NOAA FORM 76-35 (6-80)

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

DESCRIPTIVE REPORT

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Map No.	Edition No.
т-12531	1
Job No.	
PH-6401	
Map Classification	
FINAL, FIELD EDITED MAP	•
Type of Survey	
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Locality	
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	TIDE STAGE REFERENCE				ZONE	
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	REFERENCE STATION RECOR		(I) INFRARE		MERIDIAN	DAYLIGHT
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NOAA FORM 76-36C (3-72)	н	T-12531 STORY OF FIELD	NATIONAL OCEA		IOSPHERIC AI	OF COMMERCI DMINISTRATIO OCEAN SURVE
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6		RECOVERED BY				ay/Jun196
2. HORIZONTAL CO		ESTABLISHED BY				ay/Jun196
	PRE-MARKE	D OR IDENTIFIED BY	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		141	ay/Jun196
3. VERTICAL CONT	· ROI	ESTABLISHED BY	110.15			
S. VENTICAL CONT		D OR IDENTIFIED BY	None	 -	+ -	
			None		-	
4. LANDMARKS AND	•	ngulation Stations) BY	None			-
AIDS TO NAVIGA	LUCAI	ED (Field Methods) BY	None None			· -
-	TYPE OF	IDENTIFIED BY	MOHE			
5. GEOGRAPHIC NA	MES COMP	LETE			}	
INVESTIGATION		IFIC NAMES ONLY			1	
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6. PHOTO INSPECT	ION CLARIFICA	TION OF DETAILS BY	E. Cline		М	ay/Jun196
7. BOUNDARIES AN		D OR IDENTIFIED BY				
II. SOURCE DATA						<u> </u>
I. HORIZONTAL CO	NTROL IDENTIFIED		2. VERTICAL CO	TROL IDENT	IFIED	
			None		<u>-</u>	
PHOTO NUMBER	STATION N	AME	PHOTO NUMBER	5 T A	TION DESIGN	ATION
	*Section of ratio	photo submitted				
		prioco subilizace	1			
	s (Clarification of details)) 7808, 7809 and 78	ll (Matte Con	tacts)			
4. LANDMARKS AND	AIDS TO NAVIGATION IDE	NTIFIED				
None			·			
PHOTO NUMBER	OBJECT N	AME	PHOTO NUMBER		OBJECT NAM	ME.
5. GEOGRAPHIC NA	MES: REPORT	XX NONE	6. BOUNDARY AN	D LIMITS:	REPORT	NONE
7. SUPPLEMENTAL	MAPS AND PLANS					
None						
	······································					
B. OTHER FIELD RE	ECORDS (Sketch books, etc. [00 NOT list data subm	itted to the Geodesy D	ivision)		
1 -	Form 152 (CSI)					
4 – 1						

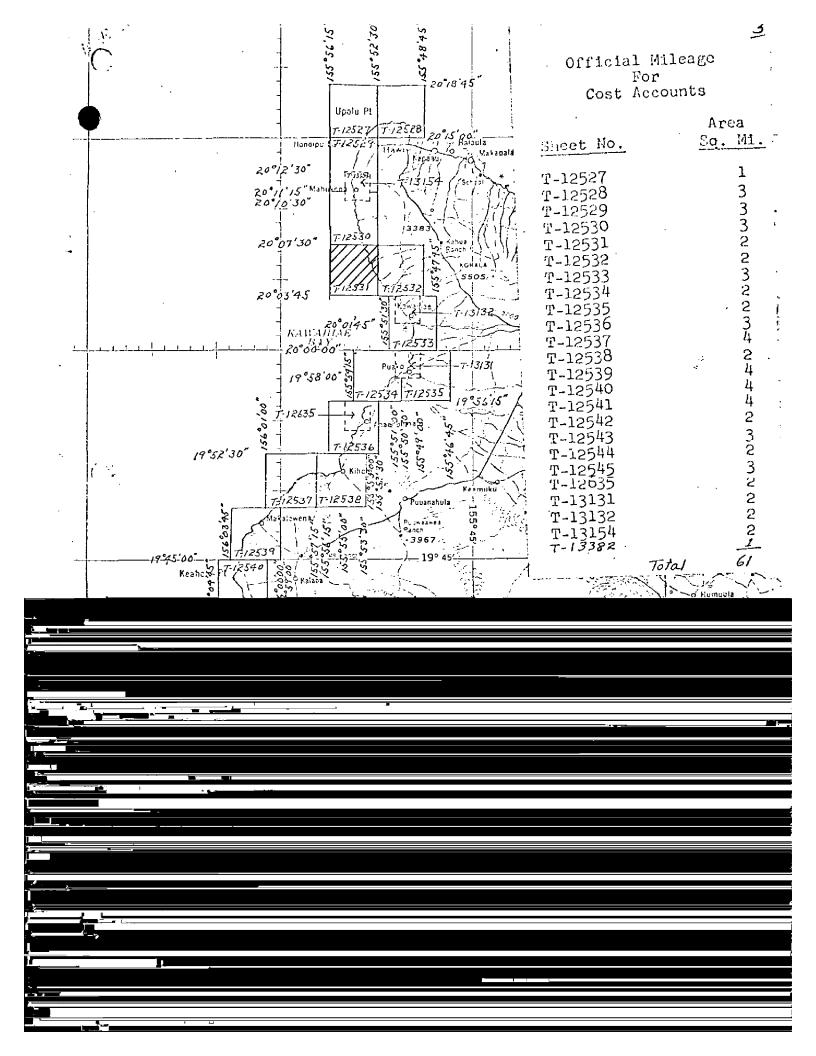
NOAA FORM 76-36(c	T-12531 History of Field		IIC AND ATMOSPHER	MENT OF COMMERCE IC ADMINISTRATION NAL OCEAN SURVEY
1 FIELD INSPECTION OPERATION FIELD EDIT OPERATION					
<u> </u>		OPERATION	N.	AME	DATE
1. CHIEF OF FIEL			(USC&GS Ship R. Newsom		Dec 1968
		RECOVERED BY			
2. HORIZONTAL	ONTROL	ESTABLISHED BY	None		
		PRE-MARKED OR IDENTIFIED BY	None		
		RECOVERED BY	None		
3. VERTICAL CON	IT ROL	ESTABLISHED BY	None		
PRE-MARKED OR IDENTIFIED BY			None		
		RECOVERED (Triangulation Stations) BY	None		
4. LANDMARKS AND LOCATED (Field Methods) BY		None			
		None			
		TYPE OF INVESTIGATION			
5. GEOGRAPHIC N		CÓMPLETE BY	1		
INVESTIGATION	N	SPECIFIC NAMES ONLY			
		XX NO INVESTIGATION	<u> </u>		
6. PHOTO INSPEC	TION	CLARIFICATION OF DETAILS BY	None		
7. BOUNDARIES A		SURVEYED OR IDENTIFIED BY	None		<u> </u>
II. SOURCE DATA		DENTIFIED	2. VERTICAL CON	TRAL IDENTIFIED	
None	JONINGLI	DENTIFIED	1	NOE IDENTIFIED	
			None	 _	
PHOTO NUMBER		STATION NAME	PHOTO NUMBER	STATION DE	ESIGNATION
	·				
3. PHOTO NUMBERS (Clarification of details)					
None					
	ND AIDS TO	NAVIGATION IDENTIFIED	<u> </u>	<u> </u>	
PHOTO NUMBER		OBJECT NAME	PHOTO NUMBER	OBJECT	NAME
•					
5. GEOGRAPHIC N	IAMES:	REPORT X NONE	6, BOUNDARY AND	LIMITS: REPO	ORT TY NONE
5. GEOGRAPHIC NAMES: REPORT IN NONE 6. BOUNDARY AND LIMITS: REPORT NONE 7. SUPPLEMENTAL MAPS AND PLANS					
None					
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division) 1 - Field Edit PaperPrint					
l - Fi€	eld Edi	t Report			

NOAA FORM 76-36D (3-72)

T-12531

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

 		RECO	ORD OF SURVE	Y USE		
I. MANUSC	RIPT COPIES					·
	Co	MPILATION STAG	Es		DATE MANUSCR	PT FORWARDED
	DATA COMPILED	DATE		MARKS	MARINE CHARTS	HYDRO SUPPORT
Compila	tion complete	1	Class III N	_	ot	1
pending	field edit	Oct.1968	(Includes f	-		Oct.1968
		 	inspection	<u>n)</u>	Oct.1968	Dec 1969
	dit applied,	1 .				
compila	tion compléte	Jan.1970	Class I Ma	anuscript	Mar.1977	Nov.1970
Final Re	eview	Oct.1986	Final Map		mar 1987	mar 1987
-					,	
II. LANDM	ARKS AND AIDS TO NAVIG	ATION N	one			L
1. REPO	ORTS TO MARINE CHART D	IVISION, NAUTICA	L DATA BRANCH			
NUMBER	CHART LETTER Number Assigned	DATE FORWARDED			REMARKS	
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	·		<u> </u>		<u>.</u>	
					•	
2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: None						
3. REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED:						
1. *\bar{\pi}\pi	BRIDGING PHOTOGRAPHS; CONTROL STATION IDENT SOURCE DATA (except for C ACCOUNT FOR EXCEPTIO	DUPLICATION CARDS	FORM NOS	S 567 SUBMIT		
4. 🗌	DATA TO FEDERAL RECO	RDS CENTER, DA	TE FORWARDED:			-
IV. SURVE	Y EDITIONS (This section	shall be completed t	each time a new mag	o edition is re	gistered)	
	SURVEY NUMBER	JOB NUMBI	ER		TYPE OF SURVEY	
SECOND	TP -	_ (2) PH			REVISED RES	SURVEY
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THIRD	TP	_ (3) PH			REVISED RES	BURVEY
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	SURVEY NUMBER	JOB NUMBI	ER .	-	TYPE OF SURVEY	
FOURTH	тр	_ (4) PH		1	REVISED RES	ŰRVÉY
EDITION	DATE OF PHOTOGRAP	HY DATE OF F	TELD EDIT	_	MAP CLASS	
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SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

T-12531

This 1:10,000 scale final shoreline map is one of twenty-three maps that comprise PH-6401, Hawaii Island, Hawaii, West Coast, Upolo Point to Kailua. The project consists of seventeen 1:10,000 scale maps (T-12527 thru T-12541, T-12543, T-12545) and six 1:5,000 scale inset maps (T-12542, T-12544, T-12635, T-13131, T-13132, T-13382).

The purpose of this map was to furnish data in support of hydrographic operations and to provide current shoreline data for marine charts.

This map portrays a portion of shoreline along the northwest coast of Hawaii Island from Lat. 20° 05.5' to Lat. 20° 07.5'.

Photo coverage for the project was adequately provided in August/September 1963 using the Wild RC-8 "S" camera. Photography consisted of 1:30,000 scale panchromatic photographs used for field inspection and aerotriangulation. The 1:20,000 and 1:15,000 scale color photographs were used for compilation and hydro support. The 1:20,000 scale photo coverage was obtained for the 1:10,000 scale maps and the 1:15,000 scale photographs provided coverage of the 1:5,000 scale inset maps. Additional color photographs at 1:15,000 scale were obtained in February 1969 with the Wild RC-8"E" camera. These photographs were bridged and a supplemental plot report was prepared in order to compile three 1:5,000 scale inset maps (T-13131, T-13132 and T-12635). The stage of tide for all project photographs was based upon predicted tide data. No infrared photographs were provided.

Field work prior to aerotriangulation consisted of the recovery and establishment of horizontal control by photoidentification methods. In addition, a field inspection was performed for the project area utilizing the 1:30,000 scale photographs. This activity was conducted in May/June 1964.

Analytic aerotriangulation was adequately provided by the Washington Science Center in three phases. Initial bridging activity was accomplished for seven of the northern project maps in June 1966. The second phase was conducted for the remaining project maps in February 1969. A final bridge was provided in October 1971 for the 1969 photo coverage of three 1:5,000 scale inset maps. Aerotriangulation activity included ruling the base manuscripts and also provided ratio photographs for the compilation and hydrographic/field edit operations.

Compilation for this map was performed at the Coastal Mapping Section, Atlantic Marine Center in October 1968. Copies of the manuscript and hydrographic support data were forwarded to the hydrographer for field edit. A copy of the manuscript was also submitted to the Marine Charts Section.

T-12531

Field edit for this map was conducted in conjunction with hydrographic survey H-9017 by USC&GS Ship McARTHUR personnel in December 1968.

Application of field edit data was accomplished at the Atlantic Marine Center in January 1970 and the manuscript was advanced to Class I. A copy of the Class I manuscript was forwarded to the Hydrographic Surveys Branch.

Final review was performed at the Atlantic Marine Center in October 1986. A comparison was made with the common nautical chart(s) and hydrographic survey(s). The original base manuscript and related data along with a final Chart Maintenance Print and a Hydrographic Print were forwarded to the Washington Science Center for registration and distribution.

FIELD INSPECTION T-12531

Field activity prior to compilation included a field inspection of the shoreline and the recovery/photoidentification of horizontal control necessary for project aerotriangulation. Results of the 1964 field inspection were submitted on the 1:30,000 scale contact photographs.

PHOTOGRAMMETRIC BRIDGE REPORT Hawaii Island, Hawaii Job PH-6401

June, 1966

21. Area Covered

This report covers only Strip #1 and Strip #2 which fall along the northwestern tip of Hawaii Island. T-sheets in this area are numbered 12527 through T-12533.

22. Method

Both strips were bridged on the stereoplanigraph and were adjusted by IBM 1620 methods. Strip #1 was adjusted on five control stations with four additional stations as checks. Strip #2 was adjusted on four control stations with two additional stations as checks. All tie points between strips were averaged.

23. Adequacy of Control

The control provided by the field was adequate but did not comply with project instructions in that many stations were identified directly with no substation. The following stations could not be held in the bridging adjustments.

- 1. KAWAIHAE LIGHT 1948. The field misidentified this station by some 1,500 feet. The description places this station to the southeast of where it was pricked.
- 2. KEPUHI 2, 1948, SS #1. The substation was misidentified during bridging operations; however, the home station held in the bridge.
- 3 & 4. MAHUKONA HARBOR SOUTH DAY BEACON 1910 and MAHUKONA NORTH DAY BEACON 1910. These two stations were identified directly. No Form 152's were provided by the field. The identification seems to fit the descriptions; however, the two stations could not be held in either bridge by same amounts (30' to 35'). In view of the bridging results, using the other control stations, and the good junction between strips, the two stations were disregarded. It is recommended that a field check of these stations be made during hydro operations.

24. Supplemental Data

Local Geological Survey Quads of the area were used to establish rough elevations for bridging.

25. Photography

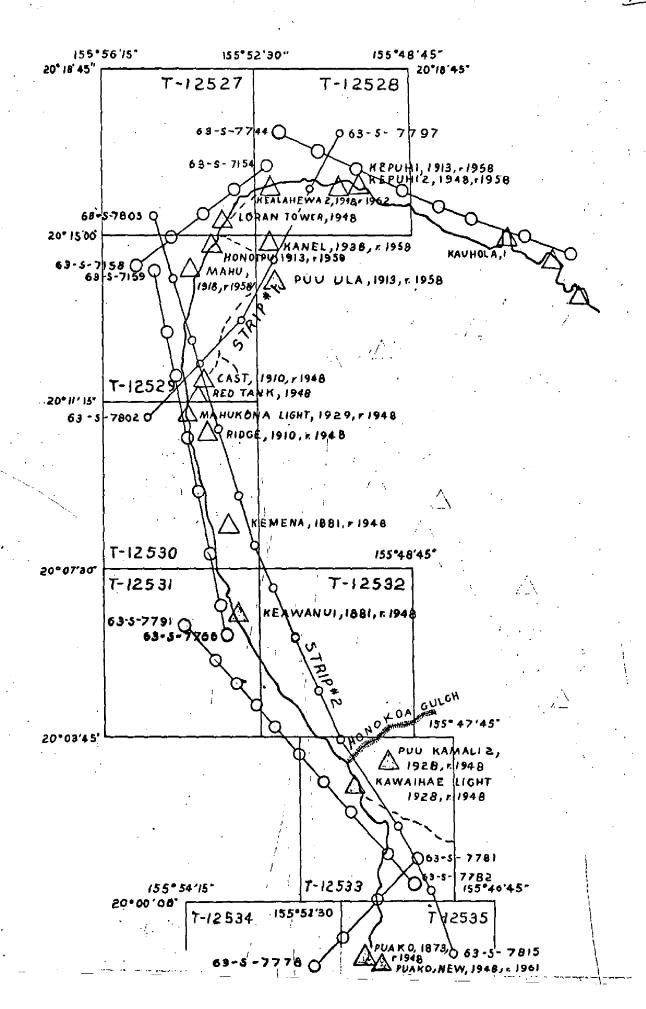
Photography was adequate as to coverage, overlap, definition and quality of diapositives.

Submitted by:

Paul Hawkins

Approved by:

John D. Perrow, Jr.

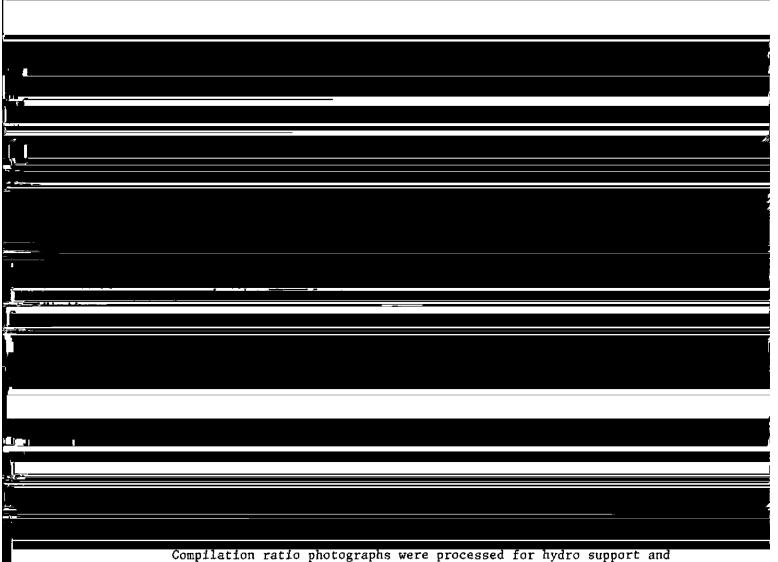


NOAA FORM 41 (6-75)					U.S.	U.S. DEPARTMENT O DAMBERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
		DESCRIPTIV	CRIPTIVE REPORT CONTROL RECORD			
MAP NO.	ON BOL	:	GEODETIC DATUM	0	ORIGINATING ACTIVITY	TY Coastal Mapping
T-12531	PH-6401		Old Hawaiian	<u>s</u>	Section, AMC,	:->
		AEROTRI-	COORDINATES IN FEET	GEOGRAPHIC POSITION	POSITION	
NAME OF A LO	INFORMATION (Index)	POINT NUMBER	zone 1		LONGITUDE	AFMAN'S
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Listed BY R. White		DATE 9/68	ز ا	Rauck		DATE 9/68
HAND PLOTTING BY		DATE	1			DATE
		SUPERSEOES NO	SUPERSEDES NOAA FORM 70-41, 2-71 EDITION WHICH IS OBSOLETE	CH IS OBSOLETE.		

COMPILATION REPORT T-12531

31 - DELINEATION

Delineation was by instrument methods using the Wild B-8 stereoplotter and 1:20,000 scale color photographs. The 1:30,000 scale panchromatic field inspection photographs were used during compilation; however, many of the field identified rocks were not discernible when



Compilation ratio photographs were processed for hydro support and were used graphically to assist in delineation of minor details. Photo coverage and quality were adequate.

32 - CONTROL

Refer to the Photogrammetric Plot Report, dated June 1966.

33 - SUPPLEMENTAL DATA

None.

T-12531

40 - HORIZONTAL AND VERTICAL ACCURACY

Refer to the Photogrammetric Plot Report dated June 1966.

46 - COMPARISON WITH EXISTING MAPS

A comparison was made with U.S.G.S Quadrangle, Keawanui Bay, Hawaii, dated 1957, scale 1:24,000.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with USC&GS Chart 4140, scale 1:80,000, 3rd edition, dated Jan. 24, 1966.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by

Jeny L. Harrock for R. R. White

Cartographic Aid September 1968

Approved

or Albert C. Rauck, Jr.

Geny L. Harrowh

Chief, Coastal Mapping Section

14

ADDENDUM TO THE COMPILATION REPORT

T-12531

Field edit was performed concurrent with hydrographic survey H-9017. Adequate field data was furnished in order to advance the manuscript to Class I status.

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6401 (Hawaii, West Coast I. of Hawaii) T-12531

Keawanui Bay

Keawaula Bay

Malae Point

Pacific Ocean

Wawahonu Bay

Approved by:

A. Joseph Wraight

Chief Geographer

Prepared

Frank W. Pickett Cartographic Technician

Field Edit Report to Accompany T12531

USC&GSS MCARTHUR

Ronald L. Newsom CDR, USESSA Commanding Officer

51 METHODS

Manuscript T 12531 was field edited by personnel aboard the USC&GSS McARTHUR in conjunction with the hydrography on boatsheet AR 10-6-68 (H9017). Shoreline inspection and all other acquisition of field edit material was accomplished from Launch AR-1. The delineation of the MLIW line was rendered impossible by the rocky, jagged shoreline. The steep bottom contour and small range of tides indicated that the MLIW line should approximately coincide with the MHWL. Additions and corrections to the manuscript have been noted on the field edit ozalid provided for T 12531 in blue pencil. No cross references to photos were necessary. No deletions on the field edit ozalid were made.

52 ADEQUACEY OF COMPILATION

Manuscript T 12531 is complete and adequate for use in conjunction with this hydrographic survey, The area of this manuscript from the shoreline seaward, was field edited.

54 RECOMMENDATIONS

None

REVIEW REPORT T-12531

SHORELINE

61 ~ GENERAL STATEMENT

Final review for this final field edited map was accomplished at the Atlantic Marine Center in October 1986. For a schedule of the office and field operations, refer to the Summary included with this Descriptive Report.

62 - COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Not applicable.

63 - COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with U.S.G.S quadrangle Keawanui Bay, Hawaii, dated 1957, scale 1:24,000.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with a portion of hydrographic survey H-9017, AR-10-6-68, 1:10,000 scale, field surveyed 1968. The comparison did not reveal any significant discrepancies; however, it was noted that several alongshore foul limits delineated on the map were not transferred to the hydrographic survey. It appears that alongshore sounding development took precedence over the foul limits.

65 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with NOS chart 19327, scale 1:80,000, 8th edition, Sept. 5, 1981.

66 - ADEQUACY OF RESULTS AND FUTURE SURVEYS

This map complies with the Project Instructions, and meets the requirements for National Standards of Map Accuracy.

T-12531

Submitted by

Jerry L. Hancock Final Reviewer

Approved for forwarding

Billy H. Barnes

Chief, Photogrammetric Section, AMC

Approved

Oney O. Robon O. Y. Brynn Chief, Photogrammetric Production Sec. Chief, Photogrammetry Branch

CHART

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. $\underline{T-12531}$, $\underline{PH-6401}$

REMARKS

Full Part Before After Verification Review Inspection Signed Via

Full Part Before After Verification Review Inspection Signed Via

INSTRUCTIONS

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

DATE

CARTOGRAPHER

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 Revie

Drawing No.

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	Full Part Before After Verification Review Inspection Signed Via
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