

9005

Diag. Cht. Nos. 1117 & 1286

NOAA FORM 76-35A

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

DESCRIPTIVE REPORT
(HYDROGRAPHIC)

BASIC
Type of Survey ... **HYDROGRAPHIC**
Field No. **745-20-2-68**
Office No. **H-9005**

LOCALITY

State **TEXAS**
General Locality ... **LAGUNA MADRE**
Locality **BAFFIN BAY (EASTERN PART)**

1968

CHIEF OF PARTY
A. P. SIBOLD, III

LIBRARY & ARCHIVES

DATE **12/3/69**

9005

CARD
made

FORM C&GS-537
(5-66)

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

REGISTER NO.

HYDROGRAPHIC TITLE SHEET

H-9005

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

FIELD NO.

745-20-2-68

State Texas

General locality Coast of Texas Laguna Madre

Locality Baffin Bay (Eastern Part) + ~~Alazan Bay~~

Scale 1:20,000 Date of survey June¹⁹--Sept²³ 1968

Instructions dated November 1, 1967 Project No. OPR-481

Vessel Launch CS-520 Hydrographic Field Party #745

Chief of party LT Arthur P Sibold III

Surveyed by A.P. Sibold/B.H. Traugher

Soundings taken by echo sounder, ~~hand lead~~, pole DE-723 #216; pole

Graphic record scaled by Hydrographic Field Party 745 personnel

Graphic record checked by Hydrographic Field Party 745 personnel

Protracted by ~~Gerber Digital Plotter~~ Automated plot by Pacific Marine Center

Soundings penciled by Gerber Digital Plotter

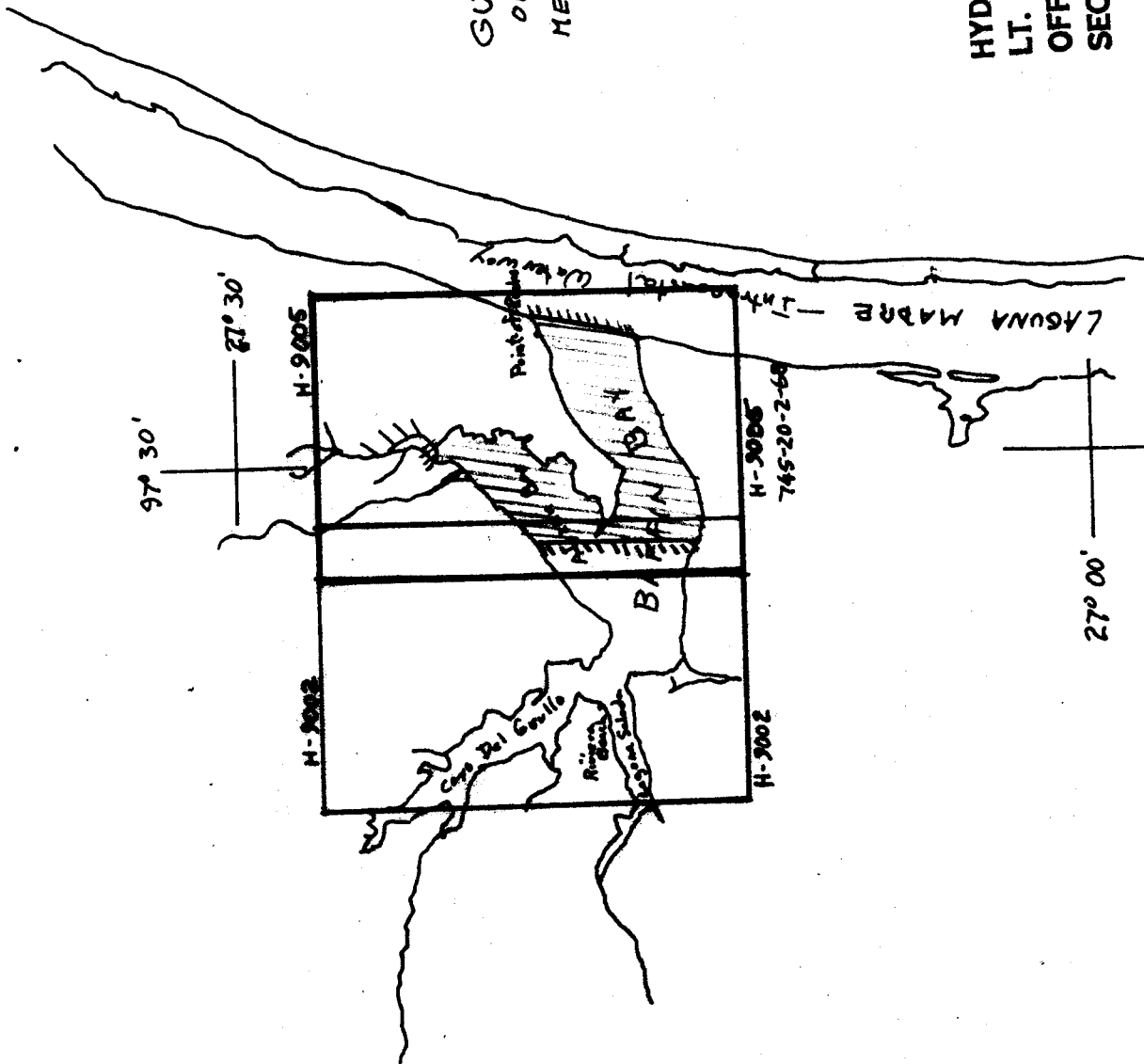
Soundings in ~~XXXXXXX~~ feet at MLW ~~XXXXXX~~ and are true depths.

REMARKS: Basic survey; no prior survey for 90% of area; junctions with H-9002 (1968)

GNS
JMS

GULF
OF
MEXICO

HYDROGRAPHIC FIELD PARTY 745
LT. ARTHUR P. SIBOLD, III
OFFICER - IN - CHARGE
SECTION OF CHART: 1117



A 16 foot aluminum skiff was used in rocky areas and along the shoreline. Purple ink identifies the work accomplished with this boat. The skiff used position numbers 5000 through 5673. Launch Ex-3 (249) identified by blue ink was used to obtain Bottom Samples (Positions 7000-7009)

D. SOUNDING EQUIPMENT

Soundings were obtained from Launch CS-520 using Raytheon DE-723 #216. Velocity Table No. 2 applies to all soundings recorded by this instrument. The velocity table was computed from bar checks, and includes instrument and transducer corrections.

Pole soundings were obtained from the skiff, and as necessary by the launch. These pole soundings are clearly marked in the launch sounding volumes.

No malfunctioning of the fathometer which would affect the accuracy of the soundings was detected.

Echo soundings are recorded to the nearest 0.2 foot. Corrections to echo soundings (settlement & squat, initial, velocity, tide reducer) are all determined to the nearest 0.2 foot.

E. SMOOTH SHEET

The smooth sheet ^{WAS} ~~will be~~ machine plotted at Pacific Marine Center.

F. CONTROL

Horizontal control was by visual fix. Strong fixes were obtained throughout the survey area. All signals were either triangulation marks or photo signals, except for two hydrographic signals located by three-point sextant fix.

Signals were transferred from the following photo manuscripts (all scale 1:20,000):

<u>Sheet</u>	<u>Date</u>
T-13013	1967 Incomplete
P-13015	" "
T-13016	" "
T-13143	" "
T-13144	" "

G. SHORELINE

Boatsheet shoreline was transferred from the Incomplete Manuscripts listed above in F. The shoreline and topographic details have been verified. Boatsheet lost overboard during rough weather.

The low water line could not be defined by soundings, due to the very low tidal range (mean diurnal range 0.1 ft).

See review para. 3

H. CROSSLINES

Agreement on crosslines ^{is} was good, but not excellent. Use of smooth tide reducers is expected to eliminate boatsheet discrepancies.

I. JUNCTIONS

Excellent junction with boatsheet 745-20-1-68^{H-9002 (1968)} on the west was obtained. This survey was accomplished by this same unit earlier in the year.

J. COMPARISON WITH THE CHART

No chart covers the survey area. See review para. 7

K. COMPARISON WITH PRIOR SURVEYS

No presurvey review. No prior surveys. See review para. 6

L. ADEQUACY OF SURVEY

This survey is complete and adequate to compile a chart at the same scale or smaller. Foul areas are defined. However, many more rocks exist within the foul areas than were located. Photogrammetric positions of rocks and shoals were verified by the survey.

In Alazan Bay, sounding line spacing was widened by a factor of two, in order to complete the survey. Alazan Bay was sounded almost entirely by sounding pole. The foul areas in Baffin Bay proper were likewise sounded by pole.

Numerous small private aids to navigation (i.e. stakes) exist in the surveyed area; these were not located.

M. AIDS TO NAVIGATION

Coast Guard maintained markers leading from the entrance are tabulated in a separate report on Landmarks for Charts and Fixed Aids to Navigation.

N. STATISTICS

Nautical Miles Sounding Line (Launch CS-520).....130.9
 Nautical Miles Sounding Line (Skiff)..... 85.7
 Number of Positions (Launch CS-520).....9776
 Number of Positions (Skiff).....673
 Bottom Samples.....(Launch Ex-3 (1249)).....20-9

O. MISCELLANEOUS

No entry ✓

P. RECOMMENDATIONS

None. No further field work is recommended. ✓

Q. REFERENCES TO REPORTS ✓

None

Submitted:

Arthur P Sibold III

Arthur P Sibold III
 LT USC&GS

ABSTRACT OF CORRECTIONS TO ECHO SOUNDINGS

Survey No. H-9005

Boatsheet 745-20-2-68 (1968)

The following velocity table (obtained from bar checks) ✓
applies to:

Fathometer DE-723 #216
Launch CS-520
1 March to 24 September 1968

VELOCITY TABLE NO. 2

<u>Fathometer</u>	<u>Depth</u>	<u>Correction</u>
1.1 ft to	3.0 ft	0.2 ft
3.1	5.5	0.4
5.6	8.3	0.6
8.4	10.0	0.8

VELOCITY TABLE NO. 3

0.0 ft to 14.0 ft 0.0 ft

The following table of settlement & squat correctors
applies to:

Launch CS-520
1 March to 24 September 1968

STOP to	2500 rpm	0.0 ft
2501	3750 rpm	0.2
3751	FULL (Standard)	0.4
Planing Speed		-0.2

Both the above tables apply only to echo soundings
obtained by Launch CS-520 during the period 1 March
through 12 September 1968.

APPROVAL SHEET

Survey No. H-9005 (1968)

The field work for this survey was conducted under my direct supervision. All field records, computations, and survey data processed by this field unit have been examined by me and are approved.

This survey is considered adequate for charting. In the interest of expediency, line spacing was widened to 400 meters in Alazan Bay, while 200 meter spacing was used throughout the rest of the survey area. However, no further field work is recommended.

Approved & Forwarded:

Arthur P Sibold III

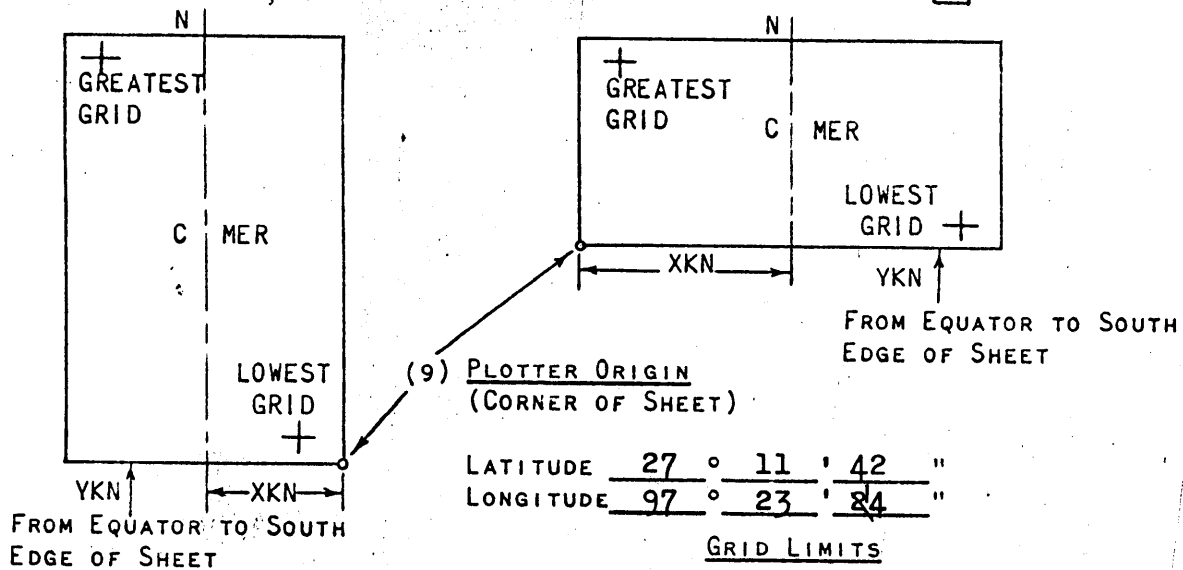
Arthur P Sibold III
LT-USC&GS
Officer-in-Charge
Hydrographic Field Party 745

FORM # 1

FIG. 15

PARAMETERS FOR DIGITAL COMPUTING
POLYCONIC PROJECTION

- (1) PROJECT No. OPR-481 (4) REQUESTED BY AMC
- (2) H No. H-9005 (5) SHIP OR OFFICE Hydro Party 745
- (3) FIELD No. 745-20-2-68 (6) DATE REQUIRED --
- (7) VISUAL (8) ELECTRONIC (FILL OUT FORM #3)
- (10) XKN (SP 5) DISTANCE FROM CMER TO EAST EDGE (NYX = 1)
OR WEST EDGE (NYX = 0). 9244.8 METERS
- (11) YKN (SP 241) DISTANCE FROM EQUATOR TO SOUTH EDGE
OF SHEET. 3,009,069.1 METERS
- (12) CENTRAL MERIDIAN 97° 29 ' 00 "
- (13) SURVEY SCALE 1: 20,000
- (14) SIZE OF SHEET (CHECK ONE) 36x54 42x60 OTHER
- (15) NYX, ORIENTATION OF SHEET (CHECK ONE)
NYX = 1 NYX = 0



GRID LIMITS

- (16) GREATEST LATITUDE 27° 26 ' 00 '' (PROJECTION LINE
- (17) LOWEST LATITUDE 27° 12 ' 00 '' INTERVAL, PAGE 4
- (18) DIFFERENCE ° 14 ' 00 '' HYDRO MANUAL)
- (19) 01 ' 00 ''
- (20) 14 YSN
- (21) GREATEST LONGITUDE 97° 34 ' 00 ''
- (22) LOWEST LONGITUDE 97° 24 ' 00 ''
- (23) DIFFERENCE ° 10 ' 00 ''
- (24) 01 ' 00 ''
- (25) 10 XSN

LIST G.P. OF ALL STATIONS TO BE PLOTTED ON THIS PROJECTION ON THE BACK OF THIS FORM. (DEG., MIN., SEC.)

Comp: HLP
CKD: WWF

NORFOLK HYDROGRAPHIC PROCESSING BRANCH
LIST OF SIGNALS
H-9005 (1968)

TRIANGULATION STATIONS

139 048 AGUA, 1912-49 ✓
139 004 ALAZAN, 1939-49
139 015 PENESCAL, 2, 1912-49
139 013 137(U.S.E.), 1939-50
139 010 ROX, 1912-49
139 009 KENEDY, 1877-1949

PHOTO-HYDRO STATIONS

SOURCE T-13015

243 046 ACE ✓ 006 ARK 057 GUN
243 047 MAR ✓ 045 POI ✓
243 001 PIM ✓ 007 NIG ✓
002 TON 017 RYE ✓
005 TEL 058 KIS ✓

SOURCE T-13016

243 003 SIN ✓ 33 03 1786 0472407640 002 TON 243
243 011 PEG ✓ 005 TEL 243 20210622 0972407640
243 012 DOG ✓
243 016 MOT ✓ 33401028 097283399
243 103 FIN ✓

SOURCE T-13143

242 044 BON ✓

HYDROGRAPHIC STATIONS

252 008 WOP Vol. 1, pg. 63 ✓
252 014 SEX Vol. 1, pg. 63

20-2-68
H-9005

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
TO BE REVISED
TO BE DELETED

STRIKE OUT TWO

I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks be charted on (deleted from) the charts indicated.

The positions given have been checked after listing by

This list provides positions used for these signals

FEBRUARY, 1968

HYDRO Chief of Party

STATE	CHARTING NAME	DESCRIPTION	BACK SIGNAL NAME	LATITUDE*		LONGITUDE*		METHOD OF LOCATION AND SURVEY NO.	SIGNAL NAME OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				D.M. METERS	"	D.M. METERS	"						
✓	✓	ALAZAN, 1939 - 1949	710.6	27° 19'	36.912	97° 29'	38.380	✓	ZAN				
✓	✓	AGUA, 1912 - 1949	729.1	27° 19'	36.312	97° 33'	54.647	✓	AGUA				
✓	✓	RABBIT 2, 1912 - 1949	1,658.9	27° 18'	06.102	97° 30'	34.639						
✓	✓	BRUSH, 1939 - 1949	795.8	27° 14'	187.87	97° 29'	24.354	✓					
✓	✓	GRIFINS POINT	475.0	27° 15'	44.527	97° 26'	16.940						
✓	✓	PENESCAL 2, 1912 - 1949	437.0	27° 14'	45.801	97° 29'	40.918	✓	CAL				
✓	✓	KENEDY, 1877 - 1949	196.2	27° 01'	1,409.7	97° 45'	12.125	✓	NED				
✓	✓	ROX, 1912 - 1949	1,633.5	27° 21'	06.928	97° 24'	52.320	✓	ROX				
✓	✓	NO. 137 (USE), 1939 - 1949	612.8	27° 15'	213.27	97° 25'	45.177	✓	USE				
✓	✓	HIND JOSO, 1949 - 1949	379.4	27° 23'	47.674	97° 29'	42.857	✓					
✓	✓	FRANK 2, 1912 - 1949	433.9	27° 22'	45.900	97° 28'	35.028	✓					
✓	✓	GRIFINS POINT	507.6	27° 15'	43.508	97° 26'	962.5	✓					
					1,339.1		17.223						
							473.8						
													COMP. SUR
													SKR
													OFF
													✓

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

TO BE CHARTED
~~TO BE REVISIONED~~
~~TO BE DELETED~~

STRIKE OUT TWO

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

HYDROGRAPHIC FIELD PARTY 745 February, 1968

I recommend that the following objects which have (~~been~~ ~~inspected~~) been inspected from seaward to determine their value as landmarks be charted on (~~insert from~~) the charts indicated.

The positions given have been checked after listing by S. L. Reiter

Herold M. Ward
 LT-USNA - DIC - HFP Chief of Party.

CHART NO.	DESCRIPTION	SIGNAL NAME	POSITION						METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	NEARBY CHART	CHARTS AFFECTED
			LATITUDE*		LONGITUDE*		DATUM						
			D. M. METERS	"	D. M. METERS	"							
R "2"	BAFFIN BAY DAY BEACON "2"		27	16	38.34	97	24	N.A.	T-13016	X		894 893-SC	
R "4"	" " " " "4"		27	16	39.31	97	25	"	T-13016	X		894 893-SC	
R "6"	" " " " "6"	DOG	27	16	40.22	97	25	"	T-13016	X		894 893-SC	
R "8"	" " " " "8"		27	16	41.20	97	26	"	T-13016	X		894 893-SC	
R "10"	" " " " "10"		27	16	38.34	97	26	"	T-13016	X		894 893-SC	
R "12"	" " " " "12"		27	16	35.41	97	26	"	T-13016	X		894 893-SC	
R "14"	" " " " "14"		27	16	32.94	97	27	"	T-13016	X		894 893-SC	
R "16"	" " " " "16"		27	16	29.76	97	27	"	T-13016	X		894 893-SC	
R "18"	" " " " "18"		27	16	23.33	97	28	"	T-13016	X		894 893-SC	
R "20"	" " " " "20"		27	16	16.31	97	28	"	T-13016	X		894 893-SC	
R "22"	" " " " "22"		27	16	10.01	97	28	"	T-13016	X		894 893-SC	
R "24"	" " " " "24"		27	16	03.25	97	29	"	T-13016	X		894 893-SC	
R "26"	" " " " "26"		27	15	57.21	97	29	"	T-13016	X		894 893-SC	
R "28"	" " " " "28"		27	15	51.14	97	29	"	T-13016	X		894 893-SC	
					1574	97	29	"	T-13016	X		894 893-SC	

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FORM C&GS-567 (6-55)
 DRY BEACONS
 OPR-481
 H-9002 & H-9005

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

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE REVISED~~ } STRIKE OUT TWO
 TO BE DELETED

HYDROGRAPHIC FIELD PARTY 745 February, 1968

I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing by
 S. L. Reiter
Ernest M. Ward
 Chief of Party

STATE	COUNTY	DESCRIPTION	SIGNAL NAME	POSITION			METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	CHARTS AFFECTED
				LATITUDE*	LONGITUDE*	DATUM			
				° ' "	° ' "				
				D.M. METERS	D.P. METERS				
R	"30"	Baffin Bay Day Beacon	"30"	27 15 45.23	97 30 10.18	N.A.	T-13016		874
R	"32"	"	"32"	27 15 39.12	97 30 30.39	"	T-13016		874
R	"34"	"	"34"	27 15 12.04	97 30 8.36	"	T-13015		874
R	"36"	"	"36"	27 15 33.33	97 30 49.65	"	T-13015		874
R	"38"	"	"38"	27 15 10.26	97 31 14.69	"	T-13015		874
R	"40"	"	"40"	27 15 24.63	97 31 4.04	"	T-13015		874
R	"42"	"	"42"	27 15 35.90	97 31 38.30	"	T-13015		874
R	"44"	"	"44"	27 15 11.03	97 31 15.59	"	T-13015		874
R	"46"	"	"46"	27 15 37.12	97 32 03.56	"	T-13015		874
R	"48"	"	"48"	27 15 11.44	97 32 98	"	T-13015		874
R	"50"	"	"50"	27 15 38.53	97 32 27.95	"	T-13015		874
R	"52"	"	"52"	27 15 11.86	97 32 76.9	"	T-13015		874
R	"54"	"	"54"	27 15 39.57	97 32 48.49	"	T-13015		874
R	"56"	"	"56"	27 15 12.18	97 32 13.34	"	T-13015		874
R	"58"	"	"58"	27 15 40.68	97 33 09.34	"	T-13015		874
R	"60"	"	"60"	27 15 12.5	97 33 25.7	"	T-13015		874
R	"62"	"	"62"	27 15 41.85	97 33 29.23	"	T-13015		874
R	"64"	"	"64"	27 15 12.88	97 33 80.4	"	T-13015		874
R	"66"	"	"66"	27 15 42.96	97 33 52.60	"	T-13015		874
R	"68"	"	"68"	27 15 13.22	97 33 14.47	"	T-13015		874
R	"70"	"	"70"	27 15 44.51	97 34 20.68	"	T-13015		874
R	"72"	"	"72"	27 15 13.70	97 34 56.9	"	T-13015		874
R	"74"	"	"74"	27 15 46.17	97 34 54.05	"	T-13015		874
R	"76"	"	"76"	27 15 14.21	97 34 14.87	"	T-13015		874
R	"78"	"	"78"	27 15 47.34	97 35 14.98	"	T-13015		874
R	"80"	"	"80"	27 15 14.57	97 35 4.2	"	T-13015		874

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* TABULATE SECONDS AND METERS

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
-TO BE REVISED-
-TO BE DELETED-
STRIKE OUT NO

HYDROGRAPHIC FIELD PARTY 745 FEBRUARY, 1968

I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on (deleted from) the charts indicated.

The positions given have been checked after S. L. REITER

Arnold M. Ward
S-18558 Chief of Party

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION						DATE OF LOCATION SURVEY	METHOD OF LOCATION SURVEY	DATE OF LOCATION	HARBOR CHART	NEARBY CHART	OFFSHORE CHART	CHARTS AFFECTED
			LATITUDE		LONGITUDE		DATUM								
			D. M. S.	N. S.	D. M. S.	N. S.									
R "58"	Baffin Bay Day Beacon	"58"	27	15	48.12	97	35	31.30	N.A.	T-13015	X	X	X	893-SC	
R "60"	"	"60"	27	16	00.32	97	36	05.53	"	T-13015	X	X	X	893-SC	
R "62"	"	"62"	27	16	07.83	97	36	26.21	"	T-13015	X	X	X	893-SC	
R "64"	"	"64"	27	16	14.52	97	36	44.72	"	T-13015	X	X	X	893-SC	
R "66"	"	"66"	27	16	19.17	97	36	57.66	"	T-13015	X	X	X	893-SC	
R "68"	"	"68"	27	16	25.80	97	37	15.86	"	T-13015	X	X	X	893-SC	
R "70"	"	"70"	27	16	33.69	97	37	30.65	"	T-13015	X	X	X	893-SC	
R "72"	"	"72"	27	16	46.56	97	37	57.57	"	T-13014	X	X	X	893-SC	
R "74"	"	"74"	27	16	55.95	97	38	21.56	"	T-13014	X	X	X	893-SC	

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Norfolk, Virginia
May 8, 1969

AMC PLOTTER NOTE TO EDAT

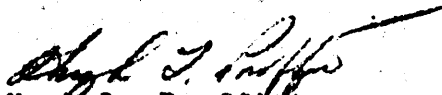
(1968) (1968)
SURVEYS H-9002 & H-9005

Enclosed are tapes and printouts of the control stations for these two surveys. They are to be processed on a priority basis and you are supposed to receive confirmation for this from Rockville Office.

Please furnish overlays for the control stations at your earliest convenience. We will forward the tapes for the raw data soundings, etc., when we get them logged.

The boat sheet for H-9005¹⁹⁶⁸ was lost overboard in the field and a copy of H-9002 has never been made to my knowledge.

You will note that we have called for the projection for H-9002¹⁹⁶⁸ to be plotted on 42" paper as some of the control stations would fall off the edge of 36" paper. We plan to trim the paper to a smaller size later.


Hugh L. Proffitt
Chief, Hydro Branch, AMC

Verifier: W.L. Jonns

Norfolk, Va.
May 27, 1969

AMC PLOTTER NOTE TO EDAT

SURVEY H-9005 (1968)

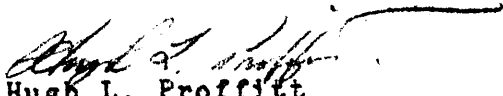
The signal overlay has been checked and found to be correct except in one instance.

Please make signal correction as follows:

09005 006 27-17' 1018m 97-31' 0097m ARK

When the above correction has been made, please furnish this office a position printout and overlay.

Note: We have been notified unofficially that a priority will be assigned to this survey.


Hugh L. Proffitt
Chief, Hydro Br., AMC

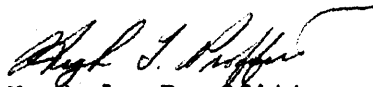
VERIFIER: Dan Munford

Norfolk, Va.
June 30, 1969

AMC PLOTTER NOTES TO EDAT

SURVEY H-9005 (1968)

1. The position overlay for this survey has been verified and it was found that 68 positions were incorrectly plotted.
2. We are forwarding a position tape giving the correct location of ~~1~~ these positions.
3. At present, there are two position cards for position no. 698. Please pull both of these cards as the new position tape will give the correct location.
4. After the above corrections have been made, please furnish this office a sounding overlay. It is not considered necessary to make a corrected position overlay as we can check the accuracy of the plot with the sounding overlay.
5. Prompt action on the sounding overlay will be appreciated as this is a priority survey


Hugh L. Proffitt
Chief, Hydro Branch, AMC

VERIFIER: Dan Munford

Norfolk, Va.
July 29, 1969

MAC PLOTTER NOTE TO EDAT
SURVEY H-9005 (1968)


Sounding and position printouts are being returned to you with needed corrections marked in red pencil.

Only two position need correcting. They are nos. 257 & 5025.

In addition to scattered corrections needed on the sounding printout, those soundings at the end of the printout that needed velocity and tide data have been corrected and reduced.

When the above corrections have been made, please furnish this office a smooth plot.

You will recall that this is a priority survey.


Hugh L. Proffitt
Chief, Hydro Br., AMC

H- 9005

- A. Additions and corrections have been furnished the plotter
Except those listed for correction
center by the verification unit. by Review.

Date Nov. 25, 1969

Signed *Abraham J. Poffen*
Title Chief, Hydro Branch, AMC

- B. Additions and corrections have been added to the survey
Review
records and the final smooth sheet forwarded to the ~~verification~~
~~unit~~ unit.

Date Nov. 25, 1969

Signed *Abraham J. Poffen*
Title Chief, Hydro Branch, AMC

- C. The smooth sheet has been inspected, is complete, and
meets the requirements of the General Instructions for
automated surveys and the Hydrographic Manual. (Note:
All exceptions are listed in the verifier's report).

Date Nov. 25, 1969

Signed *Abraham J. Poffen*
Title Chief, Hydro Branch, AMC

- D. Smooth sheet and records forwarded to Rockville, Maryland
Office.

Date November 26, 1969.

NORFOLK HYDROGRAPHIC PROCESSING BRANCH
VERIFICATION NOTES
H-9005 (1968)

GENERAL

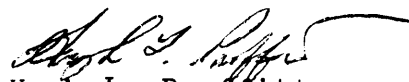
This appears to be an excellent basic survey. No unusual problems were experienced during the smooth plot.

The sounding volumes were revised for automation, and all raw data and corrections were logged in this office as Party 745 was not equipped with loggers.

Only an overlay is available as the original boat sheet was lost overboard during rough weather.

SOUNDINGS

Soundings between positions 5363-4, 5367-8, 5373-5 and 5378-9 were hand plotted as "no bottom" depths. Presumably a six foot pole was used to obtain these soundings.


Hugh L. Proffitt
Chief, Hydro Branch, AMC

Norfolk, Va.
Nov. 25, 1969

TIDE NOTE

Survey No. H-9005

Boatsheet 745-20-2-68 (1968)

TIDE STATION: Point-of-Rocks, Baffin Bay, Texas
Lat: 27° 18.61' N
Long: 97° 27.37' W

TIME ZONE: 90° West

PLANE OF REFERENCE: Mean Low Water
MLW = 1.3 ft on 1968 staff

TIDAL ZONING: None

TIDE NOTE FOR HYDROGRAPHIC SHEET

February 27, 1969

~~Nautical Chart Division~~ Atlantic Marine Center

Plane of reference approved ~~XX~~ 3 pages
~~volume of sounding records~~ for

HYDROGRAPHIC SHEET 9005

Locality: Baffin Bay, Texas

Chief of Party: A. P. Sibold, 1968

Plane of reference is mean low water

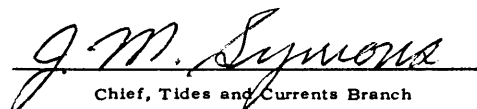
Tide Station: Used (Form C&GS-681):

Point O'Rocks, Baffin Bay, Texas

Height of Mean High Water above Plane of Reference is as follows:

0.1 ft.

Remarks


Chief, Tides and Currents Branch

ABSTRACT TIDE CORRECTIONS
(See instructions on reverse side)

U.S. DEPARTMENT OF COMMERCE
ESSA
COAST AND GEODETIC SURVEY

1. HYDRO. SURVEY NO:		2. FIELD NO.		3. SURVEY LOCATION		4. MACHINE ENTRY FMS.	5. TIDE STATION USED (As Form 681)	6. CORRECTION USED ZONE DESIGNATION
H-9005		745-20-2-68		Baffin Bay, Texas				
7. MO. DAY YR. OR DAY NO. (Date)	8. POSITION NUMBER	9. TIME		10. TIDE REDUCERS FT.	11. TIDE REDUCERS FMS.	12. TIDE REDUCERS FMS.	13. TIDE STATION USED (As Form 681)	14. CORRECTION USED ZONE DESIGNATION
		15. FROM	16. TO					
6-19-68 (171)		10 53 00	12 39 00	+0.2			Point-of-Rocks; Baffin Bay, Texas Plane of Reference Approved Datum Planes Section Date 2/27/69 cit	None
6-20-68 (172)		09 52 00	14 40 00	+0.1				
6-21-68 (173)		08 25 00	11 55 00	0.0				
7-2-68 (184)		08 49 00	14 03 00	0.0				
7-10-68 (192)		09 41 00	14 04 00	-0.3				
7-16-68 (198)		09 57 00	13 02 00	0.0				
7-17-68 (199)		10 29 00	13 35 00	0.0				
7-29-68 (211)		08 17 00	13 09 00	+0.1				
8-5-68 (218)		08 13 00	14 31 00	+0.2				
8-6-68 (219)		09 38 00	14 21 00	+0.2				
8-7-68 (220)		08 51 00	13 25 00	+0.2				
8-8-68 (221)		10 26 00	13 25 00	+0.2				

APPROVED

5. CHECKED
APS

INSTRUCTIONS FOR PREPARATION AND SUBMITTAL

The information entered on this form shall be derived from associated tide records and together with those records be forwarded to the Washington Office for administrative approval by Tides and Currents Branch, Marine Data Division, Office of Oceanography.

Instructions by item number.

1. Enter the survey number
2. Enter the field number.
3. Enter the survey locality.
4. Enter the time meridian used.
5. Checked: Enter field approval
Approved: Indicate Washington Office approval.

Instructions by columns (letters):

- a. Enter the day of the year. A coded entry must be identifiable in the Washington Office.
- b. Enter the position number of the sounding line where the reducer is to first apply.
- c. Enter the time in hours and minutes that the reducer listed in "d" is used.
- d. Enter the tide reducer necessary to correct the sounding to the plane of the reference.

The value entered by the field personnel shall be certified by the Washington Office, or corrected and returned to the originator. Only approved information can be entered into the smooth (edited) tape.

- e. Enter the tide value from the previous column (Tide reducer) applied to a tide base of +60.0.

Example:

$$\begin{array}{r} +60.0 \\ - 3.1 \text{ (from column d.)} \\ \hline +56.9 \text{ (into column e.)} \end{array}$$

This summed value shall be punched into the paper tape.

- f. Enter the origin of the tidal record from which the reducers in column "d" were derived. The entry must be identical with the terminology expressed in form 681.
- g. Enter the additional information used to determine the corrections: Ratio of Range, \pm time necessary to correct for the gage position, and zone designation.

ABSTRACT TIDE CORRECTIONS
(See instructions on reverse side)

U.S. DEPARTMENT OF COMMERCE
ESSA
COAST AND GEODETIC SURVEY

1. HYDRO. SURVEY NO:		2. FIELD NO.		3. SURVEY LOCATION		4. TIME MERIDIAN	5. CORRECTION USED ZONE DESIGNATION
H-9005		745-20-2-68		Baffin Bay, Texas			
6. MO. DAY YR. OR DAY NO. (Date)	7. POSITION NUMBER	8. TIME		9. TIDE REDUCERS FT. XXXXXXFT.	10. MACHINE ENTRY FMS.	11. TIDE STATION USED (As Form 682)	12. CORRECTION USED ZONE DESIGNATION
		FROM	TO				
8-9-68 (222)		08 57 00	13 10 00	+0.2 ✓		Point-of-Rocks; Baffin Bay, Texas	None
8-14-68 (227)		09 40 00	13 00 00	+0.4 ✓			
8-15-68 (228)		13 11 00	13 55 00	+0.4 ✓			
8-16-68 (229)		11 19 00	13 20 00	+0.5 ✓			
8-19-68 (232)		09 57 00	11 22 00	+0.4 ✓			
8-20-68 (233)		08 00 00	11 08 00	+0.4 ✓			
8-21-68 (234)		08 51 00	11 47 00	+0.4 ✓			
8-22-68 (235)		09 41 00	12 20 00	+0.4 ✓			
8-23-68 (236)		08 55 00	12 27 00	+0.3 ✓			
8-24-68 (237)		10 06 00	15 46 00	+0.2 ✓			
8-26-68 (239)		10 57 00	15 36 00	+0.0 ✓			
8-27-68 (240)		09 26 00	13 00 00	0.0 ✓			

Plane of Reference Approved
Datum Planes Section
Date 2/27/69 *ext*

APPROVED

3. CHECKED
APS

INSTRUCTIONS FOR PREPARATION AND SUBMITTAL

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Instructions by item number.

1. Enter the survey number
2. Enter the field number.
3. Enter the survey locality.
4. Enter the time meridian used.
5. Checked: Enter field approval
Approved: Indicate Washington Office approval.

Instructions by columns (letters):

- a. Enter the day of the year. A coded entry must be identifiable in the Washington Office.
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- d. Enter the tide reducer necessary to correct the sounding to the plane of the reference.

The value entered by the field personnel shall be certified by the Washington Office, or corrected and returned to the originator. Only approved information can be entered into the smooth (edited) tape.

- e. Enter the tide value from the previous column (Tide reducer) applied to a tide base of +60.0.

$$\begin{array}{r} \text{Example:} \quad +60.0 \\ \quad \quad \quad - 3.1 \text{ (from column d.)} \\ \hline \quad \quad \quad +56.9 \text{ (into column e.)} \end{array}$$

This summed value shall be punched into the paper tape.

- f. Enter the origin of the tidal record from which the reducers in column "d" were derived. The entry must be identical with the terminology expressed in form 681.
- g. Enter the additional information used to determine the corrections: Ratio of Range, \pm time necessary to correct for the gage position, and zone designation.

ABSTRACT
(See instructions on reverse side)

U.S. DEPARTMENT OF COMMERCE
ESSA
COAST AND GEODETIC SURVEY

1. HYDRO. SURVEY NO:		2. FIELD NO.		3. SURVEY LOCATION		4. TIME MERIDIAN	9. CORRECTION USED ZONE DESIGNATION
a. MO. DAY YR. OR DAY NO. (Date)	b. POSITION NUMBER	c. TIME FROM TO	d. TIDE REDUCERS FT.	e. MACHINE ENTRY FMS.	f. TIDE STATION USED (As Form 681)		
H-9005		745-20-2-68	Baffin Bay, Texas			75° West	
8-28-68 (241)		09 11 00 14 34 00	0.0		Point-of-Rocks; Baffin Bay, Texas		None
8-30-68 (243)		09 48 00 14 16 00	-0.2				
9-3-68 (247)		09 30 00 09 54 00	-0.5				
9-6-68 (250)		11 30 00 13 39 00	-0.2				
9-9-68 (253)		10 17 00 15 29 00	-0.3				
9-10-68 (254)		11 44 00 14 43 00	-0.2				
9-19-68 (263)		09 07 00 15 59 00	-0.6				
9-20-68 (264)		09 25 00 13 32 00	-0.6				
9-23-68 (267)		09 04 00 13 26 00	-0.4				

Plane of Reference Approved
Datum Planes Section
Date 2/27/69

INSTRUCTIONS FOR PREPARATION AND SUBMITTAL

The information entered on this form shall be derived from associated tide records and together with those records be forwarded to the Washington Office for administrative approval by Tides and Currents Branch, Marine Data Division, Office of Oceanography.

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2. Enter the field number.
3. Enter the survey locality.
4. Enter the time meridian used.
5. Checked: Enter field approval
Approved: Indicate Washington Office approval.

Instructions by columns (letters):

- a. Enter the day of the year. A coded entry must be identifiable in the Washington Office.
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- g. Enter the additional information used to determine the corrections: Ratio of Range, \pm time necessary to correct for the gage position, and zone designation.

GEOGRAPHIC NAMES

Survey No. H-9005

Name on Survey	Source of Name											
	A	B	C	D	E	F	G	H	K			
Baffin Bay ✓												1
Alazan Bay ✓												2
Laguna Madre ✓												3
Penascal Rincon ✓												4
Point of Rocks												5
Point Penascal ✓												6
East Kleberg Point ✓												7
Los Corrales												8
Black Bluff												9
starvation Point												10
												11
												12
												13
												14
												15
												16
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												23
												24
												25
												26
												27

PREPARED BY

Frank W. Roberts
CARTOGRAPHIC TECHNICIAN

APPROVED BY

A. Joseph Wright
CHIEF GEOGRAPHER

FORM C&GS-946
(REV. 11-65)
(PRESC. BY
HYDROGRAPHIC
MANUAL 20-2,
8-94, 7-13)

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

HYDROGRAPHIC SURVEY STATISTICS
HYDROGRAPHIC SURVEY NO. H-9005 (745-20-2-68)

RECORDS ACCOMPANYING SURVEY: To be completed when survey is registered.

RECORD DESCRIPTION		AMOUNT	RECORD DESCRIPTION		AMOUNT	
SMOOTH SHEET & Pos.Overlay		/	BOAT SHEETS		NONE	
DESCRIPTIVE REPORT		/	OVERLAYS		1 + 1	
DESCRIPTION	DEPTH RECORDS	HORIZ. CONT. RECORDS	PRINTOUTS	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS / SOURCE DOCUMENTS
ENVELOPES						
CAHIERS	1					
VOLUMES	10					
BOXES			1			

T-SHEET PRINTS (LIST) T-13015, T-13016, T-13143, T-13014, T-13142 & T-13144

SPECIAL REPORTS (LIST)

OFFICE PROCESSING ACTIVITIES

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

PROCESSING ACTIVITY	AMOUNTS			
	PRE-VERIFICATION	VERIFICATION	REVIEW	TOTALS
POSITIONS ON SHEET				1678 ⁵
POSITIONS CHECKED		270		
POSITIONS REVISED		71		
DEPTH SOUNDINGS REVISED				
DEPTH SOUNDINGS ERRONEOUSLY SPACED				
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED		NONE		
	TIME (MANHOURS)			
TOPOGRAPHIC DETAILS		64		
JUNCTIONS		5		
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS		8		
<i>Logging Preliminary SPECIAL ADJUSTMENTS</i>	96			
ALL OTHER WORK		101		
TOTALS	96	178	96	

PRE-VERIFICATION BY <u>D.R. Mumford & D.C. Galt</u>	BEGINNING DATE <u>5/6/69</u>	ENDING DATE <u>5/20/69</u>
VERIFICATION BY <u>D.R. Mumford & G.F. Trefethen</u>	BEGINNING DATE <u>6/24/69</u>	ENDING DATE <u>11/19/69</u>
REVIEW BY <u>Deanna J. Barnesburg</u>	BEGINNING DATE <u>1-10-72</u>	ENDING DATE <u>1-28-72</u>
<u>Approved: Cartographer's 3 hrs 1/12/72 Imp. Fargue's 49 hrs 10-25-72</u>		

H-9005

Items for Future Presurvey Reviews

<u>Position Index</u>		<u>Bottom Change Index</u>	<u>Use Index</u>	<u>Resurvey Cycle</u>
<u>Lat.</u>	<u>Long.</u>			
272	0974	3	1	50 years
272	0973	3	2	50 years
271	0974	3	1	50 years
271	0973	3	2	50 years

REGISTRY NO. H-

The Computer and Excess Sounding Cards for this survey have not been corrected to reflect the changes made to the Computer Card and Excess Card Printouts at this time of the review.

When the cards have been updated to reflect the final results of the survey, the following shall be completed:

CARDS CORRECTED

DATE TIME REQUIRED INITIALS

REMARKS:

During update, all hand-plotted soundings, crossed out in the final excess sounding printout, should be restored to the smooth plot data bank in the appropriate format.

REGISTRY NO. H-9005

The magnetic tape containing the data for this survey has not been corrected to reflect the changes made during evaluation and review.

When the magnetic tape has been updated to reflect the final results of the survey, the following shall be completed:

MAGNETIC TAPE CORRECTED

DATE 11/6/80 TIME REQUIRED INITIALS pek

REMARKS:

OFFICE OF MARINE SURVEYS AND MAPS
MARINE CHART DIVISION
HYDROGRAPHIC SURVEY REVIEW

REGISTRY NO. H-9005

FIELD NO. 745-20-2-68

Texas, Laguna Madre, Baffin Bay (Eastern Part)

SURVEYED: June 19 - September 23, 1968

SCALE: 1:20,000

PROJECT NO.: OPR-481

SOUNDINGS: DE-723 Depth Recorder,
Sounding Pole

CONTROL: Sextant Fixes
on Shore
Signals

Chief of Party A. P. Sibold III
Surveyed by A. P. Sibold III
..... B. H. Traughber
Automated Plot by Gerber Digital Plotter
..... (PMC)
Verified and Inked by D. R. Mumford
..... G. F. Trefethen
Reviewed by D. J. Romesburg
..... Date: January 28, 1972
Inspected by F. B. Powers

1. Description of the Area

This survey covers the eastern portion of Baffin Bay from its juncture with Laguna Madre westward to longitude 97°33' and the portion of Alazan Bay from longitude 97°33' northeastward.

The bottom is generally sloping or flat, with intermittent rocky shoals and foul areas extending as much as 2/3 mile off shore in Baffin Bay. The rocks (locally named wormrock because of their marine life composition) seldom extend above the sounding datum and, in many instances, are privately marked with stakes and pipes.

Access into Baffin Bay from Laguna Madre and the Intracoastal Waterway is through a natural channel of approximately 400 meters in width and 8-10 feet in depth that passes directly between two rocky reefs that guard the entrance of Baffin Bay.

The predominant bottom characteristics inshore are sand and shells, whereas mud is mostly offshore.

2. Control and Shoreline

The origin of the control is given in Part F of the Descriptive Report.

The shoreline originates with the reviewed photogrammetric manuscripts T-13013, T-13015, T-13016, T-13143, and T-13144 of 1967-68.

3. Hydrography

A. Depths at crossings are in good agreement.

B. The usual depth curves were adequately delineated. Because of the very low tidal range (mean diurnal range 0.1 ft.), the low water line could not be defined by soundings.

C. The development of bottom configuration and the investigation of least depths are considered adequate.

4. Condition of the Survey

The survey records, automated plotting, and the Descriptive Report are adequate and conform to the requirements of the Hydrographic Manual and the Manual for Automated Hydrographic Surveys.

5. Junctions

An adequate junction was effected with H-9002 (1968) on the west. Survey depths are in adequate agreement with charted depths at the limit of the project on the east.

6. Comparison with Prior Surveys

There are no prior surveys of this area. Two Corps of Engineers reconnaissance surveys that included the entrance to Baffin Bay only were run along the Intracoastal Waterway in Laguna Madre in 1909 and 1931-32; however, no effective comparison with these surveys could be accomplished.

7. Comparison with Chart 893-SC, 2nd Ed., August 7, 1971

A. Hydrography

The charted hydrography originates with the verified smooth sheet of the present survey, supplemented by two early Corps of Engineers reconnaissance surveys (Bp 14167 and Bp 31730-33) run in 1909 and 1931-32, respectively.

Attention is directed to the following:

(1) The numerous rocks charted from Corps of Engineers surveys were not verified or disproved by the hydrographer and should be retained on the chart. The rocks listed below, charted outside the foul limits of the present survey, should be retained as charted until investigated further.

Sunken rock	Lat. 27°16.52',	long. 97°25.03'	Bp 31730
Sunken rock	Lat. 27°16.67',	long. 97°25.05'	Bp 14167

(2) A marker charted in latitude 27°16'18", longitude 97°28'26" is depicted on the right half of side B by a small circle. The word "marker" has been omitted. On the left side of side B, the marker symbol and description are not charted. The chart should be revised so both sides concur with the present smooth sheet.

(3) A number of soundings and submerged rocks have been revised during the review process. It is recommended that the chart be revised to reflect these changes also.

B. Topography

(1) The pier ruins located on the present survey in latitude 27°18'38", longitude 97°27'22" were originally charted in this position on chart 894 as a pier. However, when chart 893-SC superseded chart 894, the pier was omitted. It is recommended that the pier, now in ruins, be recharted.

(2) Several shoreline changes, notably in latitude 27°19'00", longitude 97°25'30" and latitude 27°15'41", longitude 97°27'00", originate with air photo revisions on Bp 79050 subsequent to the date of present survey and should be retained on the chart.

C. Aids to Navigation

(1) Baffin Bay Day Beacons No. 2 through No. 44 agree with their charted positions and adequately serve the purposes intended.

Except as noted above, the present survey is adequate to supersede the charted hydrography within the common area.

8. Compliance with Project Instructions

The survey adequately complies with the Project Instructions.

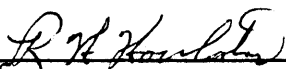
9. Additional Field Work

This survey is considered to be an excellent basic survey. The entrance to Baffin Bay marked by beacons "2" and "4" should be investigated for dangers, including the following two rocks:

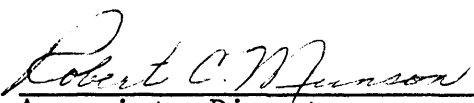
(1) Sunken rock charted in latitude $27^{\circ}16.67'$, longitude $97^{\circ}25.05'$ from Bp 14167.

(2) Sunken rock charted in latitude $27^{\circ}16.52'$, longitude $97^{\circ}25.03'$ from Bp 31730 of the Corps of Engineers.

Examined and Approved:



Chief
Marine Chart Division



Associate Director
Office of Marine Surveys
and Maps

DESCRIPTIVE REPORT

to accompany

Boatsheet No. 745-20-2-68 (H-9005) 1968

Hydrographic Field Party 745

Scale 1:20,000

LT Arthur P Sibold III

Chief of Party

A. PROJECT

This hydrographic survey was authorized under Project Instructions dated 1 November 1967, (OPR-481).

B. AREA SURVEYED

Baffin Bay, the area covered by the survey, is a large, semi-exposed, and very shallow body of water not directly open to the Gulf of Mexico. Baffin Bay is bordered on the east by the Intracoastal Waterway, running through Laguna Madre. The Intracoastal Waterway is further bordered on the east by Padre Island. The nearest direct opening to the Gulf of Mexico is at Port Aransas, some 37 miles to the north.

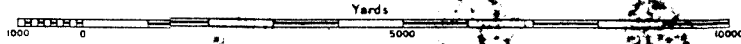
^{H-9005 (1968)}
Baffin Bay branches into three smaller arms: Alazan Bay, Cayo del Grullo, and Laguna Salada. This boatsheet (745-20-2-68) covers the eastern half of Baffin Bay, and almost all of Alazan Bay. Boatsheet 745-20-1-68 (H-9002) 1968 which junctions on the west, covers the remainder of the Baffin Bay, plus most of Laguna Salada and Cayo Del Grullo.

No prior surveys of the area exist, except for the entrance to the Bay, which is adjacent to the Intracoastal Waterway. The Bay has depths ranging from $\frac{1}{2}$ to 9 feet, with many sunken rocks and obstructions.

The area covered by this boatsheet is 33 square miles.

C. SOUNDING VESSEL

Launch CS-520, a modified 19 foot ski barge, was the primary sounding vessel. Red ink identifies the work of this vessel. Position numbers 1 through 976 were used.

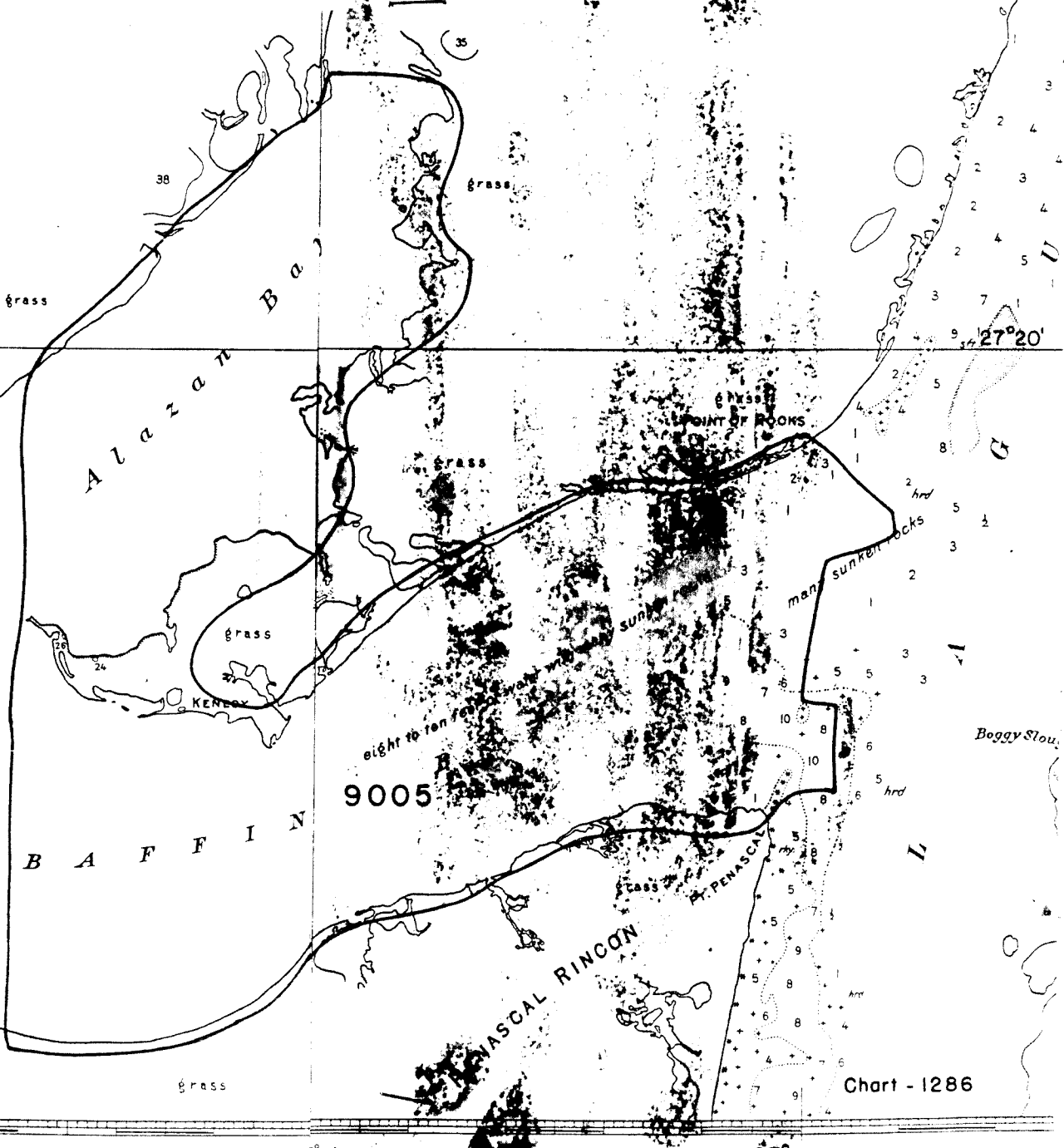


20'

27° 20'

(CONTINUED ON PLAN)

15'



9005

eight to ten fathoms

Chart - 1286

97° 30'

97° 25'

LOG

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. H-9005

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
893-SC	2-4-70	F. Pooker	Full Part ^{Before} After Verification Review Inspection Signed Via
		Review - Kennox	Drawing No. Hydro. completely applied through-out
			Baffin Bay, Cape Del Grillo and Laguna Salada - before tables.
893-SC	4-21-77	R. Wylie	Full Part ^{Before} After Verification Review Inspection Signed Via
			Drawing No. 6
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
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			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
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JUL Day began 17168 yr
ended 26768 yr

Records in Survey 5695

Tp Made mo d yr

Car