7821

Diag. Cht. No. 1007-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. HY-20149 *Office No.* H-7821

LOCALITY

State FLORIDA

General locality GULF OF MEXICO

Locality SOUTHWEST OF TAMPA BAY ENTRANCE

19~~4~~50

CHIEF OF PARTY

G. L. Anderson

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DATE NOVEMBER 9,1953

B-1870-1 (1)

7821

Form 537
(Ed. June 1946)

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. H 7821

Field No. Hy 20149

State Florida

General locality Gulf of Mexico

Locality Southwest of Tampa Bay Entrance

Scale 1/ 200 000 Date of survey 8/11/50 thru 12/13/50

Instructions dated 9/26/46: Sup. 7/9/47, 10/6/48, 3/15/49, 7/17/50 & 9/1/50.

Vessel HYDROGRAPHER

Chief of party George L. Anderson

Surveyed by Officers attached to ship during 1950 season.

Soundings taken by fathometer, graphic recorder, ~~hand lead, wire~~

Fathograms scaled by Wm.M.Martin* Ship's personnel under officer supervision;

Fathograms checked by " " " " "

Protracted by Seattle Harvey C. Parsons

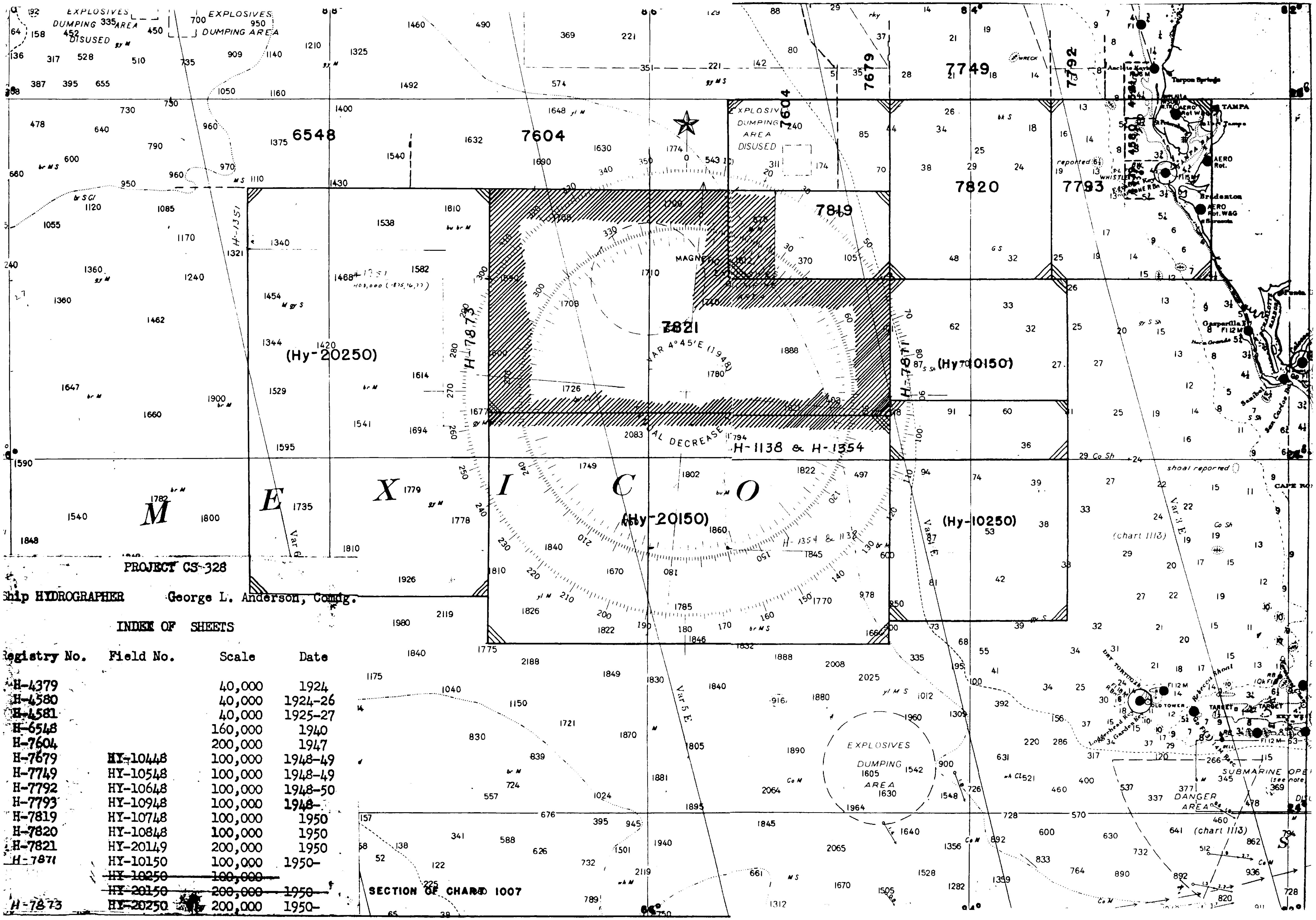
Soundings penciled by Harvey C. Parsons

Soundings in fathoms ~~feet~~ at MLW ~~MLLW~~

REMARKS: Offshore survey - control by ~~EPI system.~~

* Scanning in processing office for direct plotting on smooth sheet.

U. S. GOVERNMENT PRINTING OFFICE 693019



PROJECT CS-328

Ship HYDROGRAPHER George L. Anderson, Comdg.

INDEX OF SHEETS

Registry No.	Field No.	Scale	Date
H-4379		40,000	1924
H-4580		40,000	1924-26
H-4581		40,000	1925-27
H-6548		160,000	1940
H-7604		200,000	1947
H-7679	HY-10448	100,000	1948-49
H-7749	HY-10548	100,000	1948-49
H-7792	HY-10648	100,000	1948-50
H-7793	HY-10948	100,000	1948-
H-7819	HY-10748	100,000	1950
H-7820	HY-10848	100,000	1950
H-7821	HY-20149	200,000	1950
H-7871	HY-10150	100,000	1950-
	~~HY-10250~~	~~100,000~~	
	~~HY-20150~~	~~200,000~~	~~1950-~~
H-7873	HY-20250	200,000	1950-

DESCRIPTIVE REPORT

To Accompany

HYDROGRAPHIC SURVEY H-7821 (HY-20149 a & b)

Ship HYDROGRAPHER Scale 1:200,000

11 August - 13 December 1950

Chief of Party
George L. Anderson

A. PROJECT

This survey was made under Instructions from the Director to the Commanding Officer, Ship HYDROGRAPHER, for Project CS-328 dated 26 September 1946; amended by Supplemental Instructions dated 9 July 1947, 6 October 1948, 15 March 1949, 17 July 1950 and 1 September 1950.

B. SURVEY LIMITS AND DATES

This survey is offshore from and approximately 125 miles south west of Tampa Bay Entrance, Florida. An index of adjacent hydrographic sheets is attached.

Starting on the north and proceeding thru the east, south and west to the point of beginning this survey joins:

1. Survey H-7604 (1947-48), Scale 1:200,000, surveyed during 1947
2. Survey H-7819 (1950), Scale 1:100,000, surveyed during 1950
3. Survey H-7871 (1950), Scale 1:100,000, surveyed during 1950
4. Survey H-1138, Scale 1:600,000, surveyed during 1872
5. Survey H-1354, Scale 1:600,000, surveyed during 1875-76
6. Survey H-7873 (1950), Scale 1:200,000, surveyed during 1950

see P 4 of Review

This survey joins modern contemporary surveys on its western, northern and eastern limits. On the eastern half of the southern limit a junction is effected with reconnaissance surveys H-1138 & H-1354. The index of sheets furnished this party does not show the surveys west of these two surveys in this area.

B. (Cont.)

The field work on this survey was started on 11 August and was completed on 13 December 1950. This survey was one of many made with the ship based at St. Petersburg, Florida. Part of the hydrography was run on the way to and from the survey to the westward of this area.

Survey H-7872 (20150) was started this year. The only hydrography accomplished was one line, with development on the eastern end, run enroute to port from Survey H-7873. This work can be plotted on Survey H-7821 and is submitted as part of this survey. The number of the boat sheets has been changed from HY-20149 and HY-20150 to HY-20149a and HY-20149b, respectively. The day letters have been changed on all the records for HY-20149b, except the boat sheet, to blue. This step was taken after receipt of the Director's letter of 18 January 1951 discontinuing the EPI surveys for the present time in this area. The Washington Office was advised of this action on 23 January 1951 by letter.

C. VESSEL AND EQUIPMENT

All work on this survey was accomplished by the Ship HYDROGRAPHER. No subparties were operated from the ship on this survey.

The Ship HYDROGRAPHER has a turning radius of 80 to 120 meters depending on the wind and/or current.

Two 808J type depth recorders and a NMC-1 fathometer were used as sounding units on this survey. The 808 type units were used in water of less than 160 fathoms and the NMC-1 was generally used in greater depths. The installation of the 808 type machines was such that either could be used at will and both are considered regular units and neither a standby. When shifting from one type machine to the other the two were operated simultaneously for a short period to assure the correct operation of the machines. The recorded soundings in the sounding volumes were read from the visual red light to the nearest fathom. (See the Commanding Officer's comment on page 14, volume 1, Survey H-7819). All fathograms are also submitted with this survey.

Between the 14 October and 24 October while the ship was in port a special gear was installed in the NMC-1 recording unit. This gear

C. (Cont.)

increased the travel speed of the chart paper four times its normal rate. The increase in paper speed did not affect the speed of the stylus arm or the disc on the visual red light. This increase in speed made for a much clearer record especially on the deep scale.

Frequent simultaneous comparisons were made during the 1950 season with the wire soundings to obtain corrections and to assure the correct operation of the fathometers at all times. Refer to the reports on Velocity Corrections and Initial and Instrumental Corrections for additional details. | spec. Report.

The gyroscope compass was used at all times while the survey was in progress. Bearings were taken when proceeding in and out of port and sun azimuths on the working grounds to check the operation of the compass. The error was found to be negligible.

D. TIDE AND CURRENT STATIONS

No tide or current stations were occupied within the limits of hydrography on this survey.

The observed tides at the Tampa Bay, Florida, Primary Tide Station located at St. Petersburg were used for the reduction of soundings. (See Tidal Note for additional information).

E. SMOOTH SHEET

The smooth sheet is being processed by the ~~Norfolk~~ Seattle Processing Office.

F. CONTROL STATIONS

The hydrography on this survey was controlled by two EPI shore stations, Station EPICC at Cedar Keys and Station EPID at Venice. These stations were located by subparties working from the Ship HYDROGRAPHER by inspection of and/or short traverse on planimetric maps of the areas.

Station	Latitude	Longitude
EPICC - Cedar Keys	29° 07' 48".0 (1478 m.)	83° 03' 07".7 (207 m.)
EPID - Venice	27 04 53.4 (1643 m.)	82 26 47.7 (1314 m.)

F. (Cont.)

The length of base line between EPICC and EPID is 145.8 statute miles. The least angle of intersection on this survey between any pair of arcs is approximately 27 degrees.

For control used in the location of fixed buoys off Tampa Bay Entrance refer to the applicable reports as listed under paragraph Z.

G. SHORELINE AND TOPOGRAPHY

This is an offshore survey.

H. SOUNDINGS

The corrections to the soundings on this sheet were computed as outlined in the special reports. See paragraph Z for the dates the applicable reports were forwarded. (See ¶ Z for where reports are filed)

All soundings shown on the sheet were taken with 808J type depth recorder Nos. 131 SG & 132 SG or NMC-1 type fathometer No. 205. The 808 type depth recorders were used to a general depth of 160 fathoms. In greater depths the NMC-1 fathometer was used. The shift from the shoal scale to the deep scale on the NMC-1 fathometer was usually made when the soundings were between 750 and 790 fathoms. The effective length of the stylus arm for these machines was determined and checked. The speed of the 808 type machines was checked against the fathogram as described in paragraph 5554 of the Hydrographic Manual. Frequent additional checks were made during the season to assure the continued correct operation of the instruments. The speed of the 808 type depth recorders was also checked frequently on the fathom scale by counting the number of turns of the stylus arm with the middle reed vibrating at its maximum amplitude. There were times when the governor on the 808 type machines failed to function properly. This accounts for a large displacement of the true soundings on numerous occasions during the 1950 field season. Notes have been made on the fathogram throughout the season (prior to the installation of the modified system of recording they were also made in the record books) when this happened. These soundings should not be used unless proper correctors are applied.

H. (Cont.)

The speed of the NMC-1 type fathometer is controlled by a tuning fork. When sounding on the shoal scales the stylus arm makes thirty (30) complete turns every sixty seconds and the disc for the visual red light soundings makes sixty (60) turns every sixty seconds. On the deep scales both the disc and the stylus arm turn one-fifth (1/5) as fast as on the shoal scale. The change in speed of the paper (see paragraph B) did not affect the speed of the stylus arm or disc on the visual soundings.

During periods of rough weather as encountered on 7 October (80 L - 88 L) for example it was impossible to obtain soundings while headed into the seas. The engines were stopped and the ship allowed to lose headway until returns were obtained on the fathometer (red light). As soon as a good sounding was obtained the vessel would be run ahead on course at slow speed for a period of time when the process would be repeated.

The method of recording was modified on Instructions from the Director. Please refer to the Director's Letter dated 22 August 1950 - reference 22/MEK, S-1-HY; memorandums from the Chief, Division of Charts to the Assistant Chief, Division of Coastal Surveys dated 7 August 1950 and "Explanatory Notes - Use of Fathogram Scanner and Graphic Reducers" for the outline of the methods to follow and the aims to be accomplished by the use of this modified method. Copies of this correspondence ~~is~~ are attached to the Report for Survey H-7793. A detailed description of the steps taken to put this system into effect is given in the Report "Method of Recording Hydrographic Data". Spec. Report | Spec. Report

F day (15 September 1950) was the last day that the conventional system of recording EPI controlled hydrographic data was used on this survey. Beginning with position 1 G (16 September 1950) the soundings on this survey were recorded as described in paragraph 817 of the Hydrographic Manual. This system was modified (except as noted below) to the extent that a two minute sounding interval was used and the soundings recorded in every other column - the intermediate columns being used to record the extra soundings as needed. As an added check against the loss of the control data as recorded on the EPI plotting abstracts, the recorder entered all control data on the right hand page of the records.

H. (Cont.)

The fathograms have the following notation made on them:

(A) Fix marks, fix number, correct time on at least every fifth position mark and the phase settings.

(B) The velocity template to be used is noted at the beginning of each fathogram and at each change of velocity.

(C) Whenever a change occurs in the algebraic sum of all correctors (except velocity) the new corrector is entered at the bottom of the fathogram on the proper time ordinate. An abstract of the computations of these correctors is a part of this report.

In computing the correctors for use with the templates on the 808 graphs a mean setting of 2 fathoms was used. The correctors as shown on the bottom of the 808 fathograms should be set off from ~~this value~~ *the printed zero of the fathogram*.

On the NMC-1 type machine the initial setting of the red light and the initial setting of the chart were set together. The initial reading on the red light was set at zero fathoms. The correctors for use with templates for the NMC-1 fathometer were computed taking this setting into account. The correctors as shown on the bottom of the NMC-1 fathograms should be set from the initial as drawn on this graph; the printed scale, including the zero line should be ignored completely when using the templates. These correctors can be used with either the chart or with the red light soundings.

It is recommended that the zero of the template be set on the zero line as drawn on the fathogram in depths of water over 101 fathoms as the largest corrector to be applied is 2 fathoms.

There are numerous places on the fathograms where the soundings did not record properly due to unsatisfactory operation of the recording unit. When this condition could be anticipated (sounding along the slope at the break from the continental shelf) the soundings were read every minute and recorded vertically (as formerly). On these occasions the velocity corrections is entered in the first column and the sum of all other correctors (from the attached abstract) is entered in the last column. This corrector includes the tide correction.

H. (Cont.)

This corrector is the same for either the visual read soundings or those recorded on the fathogram. It was not necessary to recompute the correctors to enter in the sounding volumes when this method was used. The reduced soundings are entered in the proper column. In checking on the fathograms it was found that for various reasons the graph was not clear. When this condition exists the corrector as taken from the abstract is combined algebraically with the velocity corrections and entered in the sounding volumes as one corrector. The reduced sounding is shown under the recorded sounding and the reducer.

Given below are the day letter and the position numbers of the places where these auxiliary methods are used:

On Survey HY-20149a (H-7821)

1. 18 G to 28 G	2. 103 H to 110 H	3. 20 K to 34 K
4. 51 L to 28 M	5. 12 N to 21 N	6. 43 P to 49 P
7. 71 P to 7 Q	8. 126 Q to 129 Q	9. 11 R to 20 R
10. 14 S to 19 S	11. 51 S to 53 S	12. 56 S to 57 S
13. 1 T to 12 T	14. 1 V to 26 V	15. 60 V to 68 V

On Survey HY-20149b (H-7821)

1. 1 A to 3 A	2. 14 B to 22 B	3. 19 D to 23 D

Summaries of all applicable reducers are attached to this report.

I. CONTROL OF HYDROGRAPHY

All hydrography on this survey was controlled by the EPI system using stations EPICC and EPID. The boat sheets were prepared partly by the Washington Office and partly by the Norfolk Processing Office and forwarded to this party. Special test buoys were planted near shore and on the working grounds to obtain corrections to the EPI distances received during hydrographic operations. For the explanation of the use of these buoys and the correctors derived see the applicable reports. (None of the test buoys are within the limits of this survey).

I. (Cont.)

After the new system of recording was installed on G day the EPI plotting abstract became the record for all plotting data. The value of the final EPI corrections for reducing the observed EPI distances to the correct distances has been entered in red at the top of the columns for recording the microsecond distances on these abstracts. The preliminary correctors (field values for plotting on the boat sheet) have been crossed out with the red pencil. The correct values for the reduced distances have been entered in red after applying the final correctors. When a change in the correctors occurs the old and the new values with proper notes are entered in the remarks column.

The observed EPI distances have been entered at the top of the horizontal space. This enables the entering of the corrected distance opposite the time the fix was taken which is the recorded value on the bottom of the horizontal spaces and under the time column. Except at the beginning or the end of lines the EPI fixes were observed at ten minute intervals (ie., 0000, 0010, 0020, 0030, etc.). In some instances this interval was reduced to five minutes for additional control. Other recorded times are to indicate when changes of course, speed and other items that affect the plotting took place.

J. ADEQUACY OF SURVEY

This survey is complete and adequate to supersede prior surveys for charting except as noted under paragraph L & M below. All junctions with contemporary adjoining surveys are satisfactory, no holidays or excessive differences exist. The large apparent differences in the deep water along the northern limits of this survey and the southern limits of the older surveys is due to the velocity corrections not being applied on the boat sheet. These differences will be smoothed out when the final processing is completed. All depth curves can be drawn at the junctions with the other surveys without conflict after the above adjustment is made.

Depth curves (as shown in the schedule on 20149 a) were drawn as the survey progressed and have been inked on 20149a. They were left in pencil on 20149b.

K. CROSSLINES

Approximately 8% of the hydrography on this survey is crosslines. No excessive discrepancies were noted on the boat sheet.

L. COMPARISON WITH PRIOR SURVEYS
M. COMPARISON WITH EXISTING CHARTS

Satisfactory junctions were obtained with the surveys listed in paragraph B above. This survey supersedes in part the following surveys:

1. Survey H-1138, Scale 1:600,000, surveyed during 1872
2. Survey H-1351, Scale 1:400,000, surveyed during 1875-77
3. Survey H-1354, Scale 1:600,000, surveyed during 1875-76

See P 5 of Review

These old surveys are the source of part of the hydrography shown on Chart 1007 (print date 3/3/50) in the area covered by this modern survey. The source of the soundings shown in the southwest part of the area covered by H-7821 was not furnished this party.

See P 6 of Review

The soundings from the older surveys listed above and those shown on the chart are generally in agreement with the depth measured on this survey. The methods of sounding and of controlling the sounding vessel's position are superior to that used on the older surveys. It is recommended that this survey supersede all the older surveys in the area covered by the hydrography on this modern survey.

N. DANGERS AND SHOALS

No dangers or shoals were found within the limits of this survey.

P. AIDS TO NAVIGATION

No aids to navigation are located within the limits of this survey.

Z. TABULATION OF APPLICABLE DATA

The data listed below were forwarded to the Washington Office as indicated:

Z. (Cont.)

Date	Data
3/18/49	Location Data for Station EPICC
5/18/50	Report on Calibration of Registering Sheaves Spec. Report
11/1/50	Report on Settlement and Squat Tests Spec. Report
1/6/51	Methods of Recording Hydrographic Data Spec. Report (Filed in Library)
1/9/51	Season's Report for 1950 (Filed in Library)
1/15/51	EPI Correctors for 1950 (Filed in Library)
1/17/51	Report on Velocity Corrections for 1950 (S-3102)
1/18/51	Report on Initial and Instrumental Corrections for 1950 See H 7871 (S-3102)

The sounding volumes, fathograms, EPI plotting abstracts, boat sheet and related material are being forwarded to the Officer in Charge, ~~Norfolk~~ Seattle Processing Office.

J. E. Waugh

J. E. Waugh
LCdr., USC&GS

APPROVAL SHEET

The field work accomplished on this survey was under the immediate supervision of Commander George L. Anderson. He made daily inspections of the records, fathograms and boat sheet as the survey progressed. He was detached after the 1950 field season and prior to the completion of this report.

The sounding volumes, fathograms and boat sheet as submitted to the ~~Norfolk~~ Seattle Processing Office have been reviewed and approved by Commander Anderson.

Jack C. Sammons

Jack C. Sammons
Commander, USC&GS
Commanding Officer
Ship HYDROGRAPHER

H 7821
Hy 20149

Gulf of Mexico.

Processing Office Notes.

Smooth sheet.

The projection was ruled by hand on Whatman paper. To control the distance arcs points were computed on three lines radial to EPI-CC and on two lines radial to EPI-D. The distances along the radii were subdivided carefully into 100 M/S intervals and the arcs were drawn thru these points.

For this sheet, as for others, we have checked the positions obtained for points on the arcs (1st order form) with computations made on the ~~Loran~~ EPI method. The ~~Loran~~ EPI computation gives a point which plots on the arc but to one side of the 1st order computed point. It falls towards the east point or west point from the first order computation, and two or three or four millimeters from it depending on radius and bearing. Points on azimuth 90° and 270° coincide with the 1st order point, graphically that is. The ~~Loran~~ EPI points serve us just as well as the 1st order points because we are interested in getting a point on the arc, not necessarily on a geodetic azimuth. The ~~Loran~~ EPI method is a simpler computation but it requires a lot of interpolation.

When we label an EPI arc 2600 M/S we mean that the go and come time is 2600 M/S, and when computing we take this distance from the table in the Journal, April 1950, Page 62. When using the ~~Loran~~ EPI tables half this distance is used.

We wish to note further that in computing long distances on the 1st order form it is our habit to test the result by breaking up the distance into shorter lengths, computing the first length and the azimuth correction, and continue ahead on the next length with the corrected azimuth. This is usually done when distances exceed 2000 M/S (2000 X 149.9M.). The acceptability of differences depends of course on scale. We are interested in points that are accurate graphically at the scale of that sheet.

Here is an example of a point near the Pribilof Is. in Bering Sea, 2600 M/S on Az.33°45'from EPI-NUNI on Nunivak I. The first position was computed on the 1st order form with 2600 M/S(2600 X 149.9 M.) as the distance. The next point was obtained from two computations, one 1300 M/s on Az. 33°45' from NUNI and the second 1300 M/S on Az. 32°08'57.5" from the preceeding point. The third point below is a ~~Loran~~ EPI computation which falls on the arc 2.1 mm westward of the first order point.

From EPI-NUNI	2600 M/S	Az.	33°45'	57°05'54.289"	170°48'37.252"
at h 60 03	1300 + 1300 M/s		33 45	54.404	37.264
	2600/2 MS.		33 45	57.11	46.151

The scale of this sheet was 1/100 000, or 10 met. is 0.1 mm.

Positions.

There were times when the EPI returns were erratic, as from 94Q to 144Q and from 87N to 19P. These were adjusted, holding the points that appeared to be correct and using a distance here and there when suitable. Occasional points out of line and not consistent with course changes and time have been plotted on line.

Soundings.

Soundings of A day thru F day were recorded in the sounding records and corrected in the conventional manner. Much of this was read on the read light and not from the profiles which were maintained. Beginning with G day Sept.16 1950 soundings for smooth sheet were scanned directly from the profiles using template indicated on the graph and offset for corrections as noted on the fathograms.

Some crossings were found unsatisfactory. As the red light could not be checked a table of corrections was made for the profiles concerned and this part of the work was re-scanned with the correction templates. The crossings were much improved and are considered satisfactory in view of the fact that small errors in reading the profiles are multiplied by five. A ten fathom difference in the deep water is considered good.

The correction table for this re-scanned work is in red pencil, in this report. The parts so re-scanned have been noted in the sounding record, and the corrections were entered on the profiles.

Edgar E. Smith

Edgar E. Smith
Cart. Engr. 30 October 1953

INSTRUMENTAL CORRECTIONS

1950

Abstract of Instrumental Corrections including the correction for Settlement and Squat.

Surveys: Chart 1007; H-6548; H-7723 (10148); H-7749 (10548); H-7792 (10648); H-7793 (10948); H-7818 (10248); H-7819 (10748); H-7820 (10848); H-7821 (20149); H-7871 (10150); H-7872 (20150); H-7873 (20250).

FOOT SCALES

Fath. No.	Date	Scales:	A	B	C	D
131 SG	2 - 27 May	Speed:	120 RPM and over			
		Corrn:	- 0.5	- 0.5	+ 2.0	+ 4.0
		Speed:	106 RPM to 119 RPM incl.			
		Corrn:	- 1.0	- 1.0	+ 1.5	+ 3.5
		Speed:	105 RPM and under			
		Corrn:	- 1.5	- 1.5	+ 1.0	+ 3.0
	5 June - 15 December	Speed:	120 RPM and over			
		Corrn:	0.0	+ 0.5	+ 2.5	+ 4.5
		Speed:	106 RPM to 119 RPM incl.			
		Corrn:	- 0.5	0.0	+ 2.0	+ 4.0
		Speed:	105 RPM and under			
		Corrn:	- 1.0	- 0.5	+ 1.5	+ 3.5

FATHOM SCALES

131 SG	2 - 27 May		CORRECTORS TO 0.1 FATHOM			
		Speed:	108 RPM and over			
		Corrn:	- 0.1	- 0.7	+ 1.9	+ 4.0
		Speed:	107 RPM and under			
		Corrn:	- 0.2	- 0.8	+ 1.8	+ 3.9
			CORRECTORS TO 0.2 FATHOM			
		Speed:	All speeds			
		Corrn:	- 0.2	- 0.8	+ 1.8	+ 3.8

Comp: JEW
CK: NET
WPK

FATHOM SCALES

Fath. No.	Date	Scales:	A	B	C	D
131 SG	2 - 27 May		CORRECTORS TO 0.5 FATHOM			
		Speed:	All speeds			
		Corrn:	- 0.5	- 1.0	+ 2.0	+ 3.5
	5 June 15 December		CORRECTORS TO 0.1 FATHOM			
		Speed:	108 RPM and over			
		Corrn:	- 0.1	+ 0.4	+ 2.4	+ 4.3
		Speed:	107 RPM and under			
		Corrn:	- 0.2	+ 0.3	+ 2.3	+ 4.2
			CORRECTORS TO 0.2 FATHOM			
		Speed:	All Speeds			
		Corrn:	- 0.2	+ 0.2	+ 2.2	+ 4.2
			CORRECTORS TO 0.5 FATHOM			
		Speed:	All speeds			
		Corrn:	- 0.5	0.0	+ 2.0	+ 4.0

FOOT SCALES

132 SG	2 May - 0231 19 May	Speed:	120 RPM and over			
		Corrn:	- 0.5	- 1.5	0.0	+ 1.5
		Speed:	106 RPM to 119 RPM incl.			
		Corrn:	- 1.0	- 2.0	- 0.5	+ 1.0
		Speed:	105 RPM and under			
		Corrn:	- 1.5	- 2.5	- 1.0	+ 0.5
	0232 19 May - 0952 19 May	Speed:	120 RPM and over			
		Corrn:	+ 1.0	+ 8.0		
		Speed:	106 RPM to 119 RPM incl.			
		Corrn:	+ 0.5	+ 7.5		
		Speed:	105 RPM and under			
		Corrn:	0.0	+ 7.0		

Comp: JEW
Ck: NET
WRK

FOOT SCALES

Path. No.	Date	Scales:	A	B	C	D
132 SG	1210 19 May- 20 September	Speed:	120 RPM and over			
		Corrn:	+ 0.5	- 0.5	+ 0.5	+ 2.5
		Speed:	106 RPM to 119 RPM incl.			
		Corrn:	0.0	- 1.0	0.0	+ 2.0
		Speed:	105 RPM and under			
		Corrn:	- 0.5	- 1.5	- 0.5	+ 1.5
	23 September 15 December	Speed:	120 RPM and over			
		Corrn:	0.0	- 0.5	0.0	+ 2.0
		Speed:	106 RPM to 119 RPM incl.			
		Corrn:	- 0.5	- 1.0	- 0.5	+ 1.5
		Speed:	105 RPM and under			
		Corrn:	- 1.0	- 1.5	- 1.0	+ 1.0

FATHOM SCALE

2 May - 0231 19 May		CORRECTORS TO 0.1 FATHOM			
	Speed:	108 RPM and over			
	Corrn:	0.0	- 1.0	0.0	+ 1.8
	Speed:	107 RPM and under			
	Corrn:	- 0.1	- 1.1	- 0.1	+ 1.7
1210 19 May - 20 September		CORRECTORS TO 0.1 FATHOM			
	Speed:	108 RPM and over			
	Corrn:	0.0	- 0.7	+ 0.2	+ 1.7
	Speed:	107 RPM and under			
	Corrn:	- 0.1	- 0.8	+ 0.1	+ 1.6
		CORRECTORS TO 0.2 FATHOM			
	Speed:	All Speeds			
	Corrn:	- 0.2	- 0.8	0.0	+ 1.6
		CORRECTORS TO 0.5 FATHOM			
	Speed:	All speeds			
	Corrn:	0.0	- 1.0	0.0	+ 1.5

Comp: JEW
Ck: NET
WRK

FATHOM SCALE

Fath. No.	Date	Scales:	A	B	C	D
132 SG	23 September 15 December		CORRECTORS TO 0.1 FATHOM			
		Speed:	108 RPM and over			
		Corrn:	+ 0.1	- 0.3	+ 1.3	+ 3.1
		Speed:	107 RPM and under			
		Corrn:	0.0	- 0.4	+ 1.4	+ 3.2
			CORRECTORS TO 0.2 FATHOM			
		Speed:	All speeds			
		Corrn:	0.0	- 0.4	+ 1.2	+ 3.0
			CORRECTORS TO 0.5 FATHOM			
		Speed:	All speeds			
		Corrn:	0.0	- 0.5	+ 1.0	+ 3.0
205 (NMC-1) Visual & Chart	2 May - 15 December		CORRECTORS TO 0.5 FATHOM			
		Speed:	All Speeds			
		Corrn:	All Scales: 0.0			

Comp: JEH
Ck: WRK

VELOCITY CORRECTIONS

For Type 808 J Depth Recorder - Velocity of sound 820 fathoms per second

NOTE: ALL corrections additive unless otherwise indicated

SURVEYS: H-7723 (10148); H-7818 (10248); H-7792 (10648); H-7820 (10848); H-7793 (10943).

PERIOD: 2 May through 13 May 1950.

FEET			FATHOMS		
Depth From	To	Corrn.	Depth From	To	Corrn. (0.1)
00.0	25.0	0.0	00.0	4.6	0.0
25.1	54.5	0.5	04.7	10.6	0.1
54.6	88.5	1.0	10.7	20.8	0.2
88.6	196.0	1.5	20.9	33.3	0.3
196.1	200.0	2.0			

PERIOD: 16 May through 27 May 1950.

FEET			FATHOMS		
Depth From	To	Corrn.	Depth From	To	Corrn. (0.1)
00.0	22.0	0.0	00.0	04.1	0.0
22.1	45.9	0.5	04.2	09.0	0.1
46.0	72.2	1.0	09.1	16.3	0.2
72.3	100.1	1.5	16.4	20.4	0.3
100.2	131.5	2.0	20.5	22.0	0.4

PERIOD: 5 June through 29 July 1950.

FEET			FATHOMS		
Depth From	To	Corrn.	Depth From	To	Corrn. (0.1)
20.9	40.0	0.5	4.5	7.5	0.1
40.1	59.5	1.0	7.6	12.0	0.2
59.6	79.0	1.5	12.1	15.5	0.3
79.1	102.0	2.0	15.6	20.5	0.4
102.1	130.0	2.5	20.6	26.5	0.5
130.1	157.5	3.0	26.6	32.0	0.6
157.6	160.0	3.5	32.1	38.5	0.7
			38.6	45.5	0.8
			45.6	57.0	0.9
			57.1	67.0	1.0

VELOCITY CORRECTIONS

For Type 808 J Depth Recorders - Velocity of sound 820 fathoms per second

NOTE: ALL corrections additive unless otherwise indicated.

SURVEYS: H-7749 (10548); H-7792 (10648); H-7819 (10748); H-7820 (10848); H-7793 (10948); H-7821 (20149).

PERIOD: 9 August through 27 August 1950.

FEET

Depth From	Depth To	Corrn.
	21.5	0.0
22.0	39.0	0.5
39.5	56.5	1.0
57.0	75.0	1.5
75.5	94.0	2.0
94.5	114.5	2.5
115.0	136.0	3.0
136.5	159.0	3.5
159.5		4.0

FATHOMS

Depth From	Depth To	Corrn. (0.2)
7.1	15.0	0.2
15.1	23.5	0.4
23.6	33.0	0.6
33.1	43.5	0.8
43.6	54.0	1.0
54.1	65.1	1.2
65.2	80.0	1.4
80.1	99.0	1.6
99.1	160.0	1.8

FATHOMS

Depth From	Depth To	Corrn. (0.1)
7.1	11.0	0.2
11.1	15.0	0.3
15.1	19.1	0.4
19.2	23.5	0.5
23.6	28.0	0.6
28.1	33.0	0.7
33.1	38.2	0.8
38.3	43.5	0.9
43.6	48.5	1.0
48.6	54.0	1.1
54.1	59.5	1.2
59.6	65.1	1.3
65.2	71.5	1.4
71.6	80.0	1.5
80.1	87.5	1.6
87.6	99.0	1.7
99.1	114.5	1.8
114.6	160.0	1.9

FATHOMS

Depth From	Depth To	Corrn. (0.5)
	11.0	0.0
11.1	33.0	0.5
33.1	59.5	1.0
59.6	99.0	1.5
99.1	160.0	2.0

VELOCITY CORRECTIONS

For Type 308 J Depth Recorder - Velocity of sound 820 fathoms per second

NOTE: ALL corrections additive unless otherwise indicated

SURVEYS: H-7793 (10948); H-7819 (10748); H-7820 (10848); H-7821 (20149); H-7871 (10150)

PERIOD: 12 September through 13 October 1950

FEET

Depth From	Depth To	Corrn.
30.0	42.0	0.5
42.5	62.0	1.0
62.5	82.0	1.5
82.5	102.0	2.0
102.5	123.0	2.5
123.5	144.0	3.0
144.5	162.0	3.5

FATHOMS

Depth From	Depth To	Corrn. (0.2)
0.0	8.0	0.0
8.1	16.0	0.2
16.1	24.5	0.4
24.6	34.2	0.6
34.3	47.0	0.8
47.1	68.0	1.0
68.1	97.0	1.2
97.1	160.0	1.4

FATHOMS

Depth From	Depth To	Corrn. (0.1)
7.0	7.8	0.1
7.9	12.0	0.2
12.1	16.2	0.3
16.3	20.3	0.4
20.4	24.5	0.5
24.6	29.0	0.6
29.1	34.2	0.7
34.3	40.0	0.8
40.1	47.0	0.9
47.1	56.0	1.0
56.1	68.0	1.1
68.1	81.6	1.2
81.7	97.0	1.3
97.1	114.5	1.4
114.6	160.0	1.5

FATHOMS

Depth From	Depth To	Corrn. (0.5)
0.0	17.0	0.0
17.1	41.5	0.5
41.6	100.0	1.0
100.1	160.0	1.5

VELOCITY CORRECTIONS

For Type 808 J Depth Recorder - Velocity of sound 820 fathoms per second

NOTE: ALL corrections additive unless otherwise indicated.

SURVEYS: H-7793 (10948); H-7820 (10848); H-7821 (20149);
H-7871 (10150).

PERIOD: 14 October through 30 November 1950.

FEET

Depth From	Depth To	Corrn.
0.0	23.0	0.0
23.5	46.0	0.5
46.5	69.0	1.0
69.5	91.5	1.5
92.0	114.5	2.0
115.0	137.0	2.5
137.5	158.5	3.0
159.0	162.0	3.5

FATHOMS

Depth From	Depth To	Corrn. (0.2)
0.0	8.8	0.0
8.9	18.0	0.2
18.1	27.2	0.4
27.3	36.2	0.6
36.3	47.0	0.8
47.1	60.4	1.0
60.5	79.0	1.2
79.1	160.0	1.4

FATHOMS

Depth From	Depth To	Corrn. (0.1)
7.0	8.8	0.1
8.9	13.4	0.2
13.5	18.0	0.3
18.1	22.5	0.4
22.6	27.2	0.5
27.3	31.5	0.6
31.6	36.2	0.7
36.3	41.2	0.8
41.3	47.0	0.9
47.1	53.0	1.0
53.1	60.4	1.1
60.5	69.2	1.2
69.3	79.0	1.3
79.1	92.0	1.4
92.1	160.0	1.5

FATHOMS

Depth From	Depth To	Corrn. (0.5)
0.0	19.0	0.0
19.1	42.5	0.5
42.6	82.0	1.0
82.1	160.0	1.5

VELOCITY CORRECTIONS

For Type 808 J Depth Recorder - Velocity of sound 820 fathoms per second

NOTE: ALL corrections additive unless otherwise indicated

SURVEYS: H-7723 (10148); H-7818 (10248); H-7792 (10648); H-7820 (10848); H-7793 (10948); H-7321 (20149); Chart 1007.

PERIOD: 6 December through 15 December 1950

FEET

Depth From	Depth To	Corrn.
00.0	27.5	0.0
28.0	59.0	0.5
59.5	90.0	1.0
90.5	121.5	1.5
122.0	150.5	2.0
151.0	162.0	2.5

FATHOMS

Depth From	Depth To	Corrn. (0.1)
7.0	11.5	0.1
11.6	17.5	0.2
17.6	23.5	0.3
23.6	29.0	0.4
29.1	34.8	0.5
34.9	40.4	0.6
40.5	46.2	0.7
46.3	52.2	0.8
52.3	59.0	0.9
59.1	67.5	1.0
67.6	77.0	1.1
77.1	88.0	1.2
88.1	131.5	1.3
131.6	151.0	1.2
151.1	160.0	1.1

FATHOMS

Depth From	Depth To	Corrn. (0.2)
0.0	11.5	0.0
11.6	23.5	0.2
23.6	34.8	0.4
34.9	46.2	0.6
46.3	59.0	0.8
59.1	77.0	1.0
77.1	151.0	1.2
151.1	160.0	1.0

FATHOMS

Depth From	Depth To	Corrn. (0.5)
0.0	25.0	0.0
25.1	54.0	0.5
54.1	160.0	1.0

VELOCITY CORRECTIONS

For Type NEC-1 Depth Recorder - Velocity of sound 800 fathoms per second

NOTE: All corrections additive unless otherwise indicated.

SURVEYS: H-7821 (20149); H-7819 (10748)

PERIOD: 9 August through 27 August 1950

FATHOMS Depth From	To	Corrn. (0.5)	FATHOMS Depth From	To	Corrn. (0.5)	FATHOMS Depth From	To	Corrn. (0.5)
100	111	4.5	861	880	19.5	1401	1415	34.5
112	130	5.0	881	905	20.0	1416	1430	35.0
131	150	5.5	906	925	20.5	1431	1440	35.5
151	175	6.0	926	945	21.0	1441	1455	36.0
176	190	6.5	946	965	21.5	1456	1471	36.5
191	202	7.0	966	989	22.0	1472	1485	37.0
203	221	7.5	990	1010	22.5	1486	1500	37.5
222	244	8.0	1011	1030	23.0	1501	1515	38.0
245	267	8.5	1031	1050	23.5	1516	1528	38.5
268	292	9.0	1051	1070	24.0	1529	1542	39.0
293	320	9.5	1071	1090	24.5	1543	1558	39.5
321	350	10.0	1091	1108	25.0	1559	1570	40.0
351	385	10.5	1109	1128	25.5	1571	1582	40.5
386	420	11.0	1129	1143	26.0	1583	1595	41.0
421	450	11.5	1144	1161	26.5	1596	1610	41.5
451	481	12.0	1162	1179	27.0	1611	1625	42.0
482	510	12.5	1180	1195	27.5	1626	1635	42.5
511	545	13.0	1196	1210	28.0	1636	1650	43.0
546	575	13.5	1211	1225	28.5	1651	1660	43.5
576	605	14.0	1226	1245	29.0	1661	1675	44.0
606	635	14.5	1246	1260	29.5	1676	1685	44.5
636	665	15.0	1261	1275	30.0	1686	1700	45.0
666	692	15.5	1276	1291	30.5	1701	1710	45.5
693	720	16.0	1292	1308	31.0	1711	1721	46.0
721	745	16.5	1309	1323	31.5	1722	1735	46.5
746	768	17.0	1324	1340	32.0	1736	1750	47.0
769	790	17.5	1341	1355	32.5	1751	1760	47.5
791	815	18.0	1356	1370	33.0	1761	1771	48.0
816	840	18.5	1371	1385	33.5	1772	1780	48.5
841	860	19.0	1386	1400	34.0	1781	1795	49.0

VELOCITY CORRECTIONS

For Type NNC-1 Depth Recorder - Velocity of sound 800 fathoms per second

NOTE: ALL corrections additive unless otherwise indicated

SURVEYS: H-7819 (10748); H-7821 (20149); H-7871 (10150)

PERIOD: 12 September through 13 October 1950

FATHOMS			FATHOMS			FATHOMS		
Depth		Corrn.	Depth		Corrn.	Depth		Corrn.
From	To	(0.5)	From	To	(0.5)	From	To	(0.5)
100	115	4.0	861	884	18.5	1396	1410	33.0
116	134	4.5	885	907	19.0	1411	1424	33.5
135	154	5.0	908	928	19.5	1425	1439	34.0
155	176	5.5	929	950	20.0	1440	1453	34.5
177	192	6.0	951	971	20.5	1454	1467	35.0
193	205	6.5	972	990	21.0	1468	1481	35.5
206	232	7.0	991	1009	21.5	1482	1495	36.0
233	262	7.5	1010	1028	22.0	1496	1510	36.5
263	290	8.0	1029	1047	22.5	1511	1525	37.0
291	318	8.5	1048	1065	23.0	1526	1540	37.5
319	347	9.0	1066	1083	23.5	1541	1555	38.0
348	375	9.5	1084	1102	24.0	1556	1569	38.5
376	403	10.0	1103	1121	24.5	1570	1582	39.0
404	435	10.5	1122	1140	25.0	1583	1596	39.5
436	470	11.0	1141	1160	25.5	1597	1610	40.0
471	504	11.5	1161	1180	26.0	1611	1622	40.5
505	533	12.0	1181	1200	26.5	1623	1634	41.0
534	563	12.5	1201	1216	27.0	1635	1647	41.5
564	594	13.0	1217	1232	27.5	1648	1660	42.0
595	623	13.5	1233	1248	28.0	1661	1672	42.5
624	652	14.0	1249	1264	28.5	1673	1685	43.0
653	680	14.5	1265	1280	29.0	1686	1698	43.5
681	705	15.0	1281	1296	29.5	1699	1710	44.0
706	733	15.5	1297	1312	30.0	1711	1723	44.5
734	760	16.0	1313	1330	30.5	1724	1735	45.0
761	788	16.5	1331	1347	31.0	1736	1748	45.5
789	812	17.0	1348	1364	31.5	1749	1760	46.0
813	835	17.5	1365	1380	32.0	1761	1773	46.5
836	860	18.0	1381	1395	32.5	1774	1785	47.0
						1786	1800	47.5
								48.0

VELOCITY CORRECTIONS

For Type NMC-1 Depth Recorder - Velocity of sound 800 fathoms per second

NOTE: All corrections additive unless otherwise indicated

SURVEYS: H-6548; H-7871 (10150); H-7821 (20149); H-7872 (20150); H-7873 (20250)

PERIOD: 14 October through 30 November 1950

FATHOMS Depth From	To	Corrn. (0.5)	FATHOMS Depth From	To	Corrn. (0.5)	FATHOMS Depth From	To	Corrn. (0.5)
100	115	4.0	877	898	18.5	1411	1426	33.0
116	135	4.5	899	920	19.0	1427	1440	33.5
136	158	5.0	921	942	19.5	1441	1454	34.0
159	181	5.5	943	964	20.0	1455	1468	34.5
182	194	6.0	965	988	20.5	1469	1482	35.0
195	215	6.5	989	1008	21.0	1483	1496	35.5
216	242	7.0	1009	1026	21.5	1497	1510	36.0
243	272	7.5	1027	1046	22.0	1511	1524	36.5
273	302	8.0	1047	1066	22.5	1525	1540	37.0
303	332	8.5	1067	1084	23.0	1541	1554	37.5
333	362	9.0	1085	1102	23.5	1555	1566	38.0
363	400	9.5	1103	1120	24.0	1567	1580	38.5
401	425	10.0	1121	1140	24.5	1581	1594	39.0
426	462	10.5	1141	1160	25.0	1595	1608	39.5
463	500	11.0	1161	1180	25.5	1609	1620	40.0
501	536	11.5	1181	1200	26.0	1621	1632	40.5
537	570	12.0	1201	1216	26.5	1633	1644	41.0
571	600	12.5	1217	1232	27.0	1645	1656	41.5
601	628	13.0	1233	1248	27.5	1657	1670	42.0
629	654	13.5	1249	1262	28.0	1671	1682	42.5
655	680	14.0	1263	1280	28.5	1683	1694	43.0
681	708	14.5	1281	1298	29.0	1695	1708	43.5
709	736	15.0	1299	1314	29.5	1709	1720	44.0
737	760	15.5	1315	1330	30.0	1721	1734	44.5
761	784	16.0	1331	1346	30.5	1735	1748	45.0
785	808	16.5	1347	1362	31.0	1749	1760	45.5
809	830	17.0	1363	1378	31.5	1761	1772	46.0
831	854	17.5	1379	1394	32.0	1773	1786	46.5
855	876	18.0	1395	1410	32.5	1787	1800	47.0

VELOCITY CORRECTIONS

For Type EMC-1 Depth Recorder - Velocity of sound 800 fathoms per second

NOTE: ALL Corrections additive unless otherwise indicated

SURVEYS: H-6548; H-7821 (20149); H-7873 (20250); Chart 1007

PERIOD: 6 December through 15 December 1950

FATHOMS			FATHOMS			FATHOMS		
Depth From	Depth To	Corrn. (0.5)	Depth From	Depth To	Corrn. (0.5)	Depth From	Depth To	Corrn. (0.5)
100	123	4.0	931	952	18.5	1445	1458	33.0
124	147	4.5	953	972	19.0	1459	1470	33.5
148	176	5.0	973	992	19.5	1471	1484	34.0
177	196	5.5	993	1010	20.0	1485	1500	34.5
197	222	6.0	1011	1030	20.5	1501	1514	35.0
223	260	6.5	1031	1050	21.0	1515	1528	35.5
261	295	7.0	1051	1070	21.5	1529	1542	36.0
296	330	7.5	1071	1088	22.0	1543	1556	36.5
331	368	8.0	1089	1106	22.5	1557	1570	37.0
369	403	8.5	1107	1124	23.0	1571	1584	37.5
404	440	9.0	1125	1142	23.5	1585	1596	38.0
441	474	9.5	1143	1160	24.0	1597	1610	38.5
475	508	10.0	1161	1180	24.5	1611	1622	39.0
509	544	10.5	1181	1200	25.0	1623	1636	39.5
545	576	11.0	1201	1218	25.5	1637	1650	40.0
577	606	11.5	1219	1234	26.0	1651	1662	40.5
607	634	12.0	1235	1250	26.5	1663	1674	41.0
635	662	12.5	1251	1264	27.0	1675	1686	41.5
663	690	13.0	1265	1282	27.5	1687	1700	42.0
691	716	13.5	1283	1300	28.0	1701	1712	42.5
717	740	14.0	1301	1316	28.5	1713	1724	43.0
741	764	14.5	1317	1332	29.0	1725	1736	43.5
765	790	15.0	1333	1350	29.5	1737	1750	44.0
791	814	15.5	1351	1366	30.0	1751	1762	44.5
815	836	16.0	1367	1382	30.5	1763	1776	45.0
837	860	16.5	1383	1398	31.0	1777	1788	45.5
861	884	17.0	1399	1414	31.5	1789	1800	46.0
885	908	17.5	1415	1428	32.0			
909	930	18.0	1429	1444	32.5			

COMPUTATION OF CORRECTORS
for
SURVEY H-7821 (20149)

	DATE	TIME	FATH NO PHASE	INDEX	DRAFT	INST.	Tide	TOTAL Corrector	template
A	Aug 11	1600	NMC1	+2.0	0.0	0.0	0.0	+2.0 to 1630	1500
		1630					-0.5	+1.5 to 2400	
B	12	00					-0.5	+1.5 to 1730	
		1730	NMC1				-0.5		
C	13	0130	NMC1	+2.0	0.0	0.0	-0.5	+1.5 to 1710	
		1710					0.0	+2.0 to 2206	
		2206					-0.5	+1.5 to 2400	
D	Aug 14	0002					-0.5	+1.5 to 1606	
		1606					0.0	+2.0 to 1735	
E	sept 14	2310					-0.5	+1.5 to 0504	
F	15	0504					0.0	+2.0 to 1032	
		1032					-0.5	+1.5 to 2040	
		2040					-0.5		
~~G~~	~~16~~	~~1800~~	~~NMC1~~	~~+2.0~~	~~0.0~~				
V	Dec 12	1000	NMC1	+2.0			0.0	+2.0 to 1200	

COMPUTATION OF CORRECTORS
for
SURVEY H-7821 (20149)

Reducers entered to ± 0.5 fms.

Date	Time	Fath.No. Phase	Index	Draft	Instr.	Tide	Total Corrector	Remarks
9/16/50	0000	132 D	0.0	0.0	+ 1.5	- 0.5	+1.0to0625	LB 120 rpm
G Day	0030		0.0	0.0	+ 1.5	- 0.5		LE
	0625					0.0		
	1155					- 0.5		
	1750	NMC-1	+ 2.0	0.0	0.0	- 0.5	+1.5to2400	LB 120 rpm
	2400							
9/17/50	0000						+1.5 0635	
H Day	0635					0.0	+2.0 1405	
	1405					- 0.5	+1.5 1850	
	1850	NMC-1	+ 2.0	0.0	0.0	- 0.5		
	1851	131 D	0.0	0.0	+ 4.0	- 0.5	+3.5 1933	
	1933	131 C	0.0	0.0	+ 2.0	- 0.5	+1.5 1942	
	1942	131 C	- 0.5				+1.0 2012	
	2012	131 D	0.0		+ 4.0		+3.5 2053	
	2053	131 D	0.0	0.0	+ 4.0	- 0.5		
	2053	NMC-1	+ 2.0	0.0	0.0	- 0.5	+1.5 2210	
	2130		+ 2.0		0.0			
	2210	NMC-1	+ 2.0	0.0	0.0	- 0.5		
	2205	131 D	0.0	0.0	+ 4.0	- 0.5	+3.5 2230	
	2230		- 0.5				+3.0 2243	
	2243	131 C	0.0		+ 2.0		+1.5 2400	
	2400		0.0	0.0	+ 2.0	- 0.5		
9/18/50	0000	131 C	0.0	0.0	+ 2.0	- 0.5	+1.5 0028	
J Day	0010		0.0					
	0028		- 0.5				+1.0 0032	
	0032		0.0				+1.5 0156	
	0131		0.0					
	0156		- 0.5				+1.0 0201	
	0201		0.0				+1.5 0323	
	0323		- 0.5				+1.0 0332	
	0332		0.0				+1.5 0412	
	0412		- 0.5				+1.0 0500	
	0500	131 C	- 0.5	0.0	+ 2.0	- 0.5		LE
10/6/50	1500	132 C	0.0	0.0	+ 1.0	0.0	+1.0to1746	LB 120 rpm
K Day	1746	132 D	0.0	0.0	+ 3.0		+3.0 1818	
	1818	132 D	0.0	0.0	+ 3.0	0.0		
	1810	NMC-1	+ 2.0	0.0	0.0	0.0	+2.0 1850	

Line continued on sheet 2

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COMPUTATION OF CORRECTORS
for
SURVEY H-7821 (20149)

Date	Time	Fath.No. Phase	Index	Draft	Instr.	Tide	Total Corrector	Remarks
10/6/50	1850	NMC-1	+ 2.0	0.0	0.0	- 0.5	+1.5 to 2400	
(cont.)	1930		+ 2.0	0.0	0.0	- 0.5		LE
	2130		+ 2.0	0.0	0.0	- 0.5		LB 120 rpm
	2400		+ 2.0	0.0	0.0	- 0.5		
10/7/50	0000	NMC-1	+ 2.0	0.0	0.0	- 0.5	+1.5 1225	
L Day	1031				0.0			DS 100 rpm
	1225					0.0	+2.0 1805	
	1805					- 0.5	+1.5 2400	
10/7/50	2400		+ 2.0	0.0	0.0	- 0.5		
10/8/50	0000		+ 2.0	0.0	0.0	- 0.5	+1.5 0540	
M Day	0330				0.0			IS 120 rpm
	0540	NMC-1	+ 2.0	0.0	0.0	- 0.5		
	0532	131 D	0.0	0.0	+ 4.0	- 0.5	+3.5 0607	
	0607		- 0.5				+3.0 0620	
	0620	131 C	0.0		+ 2.0		+1.5 0655	
	0655		- 0.5				+1.0 0755	
	0755	131 D	0.0	0.0	+ 4.0		+3.5 0830	
	0830	131 D	0.0	0.0	+ 4.0	- 0.5		
	0820	NMC-1	+ 2.0	0.0	0.0	- 0.5	+1.5 0950	
	0950	NMC-1	+ 2.0	0.0	0.0			
	0936	131 D	0.0	0.0	+ 4.0	- 0.5	+3.5 1015	
	1015	131 C	0.0		+ 2.0		+1.5 1048	
	1048		- 0.5				+1.0 1100	
	1100	131 C	-0.5	0.0	+ 2.0	- 0.5		LE
10/9/50	0530	131 C	0.0	0.0	+ 2.0	- 0.5	+1.5 0622	LB 120 rpm
N Day	0622	131 D	0.0		+ 4.0		+3.5 0656	
	0656	131 D	0.0	0.0	+ 4.0	- 0.5		
	0652	NMC-1	+ 2.0	0.0	0.0	- 0.5	+1.5 1525	
	0840		+ 2.0					
	1525					0.0	+2.0 1635	
	1635					- 0.5	+1.5 2400	
	2400		+ 2.0	0.0	0.0	- 0.5		
10/10/50	0000	NMC-1	+ 2.0	0.0	0.0	- 0.5	+1.5 0100	
P Day	0100			- 0.5			+1.0 0255	
	0255					0.0	+1.5 0552	
	0552					- 0.5	+1.0 0900	
	0900	NMC-1	+ 2.0			0.0		
	0840	132 D	0.0	- 0.5	+ 3.0	- 0.5	+2.0 0915	

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COMPUTATION OF CORRECTORS
for
SURVEY H-7821 (20149)

Date	Time	Fath. No. Phase	Index	Draft	Instr.	Tide	Total Corrector	Remarks
10/10/50	0915	131 C	0.0	- 0.5	+ 2.0	- 0.5	+1.0 to 1052	
(cont.)	1052	131 D	0.0	|	+ 4.0	|	+3.0 1120	
	1120	131 D	0.0	- 0.5	+ 4.0	- 0.5		
	1110	NMC-1	+ 2.0	- 0.5	0.0	- 0.5	+1.0 1525	
	1525		|	|	|	0.0	+1.5 1755	
	1755		|	|	|	- 0.5	+1.0 2400	
	2400		+ 2.0	- 0.5	0.0	- 0.5		
10/11/50	0000	NMC-1	+ 2.0	- 0.5	0.0	- 0.5	+1.0 0235	
Q Day	0235		|	|	|	0.0	+1.5 0720	
	0720		|	|	|	- 0.5	+1.0 1625	
	1625		|	|	|	0.0	+1.5 1735	
	1735		|	|	|	- 0.5	+1.0 2400	
	2400		+ 2.0	- 0.5	0.0	- 0.5		
10/12/50	0000	NMC-1	+ 2.0	- 0.5	0.0	- 0.5	+1.0 0315	
R Day	0315		|	|	|	0.0	+1.5 0350	
	0350		+ 2.0	- 0.5	0.0	0.0		
	0342	132 D	0.0	|	+ 3.0	|	+2.5 0426	
	0426	132 C	0.0	|	+ 1.0	|	+0.5 0432	
	0432		- 0.5	|	|	|	0.0 0440	
	0440	132 C	- 0.5	- 0.5	+ 1.0	0.0		LE
10/25/50	1030	131 C	0.0	0.0	+ 2.0	- 0.5	+1.5 1046	LB 120 rpm
S Day	1046		- 0.5	|	|	|	+1.0 1110	
	1110	131 C	- 0.5	0.0	+ 2.0	- 0.5		
	1114	132 C	0.0	0.0	+ 1.0	- 0.5	+0.5 1133	
	1133	132 D	0.0	|	+ 3.0	|	+2.5 1150	
	1150		- 0.5	|	|	|	+2.0 1159	
	1156	NMC-1	+ 2.0	|	0.0	|	+1.5 1550	
	1550		+ 2.0	|	0.0	|		
	1540	132 D	0.0	|	+ 3.0	|	+2.5 1615	
	1615		|	|	|	0.0	+3.0 1745	
	1745		|	|	|	- 0.5	+2.5 1757	
	1757	132 D	0.0	0.0	+ 3.0	- 0.5		
	1750	NMC-1	+ 2.0	0.0	0.0	|	+1.5 1950	
	1950	NMC-1	+ 2.0	0.0	0.0	- 0.5		LE

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COMPUTATION OF CORRECTORS
for
SURVEY H-7821 (20149)

Date	Time	Fath.No. Phase	Index	Draft	Instr.	Tide	Total Corrector	Remarks
10/27/50	2130	NMC-1	+ 2.0	0.0	0.0	- 0.5	+1.5to2400	LB 120 rpm
T Day	2400	NMC-1	+ 2.0	"	"	"		
10/28/50	0000	NMC-1	+ 2.0	0.0	0.0	- 0.5	+1.5 0335	
U Day	0335		"	"	"	0.0	+2.0 1040	
	1040		"	"	"	- 0.5	+1.5 1920	
	1920	NMC-1	+ 2.0	0.0	0.0	- 0.5		LE
12/12/50	1000	NMC-1	+ 2.0	0.0	0.0	0.0	+2.0to1220	LB 120 rpm
V Day	1040		+ 2.0	0.0	0.0	0.0		LE
	1130	NMC-1	+ 2.0	0.0	0.0	0.0		LB 120 rpm
	1220		"	"	"	- 0.5	+1.5 2400	
	1400		+ 2.0	0.0	0.0	- 0.5		LE
	1530	NMC-1	+ 2.0	0.0	0.0	- 0.5		LB 120 rpm
	2400	NMC-1	+ 2.0	0.0	0.0	- 0.5		
12/13/50	0000		+ 2.0	0.0	0.0	- 0.5	+1.5 0040	
W Day	0040	NMC-1	+ 2.0	0.0	0.0	- 0.5		
	0032	131 D	0.0	0.0	+ 4.0	- 0.5	+3.5 0111	
	0111	131 C	0.0	"	+ 2.0	"	+1.5 0118	
	0118		- 0.5	"	"	"	+1.0 0201	
	0201		0.0	"	"	"	+1.5 0210	
	0210	131 C	0.0	0.0	+ 2.0	- 0.5		LE

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COMPUTATION OF CORRECTORS
for
SURVEY H-7821 (20150)

Date	Time	Fath.No. Phase	Index	Draft	Instr.	Tide	Total Corrector	Remarks
10/25/50	1950	NMC-1	+ 2.0	0.0	0.0	- 0.5	+1.5 to 2155	LB 120 rpm
A Day	2155	NMC-1	+ 2.0	|	0.0	|		
	2150	132 D	0.0	|	+ 3.0	|	+2.5 2250	
	2250	132 D	0.0	0.0	+ 3.0	- 0.5		LE
10/27/50	1806	132 C	- 0.5	0.0	+ 1.0	- 0.5	0.0 to 1835	LB 120 rpm
B Day	1835	132 D	0.0	|	+ 3.0	|	+2.5 1859	
	1859	132 D	0.0	0.0	+ 3.0	- 0.5		
	1859	NMC-1	+ 2.0	0.0	0.0	- 0.5	+1.5 2130	
	2130	NMC-1	+ 2.0	0.0	0.0	- 0.5		LE
10/31/50	1654	NMC-1	+ 2.0	- 0.5	0.0	- 0.5	+1.0 2400	LB 120 rpm
C Day	2400	NMC-1	+ 2.0	- 0.5	0.0	- 0.5		
11/1/50	0000	NMC-1	+ 2.0	- 0.5	0.0	- 0.5	+1.0 0510	
D Day	0332		|	|	0.0	|		DS 80 rpm
	0340		|	|	0.0	|		IS 120 rpm
	0510	NMC-1	+ 2.0	|	0.0	|		
	0450	132 D	0.0	|	+ 3.0	|	+2.5 0540	
	0540	132 D	0.0	- 0.5	+ 3.0	- 0.5		LE

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VELOCITY CORRECTION

TEMPLATES

SURVEYS: Chart 1007; H-6548; H-7819 (10748); H-7820 (10848); H-7793 (10948); H-7821 (20149); H-7871 (20150); H-7872 (20150); H-7873 (20250).

PERIOD: 12 September through 13 October 1950

DEPTH Fathoms From	To	TEMPLATE Meters per second
00.0	91.2	1530
91.3	278	1515
279	and deeper	1500

PERIOD: 14 October through 30 November 1950

DEPTH FATHOMS From	To	TEMPLATE Meters per second
00.0	107.5	1530
107.6	255	1515
256	and deeper	1500

PERIOD: 6 December through 15 December 1950

DEPTH Fathoms From	To	TEMPLATE Meters per second
00.0	83.5	1530
83.6	212	1515
213	555	1500
556	980	1485
981	and deeper	1500

EPI FINAL CORRECTIONS (Sheet No. 1)

SEASON 1950

SHIP HYDROGRAPHER G.L. ANDERSON, COMMANDING

From	To	Corr. CC	Remarks
1950	1950		
May 2 2100	May 3 1300	-3.0	
May 3 1301	May 3 1600	-1.8	Eqpt. Adjust.
May 3 1601	May 3 2300	-2.0	
May 3 2301	May 4 0600	-2.2	
May 4 0601	May 4 1200	-2.4	
May 4 1201	May 4 1900	-2.6	
May 4 1901	May 5 0100	-2.8	
May 5 0101	May 5 0800	-3.0	
May 5 0801	May 5 1400	-3.2	
May 5 1401	May 5 2100	-3.4	
May 5 2101	May 6 0300	-3.6	
May 6 0301	May 6 1000	-3.8	
May 6 1001	May 6 2000	-4.0	
May 6 2001	May 7 1600	-3.8	
May 7 1601	May 8 0900	-3.6	
May 8 0901	May 9 0400	-3.4	
May 9 0401	May 10 0400	-3.2	
May 10 0401	May 11 2300	-3.0	
May 11 2301	May 12 1200	-2.8	

From	To	Corr. D	Remarks
1950	1950		
May 2 2100	May 3 1300	-3.0	
May 3 1301	May 3 1430	-0.8	Eqpt. Adjust.
May 3 1431	May 3 2000	-1.0	
May 3 2001	May 4 0100	-1.2	
May 4 0101	May 4 0700	-1.4	
May 4 0701	May 4 1200	-1.6	
May 4 1201	May 4 2000	-1.8	
May 4 2001	May 5 1500	-2.0	
May 5 1501	May 8 0300	-2.2	
May 8 0301	May 11 1800	-2.4	
May 11 1801	May 12 1200	-2.2	

BPI FINAL CORRECTIONS

SEASON 1950

SHIP HYDROGRAPHER — G.I. ANDERSON, COMMANDING

From	To	Corr. CC	Remarks	From	To	Corr. D	Remarks
1950	1950			1950	1950		
May 18	May 27			May 18	May 19		
1400	1400	-1.2		1400	2200	-1.0	
				May 19	May 27		
				2201	1400	-1.2	
June 5	June 14			June 5	June 14		
1000	1300	-1.0		1000	1300	-1.4	
June 20	June 20			June 20	June 24		
1200	2400	-2.0		1200	1600	-1.2	
June 21	June 24			June 24	June 26		
0001	2400	-1.8		1601	2400	-1.4	
June 25	June 29		Eqpt.	June 27	June 29		
0001	1300	-1.0	Changed	0001	0200	-1.6	
				June 29	June 29		
				0201	1300	-1.8	
July 6	July 9			July 6	July 8		
2000	1300	-1.2	Ship Ret. to St.	2000	0500	-1.8	
July 10	July 15		Peterburg	July 8	July 8		
1700	1300	-0.8	during trip	0501	2400	-2.0	
				July 9	July 9		
				0001	1300	-2.2	Ship Returned to St. Peters-burg during tri
				July 10	July 15		
				1700	1300	-1.4	
July 20	July 21			July 20	July 20		
1300	1400	-1.0		1300	1800	-2.0	
July 21	July 23			July 20	July 25		
1401	2000	-1.2		1801	0000	-1.8	
July 23	July 26			July 25	July 26		
2001	0600	-1.4		0001	0600	-2.0	

Comp: JPL
CHK: EAD

EPI FINAL CORRECTIONS (Sheet No. 3)

SEASON 1950

SHIP HYDROGRAPHER G.L. ANDERSON, COMMANDING

From	To	Corr. CC	Remarks	From	To	Corr. D	Remarks
July 26 0601	July 26 1800	-1.2		July 26 0601	July 27 1000	-2.2	
July 26 1801	July 27 0800	-1.0		July 27 1001	July 28 0300	-2.0	
July 27 0801	July 27 2200	-0.8		July 28 0301	July 28 2100	-1.8	
July 27 2201	July 28 1400	-0.6		July 28 2101	July 29 1300	-1.6	
July 28 1401	July 29 0600	-0.4					
July 29 0601	July 29 1300	-0.2					
Aug. 9 1300	Aug. 10 0400	-1.2		Aug. 9 1900	Aug. 10 1700	-2.0	
Aug. 10 0401	Aug. 11 0000	-1.0		Aug. 10 1701	Aug. 11 1700	-1.8	
Aug. 11 0001	Aug. 11 1700	-0.8		Aug. 11 1701	Aug. 13 2000	-1.6	
Aug. 11 1701	Aug. 17 1200	-1.0		Aug. 13 2001	Aug. 15 2200	-1.8	
				Aug. 15 2201	Aug. 16 1000	-2.0	
				Aug. 16 1001	Aug. 16 1800	-2.2	
				Aug. 16 1801	Aug. 17 0100	-2.0	
				Aug. 17 0101	Aug. 17 0800	-1.8	
				Aug. 17 0801	Aug. 17 1200	-1.6	
Aug. 23 1300	Aug. 26 2400	-0.8	Ship Ret. to port due to Hurricane	Aug. 23 1300	Aug. 26 2400	-2.1	

Comp: JPL
Chk: EAD

MPI FINAL CORRECTIONS

SEASON 1950

SHIP HYDROGRAPHER — G.L. ANDERSON, COMMANDING

From	To	Corr. CC	Remarks	From	To	Corr. D	Remarks
Sept. 12 1830	Sept. 13 0900	-0.6		Sept. 12 1830	Sept. 13 0800	-3.5	New Antennae
Sept. 13 0901	Sept. 14 0600	-0.8		Sept. 13 0801	Sept. 17 1400	-1.4	Regular Antennae
Sept. 14 0601	Sept. 15 0000	-1.0		Sept. 17 1401	Sept. 19 1100	-1.6	
Sept. 15 0001	Sept. 15 1900	-1.2		Sept. 19 1101	Sept. 20 1000	-1.4	
Sept. 15 1901	Sept. 16 1300	-1.4		Sept. 20 1001	Sept. 20 1400	-1.2	
Sept. 16 1301	Sept. 17 2200	-1.6					
Sept. 17 2301	Sept. 19 1000	-1.8					
Sept. 19 1001	Sept. 20 0200	-1.6					
Sept. 20 0201	Sept. 20 1300	-1.4					
Sept. 25 1300	Sept. 26 0500	-1.6	Field Work prevented by weather	Sept. 25 1300	Sept. 25 1800	-1.6	
Sept. 27 1100	Sept. 29 0000	-1.4		Sept. 25 1801	Sept. 26 0200	-1.8	
Sept. 29 0001	Sept. 30 1000	-1.2		Sept. 26 0201	Sept. 26 0500	-2.0	Field Work prevented by weather
				Sept. 27 1100	Sept. 28 2300	-1.8	
				Sept. 28 2301	Sept. 29 0600	-1.6	
				Sept. 29 0601	Sept. 29 1700	-1.4	
				Sept. 29 1701	Sept. 30 0500	-1.2	
				Sept. 30 0501	Sept. 30 1000	-1.0	

Comp: JPL
Chk: GCM

EPT FINAL CORRECTIONS (Sheet No. 5)

SEASON 1930

SHIP HYDROGRAPHER G.L. ANDERSON, COMMANDING

From	To	Corr. CC	Remarks	From	To	Corr. D	Remarks
Oct. 4 1100	Oct. 6 1200	-1.8		Oct. 4 1100	Oct. 6 0600	-1.6	
Oct. 6 1201	Oct. 7 1100	-1.6		Oct. 6 0601	Oct. 10 0600	-1.8	
Oct. 7 1101	Oct. 8 1200	-1.4		Oct. 10 0601	Oct. 13 1300	-1.6	
Oct. 8 1201	Oct. 9 2300	-1.2					
Oct. 9 2301	Oct. 11 1200	-1.0					
Oct. 11 1201	Oct. 13 0000	-0.8					
Oct. 13 0001	Oct. 13 1300	-0.6					
Oct. 24 1130	Nov. 3 1200	-0.4		Oct. 24 1130	Nov. 3 1200	-1.6	
Nov. 8 1200	Nov. 9 1100	-0.6		Nov. 8 1200	Nov. 10 0500	-1.6	
Nov. 9 1101	Nov. 10 1100	-0.8		Nov. 10 0501	Nov. 10 2000	-1.8	
Nov. 10 1101	Nov. 11 1400	-1.0		Nov. 10 2001	Nov. 11 1800	-2.0	
Nov. 11 1401	Nov. 13 0000	-1.2		Nov. 11 1001	Nov. 12 0200	-1.8	
Nov. 13 0001	Nov. 16 1400	-1.0		Nov. 12 0201	Nov. 12 1000	-1.6	
				Nov. 12 1001	Nov. 13 1200	-1.4	
				Nov. 13 1201	Nov. 16 1400	-1.6	

Comp: JPL
Chk: GCE

BT FINAL CORRECTIONS

SEASON 1950

SHIP HYDROGRAPHER — C.L. ANDERSON, COMMANDING

From	To	Corr. CC	Remarks	From	To	Corr. D	Remarks
Nov. 24 1200	Nov. 25 1200	-1.4		Nov. 24 1200	Nov. 25 0600	-2.0	
Nov. 25 1201	Nov. 28 1200	-1.6		Nov. 25 0601	Nov. 27 0200	-1.8	
Nov. 28 1201	Nov. 29 0600	-1.4		Nov. 27 0201	Nov. 30 1300	-1.6	
Nov. 29 0601	Nov. 30 0000	-1.2					
Nov. 30 0001	Nov. 30 1300	-1.0					
Dec. 6 1200	Dec. 6 1600	-0.4		Dec. 6 1200	Dec. 6 2000	-2.2	
Dec. 6 1601	Dec. 6 2100	-0.6		Dec. 6 2001	Dec. 7 0300	-2.0	
Dec. 6 2101	Dec. 7 0300	-0.8		Dec. 7 0301	Dec. 7 1300	-1.8	
Dec. 7 0301	Dec. 7 0800	-1.0		Dec. 7 1201	Dec. 14 1800	-1.6	
Dec. 7 0801	Dec. 7 1400	-1.2					
Dec. 7 1401	Dec. 7 1900	-1.4					
Dec. 7 1901	Dec. 8 0100	-1.6					
Dec. 8 0101	Dec. 8 0600	-1.8					
Dec. 8 0601	Dec. 8 1400	-2.0					
Dec. 8 1401	Dec. 9 0500	-1.8					
Dec. 9 0501	Dec. 9 2100	-1.6					
Dec. 9 2101	Dec. 10 1100	-1.4					
Dec. 10 1101	Dec. 11 0300	-1.2					
Dec. 11 0301	Dec. 11 1800	-1.0					
Dec. 11 1801	Dec. 12 1000	-0.8					

Comp: JPL
Chk: GRH

SEASON 1950

M.V. HYDROGRAPHER G.L. ANDERSON, COMMANDING

From	To	Corr. GCT	Remarks
Dec. 12 1001	Dec. 13 0200	-0.6	
Dec. 13 0201	Dec. 13 2100	-0.4	
Dec. 13 2101	Dec. 14 1900	-0.6	

Comps JPL
Chk: GGM

H 7821

List of geographic names
penciled on smooth sheet.

Gulf of Mexico

STATISTICS FOR HYDROGRAPHIC SURVEY H-7821 (1950)

Volume Number	Day Letter	Date 1950	Number of Positions	Statute Miles of Soundings
1	A	11 August	55	111.2
1	B	12 August	55	102.0
1	C	13 August	132	258.7
2	D	14 August	102	201.8
2	E	14 September	10	17.4
2 & 3	F	15 September	145	282.2
3	G	16 September	41	79.8
3	H	17 September	144	289.0
3	J	18 September	30	60.2
3	K	6 October	44	83.1
3	L	7 October	112	190.5
3	M	8 October	63	112.8
3	N	9 October	112	196.3
3 & 4	P	10 October	144	287.9
4	Q	11 October	144	276.1
4	R	12 October	28	52.9
4	S	25 October	57	102.7
4	T	27 October	17	24.6
4	U	28 October	116	193.2
4	V	12 December	74	133.8
4	W	13 December	13	24.9
5	A	25 October	19	31.6
5	B	27 October	22	35.1
5	C	31 October	44	86.7
5	D	1 November	34	69.6
		TOTALS	1,757	3,304.1

TOTAL AREA SURVEYED 12,404 Square Statute Miles

7821

TIDE NOTE

Tide Station:	Tampa Bay Florida Primary at St. Petersburg, Florida
Latitude:	27° 46'
Longitude:	82° 38'
Plane of reference:	Mean Low Water
Time:	Minus two and one half ($2\frac{1}{2}$) hours for 20149a Minus three (3) hours for 20149b
Height correction:	None

The value of the observed hourly heights and the high and lows were furnished this party by the Washington Office. Time and height corrections were applied in the field as indicated in the Director's letters of 13 January 1949, reference 36-tmo and 13 September 1950, reference 36-rcb.

RHC

Form 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Rev. June 1937

TIDE NOTE FOR HYDROGRAPHIC SHEET

Division of Hydrography and Topography 30 November 1953

Division of Charts: R. H. Carstens

Plane of reference approved in
5 volumes of sounding records for

HYDROGRAPHIC SHEET 7821

Locality Gulf of Mexico, Florida

Chief of Party: G. L. Andersen in 1950
Plane of reference is mean low water, reading
3.3 ft. on tide staff at St. Petersburg
5.4 ft. below B. M. 4 (1925)

Height of mean high water above plane of reference is 1.4 feet.

NOTE: Tide reducers were verified by using a time correction of -2½ hours at the working grounds.

Condition of records satisfactory except as noted below:

E. C. McKay
Section of Tides
Chief, Division of Tides and Currents.

U. S. GOVERNMENT PRINTING OFFICE 756675

GEOGRAPHIC NAMES

Survey No. H-7821

Name on Survey	On Chart No. A	On previous survey No. B	On U. S. quadrangle Maps C	From local information D	On local Maps E	P. O. Guide or Map F	Rand McNally Atlas G	U. S. Light List H	K	
Florida										1
Gulf of Mexico										2
										3
					Names approved 11-18-53. L. Heck					4
										5
										6
										7
St. Petersburg			(tide station)							8
										9
										10
										11
										12
										13
										14
										15
										16
										17
										18
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										20
										21
										22
										23
										24
										25
										26
										27

M 234

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. H-7821...

Records accompanying survey:

Boat sheets ..2..; sounding vols. ...5.; wire drag vols. .....;

bomb vols. .....; graphic recorder rolls .6.Env;

special reports, etc. 1.Smooth.Sheet; 1.Descriptive.Report; 1.Cahier..

.E.P.I.Abstracts;.....

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet		1757	1757
Number of positions checked		56	236
Number of positions revised		4	0
Number of soundings revised (refers to depth only)		*	0
Number of soundings erroneously spaced		0	0
Number of signals erroneously plotted or transferred		0	✓
Topographic details	Time	0	✓
Junctions	Time	3	✓
Verification of soundings from graphic record	Time	45	24

Preliminary Verification: Jw Zegland 88 1-8-54

Verification by G. L. Chambers ...Total time 88 Date 1-4-56

addendum - Jw Zegland 36 6-5-56

Reviewed by Jw Zegland ..... Time 35 Date 1-18-54

* See P 35. Soundings penciled on the smooth sheet from the 808 fathometer were increased by 2 fathoms before being inked. Depths were originally measured from the printed trace instead of the printed zero on the graph.

M-2232-1

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-7821 FIELD NO. Hy-20149

Florida, Gulf of Mexico, Southwest of Tampa Bay Entrance

Project No. CS-328

Surveyed - Aug.-Dec. 1950 Scale 1:200,000

Soundings: Control:

808 Fathometer E.P.I.
NMC No. 1 Fathometer

Chief of Party - G.L. Anderson
Surveyed by - G.L. Anderson, J.P. Lushene, J.E. Waugh, E.E. Jones, N.E. Taylor, and W.R. Kachel
Protracted by - H.C. Parsons
Soundings plotted by - H.C. Parsons
Preliminary Verification by - I.M. Zeskind
Verified and inked by - J.C. Chambers
Reviewed by - I.M. Zeskind 1-8-54
Inspected by - R.H. Carstens

1. Shoreline and Control

No shoreline falls within the limits of this offshore survey.

The source of the control is adequately described in the Descriptive Report.

2. Sounding Line Crossings

Depths at crossings are in good agreement.

3. Depth Curves and Bottom Configuration

The usual depth curves are adequately delineated.

The survey covers a part of the Gulf of Mexico which lies west of Tampa Bay.

The survey includes the smooth basin of the Gulf of Mexico in depths of approximately 1800 fms. as well as the adjacent escarpment and continental slope. An interesting submarine feature is noted in the southeast portion of the survey. Here in depths of about 220 fms. for an approximate distance of 20 miles, the bottom has faulted as much as 25 fms.

4. Junctions with Contemporary Surveys

Present survey depths are in adequate agreement with the junctional depths on H-7604 (1947-48) on the North. The transfer of junctional soundings is deferred pending complete verification of the present survey.

The junctions with H-7819 (1950) on the northeast, with H-7871 (1950) on the east, and with H-7873 (1950) on the west will be considered in the reviews of those surveys.

Project surveys H-8018 (1952) on the south have not yet been received in this office.

5. Comparison with Prior Surveys

H-483 (1854-55) 1:200,000	H-1353 (1875-76-77) 1:600,000
H-528 (1856) 1:662,050	H-1354 (1875-76) 1:600,000
H-599 (1857-58) 1:200,000	H-1532 (1882) 1:2,400,000
H-1138 (1872) 1:600,000	H-5303c (1933) 1:970,000

A few dead reckoning sounding lines from these early small-scale reconnaissance surveys fall within the area of the present survey. A comparison between the prior and present surveys shows differences of as much as 150 fms. in depths of 1800 fms. These differences are attributed to the dead reckoning control and the improper spacing of soundings on the prior surveys. A few supplemental bottom characteristics have been carried forward to the present survey from the prior surveys. With these additions, the present survey is adequate to supersede the prior surveys within the common area.

6. Comparison with Chart 1003 (Latest print date 9/15/52)

A. Hydrography

The charted hydrography originates with advance information of the present survey. Differences between the charted and present depths vary from 2 - 70 fms. in depths ranging from 100 - 1800 fms.

The present survey supersedes the charted hydrography.

B. Aids to Navigation

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

7. Condition of Survey

The survey has been given only a preliminary verification. A complete statement concerning the condition of the survey will be made after the survey has been completely verified.

(a) The preliminary verification revealed that soundings scanned from 808 fathometers were 2 fms. too shoal. Depths were read from templates erroneously set off from the 2-fm. line (depth of transceiver) instead of the zero line of the fathograms. The soundings have been corrected on the smooth sheet.

(b) The Descriptive Report is complete and comprehensive.

8. Compliance with Project Instructions

The present survey adequately complies with the Project Instructions.

9. Field Work Recommended

This is a very good basic survey and requires no additional field work.

Examined and approved

H. R. Edmonston
Chief, Nautical Chart Branch

H. Arnold Karo
Chief, Division of Charts

G. R. Fish
Chief, Section of Hydrography

Earl O. Heaton
Chief, Division of Coastal Surveys

Addendum to Review

H-7821 (1950)

Verified and inked by - J. C. Chambers (Norfolk Processing Office)
Review Addendum by - I. M. Zeskind 6-5-56
Inspected by - R. H. Carstens

The verification of this survey has been completed. Soundings and depth curves have been completely inked and junctional soundings of H-7821 have been transferred to verified contemporary surveys.

Junctions with Contemporary Surveys

An adequate junction was effected with H-7819 (1950) on the northeast. Junctions with the remaining surveys have been considered in the reviews of those surveys.

Comparison with Chart 1003 (latest print date 3-26-56

The charted hydrography originates with advance information of the present survey to which velocity corrections to soundings were not applied. Differences between the charted and present depths vary from 2 - 70 fms. in depths ranging from 100-1800 fms.

The present survey supersedes the charted hydrography.

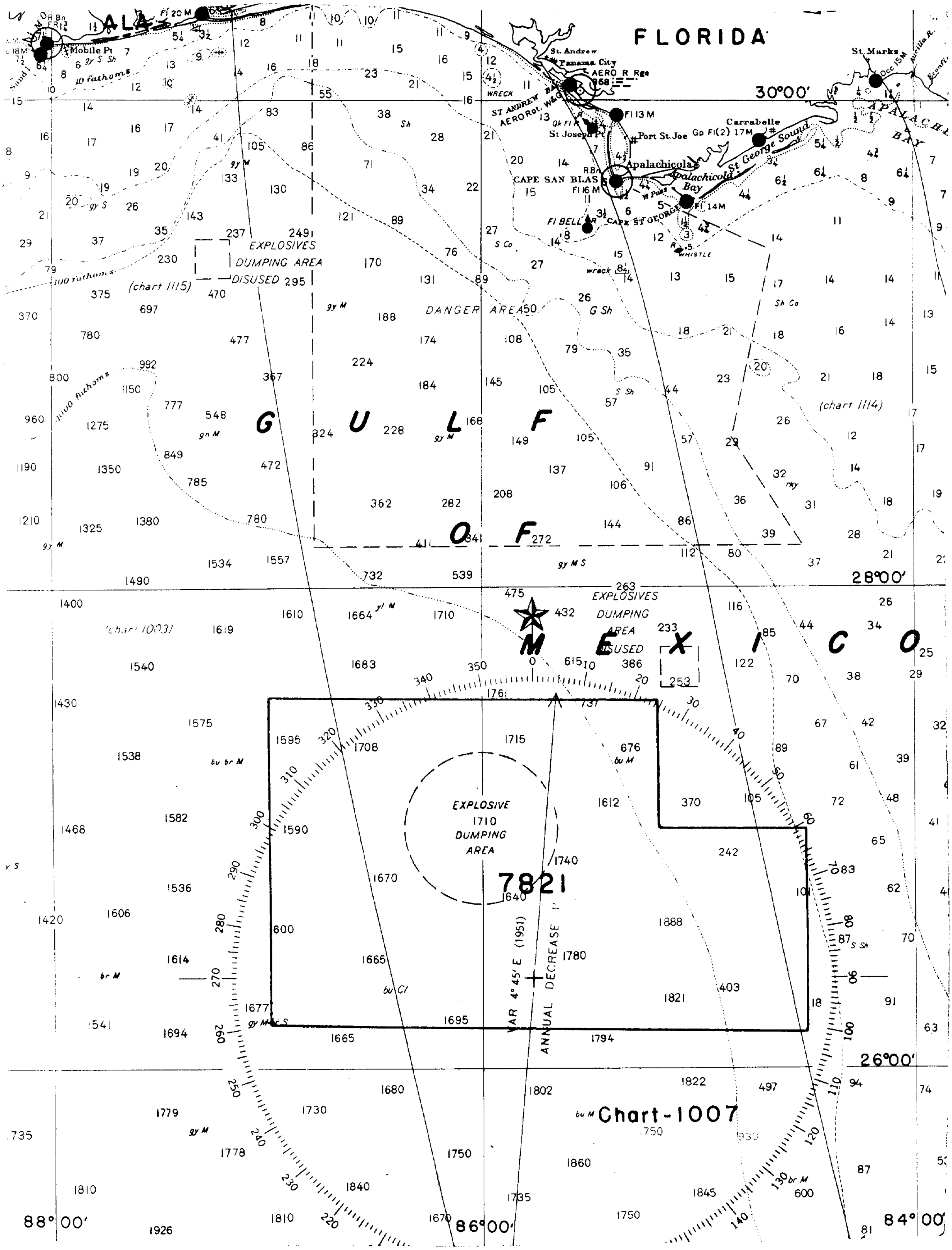
Condition of Survey

(a) Completion of verification and inking reveals that the smooth plotting was well done, except as noted in paragraph 7a of the Review.

(b) The Descriptive Report is complete and comprehensive.

Approved:

Acting Chief,
Chart Division


FLORIDA
ALA
GULF OF MEXICO
St. Andrew
Panama City
St Joseph Pt
Port St. Joe
Carrabelle
St George Sound
Apalachicola
Apalachicola Bay
CAPE SAN BLAS
CAPE ST GEORGE
St. Marks
Mobile Pt
EXPLOSIVES DUMPING AREA DISUSED
DANGER AREA
EXPLOSIVE 1710 DUMPING AREA
7821
VAR 4°45' E (1951)
ANNUAL DECREASE
Chart-1007
(chart 1115)
(chart 1114)
(chart 1003)
30°00'
28°00'
26°00'
88°00'
86°00'
84°00'

NAUTICAL CHARTS BRANCH

SURVEY NO. H-7821

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
12/1/58	1003	N.W. Burgoyne	~~Before~~ After Verification and Review Completely applied
1-20-59	1007	R.K. DeLaubenfels	~~Before~~ After Verification and Review. Thru Chart 1003
2 Mar 59	1002	Nichols	~~Before~~ After Verification and Review Thru 1003 above
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.