H02944

NOAA FORM 76-35A

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

DESCRIPTIVE REPORT

Type of Survey	Hydrographic
Field No	
	H02944
Registry No	

LOCALITY

Maryland State					
General Locality Tangier Sound Wicomico River and Mouth of Sublocality Nanticoke River					
19 07 CHIEF OF PARTY C. C. Yates, Swepson Earle					
LIBRARY & ARCHIVES					
DATE					

MARYLAND OYSTER SURVEY

CERTIFIED FROJECTION D 1907 Sourcete County Durchealer County Natural Cyster Bars Crab Bottoms Clam Bods Clam Bods and Triangulation Stations

surveyed by

MARYLAND SHELL FISH COMMISSION U.S. BUREAU OF FISHERIES U.S. COAST AND GEODETIC SURVEY

Explanation

The primary object of the work covered by the projections of the Maryland Cyster Survey was the gathering of information for the purposes of an "oyster survey." Consequently these sheets do not fulfill the requirements of an ordinary hydrographic survey. But it is intended that they shall be used for all future plottings of the hydrography contained in the records of SOUNDINGS of the Maryland Cyster Survey filed in Archives.

In general, the lines of soundings only cover the vicinity of the natural oyster bars outlined in green ink on these projections, and therefore, it will be useless to plot the soundings unless information is desired for these particular localities. For the same reason, the boundaries of the Natural Cyster Bars shown on the Maryland Cyster Survey Charts, Nes. 1 to 42 published by the U.S. Coast and Geodetic Survey, can be used as a general index of the limits of the hydrography of the Maryland Cyster Survey.

For descriptive report see U. S. Coast and Secdetic Survey publications "Summary of Survey of Cyster Bars of Maryland" and "Survey of Cyster Bars, Somerset County, Maryland," and for limits of related projections are progress map in the latter publication.

Boundaries of Natural Oyster Bars are indicated by green lines. Boundaries of Crab Bottoms, when on projections, are indicated by blue lines. Boundaries of Clam Beds, when on projections, are indicated by yellow lines.

Triangulation Stations are indicated by small red triangles.

This projection is one of a series of eighty-seven original certified projections of all cyster bar and other boundaries established by the "aryland Cyster Survey and was filed in the Archives by C. C. Yates, representative of the U. S. Coast and Geodetic Survey on the work of the Maryland Cyster Survey.

> C.C.Y. Balto. 6/16/13



Part of this work projection in Somercet County

TO ACCOMPANY HYDROGRAPHIC PROJECTIONS AND RECORDS DESULATING FROM THE SURVEY OF OVETER BARS OF SOMERSET COUNTY MATTLAND MADE BY THE MARYLAND SERIL FISH COMMISSION IN COOPERATION WITH THE UNITED STATES COAST AND GEODETIC SURVEY

PROJECTICMS

B--Wicomico River and Mouth of Manticoke River
C---Tangier Sound off Deal Island
D---Chesapeake bay, from Holland to Kedge Straits
E--Tangier Sound off Entrances to Manokin and Big Annemesses Rivers
F--Manokin River
G---Big Annemesson River
E---Chesapeake Bay, off West Shore Of Smith Island
I--Tangier Sound, between Entrances to Big and Little
Annemesses Rivers
J---Kover Tangier Sound
K--Outer Pocenske Sound
L--Inmor Pocenske Sound
M---Chesapeake Bay, off Kedge Straits
M---Waters of Smith Island

UNITED STATES COAST AND GEODETIC SURVEY C. C. Vates, Chief of Party

MANYLAND SHELL FISH COMMISSION Swopson Harle, Hydrographic Engineer

1907

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In general, the lines of soundings only cover the area of the natural cyster bars as indicated on the projections in green ink; and therefore, it will be useless to plot up a sheet for hydrographic information unless the waters in question are included in these oyster bar boundaries.

For Progress Map showing scheme of projections, etc., ace published report of Survey of Oyster Bars, Somerset County Maryland and Descriptive Report in Archives.

For Index showing relation of sounding and tidal records with projections, see the following statistics.

For purposes of the "Oyster Survey" several well established rales of the Coast and Geodetic Survey as to the manner and method of taking soundings have been modified or omitted in the sounding records. Notably, the jumping about from book to book without reference to the limits of the projections, the use of a "book letter" in addition to a volume number, and the substitution of letters and angle numbers by volume for letters and angle numbers by day. Homever, no difficulty will be experienced in plotting the work if the combined statistics, index and explanation attached to Volume I and to each projection is consulted.

EXPLANATION

These Statistics and Index cover all hydrography executed in connection with the "Oyster Survey" in Somerset County and adjacent waters of Maryland. All this work is contained in the sounding and tidal records on file in the Archives of the Eurvey, but only a part of it has been plotted on the projections. For purposes of an index to the hydrographic work, the boundary lines of oyster bars as shown on charts of cyster bars of Somerset County and Adjacent waters" published by the Eurvey, indicate very closely the area covered by soundings. Hence, it will not be necessary to plot up any of the hydrography covered by these statistics, UNLESS IT IS DESIRED TO INVESTIGATE THE WATERS INCLUDED IN THE OYSTER BOUNDARY LINES AS SHOWN ON THE PUBLISHED CHAPTS OF OYSTER BARS.

The following tables are self explanatory except as to column 2 and 3. The second column (under heading C.& C.S. Day Letter) gives the day letter as customarily used in the Survey, but the different colors, stated in parenthesis at the head of the column, indicate different series of alphabets not different sounding boats. The third column (under heading of M.S.F.C. Book Letter) gives the book letter of the Maryland Shell Fish Commission. This was adopted by the M.S.F.C. for purposes of their com. It really has no meaning except as an additional symbol for the volume number (Vol. No.) given in the 4th column. In this commection, attention is called to the fact that there are two sets of angle numbers in the sounding records. The ones in black pencil are peculiar to the book letter system described above, and occupy the ordinasymposition of day angle numbers. The ones in colored pencil arebine day angle numbers of the C.& G.S. and they occupy the column in the sounding record headed up " Boat head by Compase". These colored numbers correspond to such positions as were plotted on the projections, and are the ones that should be used in any future plotting that may be done on the sheets.

Attention is also called to another feature of the sounding records;-In the column under heading of "Remarks" one of the capital letters B, S, H, or D, Cocur opposite each sounding. These letters refer to the indications of the cyster shell character of the bottom as shown by vibration of a wire to which is attached a chain dragged over the bottom. This chain causes the wire to vibrate in proportion to the number of shells it is passing over, and the observer with his hand on the wire calls out at each sounding, the character of the bottom the vibrations indicate. For no vibrations the words "barren of shells" are used(B); occasional vibrations are named "acattering shells" (S); frequent vibrations are named " medium amount of shells" (D).

The "Miles of sounding lines" given in the sounding records at the end of each days work and those given on the labels of the books are in nautical miles; although the following statistics give the "statute miles" for each day; as is customary in the Survey.

In addition to the usual contents of tabular statistics, there has been added a column under the heading "Tide Vol. No.", which gives the "series numbers" of the tide record volume of Somerset County used in the reduction of soundings of the sounding record indicated on the same line of the table. These tide volume numbers are given on the bottom of the label of the tidal records and are in addition to the customary number which indicates merely the volume of tidal observations at one particular station. The following table shows the relation between the customary station number of the Tide Record Volumes and the " series numbers" given in these statistics.

Date	88	Locality	Tide Cauge	Serial No. (Statistics)	Vol. No. (Archives)
May 27 to 3	June 29	Tangier Sound	Janes Id. L.H.	I	I
July 16 to	Aug 30	Kedge Straits	Solomons Lump L.H.	II	I
Sept. 5 to S	Sept 16	Off Monie Bay	Great Shoals L.H.	III	I

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	te 07	C.a G.S. Day Letter	M.S.F.C. Book Letter	Vol-	Posi- tions	Sound- ings	Milos Sta-	Hyd. Sheet	Tide Vol.
		(rod)	910 0 0 QT.	No.			tute	Letter	No.
May		8	A	I	94	708	10.4	L	x
12	30	ъ	A	I	92	645	7.8	K ·	I
Juno		a	B	II	98	524	20.2	Jek	I
18 59	6	a	B	II	131	788	14.4	ð	X
	7	0	B	II	43	220	4.2	3	X
	10	\$	Q	III	40	198	3.9	I	I
63	13	6	0	III	27	135	2.6	I	I
	24	h	C	III	6	23	0.4	I	I
17 17	27	2	AoD	I-IV	105	776	10.4	Lok	I .
а ч	28	8	a	III	109	572	9.5	• 0	I
11	27	k	D	IV	20	228	3.1	L	I
July			E	A	67	554	14.7	Ħ	I
o coasy	19	n	E	V	69	515	15.2	Hom	II
R	22	11	E	V	54	307	20.4	D	II
11	23	0	0 F	III	89	735	15.0	FeG	II
18	24	đ	G	VI	40	315	6.5	FeG	II
#	25	2	F	VII	101	878	17.8	FeG	II
	26	ą	F	77	88	686	13.5	FeG	II
Attg		*	F	VI	25	290	4.2	P	II
11	2	n	G	VI VII	77	576	20.6	2	II
	3	7	H	VIII	69	476	30.4	G	II
17	5	W	H	VIII	5 90	37 can	0.6	¥sG	II
n	7	X		VIIOIX	52	637	11.5	G	II
0	6	3	T.	IX.	69	375 696	7.8	DeG	II
17	9	s	H	VIII	46	525	10.4	E	11
				TAAA	-TO	294	6.3	0	II
							da in		

A.S.

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Dat 19		C.& G.S. Day Lotter (blue)	M.S.F.C. Book Letter	Yol- une No.	Post- tions	Sound- ings	Miles Sta- tute	Ryd. Sheet Letter	Tide Volu No.
Aug.	13	8	J	x	49	306	6.2	F	II
n	20	ð	J	x	69	555	9.8	P	II
11	21	o	G _# J	VII-X	74	537	10.9	B _p F	II
n	27	a	Gøl	VII-IX	86	581	12.4	B	II
11	28	0	ĸ	XI	89	508	20.2	E,	II
99	29	2	R	XI	89	619	12.5	R	II
97	80	8	x	XI	29	212	4.0	C	II
Supt	. 6	h	L	XII	95	450	8.1	B	III
89	20	1	IgH	IX-XIII	205	572	10.9	B _o C	III
_ 17	12	3	n	XIII	72	504	9.7	B ₉ C	III
17	13	R	L	XII	126	605	22.8	Э	III
- 19	14	1	L	XIXI	20	86	1.6	В	III
17	16	m	L	XII	20	62	1.5	В	III

(2)

2943

COAST AND GEODETIC SURVEY O.H. Tittmann, Superintendent.

STATISTICS OF HYDROGRAPHY

TO ACCOMPANY HYDROGRAPHIC PROJECTIONS AND RECORDS RESULTING FROM THE SURVEY OF OYSTER BARS OF WICOMICO COUNTY MARYLAND MADE BY THE MARYLAND SHELL FISH COMMISSION IN COOPERATION WITH THE UNITED STATES COAST AND GEODETIC SURVEY

PROJECTIONS

A----Nanticoke River

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B---Entrance to Manticoke River and Wicomico River

UNITED STATES COAST AND GEODEFIC SURVEY C.C.Yates, Chief of Party

MARYLAND SHELL FISH COMMISSION Swepson Earle, Hydrographic Engineer

1907

NOTES: The primary object of the work covered by these statistics was the furnishing of information for the purposes of the "Oyster Survey". Consequently the hydrography does not necessarily fulfill all the requirements of customary hydrographic operations.

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For PROGRESS MAP showing scheme of projections, etc., see published report of "Survey of Cyster Bars", Wicomico County Maryland and "Descriptive Report" in Archives.

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Dat		C.& G.S. Day	M.S.F.C. Book	Vol-	Posi- tions	Sound- ings	Miles Sta-	Hyd. Sheet	Tide Vol.
190	07	Letter (red)	Letter	No.			tute	Letter	No.
Oct.	9	a	A	I	32	179	3.3	B	I
	10	ъ	A	I	113	638	10.4	B	I
*	11	0	A	I	105	690	11.6	B	I
	18	٩	B	II	94	417	7.7	A	I
"	19	0	B	II	62	312	5.4	A	I
11	22	f	B	II	82	350	5.7	A	I
	23	g	В	II	34	184	3.5	В	I
н	24	h	0	III	37	177	3.1	A	I
"	25	1	σ	III	69	327	5.4	A	I
Ħ	31	J	C	III	26	113	1.7	A	I.
Nov.	11	k	C	III	16	65	1.2	A	I+

Note;

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Tide observations for all of Wicomico County will be found in Tide Volume No. I at Great Shoals Light, Maryland - 1907.

* Tides not observed on this day.

V.E.C. Nov.3,1908.

HYDROGRAPHIC SHEET 2944.

Tangier Sound, Wicomico River and Mouth of Nanticoke River, Maryland, by Asst. C. C. Yates and Swepson Earle, 1907.

TIDES.

	Great Shoals Light House	Solomons Lump Light House
Mean low water, or plane of reference on staf:	ft. f 1.80	ft. 1.72
Lowest tide observed " "	1.00	1.10
Highest " " "	5.10	4.20
Mean rise and fall of tides	2.46	1.68

Const and Geodetic Survey NOV 3 1908 TIDAL DIVISION.