NOAA FORM 76-35

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

DESCRIPTIVE REPORT

General Locality ... Dana .Point .to .Point . Vicente .

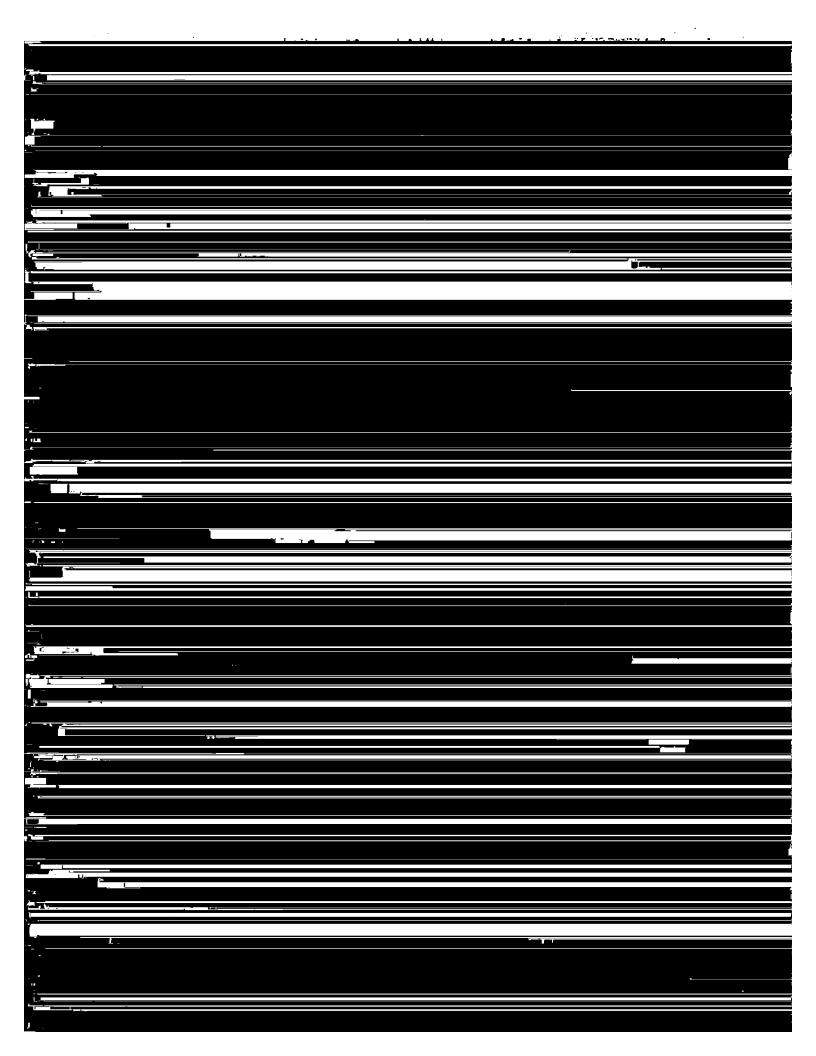
	NOAA FORM 76-36A (3-72) NATIONAL	U. S. DEPARTMENT OF COMMERCE OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	survey TP-00406
_			Ø ORIGINAL	MAP EDITION NO. (1)
	DESCRIPTIVE REI	PORT - DATA RECORD	RESURVEY	MAP CLASS Final
W.			REVISED	JOB PH- 7107
:	PHOTOGRAMMETRIC OFFICE			ING MAP EDITION
	Coastal Mapping Divis	ion, Atlantic Marine	TYPE OF SURVEY	JOB PH-
	Center, Norfolk, VA		ORIGINAL	MAP CLASS
	OFFICER-IN-CHARGE		RESURVEY REVISED	SURVEY DATES:
	Jeffrey G. Carlen, CD	R	REVISED	19TO 19
	I. INSTRUCTIONS DATED			
,	1.	OFFICE	Z-	FIELD
	Aerotriangulation	August 17, 1971	Premarking	March 1, 1971
	Compilation	Nov. 05, 1971	Premarking	E-1 25 1072
	Supplement 1 Amendment 1	Oct. 09, 1973 Oct. 30, 1973	Supplement I	February 25, 1972
_	Amend. 1 to Supp. 1	•		
	Amenda 1 co suppl			
			<u> </u>	
	II. DATUMS		OTHER (Specify)	
	1. HORIZONTAL:	X 1927 NORTH AMERICAN		
		X MEAN HIGH-WATER	OTHER (Specify)	
	2. VERTICAL:	MEAN LOW-WATER MEAN LOWER LOW-WATER		
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		MEAN SEA LEVEL		
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NOAA FORM 76-36B (3-72)				NA	TIONAL OCE		ATMOSPHERIC	T OF COMMERCE
		COM	PILATIO	N SOUR	CES		NATIONAL	_ OCEAN SURVEY
1. COMPILATION PHO	TOGRAPHY							
CAMERA(S) Wild RC	2_8_91.0		TYPE	S OF PHO	TOGRAPHY		TIME REFE	RENCE
TIDE STAGE REFEREN TIDE STAGE REFEREN REFERENCE STATI	CE ON RECORDS	Y		LOR NCHROMA FRARED	TIC	ZONE	Pacific _	XSTANDARD
NUMBER AND	ГҮРЕ	DATE	TIM	E	SCALE		STAGE OF	TIDE
71L(C) 1602 - *71L(I) 1982 -		3/5/71 3/6/71	13:0. 14:5.		1:15,000 1:15,000		2 ft. above 2 ft. of M	
REMARKS *Denotes 2. SOURCE OF MEAN		rolled phot	ography	у				
Office inter	pretation	of the abov	e listo	ed phot	cography.			
*Air photo c	ompilation	-tide contr	olled i	infrare	ed photog	raphy a	at [±] 0.2 ft.,	dated
4. CONTEMPORARY H	YDROGRAPHIC	SURVEYS (List o	nly those s	urveys the	t are sources	or photogra	anunetric survey i	nformation.)
SURVEY NUMBER	DATE(S)	SURVEY COF	Y USED	SURVEY	NUMBER	DATE(S)	SURVE	EY COPY USED
5. FINAL JUNCTIONS NORTH NO Contemporar Survey REMARKS		00407 ,000 scale		Surve	ontempora	ry	west TP-0 1:10,000	

NOAA FORM 76-36((3-72)	c		NATIONAL OCEANIC		TMOSPHERIC	
		HISTORY OF FIELD	OPERATIONS	_	NATIONA	L OCEAN SURVE
I. XX FIELD INSP	ECTION OPE	RATION FIEL	D EDIT OPERATION			
	OP	ERATION	NAM	4E		DATE
1. CHIEF OF FIEL	D PARTY		D D M.11			7 1 /24 40
		RECOVERED BY	R. B. Melby			Feb/Mar 19
2. HORIZONTAL	CONTROL	ESTABLISHED BY	None			•
		PRE-MARKED OR IDENTIFIED BY	None			
		RECOVERED BY	None			
3. VERTICAL CON	NTROL	ESTABLISHED BY	None			
		PRE-MARKED OR IDENTIFIED BY	None			
		ECOVERED (Triangulation Stations) BY	None			
4. LANDMARKS AL AIDS TO NAVIG		LOCATED (Field Methods) BY	None			
		TYPE OF INVESTIGATION	None			
5 CEOCRADUC N		COMPLETE				
GEOGRAPHIC N INVESTIGATION		SPECIFIC NAMES ONLY				
		NO INVESTIGATION	,			
6. PHOTO INSPEC	TION	CLARIFICATION OF DETAILS BY	None			
7. BOUNDARIES A	ND LIMITS	SURVEYED OR IDENTIFIED BY	NA			
II. SOURCE DATA	<u> </u>					
1. HORIZONTAL C	CONTROL IDE	NTIFIED	2. VERTICAL CONTE	OL IDE	NTIFIED	
N-	one		None			
PHOTO NUMBER	ļ 	STATION NAME	PHOTO NUMBER	5	TATION DESI	GNA TION
3. PHOTO NUMBE	RS (Clarificat	on of details)				
None ·						
4. LANDMARKS A	ND AIDS TO N	AVIGATION IDENTIFIED				
37						
None PHOTO NUMBER	<u> </u>		T			
PHOTO NOMBER		OBJECT NAME	PHOTO NUMBER		OBJECTN	AME
5. GEOGRAPHIC		REPORT X NONE	6. BOUNDARY AND 1	.IMITS:	REPOR	T X NONE
7. SUPPLEMENTA	L MAPS AND	PLANS				
None						
None 8. OTHER FIELD	RECORDS (Sk	etch books, etc. DO NOT list data submit	ted to the Geodesy Divis	wing)		
	1-11		Divic			
None						
none						

CDR C. A. Burroughs RECOVERED BY PRE-MARKED OR IDENTIFIED BY A. LANDMARKS AND AIDS TO NAVIGATION TYPE OF INVESTIGATION CDR C. A. Burroughs FAIRWEATHER Personnel Oct 1 None None None None None None FAIRWEATHER Personnel None None None FAIRWEATHER Personnel None None FAIRWEATHER Personnel None None FAIRWEATHER Personnel None FAIRWEATHER Personnel None Type of investigation Specific Names only None Type of investigation Specific Names only None	I. FIELD INSPECTION OPERATION OPERATION OPERATION OPERATION I. CHIEF OF FIELD PARTY CDR C. A. Burroughs Oct 1 FAIRWEATHER Personnel Oct 1 None None None None None None None Non	DERATION OPERATION OPERATION OPERATION OPERATION RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY AIDS TO NAVIGATION OR OF INVESTIGATION SECONDLETE INVESTIGATION OCT 1 TYPE OF INVESTIGATION CLARIFICATION OF DETAILS BY INVESTIGATION CLARIFICATION OF DETAILS BY INVESTIGATION OCT 1 OCT 1 NONE TYPE OF INVESTIGATION SPECIFIC NAMES ONLY INVESTIGATION CLARIFICATION OF DETAILS BY A. SOWERS OCT 1 NONE OCT 1 NONE TO DENTIFIED BY NA II. SOURCE DATA NONE NONE OCT 1 NONE OCT 1 NONE TO DENTIFIED BY NA II. SOURCE DATA NONE NONE OCT 1 NONE NONE OCT 1 NONE NONE NONE OCT 1 NONE NONE OCT 1 NONE STATION DESIGNATION NONE	I. SOURCE DATA I. CHIEF OF FIELD PARTY OPERATION OPERATION OPERATION OPERATION OPERATION OPERATION OPERATION OPERATION RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY AIDS TO NAVIGATION SECOVERED (Triangulation Stations) BY INVESTIGATION SECOVERED (Triangulation Stations) BY INVESTIGATION SECORAPHIC NAMES ONLY INVESTIGATION OPERATION OPERATION OPERATION OPERATION OPERATION OPERATION OPERATION OPERATION OPERATION NONE TYPE OF INVESTIGATION SPECIFIC NAMES ONLY BY INVESTIGATION OPERATION OPERATION OPERATION OPERATION OPERATION NONE NONE TO RECOVERED (Triangulation Stations) BY INVESTIGATION OPERATION TYPE OF INVESTIGATION SPECIFIC NAMES ONLY BY INVESTIGATION OPERATION OPERATION OPERATION NONE NONE OPERATION NONE OPERATION NONE NONE OPERATION NONE OPERATION NONE OPERATION NONE OPERATION NONE OPERATION NONE OPERATION NONE NONE OPERATION NONE NONE OPERATION NONE OPERATION NONE OPERATION NONE OPERATION NONE NONE OPERATION NONE OPERATION NONE NONE OPERATION NONE NONE OPERATION NONE OPERATION NONE NONE NONE OPERATION NONE NONE NONE OPERATION NONE OPERATION NONE NONE NONE OPERATION NONE	OPERATION NAME DATE		HIGTORY OF FIEL 5	NATIONAL OCEANIC		NAL OCEAN SU
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	2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: May 24, 1976
	3. REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED:
	III. FEDERAL RECORDS CENTER DATA
	1. X BRIDGING PHOTOGRAPHS; X DUPLICATE BRIDGING REPORT; XX COMPUTER READOUTS.
	2. CONTROL STATION IDENTIFICATION CARDS; X FORM NOS SAZ SUBMITTED BY FIELD PARTIES.
	3. X SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:
	4. DATA TO FEDERAL RECORDS CENTER, DATE FORWARDED:
	IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)
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SUMMARY TO ACCOMPANY

TP-00404 through TP-00415

Maps included in this summary comprise roughly the southern half of Project PH-7107. Maps TP-00406 through TP-00411 are 1:5,000 scale. TP-00404, TP-00405 and TP-00412 through TP-00415 are 1:10,000 scale.

These maps cover the mainland coast of California from Dana Point northward to Huntington Beach. Each map is a standard shoreline map the purpose, of which, is to provide shoreline in support of contemporary hydrographic operations and for nautical chart construction.

The shoreline is composed primarily of sand. Large amounts are deposited from runoff during the winter and spring rains. Much of the sand is then eroded during the dry months. This cycle of erosion and deposition causes the shoreline to meander in and out. As a result, the mean high water line throughout the entire area is constantly changing.

Field operations prior to compilation consisted of the recovery and identification of horizontal control used in the bridge and leveling operations used to establish the mean lower low water datum in connection with the tide coordinated infrared photography.

The job was bridged in two parts. Bridging for this part of the job was done at the Rockville Office in November, 1971. All ratios were determined and photographs were ordered at that time.

All maps were compiled at the Atlantic Marine Center in January and February, 1972. Field edit was accomplished in October, 1974.

Field edit application and Final Review was performed at the Atlantic Marine Center. All pertinent data was forwarded to the Rockville Office for reproduction and final registration.

Field Report
Project PH-7107

Dana Point to Point Vicente, California
Shoreline Mapping
February - March 1971

The field work pertaining to this project consisted of premarking horizontal control stations prior to aerial photography and furnishing tidal observations necessary for tide control photography.

Horizontal Control:

The horizontal control requirements consisted of paneling preselected triangulation stations. The panels were the conventional, white, opaque polyethylene plastic, cut to the specifications as required for 1:30,000 scale photography.

Form 152, Control Station Identification cards will be submitted for each station paneled. All of the panels are in open areas and shadows or cliffs should not be a problem. Panel array No. 1 was used exclusively, although in some instances, the length or position of the rays were altered to conform to the existing terrain.

Tide Observations:

At Newport Bay, three existing tidal bench marks were tied by spirit levels to the stop on the portable tide staff, of the operating tide gage. The values agreed favorably with the results as determined by a party from the San Francisco Field Office on 2 February 1971. Staff reading of 3.18 feet equals 0.00 feet mean lower low water.

The staff was read at least one hour prior to, during, and one hour after the anticipated or actual aerial photography. The readings were at five minute intervals to the nearest 0.05 foot. The air photo mission was informed by radio of the tide staff readings, during the overflights. The field level observations are recorded in Form 258, "Leveling Record - Tide Station".

A bubbler tide gage was installed on the Oceanside Pier, Oceanside, California, 3 March 1971 to provide tidal data for the proposed tide-controlled photography, scheduled for October 1971.

Respectfully Submitted,

Robert B. Melby

Roll B. Melly

Chief, PMC Field Party

PHOTOGRAMMETRIC PLOT REPORT
Part 1
Dana Point to Point Vicente
California
Job PH-7107
November 1971

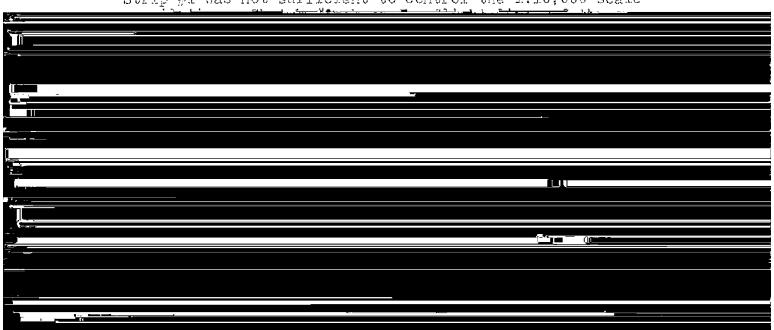
21. Area Covered

The area covered by this report is along the west coast of California. Control was extended for the shoreline compilation of the following maps:

1:5,000 scale	1:10,000 scale
TP-00406	TP-00404
TP-00407 TP-00408	TP-00405 TP-00412
TP-00409 TP-00410	TP-00414 TP-00413
TP-00411	TP-00415

22. Method

Strip #1 (1:30,000 scale photography) was bridged using analytical aerotriangulation methods. Sketch #1 shows the flight line of the photography and the placement of the control used in the adjustment. Compilation points were located between Strip #1 and Strips #2, #3 and #4 (1:15,000 scale photography) to control the 1:5,000 scale compilation. Compilation points were also located between Strip #1 and Strip #5 (1:30,000 scale photography) where coverage from Strip #1 was not sufficient to control the 1:10,000 scale



24. Supplemental Data

USGS quadrangles were used to provide vertical control for the adjustment.

25. Photography

The following 1:30,000 scale RC-8 color photography was used in bridging Strip #1:

71-L(C)-1653 thru 1674

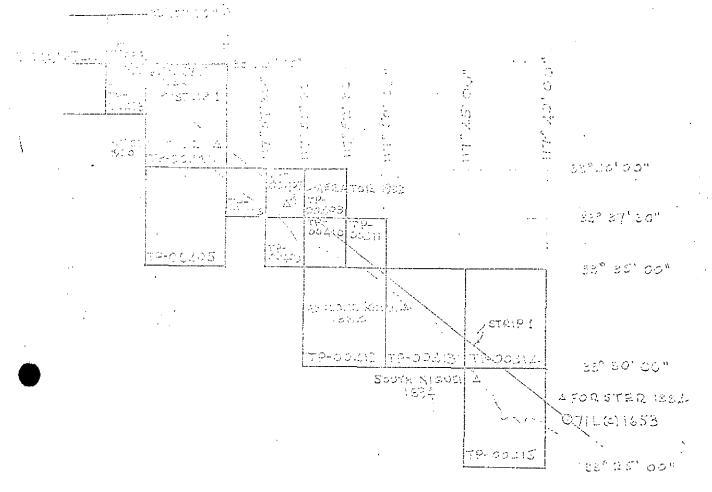
The definition and quality of photography was adequate.

Submitted by:

Donald M. Brant

Approved by:

Henry P. Biohert, Chief Aerotriangulation Section



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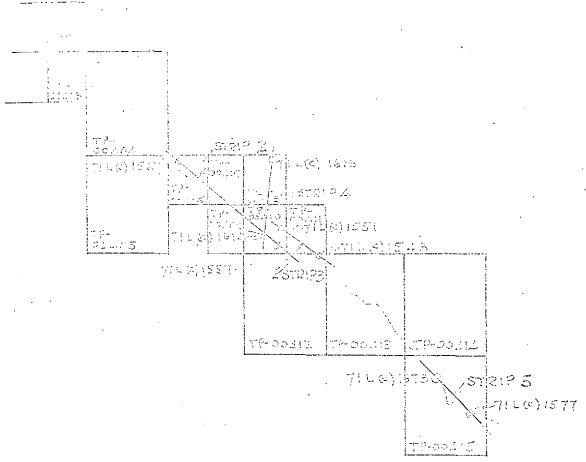
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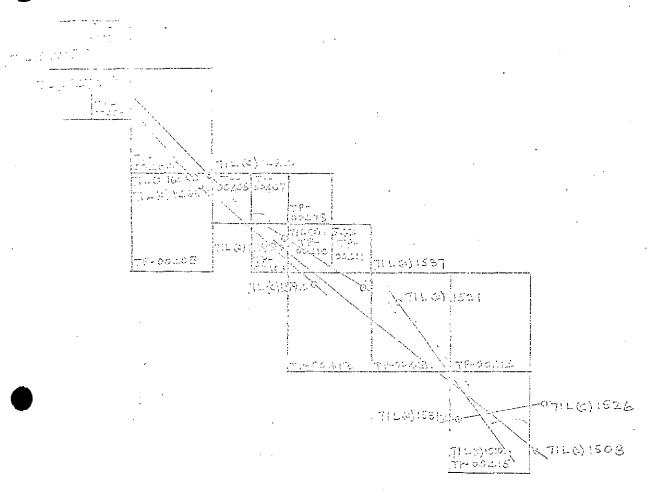
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COMPILATION REPORT

TP-00406

31. DELINEATION:

The Wild B-8 stereoplotter was used. Photograph coverage was adequate.

A short portion of MHWL was graphically delineated at the junction of this map and TP-00405 (1:10,000 scale). Insufficient stereo model coverage at either of the two scales necessitated a graphic solution.

There was no field inspection prior to compilation.

32. CONTROL:

See Photogrammetric Plot Report, Part 1 dated November, 1971.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are inapplicable. Drainage has been shown from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

The mean high water line and foreshore areas were delineated from office interpretation of the photographs.

The mean lower low water line was taken from infrared photography, taken at mean lower low water.

36. OFFSHORE DETAILS:

None.

37. LANDMARKS AND AIDS:

Compilation office prepared work copies of Forms 76-40 were forwarded to the field editor for verification, location and/or deletion.

38. CONTROL FOR FUTURE SURVEYS:

No Statement.

39. JUNCTIONS:

See Form 76-36B.

40. HORIZONTAL AND VERTICAL ACCURACY:

No Statement.

46. COMPARISON WITH EXISTING MAPS:

Comparison was made with USGS Quadrangle, Newport Beach, CA, scale 1:24,000, dated 1965.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison has been made with Chart No. 5142, scale 1:80,000, 9th edition, dated April 7, 1971

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS: TO: BE CARRIED FORWARD

None.

Submitted by:

Charles & Ble

Charles E. Blood

Cartographic Technician

December 28, 1971

Approved:

Albert C. Rauck, Jr.

Chief, Coastal Mapping Section, AMC

ADDENDUM TO THE COMPILATION REPORT

TP-00406

FIELD EDIT

Field edit was adequate. Field editor did not submit form 76-40 for landmarks.

Submerged oil, gasoline and water pipelines were located from plans furnished by the editor.

Jane Herfunson

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-7107, Dana Point to Point Vicente, California

TP-00406

Huntington Beach (locality)
Huntington Beach Channel
Pacific Ocean
Santa Ana River
Talbert Channel

Approved by:

Charles E. Harrington C3x8 Chief Geographer

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FIELD EDIT REPORT

MAP TP-00406

HUNTINGTON CHANNEL, CALIFORNIA

OCTOBER 1974

Field edit of map TP-00406 was done by Lcdr Joseph A. Sowers and Ltjg Andrew M. Snella during October 1974. Field inspection of the area was done at various stages of the tide by land vehicle.

METHOD

Photographs and a copy of the field edit ozalid were examined in the field. Photogrammetric techniques were used for location of features in question. The shore was virtually straight, regular sandy beach and the foreshore area was unfouled, requiring no verification of the existance of rocks, reefs, etc. All times are based on GMT.

ADEQUACY OF COMPILATION

Compilation of this map is good. The hydrography for this area has not yet been run. A Signal Oil and Gas Co. survey map "Platform Emmy Pipe Line Right of Way" has been included on the Field Edit Ozalid for an aid to locating pipelines and cables. Field inspection of this map is complete.

RECOMMENDATIONS

It is recommended that this map be revised in accordance with the notes and fix information on the ozalid and photographs, and then be accepted as an advanced manuscript.

Respectfully submitted:

Joseph A. Sowers

LCDR, NOAA

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REVIEW REPORT TP-00406

SHORELINE

August 7, 1978

61. GENERAL STATEMENT:

See Summary, page 6 of this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

No comparison was made.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

No comparison was made.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with a copy of Final Verified Smooth Sheet H-9487 (FA-10-4 and 5-74-75). There are no differences of common details.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 18746, 1:80,000 scale, 17th edition, dated March 19, 1977. There are no significant differences.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Submitted by:

a.L. Shands

A. L. Shands Final Reviewer

Approved for forwarding:

lf H Barn

for Chief, Photogrammetric Branch, AMC

Approved:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division

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NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

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 Revi

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