NOAA FORM 76-35A

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

DESCRIPTIVE REPORT

Type of Survey						
Field No						
LOCALITY						
Maryland State						
General Locality Chesapeake Bay Sublocality West Shore of Kedge Strait						
19 07						
CHIEF OF PARTY C. C. Yates						
LIBRARY & ARCHIVES						
DATE						

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

STATISTICS OF HYDROGRAPHY

TO ACCOMPANY HYDROGRAPHIC PROJECTIONS AND RECORDS RESULTING FROM THE SURVEY OF CYSTER BARS OF SOMERSET COUNTY MARYLAND MADE BY THE MARYLAND SHELL FISH COMMISSION IN COOPERATION WITH THE UNITED STATES GOAST AND GEODETIC SURVEY.

PROJECTIONS

水准备水面水水水水水水水水水水水水水水水水水水水水水水水水水水

Be--Wicomico River and Houth 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 Annemessex Rivers

F-Manokin River

G-Big Annemessex River

H --- Chesapeake Bay, off West Shore of Smith Island

I -- Tangier Sound, between Entrances to Big and Little Annemesser Rivers

J---Lower Tangier Sound

K---Outer Pocomoke Sound

L---Inner Pocomoke Sound

M---Chesapeske Bay, off Kedge Straits

N-Waters of Smith Island

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

维特南京水影像南非市南北京 中京水水市市南南市市市市市市

MARYLAND SHELL FISH COMMISSION Swepson Barle, Hydrographic Engineer

MOTES: 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.

In general, the lines of soundings only cover the area of the natural oyster 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., see 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 rules of the Coast and Gasdetic Survey as to the manner and method of taking soundings have been modified or emitted 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. However, no difficulty will be experienced in plotting the work if the combined statistics, index and explanation dattached to Volume I and each projection

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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 Survey, 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 Survey, 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 CYSTER BOUNDARY LINES AS SHOWN ON THE PUBLISHED CHARTS OF CYSTER BARS.

The following tables are self explanatory except as to column 2 and 3.

The seend 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 own. It really has no
meaning except as an additional symbol for the volume number (Vol. No.) given
in the 4th column. In this connection, attention is called to the fact that
there are two sets of angle numbers in the sounding records. The one in black
pencil are peculiar to the book letter system described above, and occupy the
ordinary position of day angle numbers. The ones in colored pencil are the day
angle numbers of the C.& G.S. and they occupy the column in the sounding record
headed up " Boat head by Compass".

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, M,
or D, occur 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 "scattering shells" (S);
frequent vibrations are named "medium amount of shells" (M); and continuous
vibrations and jerks are named "dense 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 volumn numbers are given on the bottom of the label of the tidel records and are in addition to the customery 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	Locality Tide Gauge		Serial No.	Vol. No.	
May 27 to June 29	Tangier Sound	James Id. L.H.	(Statistics)	(Archives)	
July 16 to Aug. 30	Kedge Straits	Solomons Lump L.H.	II	ı	
Sept. 5 to Sept 16	Off Monie Bay	Great Shoals L.H.	III	I	

Dat		C.& G.S. Day Letter	M.S.F.C. Book Letter	Vol- ume No.	Posi- tions	Sound- ings	Miles Sta- tute	Hyd. Sheet Letter	Tide Vol.
190		(red)			04	mon	10.4	L	I
May		8.	Δ	I	94	708			
11	30	Ъ	A	I	92	645	7.8	K	I
June	4	c	3	II	98	524	10.2	J.K	I
11	6	d.	В	II	131	788	14.4	J	I
	7	е	В	II	43	220	4.2	J	I
11	10	2	a	III	40	198	3.9	I	I
11	13	6	G	III	27	135	2.6	I	I
17	14	h	C	III	5	23	0.4	I	I
n	27	1	A,D	I-IV	105	776	10.4	Lek	I
n	18	3	C	III	109	572	9.5	G	I
17	27	k	D	IV	20	228	3.1	L	I
n	28	1	E	٧	67	554	14.7	M	I
July	18	m	E	V	69	515	13.2	H,M	II
11	19	n	E	V	54	387	10.4	D	II
n	22	0	C	III	89	753	15.0	F,G	II
11	23	P	F	AI	40	315	6.5	F.G	II
11	24	q	0	AII	101	878	17.8	F,G	II
17	25	r	F	VI	85	686	13.5	F.G	II
11	26	8	F	AI	25	190	4.2	F	II
Aragi.	1	t	F	VI	77	576	10.6	F	II
**	2	u	Q.	AII	69	476	10.4	G	II
· · · · · ·	3	7	H	VIII	Б	37	0.6	N.G	II
11	5	w	H	AIII	90	637	11.5	Q.	II
10	7	×	G,I	VII-IX	52	375	7.8	D,G	II
11	8	y	I	IX	69	525	3.0.4	E	II
tt	9	я (H	AIII	46	294	6.3	G	II

Da	te	C.& G.S. Day	M.S.F.C. Book	Vol-	Posi- tions	Sound-	Miles Sta-	Hyd. Sheet	Tide Vol.
19	07	Letter (blue)	Letter	To.	0.40110	~60	tute	Letter	No.
Aug.	15	8	3	X	49	306	6,2	F	II
**	20	ъ	2	x	89	555	9.8	F	II
***	21	G	G _p J	AII-X	74	637	10.9	E.F	II
11	27	d	G,I	VII-IX	86	581	11.4	E	II
10	28	0	K	XI	79	508	10.2	E	II
11	29	2	K	XI	89	619	12.5	E	II
. 11	30	g	K	XI	29	212	4.0	O	II
Sept	. 6	h	r	KII	95	450	8.1	В	III
11	10	1	E,M	IX-XIII	105	572	10.9	B,C	III
n	12	3	M	XIII	71	504	9.7	B,0	III
19	13	k	L	XII	126	605	11.8	В	III
n	14	1	L	XII	20	84	1.6	В	III
**	16	m	L	XII	20	82	1.5	В	III

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

HYDROGRAPHIC SHEET 2955.

West Shore off Kedge Strait, Maryland, by Asst. C. C. Yates and Swepson Earle, 1907.

TIDES.

	Janes Island Light House
Mean low water, or plane of reference on staff	ft. 3.94
Lowest tide observed " "	3.20
Highest " " " "	6.95
Mean rise and fall of tides	1.78

NOV 3 1908

MARYLAND OYSTER SURVEY

CERTIFIED PROJECTION

1907

Somerset County

Matural Cystor Bars Crab Bottoms Clam Beds

Triangulation Stations

MARKIAND SHELL FISH COMMISSION U. S. BUREAU OF PISHERIES GEODETIC SURVEY Scale 1/10,000

The primary object of the work covered by the projections of the waryland The Primary object of the work covered by the projections of the "aryland cyster Survey was the gathering of information for the purposes of an "oyster Survey " Consequently these sheets do not fulcate the manufacturing of an "oyster" Oystor Survey was the gathering of information for the purposes of an "oysto authory,"

Sonsequently these sheets do not fulfill the requirements of an it is infeeded that they shall be used Survey." Consequently these sheats do not fulfill the requirements of an ordinary hydrographic survey. But it is intended that they shall be used for an interpretations of the hydrography conferred in the management of an experimental of any interpretations. ordinary hydrographic survey. But it is intended that they shall be used for contained in the records of SCUNDINGS

In general, the lines of soundings only cover the vicinity of the natural in the manufacture and the matter of the interest of the matter of t In general, the lines of soundings only cover the vicinity of the matural oys for bere outlined in green ink on these Projections, and therefore, it will oyster bars outlined in green ing on these projections, and therefore, it be useless to plot the soundings unless information is desired for these perficular localities. For the same reason, the boundaries of the Natural Particular localities. For the same reason, the boundaries of the Watural Cyster Bare shown on the Maryland Cyster Survey Charts, Nos. 1 to 42 Fublished as a canada in the same as a canada index of the Cyster Bare shown on the Emyland Cyster Survey Charts, Nos. 1 to 42 Published by the U.S. Coast and Goodstin Survey, can be used as a general index of the Emyland Ovatar Survey. by the U. S. Const and Decousted Survey, can so used as limits of the hydrography of the Laryland Cyster Survey.

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

Boundaries of Matural Cyster Bars are indicated by green lines.

Boundaries of Crab Rottons, when on projections, are indicated by blue lines. Boundaries of Claim Bods, 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 oveter ber and other boundaries established by the Maryland Projections of all Oyeter ber and other boundaries established by the Maryland Charles and Canadatic Survey on the Maryland Constant Canadatic Survey on the Maryland Canadatic Survey on the Maryland Canadatic Survey on the Maryland Canada C Cyster Survey and was filed in the srenives by C. C. Fates, representative of the U. S. Coast and Geodetic Survey on the work of the Maryland Cyster Survey.

Balto. 6/16/13