Since the majority call it LITTLE FOLLY OREEK, I would have a tendency to recommend that name. However, I understand that a good geographic name has a distinctive name unlike that of any other feature in the area.

Therefore, I believe the name LITTLE FOLLY OREEK is apt to be confused with FOLLY OREEK nearby, and the name CROSS OREEK, being a logical one, should be retained as charted.

SUMMARY

printing

There were 41 water names listed for comment. All men acknowledged 34 of those names to be correct in all respects.

On only 7 names were there various differences of opinion that were voiced against the charted name.

On only one name was there total agreement among the men that the name was different from the one charted.

This result is perhaps a tribute to the accuracy of our charts, and previous interest of our Bureau in Geographic Mames accuracy.

Respectfully submitted,

Dale E. Westbrook LODR., CAGS OinG, Storm Damage Party ALPHA

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FORM C&GS-946 (REV. 11-65) (PRESC. BY HYDROGRAPHIC MANUAL 20-2, 6-94, 7-13)

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY NAUTICAL CHART DIVISION

HYDROGRAPHIC SURVEY STATISTICS HYDROGRAPHIC SURVEY NO. 9504

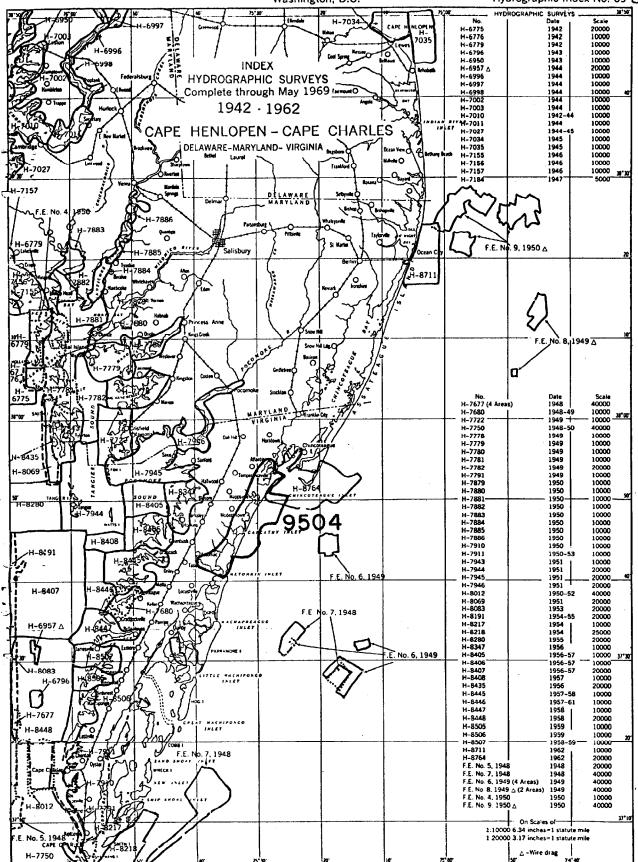
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USCOMM-DC 86271-P68

DEPARTMENT OF COMMERCE Environmental Science Services Administration

U.S. Coast and Geodetic Survey Washington, D.C.

Hydrographic Index No. 69 C



51

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

1%	9504
'. /:	9712

INSTRUCTIONS

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

1. Letter all information.

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

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

CHART	DATE	CARTOGRAPHER	REMARKS
1221	11/3/77	Richard L. How	Fall Pare Before After Verification Review Inspection Signed Via
	7 7	/	Drawing No. 44 ADAQUATE APPLICATION OF
			CATAGORY I HYDRO SHEET
1270	11/3/77	Richard L. Hora	Rull Part Refore After Verification Review Inspection Signed Via
	7 /	,	Drawing No. 38 ADAQUATE APPARATION THRU
	-		CHART 1221, de long CAT / Hydrosheet
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1109	11/9/77	Richard L. Horan	Drawing No. 43 ADAGUATE APPLICATION TIRL CHART
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