TP-00295

TP-00295

NOAA FORM 76-35
(6-80)

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

DESCRIPTIVE REPORT

This Map Was Field Edited

Map No. TP-00295	*Edition No.* One
Job No. PH-7017	
Map Classification Final Field Edited Map	
Type of Survey Shoreline	

LOCALITY

State
Alaska

General Locality
Afognak and Kodiak Islands

Locality
Paramanof Bay

19 71 TO 19 77

REGISTERED IN ARCHIVES

DATE

*U.S. GOVERNMENT PRINTING OFFICE: 1980-665-115

DESCRIPTIVE REPORT

TP-00295

TABLE OF CONTENTS

NOAA FORM 76-36A (3-72) — U. S. DEPARTMENT OF COMMERCE, NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY: [X] ORIGINAL [ ] RESURVEY [ ] REVISED

SURVEY TP-00295

MAP EDITION NO. (1)

MAP CLASS Final

JOB PH-7017

PHOTOGRAMMETRIC OFFICE
Atlantic Marine Center
Norfolk, Virginia

OFFICER-IN-CHARGE
Jeffrey G. Carlen, Cdr. NOAA

LAST PRECEEDING MAP EDITION

TYPE OF SURVEY: [ ] ORIGINAL [ ] RESURVEY [ ] REVISED

JOB PH-

MAP CLASS

SURVEY DATES: 19__ TO 19__

I. INSTRUCTIONS DATED

1. OFFICE		2. FIELD	
Aerotriangulation Instr.	Nov. 19, 1971	Field Support Instr.	May 03, 1971
Office Instr.	Apr. 17, 1972		
Office Instr., Supplement 1	May 11, 1973		
Office Instr., Amendment 1	Not Dated		

II. DATUMS

1. HORIZONTAL: [X] 1927 NORTH AMERICAN — OTHER (Specify)

2. VERTICAL: (Partial) [X] MEAN HIGH-WATER [ ] MEAN LOW-WATER [X] MEAN LOWER LOW-WATER [ ] MEAN SEA LEVEL — OTHER (Specify)

3. MAP PROJECTION: Polyconic

4. GRID(S): STATE: Alaska; ZONE: 5

5. SCALE: 1:20,000 — STATE: ; ZONE:

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION	BY	D. Norman	Mar. 1972
METHOD: Analytic	LANDMARKS AND AIDS BY		
2. CONTROL AND BRIDGE POINTS	PLOTTED BY	D. Phillips	Apr. 1972
METHOD: Coradomat	CHECKED BY		
3. STEREOSCOPIC INSTRUMENT COMPILATION	PLANIMETRY BY	R. R. White	May 1972
	CHECKED BY	A. L. Shands	May 1972
INSTRUMENT: Wild B-8 Stereoplotter	CONTOURS BY	N/A	
SCALE: 1:20,000	CHECKED BY	N/A	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	A. L. Shands	May 1972
	CHECKED BY	R. J. Pate	June 1972
	CONTOURS BY	N/A	
METHOD: Smooth Drafted	CHECKED BY	N/A	
	HYDRO SUPPORT DATA BY	A. L. Shands	May 1972
SCALE: 1:20,000	CHECKED BY	R. J. Pate	June 1972
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	R. J. Pate	June 1972
6. APPLICATION OF FIELD EDIT DATA	BY	D. Butler & F. Margiotta	Mar. 1978
	CHECKED BY	J. Byrd	Apr. 1978
7. COMPILATION SECTION REVIEW	BY	D. Butler	Jan. 1986
8. FINAL REVIEW	BY	J. Massey	Dec. 1986
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY		
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY		
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	E. L. DAUGHERTY	JUN '87

NOAA FORM 76-36A — SUPERSEDES FORM C&GS 181 SERIES

* U.S. G.P.O. 1972-769382/582 REG.#6

NOAA FORM 76-36B
(3-72)

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

TP-00295

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-9 "M" (88.20mm F.L.)
Wild RC-8 "E" (152.71mm F.L.)

TYPES OF PHOTOGRAPHY LEGEND
(C) COLOR
(P) PANCHROMATIC
(I) INFRARED

TIME REFERENCE
ZONE: Alaska
MERIDIAN: 150th
[X] STANDARD
[ ] DAYLIGHT

TIDE STAGE REFERENCE
[X] PREDICTED TIDES
[ ] REFERENCE STATION RECORDS
[ ] TIDE CONTROLLED PHOTOGRAPHY

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
71 M (P) 223 - 225	07/04/71	11:27	1:60,000	8.9 ft. above MLLW
71 M (P) 322 - 323	08/03/71	08:46	1:60,000	6.7 ft. above MLLW
71 E (C) 6139 - 6142	07/04/71	14:12	1:20,000	7.3 ft. above MLLW
71 E (C) 6108 - 6113	07/04/71	13:50	1:20,000	7.8 ft. above MLLW
*71 E (C) 6735 - 6738	07/10/71	10:37	1:20,000	0.9 ft above MLLW

REMARKS * A partial mean lower low water line was compiled thru an office interpretation of the color photography listed above. See the Review Report included as part of this Descriptive Report, item 67, for additional information on this subject.

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was compiled from the above listed photography.

3. SOURCE OF [redacted] MEAN LOWER LOW-WATER LINE:

The mean lower low water line was delineated from the July 10, 1971 photographs listed above.

4. CONTEMPORARY HYDROGRAPHIC SURVEYS *(List only those surveys that are sources for photogrammetric survey information.)*

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
TP-00291	TP-00296	TP-00301	TP-00294

REMARKS

NOAA FORM 76-36C
(3-72)

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

TP-00295

HISTORY OF FIELD OPERATIONS

1. [X] FIELD [redacted] OPERATION [ ] FIELD EDIT OPERATION

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		R. Lanier	1971
2. HORIZONTAL CONTROL	RECOVERED BY	None	
	ESTABLISHED BY	None	
	PRE-MARKED OR IDENTIFIED BY	None	
3. VERTICAL CONTROL	RECOVERED BY	NA	
	ESTABLISHED BY	NA	
	PRE-MARKED OR IDENTIFIED BY	NA	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (*Triangulation Stations*) BY	None	
	LOCATED (*Field Methods*) BY	None	
	IDENTIFIED BY	None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION: [ ] COMPLETE [ ] SPECIFIC NAMES ONLY [XX] NO INVESTIGATION — BY		
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED: None

2. VERTICAL CONTROL IDENTIFIED: NA

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (*Clarification of details*): None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED: None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: [ ] REPORT [X] NONE

6. BOUNDARY AND LIMITS: [ ] REPORT [X] NONE

7. SUPPLEMENTAL MAPS AND PLANS: None

8. OTHER FIELD RECORDS (*Sketch books, etc.* **DO NOT** *list data submitted to the Geodesy Division*): NOne

☆U.S. Government Printing Office: 1975 — 665-661/1110, Region No. 6

NOAA FORM 76-36C
(3-72)

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

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION ☒ FIELD EDIT OPERATION

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		K. Jeffers	May 1973
2. HORIZONTAL CONTROL	RECOVERED BY	None	
	ESTABLISHED BY	None	
	PRE-MARKED OR IDENTIFIED BY	None	
3. VERTICAL CONTROL	RECOVERED BY	NA	
	ESTABLISHED BY	NA	
	PRE-MARKED OR IDENTIFIED BY	NA	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED *(Triangulation Stations)* BY	None	
	LOCATED *(Field Methods)* BY	None	
	IDENTIFIED BY	None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ NO INVESTIGATION — BY		
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	M. Allen	May 1973
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME

2. VERTICAL CONTROL IDENTIFIED

NA

PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS *(Clarification of details)*

71M-221, 222, 322

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME

PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ 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 (paper) ozalid
1-Field edit report

NOAA FORM 76-36C
(3-72)

*U.S. GOVERNMENT PRINTING OFFICE: 1974 - 768-078

NOAA FORM 76-36C
(3-72)

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

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION ☒ FIELD EDIT OPERATION

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		J. Randall	May June 1977
2. HORIZONTAL CONTROL	RECOVERED BY	None	
	ESTABLISHED BY	None	
	PRE-MARKED OR IDENTIFIED BY	None	
3. VERTICAL CONTROL	RECOVERED BY	NA	
	ESTABLISHED BY	NA	
	PRE-MARKED OR IDENTIFIED BY	NA	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (*Triangulation Stations*) BY	None	
	LOCATED (*Field Methods*) BY	None	
	IDENTIFIED BY	None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ NO INVESTIGATION BY		
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	M. Melchan	May/Jun '77
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

NA

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (*Clarification of details*)

71E(C)6730-6736-6738-6739 - 71M(P)221-222 - 71M(P)322-323

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ 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 report
1-Field edit ozalid (paper)
1 Master field edit ozalid (film)

*U.S. GOVERNMENT PRINTING OFFICE: 1974 - 768-078

NOAA FORM 76-36D
(3-72)

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

TP-00295

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete pending field edit	May 1972	Superseded Class III manuscript	5/19/72	6/15/72
Partial Field edit applied	Mar 1978	Class III Manuscript Superseded	None	None
Field edit applied Compilation complete	Mar 1978	Class I Manuscript	5/1/78	5/1/78

II. LANDMARKS AND AIDS TO NAVIGATION None

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: None
3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: None

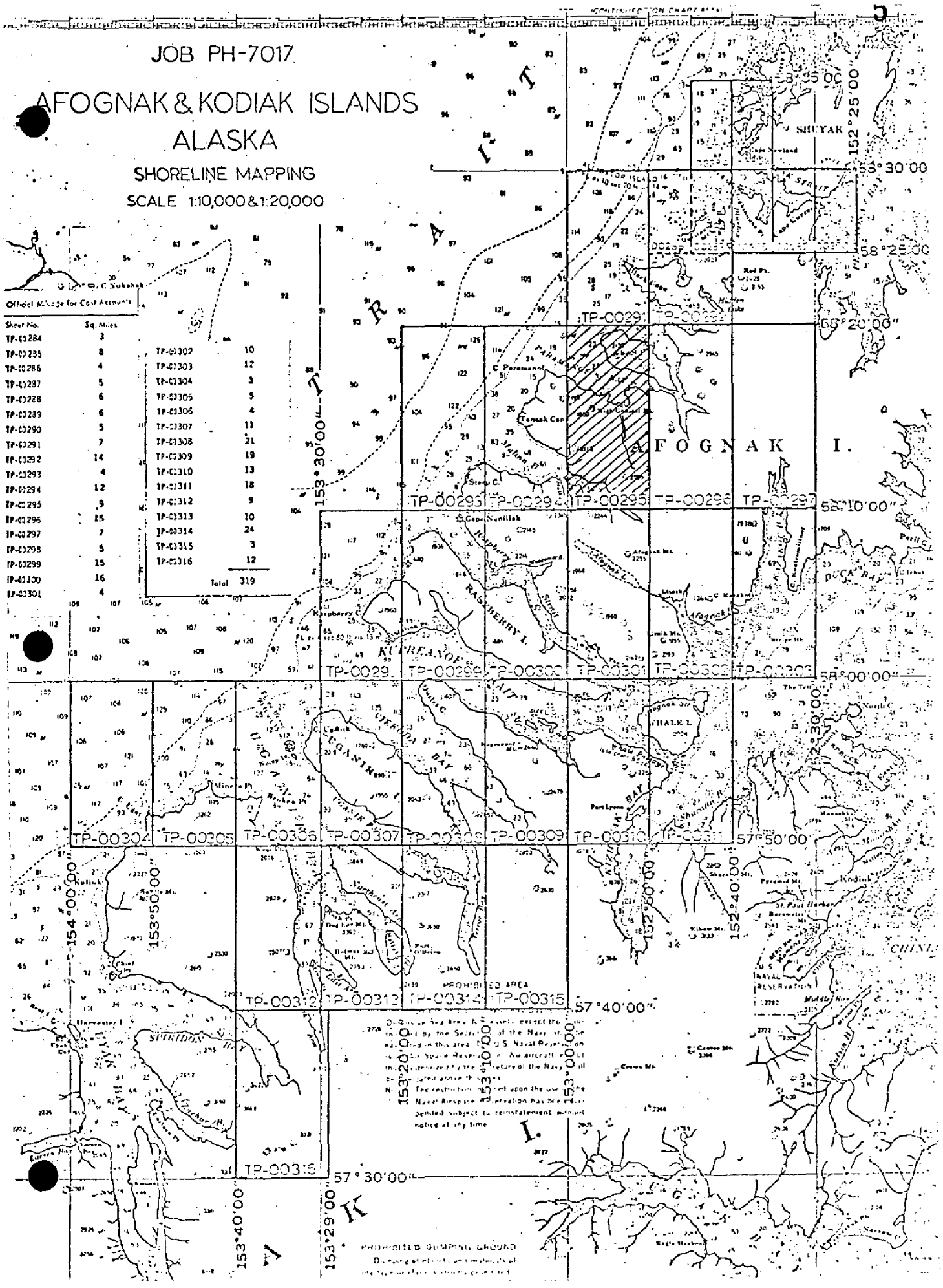
III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
2. ☐ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 567 SUBMITTED BY FIELD PARTIES.
3. ☒ 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: 6/3/87

IV. SURVEY EDITIONS *(This section shall be completed each time a new map edition is registered)*

	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
SECOND EDITION	TP - _____ (2)	PH - _____	☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐II. ☐III. ☐IV. ☐V. ☐FINAL
THIRD EDITION	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
	TP - _____ (3)	PH- _____	☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐II. ☐III. ☐IV. ☐V. ☐FINAL
FOURTH EDITION	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
	TP - _____ (4)	PH - _____	☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐II. ☐III. ☐IV. ☐V. ☐FINAL

* U.S. G.P.O. 1972-769380/548 REG.#6


JOB PH-7017
AFOGNAK & KODIAK ISLANDS
ALASKA
SHORELINE MAPPING
SCALE 1:10,000 & 1:20,000
Official Mileage for Cost Accounts
Sheet No. Sq. Miles
TP-00284 3
TP-00285 8
TP-00286 4
TP-00287 5
TP-00288 6
TP-00289 6
TP-00290 5
TP-00291 7
TP-00292 14
TP-00293 4
TP-00294 12
TP-00295 9
TP-00296 15
TP-00297 7
TP-00298 5
TP-00299 15
TP-00300 16
TP-00301 4
TP-00302 10
TP-00303 12
TP-00304 3
TP-00305 5
TP-00306 4
TP-00307 11
TP-00308 21
TP-00309 19
TP-00310 13
TP-00311 18
TP-00312 9
TP-00313 10
TP-00314 24
TP-00315 3
TP-00316 12
Total 319
AFOGNAK I.
KUIREANOF
RASPBERRY I.
WHALE I.
SHUYAK
PROHIBITED AREA
PROHIBITED ANCHORAGE GROUND
152°25'00"
152°30'00"
152°40'00"
152°50'00"
153°00'00"
153°10'00"
153°20'00"
153°30'00"
153°40'00"
153°50'00"
154°00'00"
58°25'00"
58°20'00"
58°10'00"
58°00'00"
57°50'00"
57°40'00"
57°30'00"
57°20'00"
57°10'00"

SUMMARY

Project PH-7017, Afognak and Kodiak Islands, Alaska, consists of 33 maps. Seven, TP-00284 through TP-00290, are at 1:10,000 scale and 26, TP-00291 through TP-00316, are at 1:20,000 scale. The project area is the northwestern coast line of Kodiak and Afognak Islands and their interface with Shelikof Strait. The project extends from Big Bay in the northeast to Cape Ugat in the southwest. The photogrammetric survey depicts the shoreline and other cartographic features of mapping interest in the coastal areas and navigable waterways bisecting the islands.

The purpose of the project was to provide shoreline data for maintenance of the Nautical Charting Program and in support of hydrographic survey operations planned for the area.

Field operations consisted of recovery, establishment, and identification (premarking) of horizontal control necessary for aerotriangulation. No field inspection was conducted for this project. Panchromatic photographs required for aerotriangulation of the entire project area and subsequent compilation of the 1:20,000-scale maps were obtained with the RC-9 "M" camera at 1:60,000 scale. Supplemental color photographs at 1:20,000 scale were acquired for those areas to be mapped at 1:20,000 scale using the RC-8 "E" camera. Areas to be mapped at 1:10,000 scale were covered by 1:30,000-scale color compilation photographs also obtained with the RC-8 "E" camera. The 1:30,000-scale compilation photographs were controlled by aerotriangulated points derived from the 1:60,000-scale panchromatic photographs. All calculations pertaining to the vertical relationship of the photographs to the datums, mean lower low water and mean high water, were derived from predicted tidal information.

A field edit was performed by personnel of the Pacific Marine Center's hydrographic survey vessels, while conducting hydrographic survey operations in selected areas. These field edits, occurring over four field seasons, were limited to the boundaries of the hydrographic surveys, thereby creating numerous partially field edited maps. Field edits occurred during the 1972, 1973, 1977, and 1981 field seasons.

The aerotriangulation of the project was divided into two phases (Part I and II), in order to expedite the delivery of photogrammetric map data in support of hydrographic survey operations. Eighteen strips of photographs were bridged using analytic aerotriangulation methods. Horizontal control used was field identified (premarked). Vertical control was taken from U. S. Geological Survey quadrangles. Aerotriangulated control proved adequate and meets the requirements of the National Standards of Map Accuracy.

Compilation was performed in the Coastal Mapping Section, Atlantic Marine Center, Norfolk, Virginia. Delineation was accomplished using a Wild B-8 stereoplotter through application of standard shoreline mapping techniques. This was supplemented by graphic compilation techniques in selected areas. Delineation was based on an office interpretation of the 1:60,000 scale panchromatic, and 1:20,000- and 1:30,000-scale natural color, photographs. All line work on the base maps was smooth drafted. In areas where the stage of tide for individual photographs, based on predictions, was determined to be within the required 1 foot of the vertical datum mean lower low water, the approximate datum was delineated on the map using graphic compilation techniques.

Final review was performed in the Coastal Mapping Unit, Rockville Maryland, office. The base maps and associated data of this project meet the requirements of the National Standards of Map Accuracy. The base maps and reports comply with the project instructions.

The Descriptive Reports prepared for each map contain all the information pertaining to the completion of each map.

FIELD INSPECTION

TP-00295

Field inspection was limited to the recovery and identification of horizontal control for aerotriangulation.

PHOTOGRAMMETRIC PLOT REPORT
Afognak Island, Alaska Part I
Job PH-7071-17
March 1972

21. Area Covered

This report pertains to 13 sheets on Afognak Island. The sheets are TP-00284 thru TP-00290 at 1:10,000 scale and TP-00291 thru TP-00296 at 1:20,000 scale. The area covered is the northwest shoreline of Afognak Island.

22. Method

Eight strips of photography were bridged by analytic aerotriangulation methods and adjusted to ground on the Alaska state plane coordinate system, zone 5. Strips 1 and 2 of 1:60,000 scale photography were adjusted as a block and used to control the six strips of 1:30,000 scale photography.

23. Adequacy of Control

The horizontal control is sparse in both strips of 1:60,000 scale photography. However the project should still meet the map accuracy standards.

24. Supplemental Data

Vertical control was taken from USGS topographic quadrangles.

25. Photography

The photography was adequate.

Respectfully submitted:

Don O. Norman

Don O. Norman
Cartographer

Approved and forwarded:

Henry P. Eichert, Chief
Aerotriangulation Section

Fit to Control
(x, y) feet

Strips 1 & 2 (block adjustment)

1	BANKS, 1907	(+0.1, +0.1)
2	BEN, 1926 subpoint	(-0.5, -0.5)
3	BLUE, 1926	(0.0, +0.4)
4	TIE, 1941 subpoint	(-0.2, -0.4)
5	NUN, 1941	(+0.1, +0.3)
6	BAY COVE POINT, 1907	(+0.5, +0.1)
7	DOLPHIN POINT LT., 1941	(-6.0, +5.2)
8	RASPBERRY STRAIT LT., 1941	(+4.9, -3.4)

Strip 3

76801	(+3.8, -3.1)
76802	(0.0, 0.0)
77801	(+2.7, +2.7)
77802	(0.0, 0.0)
79801	(0.0, 0.0)
79802	(+1.5, +4.5)

Strip 4

33801	(+10.9, -10.9)
34801	(0.0, 0.0)
35801	(0.0, 0.0)
36801	(-2.3, -0.6)
38801	(0.0, 0.0)
38802	(-6.9, +2.6)

Strip 5

18801	(0.0, 0.0)	
19801	(-1.3, -0.2)	
BEN, 1926 subpoint		(0.0, 0.0)
22801	(+5.4, +1.1)	
23801	(+2.2, +0.1)	

Strip 6

22801	(0.0, 0.0)
45801	(-4.8, -4.4)
BLUE, 1926	(-4.0, +0.2)
47801	(0.0, 0.0)

Strip 7

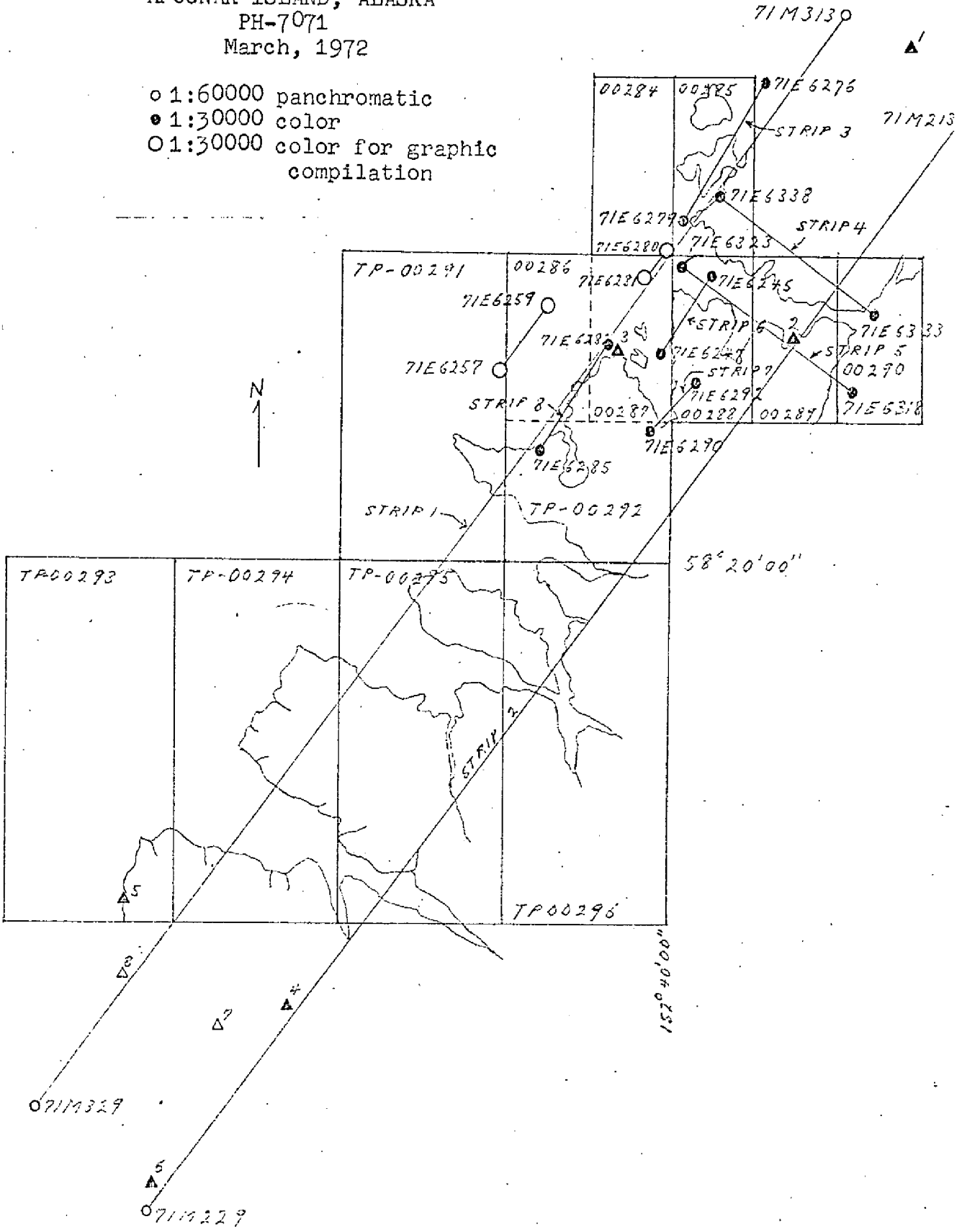
90801	(0.0, 0.0)
91801	(+2.3, -0.9)
92801	(0.0, 0.0)
92802	(-1.1, -0.7)

Strip 8

82801	(-2.2, +0.6)
82802	(0.0, 0.0)
84801	(0.0, 0.0)
85801	(-10.7, +4.6)
85802	(0.0, 0.0)

AEROTRIANGULATION SKETCH
AFOGNAK ISLAND, ALASKA
PH-7071
March, 1972

- o 1:60000 panchromatic
- • 1:30000 color
- O 1:30000 color for graphic compilation



NOAA FORM 76-41
(6-75)

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

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETIC DATUM	ORIGINATING ACTIVITY
TP-00295	PH-7017		Coastal Mapping Division, Norfolk, Va.

STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET STATE ZONE	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	REMARKS FORWARD	REMARKS BACK
(NONE)			x=	φ		
			y=	λ		
			x=	φ		
			y=	λ		
			x=	φ		
			y=	λ		
			x=	φ		
			y=	λ		
			x=	φ		
			y=	λ		
			x=	φ		
			y=	λ		
			x=	φ		
			y=	λ		
			x=	φ		
			y=	λ		
			x=	φ		
			y=	λ		
			x=	φ		
			y=	λ		

COMPUTED BY	DATE	COMPUTATION CHECKED BY	DATE
LISTED BY	DATE	LISTING CHECKED BY	DATE
HAND PLOTTING BY	DATE	HAND PLOTTING CHECKED BY	DATE

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.

COMPILATION REPORT

TP-00295

31. DELINEATION:

Delineation was by the Wild B-8 stereoplotter, for all details except the mean lower low water line of Malina Bay which was compiled graphically from the 1:20,000 scale color photography covering that area.

32. CONTROL:

Se Photogrammetric Plot Report, dated March 1972.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are inapplicable. Drainage was delineated from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

The mean high water line and alongshore details were delineated from office interpretation of the photographs. A mean lower low water line was shown in Malina Bay. No photography suitable for this purpose was flown over Paramanof Bay.

36. OFFSHORE DETAILS:

Several offshore rocks and islands were compiled in the office without benefit of prior field inspection. The positions and configuration of these features is considered to be good however.

37. LANDMARKS AND AIDS:

None.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

See Form 76-36b, item #5, of the Descriptive Report.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison has been made with the following USGS quadrangles: Afognak (A-3) and Afognak (B-3), ALASKA, scale 1:63,360 and dated 1954.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with the following National Ocean Survey charts: 8534, scale 1:78,900, 5th edition, dated January 30, 1971 and 8556, scale 1:350,000, 4th edition, dated November 20, 1971.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

/s/

A. L. Shands
Cartographer
May 31, 1972

Approved:

Albert C. Rauck, Jr.
Albert C. Rauck, Jr.
Chief, Coastal Mapping Section, AMC

ADDENDUM TO COMPILATION REPORT

TP-00295

FIELD EDIT

The 1977 field editor used two (2) photographs for recording rock height data. In some cases, conflicting data was provided. Where these conflicts occurred, the value implicating the greatest hazard was used.

221 222
7/M-322

FIELD EDIT REPORT

OPR-478-73

NOAA SHIP RAINIER

CDR. K.W. JEFFERS,
Commanding

INTRODUCTION METHODS

Field edit was accomplished by personnel of the NOAA SHIP RAINIER, between 15 May and 19 August 1973. Work was done in a sixteen foot skiff, making landings where it was necessary to verify shoreline character.

Field edit work was begun in the area north of Black Cape, on Afognak Island, at the mouth of Devil Inlet, and extended southwestward to the landward end of the main part of Malina Bay. The shoreline from Cape Paramanof to Cape Tanaak was not inspected. See the reference sketch of field editing completed for precise delineation of work accomplished. Field editing was completed on manuscripts TP-00291, TP-00292, and TP-00296. Field editing was begun but not finished on manuscripts TP-00294 and TP-00295. No field edit was done on manuscript TP-00293.

All additions and corrections are noted in purple on the field edit discrepancy sheets and in red on the field edit film ozalids. Deletions are noted or accented in green. Photographs used in this field edit were from PH-7017. Values for distances to the mean high water line and rock heights were estimated. All time observations are referenced to 135° West longitude.

Following the text is an appendix comprised of:

1) Sketch of field edited shoreline
2) List of detached positions
3) Complete listing of photo-hydro signal tape
4) Copies of triangulation recovery notes for stations used for photo-hydro control

ADEQUACY OF COMPILATION

The compilation of the mean high water line was generally good. Compilation of offshore and foreshore features was often incomplete: several rocks readily identifiable on the photographs were omitted. Time and height data for these items are have been included on the photographs.

DISCUSSTION AND RECOMMENDATIONS

TP-00286 (completed) No special recommendations are required.

TP-00291 (completed) No special recommendations are required.

TP-00292 (completed) No special recommendations are required.

TP-00293, No field edit was done on this sheet.

TP-00294 (not completed) The shoreline of Paramanof Bay on this sheet was field edited as far west as Cape Paramanof. No field edit was done from Cape Paramanof to Tanaak Cape. The shoreline from Tanaak Cape eastward to 153° 00'00"W longitude was field edited, as well as the southern shore of Malina Bay between 153° 01'00" and 153° 02'00"W longitude. The rest of the

shoreline of Malina Bay was not inspected. No special recommendations are required.

TP-00295 (not completed) Only the shoreline of Paramanof Bay was field edited, None of the Malina Bay shoreline was field edited. No special recommendations are required.

TP-00296 (completed) No special recommendations are required.

respectfully submitted,

M.H. ALLEN
Ens. NOAA

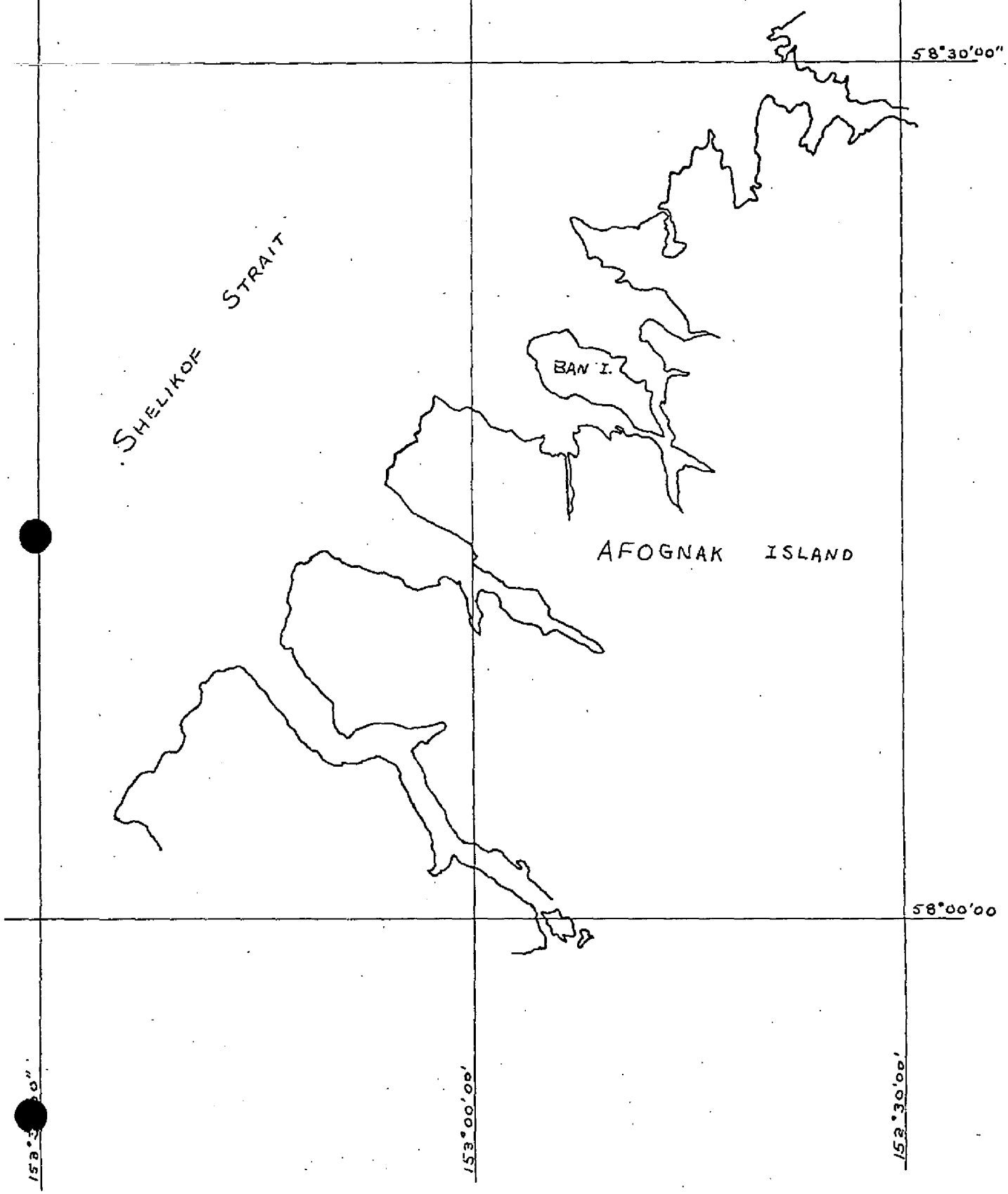
APPROVAL SHEET

The Field Edit Report is approved as submitted.

K. W. Jeffers

K.W. Jeffers
Commander, NOAA

OPR-478, 1973 – FIELD EDITED SHORELINE—INDICATED IN BLACK



NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey FIELD EDIT

Job No. 7071 17 *Map No.* TP-00295

Classification No. *Edition No.*

OPR-478-RA-77

LOCALITY

State ALASKA

General Locality AFOGNAK ISLAND

Locality MALINA & MALKA BAYS

1977 TO 19

REGISTRY IN ARCHIVES

DATE

☆ U.S. GOVERNMENT PRINTING OFFICE: 1972-760-893

FIELD EDIT REPORT

TP-00295

JOB-7077

AFOGNAK ISLAND, ALASKA
Malina Bay, Malka Bay

2 FIELD UNITS

MAY 27, 1977 - JUNE 29, 1977

JD (146 - 180)

51 METHODS

Field edit of TP-00295 involved two areas. The first was a small portion on Ban Island and was edited on foot (see color photo 6141). The second was the contiguous bays, Malina and Malka. These bays were edited, for the most part, by small boat (see photo #224, #225 and color photos 6730, 6734, 6736, 6738, 6739). Photo control was provided in Malina and Malka Bays. Communications between the hydrographer and field editor were excellent. To avoid oversights and misidentification, each rock that was transferred to the rough boatsheet from various sources was assigned a letter designator A-Z or AA-ZZ. Heights or depths of rocks were noted on the photographs along with GMT (local +9 hours). A thorough description of deletions, additions and corrections is included in section 53 Map Accuracy, accompanied by diagrams transferred from the 1:10,000 scale rough boatsheet.

Depending upon weather conditions and tide states, the field editor planned daily operations in the following order:

1) Picking and field marking of photo signals, concurrent with shoreline annotations on matte photos 225 and 224.

2) Transfer and pricking of photo signals on respective photographs.

3) Building of signals.

4) Annotating Boatsheet RA-10-1-77 as to dangers to navigation.

5) Complete rock investigation prior to and concurrent with hydrography, keeping a field edit notebook and transferring all information to the photographs upon arrival to the ship in the evening.

6) Updating the GP's of various photo signals.

7) Returning to rocks not located at minus tide states.

Extremely low tides were experienced during daylight hours which enabled the field editor to return to areas involving rock deletions to double and in many cases triple check on these deletions.

52 ADEQUACY OF COMPILATION

The compilation of manuscript TP-00295 is complete and adequate except as noted in section 53. Compilation of MHWL was very good with the exception of one small area in the vicinity of signal #391. The MLLWL

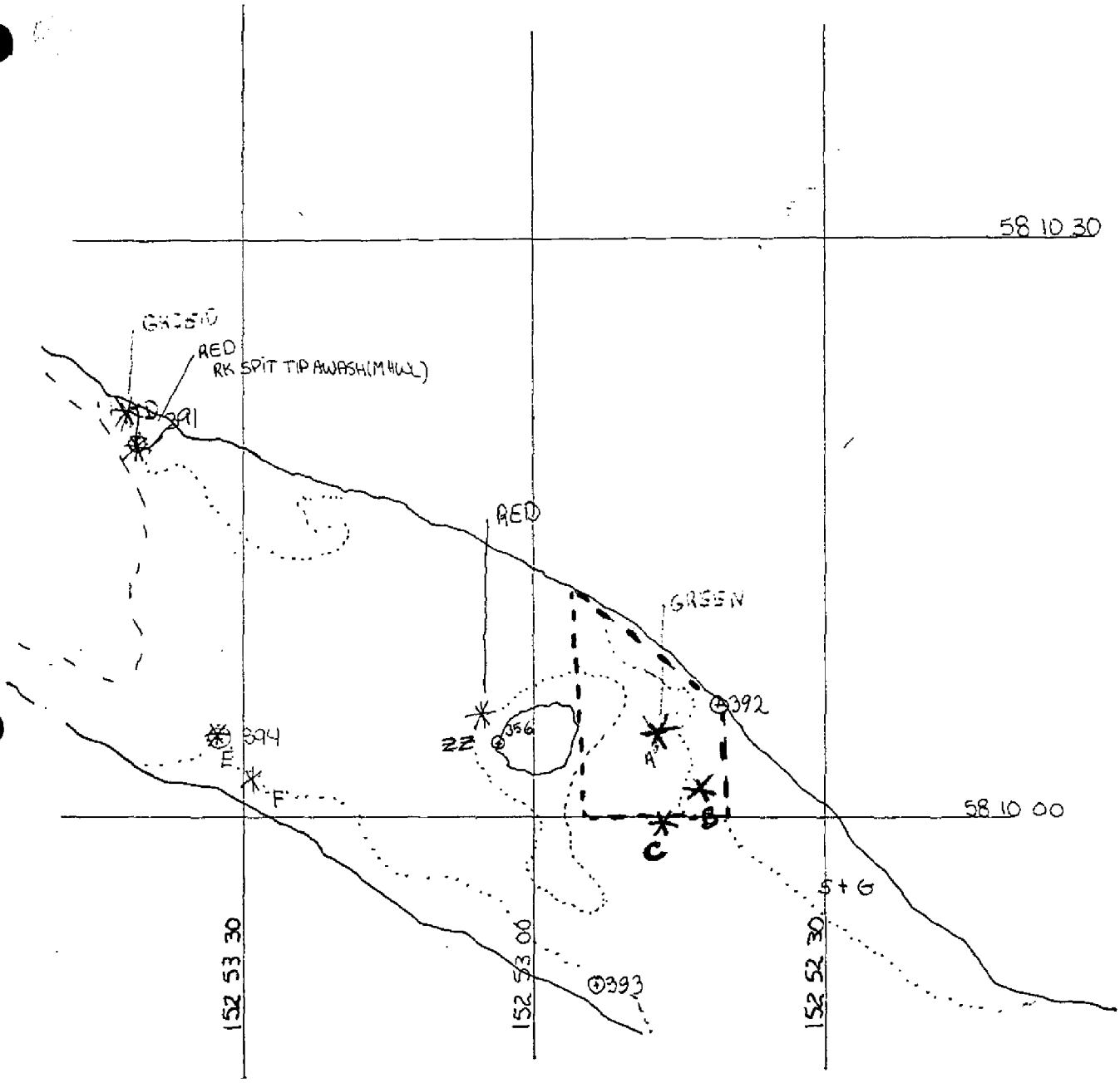
was compiled by hydrographic survey operations and is not addressed in this report. For further information on this subject refer to Descriptive Report H-9684.

53 MAP ACCURACY

All rocks added to the T-sheet are in red, those verified are in purple, and those to be deleted are in green.

The following pages include a table of explainations and six figures describing any and all changes to the rocks or shoreline features in the area common with TP-00295 and Hydrographic Survey H-9684. Figures 1-6 address not only the rocks on the T-sheet, but also show a comparison with rocks on prior survey H-2973 1908 1:20,000 scale and the rocks on chart 16604 1976 1:78,000 scale. A color coding at the bottom of each figure differentiates rocks as to their source and what action should be taken on them. The repositioned or new rocks are annotated in red and have been transferred directly from the photograph to the T-sheet. Deletions of rocks in Figures 1-6 are written in green and the remaining verified rocks include colors corresponding to the survey, chart, or T-sheet they were transferred from (i.e., purple for survey H-2973, brown for chart 16604, blue for TP-00295). Rocks deleted from the prior survey or chart are not annotated on TP-00295.

Table I is a master list of the rocks, their source and the action taken on them, if any. Following the figures and Table I is a narrative description of certain rocks which needed greater explaination than could be accomplished by figures or tables.



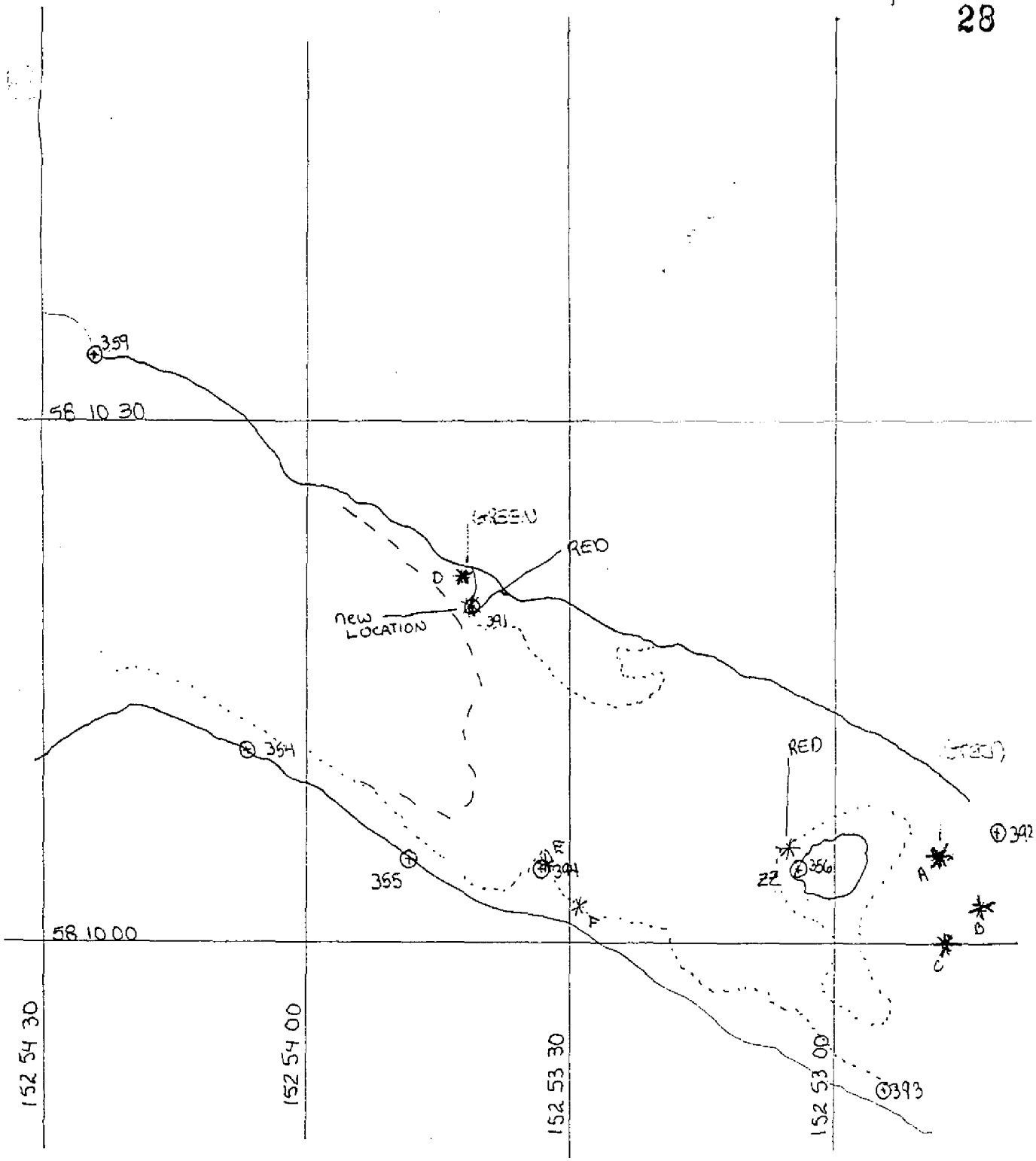
ALL SHORELINE IS TRANSFERRED FROM THE ROUGH BOAT SHEET OF RA-10-1-77

COLOR CODING

PURPLE H-2973 1:20,000 1408 SURVEY
BROWN C-16604 1:73,000 PLOTTED
BLUE TP-00295 1:20,000

SCALE = 1:10,000

RED DENOTES ADDITION OR CORRECTION
GREEN DENOTES DELETION.



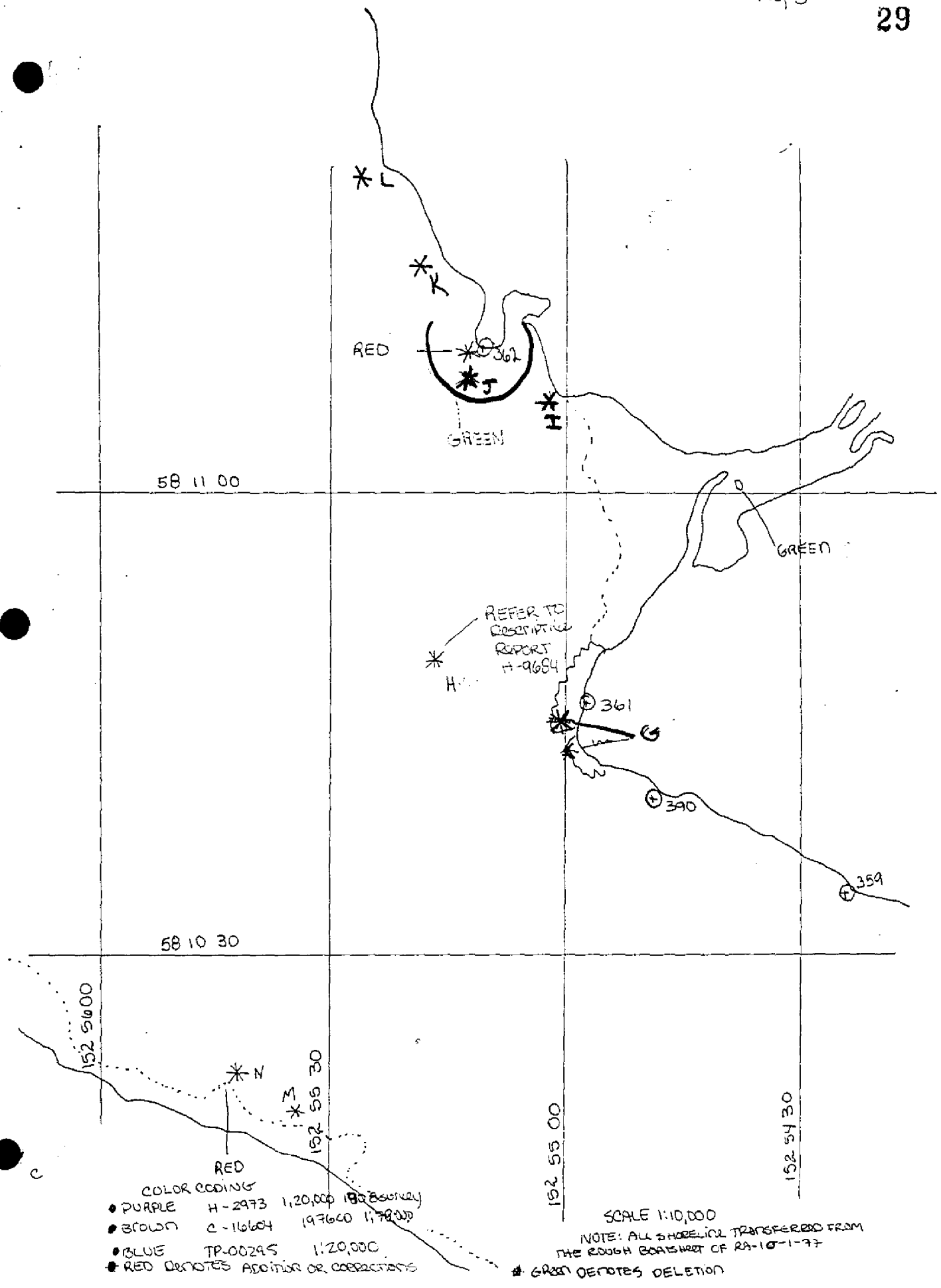
COLOR CODING

- PURPLE H-2973 1:20,000 1908 survey
- BROWN C-16604 1:78,000 1976 ED.
- BLUE TP-00295 1:20,000
- RED DENOTES ADDITIONS OR CORRECTIONS
- GREEN DENOTES DELETION

SCALE 1:10,000

* NOTE: ALL SHORELINE TRANSFERRED FROM THE ROUGH BOATSHEET OF RA-10-1-77

fig 3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REFER TO DESCRIPTIVE REPORT H-9684
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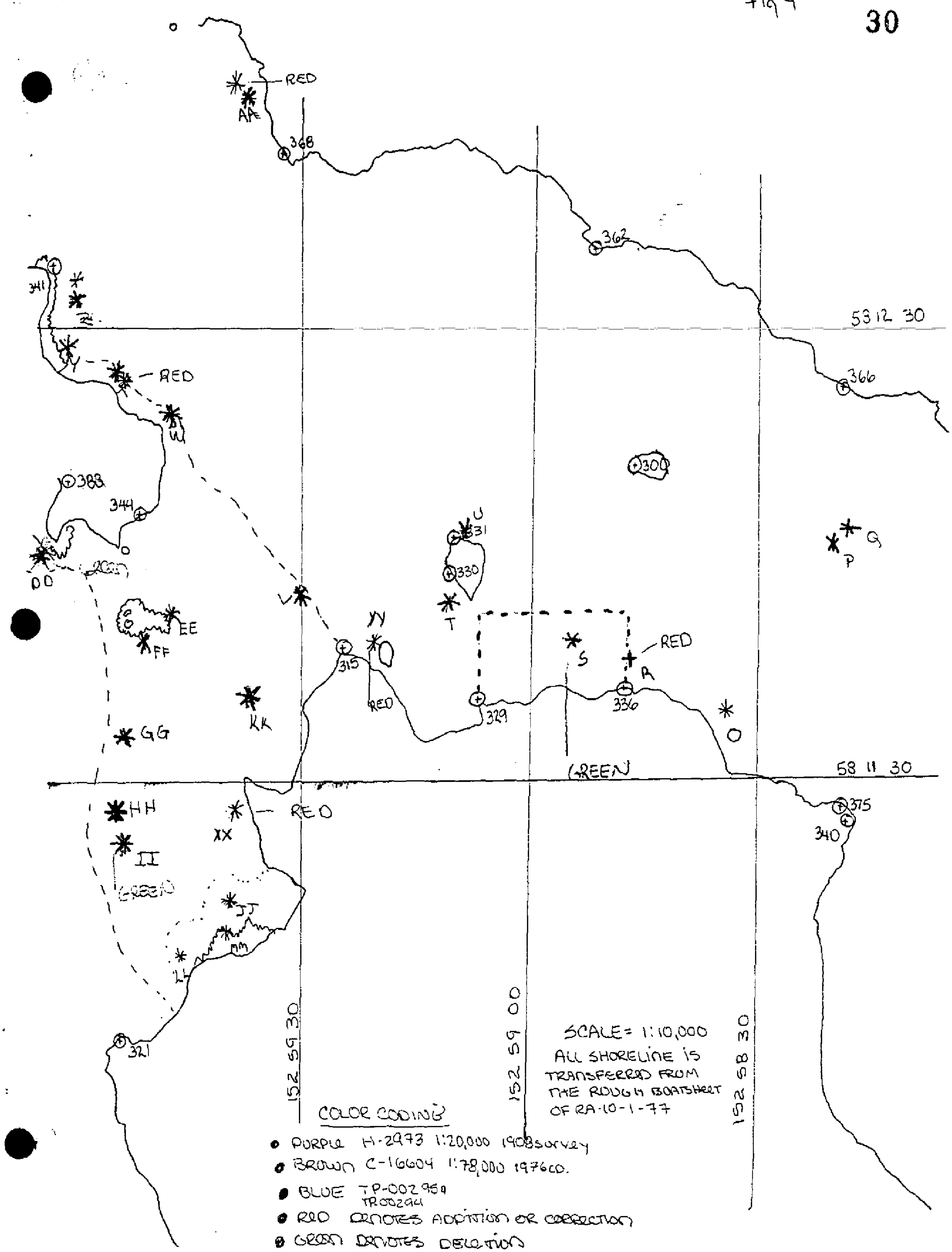
359
58 10 30
152 56 00
N
M
152 55 30
RED
152 55 00
152 54 30
COLOR CODING
PURPLE H-2973 1:20,000
BROWN C-16604 1:20,000
BLUE TP-00295 1:20,000
RED DENOTES ADDITION OR CORRECTIONS
GREEN DENOTES DELETION
SCALE 1:10,000
NOTE: ALL SHORELINE TRANSFERRED FROM THE ROUGH BOATSHEET OF RA-10-1-97

Fig 4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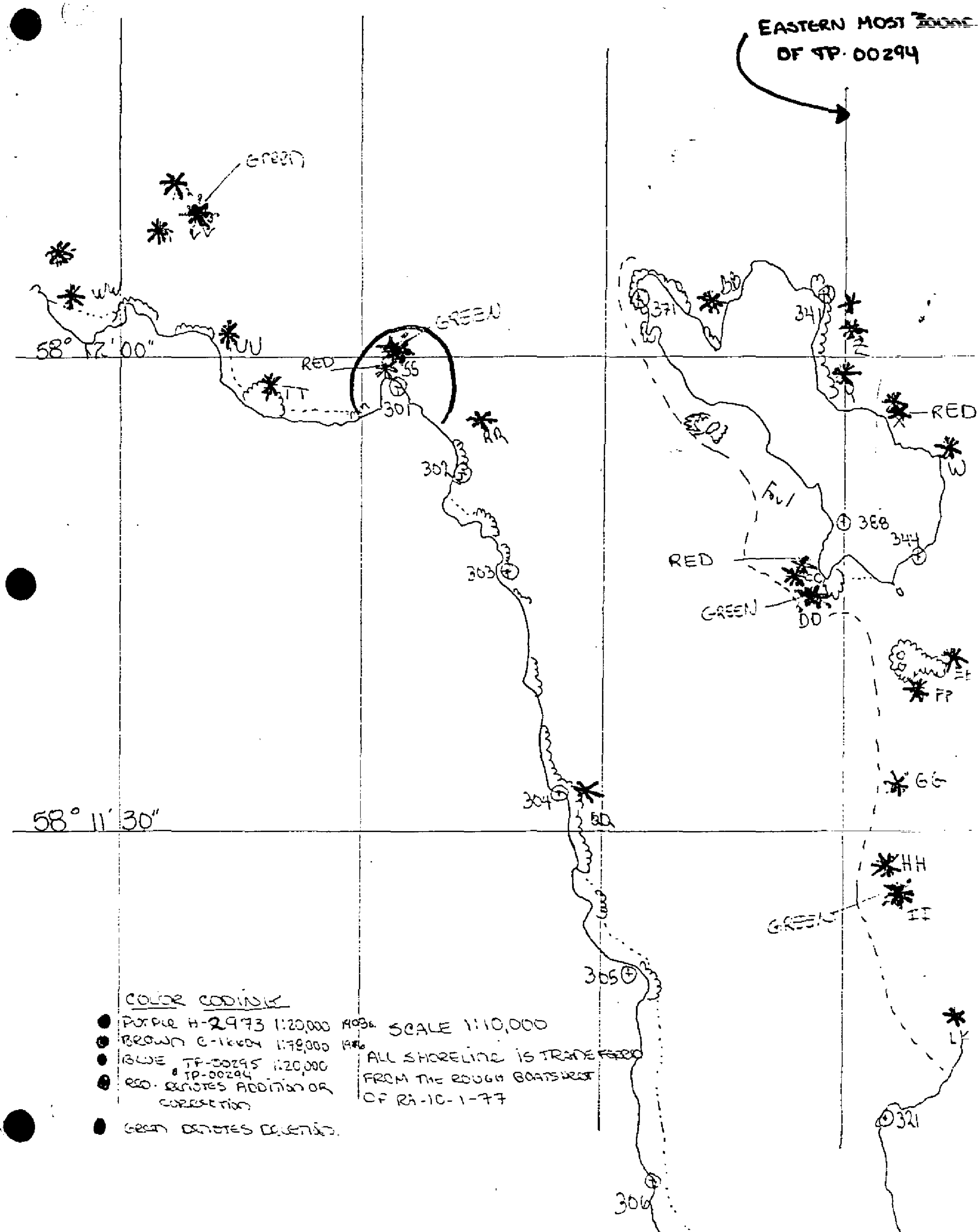
SCALE = 1:10,000
ALL SHORELINE IS TRANSFERRED FROM THE ROUGH BOATSHEET OF RA-10-1-77
COLOR CODING
PURPLE H-2973 1:20,000 1908 survey
BROWN C-16604 1:78,000 1976 co.
BLUE TP-00295a TP00294
RED DENOTES ADDITION OR CORRECTION
GREEN DENOTES DELETION

Fig 5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OF TP-00294
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TT
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301
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302
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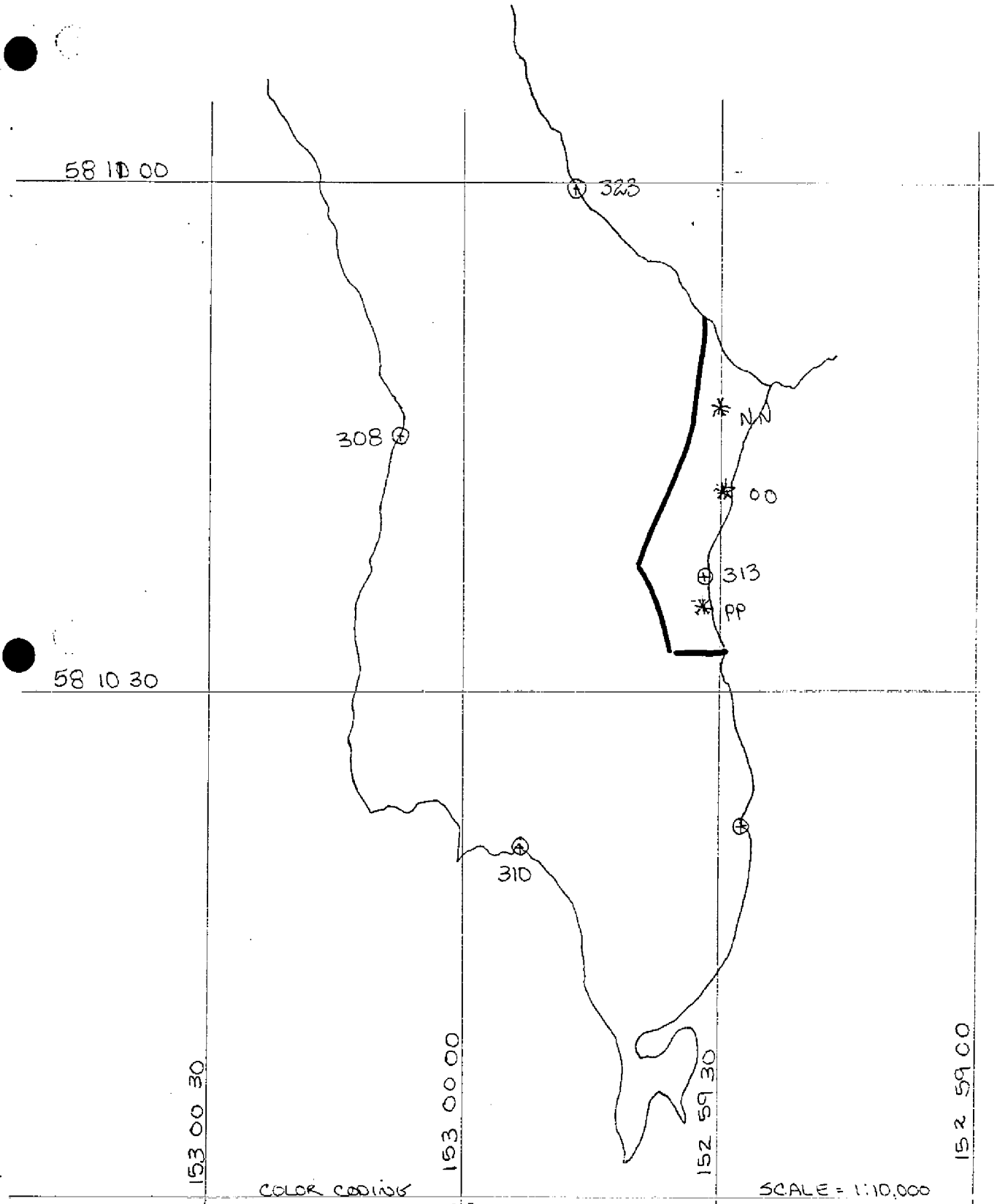
58° 11' 30"
305
306
371
BB
341
RED
W
388
344
RED
GREEN
DD
FF
GG
HH
II
GREEN
321
COLOR CODING
PURPLE H-2973 1:20,000
BROWN
BLUE TP-00295 1:20,000
TP-00294
RED DENOTES ADDITION OR CORRECTION
GREEN DENOTES DELETION
SCALE 1:10,000
ALL SHORELINE IS TRANSFERRED
FROM THE ROUGH BOATSHEET
OF RA-10-1-77


58 10 00
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COLOR CODING
PURPLE H-2973 1:20,000 1976 SURVEY
BROWN C-16604 1:78,000 1976 ED.
BLUE TP-00295 1:20,000
RED DENOTES ADDITION OR CORRECTION
GREEN DENOTES DELETION
SCALE = 1:10,000
+ ALL SHORELINE TRANSFERRED FROM THE ROUGH BOATSHEET OF RA-10-1-77

TABLE 1: ROCK INVESTIGATIONS

Rock	Latitude	Longitude	T-sheet	Height/time	Source	Disposition	Techniques	Remarks
A	58/10/04.5	152/52/48	TP-00295	----	Chart 16604	Non-existant	F.E.	Delete
B	58/10/01.5	152/52/43.5	" "	Rock submerged 1', 0227Z,JD179	Chart 16604	Verified	F.E.	Verified
C	58/10/00	152/52/47	" "	Rock Awash, 0227Z, JD 179	Chart 16604	Verified	F.E.	Verified
D new	58/10/21 58/10/19.2	152/53/42 152/53/41.1	" "	Rock spit, tip awash, (MHWL)	H-2973	Change Pos.	F.E.	Change Position
E	58/10/04.1	152/53/33.1	" "	Rock, 2' 2025Z, JD 166	H-2973	Verified	F.E.	Verified
F	58/10/02	152/53/29	" "	Rock, 3' 2023Z, JD 166	H-2973	Verified	"	Verified
G	58/10/43	152/55/01	" "	Rock, submerged 3', 2320Z,JD149	TP-00295	Verified	"	
H	58/10/49.5	152/55/17.5	" "	Rock, 4' 1700Z, JD 179	" "	Verified	F.E&H detached	2' rocks, see Desc.Rep't H-9684 Positions 7140-7141
I	58/11/02	152/54/59	" "	Rock 3' 1712Z JD 179	Chart 16604	Verified	F.E.	
J new	58/11/07.5 58/11/08.5	152/55/12.5 152/55/12	" "	Rock,7' 1705Z JD 179	" "	Change Pos.	F.E.	Change position due to scale change

Rock	Latitude	Longitude	T-sheet	Height/time	Source	Disposition	Techniques	Remarks
K	58/11/15	152/55/20	TP-00295	Rock, 1', 1930Z JD 166	TP-00295	Verified	F.E.	
L	58/11/20	152/55/26	TP-00295	Rock, 2', 1915Z JD 166	" "	Verified	"	
M	58/10/20	152/55/35	TP-00295	Rocks, submerged 1-2', 2225Z JD 148	H-2973	Verified	"	
N	58/10/22	152/55/42	" "	Rock awash, 2230Z, JD 148	Field Edit	Addition: Rock awash	"	
O	58/11/35	152/58/36	" "	Rock, 3', 1525Z JD 180	H-2973	Verified	"	
P	58/11/46	152/58/21	" "	Rock awash, 0107Z, JD 149	TP-00295	Verified	"	
Q	58/11/47	152/58/19	" "	Rock, 1', 0107Z JD 149	" "	" "	"	
R	58/11/38	152/58/47	" "	Rock, submerged 2',1545Z, JD180	Field Edit	Correction	"	New position for "S"
S	58/11/39	152/58/55	" "	XXXXXXX	H-2973	Deleted	"	Suspect rock is actually "R"
T	58/11/42	152/59/11	" "	Rock submerged, 0120Z, JD 149	TP-00295	Verified	"	

Rock	Latitude	Longitude	T-sheet	Height/time	Source	Disposition	Techniques	Remarks
U	58/11/47	152/59/08	TP-00295	Rock awash, 0015Z, JD 149	TP-00295	Verified	P.E.	
V	58/11/42	152/59/30	TP-00295	Rock submerged 3', 1740Z, JD179	"	Verified	"	
W	58/11/54	152/59/48	" "	Rock, 3', 2323Z JD 178	"	"	"	
X	58/11/57	152/59/55	" "	Rock, 2' 2325Z JD 147	"	"	"	Appear to be 2 rocks
Y	58/11/58	153/00/01	TP-00294	Rock, 2', 2335Z JD 147	TP-00294	"	"	
Z	58/12/02	153/00/00	" "	Rock, 3' 2335Z, JD 147	"	"	"	
North of Z	58/12/03	153/00/00	" "	Rock submerged 2', 1747Z, JD 179	H-2973	"	"	
AA	58/12/15	152/59/38	TP-00295	Rock 3', 0155Z JD 150 Rock 2' 0155Z JD 150	TP-00295	Verified Addition	" "	add Rock next to AA
BB	58/12/03	153/00/17	TP-00294	Rock, 2' 2345Z JD 146	TP-00294	Verified	"	

Rock	Latitude	Longitude	T-sheet	Height/time	Source	Disposition	Techniques	Remarks
CC	58/11/46.5 58/11/47	153/00/06 153/00/06.5	TP-00294 " "	Rock submerged 0000Z, JD 149 Rock submerged 2', 0000Z,JD 149	TP-00294 Field Edit	Verified Additional Rock	F.E. F.E.	New rock next to "CC"
DD	58/11/45	153/00/05	TP-00294	Could not find	H-2973	Delete	"	
EE	58/11/41	152/59/47.5	TP-00295	Rock, 3' 0050Z JD 179	TP-00295	Verified	"	
FF	58/11/39	152/59/50	" "	Rock, 6' 2350Z JD 178	Chart 16604	Verified	"	
GG	58/11/28	152/59/55	" "	Rock, 4' 0130Z JD 149	Chart 16604	Verified	"	
HH	58/11/28	152/59/55	" "	Ledge submerged 2', 1805Z JD179	TP-00295	" "	"	
II	58/11/26	152/59/53	" "	Not found	Chart 16604	Delete	"	SUSPECT ROCK IS ACTUALLY "HH"
JJ	58/11/23	152/59/38	" "	Rock submerged 3' 0150Z, JD149	Field Edit	Addition	"	New rock found
KK	58/11/35	152/59/35	" "	Rock submerged 4', 1745Z JD179	TP-00295	Verified	"	

Rock	Latitude	Longitude	T-sheet	Height/time	Source	Disposition	Techniques	Remarks
LL	58/11/18	152/59/43	TP-00295	Rock, 3' 1775Z JD 178	H-2973	Verified	F.E.	
MM	58/11/19	152/59/41	" "	Rock 1' 2036Z JD 147	" "	" "	"	
NN	58/10/470	152/59/30	" "	Not Found	" "	Delete	"	Delete
OO	58/10/42	152/59/30	" "	" "	" "	" "	"	" "
PP	58/10/35	152/59/32	" "	" "	" "	" "	"	" "
QQ	58/11/33	153/00/33	TP-00294	Rock submerged 8', 1815Z, JD179	TP-00294	Verified	"	
RR	58/11/56	153/00/46	" "	Rock awash 2331Z Jd 146	" "	" "	"	
SS	58/12/00	153/00/53	TP-00294	Not found	Chart 16604	Delete	"	Position changed for "S"
new	58/11/59	152/00/56	TP-00294	Rock 4' 0513Z JD 179	F.E.	Addition	"	
TT	58/11/57	153/01/12	TP-00294	Rock, 3' 1937Z JD 146	TP-00294	Verified	"	

TABLE 1: ROCK INVESTIGATIONS

Rock	Latitude	Longitude	T-sheet	Height/time	Source	Disposition	Techniques	Remarks
UU	58/12/01	153/01/17	TP-00294	Rock, 9' 1939Z JD 146	TP-00294	Verified	F.E.	
VV1	58/12/07	153/01/25	" "	Rock 2', 1922Z JD 146	" "	" "	"	
VV2	58/12/11	153/01/23	" "	Rock 4', 1921Z JD 146	" "	" "	"	
VV3	58/12/12	153/01/21	" "	Not Found	Chart 16604	Delete	"	Possible scale change Error in position
WW	58/12/06	153/01/38	" "	Rock submerged 7' 2340Z, JD178	TP-00294	Verified	"	
WW	58/12/03	153/01/36	" "	Rock submerged 2340Z, JD 178	" "	" "	"	
XX	58/11/28	152/59/37	TP-00295	Rock 5' 1615Z JD 180	F.E. Found	Additional	"	New Rock
YY	58/11/40	152/59/20	" "	Rock 1' 1605Z JD 180	F.E. Found	Additional	"	" "
ZZ	58/10/05	152/53/07	" "	Rock 1' 0000Z JD 149	F.E. Found	" " "	"	" "

"A" (Transferred from C-16604, not found) see Fig 1

A thorough search for Rock "A" was carried out but it was not found. The area searched is defined in Fig 1 by a dotted line 0125Z June 29, 1977 (JD 180). A Boston Whaler ran a pattern north and south with the shoreline as the northern boundary and Rock "C" as the southern boundary. Two meter spaced north and south lines were run having a westernmost boundary of the line tangent to the island signal #393 and the easternmost boundary of the line connecting rock "B" and signal #392. The sandbar directly east of the island was impassable practically out to the dotted line, therefore it was visually inspected. The Whaler ran at idle speed as the area at this time was only covered by 2-4 feet of water.

Color Chronopaque Photograph #6734 taken in 1971 shows an exposed area in the vicinity of Rock "A". After conducting the search and realizing the area of Rock "A" is sand bottom and subject to tidal flow, it is the field editor's belief that Rock "A" was merely a sand deposit which had shifted. To ensure the deposit no longer exists, the area was searched at a -1.5 tide state from the shore and the same conclusion was reached. It is recommended that Rock "A" be removed from the chart.

"D" (Transferred from H-2973, is a rock spit) see Fig 2

Rock "D" is actually a rock spit tip awash (MHWL). It is annotated on black and white chronopaque photo #225 and color chronopaque photo #6734. The seaward edge of the spit has been positioned on TP-00295 by raying in the photo signal #391, which is located on the seaward tip of the spit. This edge is actually 1 to 2 feet higher than its connecting spit and appears as a singular rock on the black and white photos. The 1908 survey has the shoreline extended out to the tip of the spit. Since the area between signal #391 and the shoreline is clearly a rock spit and impassable at most tidal stages, it is recommended that a change in the shoreline be made to include this area. Photo #6734 was used as a guideline.

"H" (Transferred from TP-00295) see Fig 3

Rock "H" is identified on color photo 6736 as two rocks separated by approximately 10 meters. By inspection in a Boston Whaler at 1700Z June 28, 1977 (JD 179) during a negative tide state the westernmost rock bares 4 feet while the easternmost rock bares 3 feet. The two rocks are connected by a mass of rock that bares anywhere up to 2 feet at the low tide states to being submerged 1 to 2 feet at medium tide states. Detached positions were taken on the extreme east and west ends of the exposed rocks during hydrographic survey operations on H-9684 by RA-6 (2126). It is agreed by both hydrographer and field editor that the

two rocks depicted on the photographs are not separate but part of a single rock mass and ledge which extends northwest from the rock mass. The table below lists time, position and leadline soundings obtained by the hydrographer at a +1.2 fathom tide stage.

Day/Time Group	Geographic Position	Leadline Sounding
182320	58° 10' 48".525 N 152° 55' 17".876 W	0.1 Fathoms
182407	58° 10' 48".797 N 152° 55' 17".015 W	0.2 Fathoms

"J" (Transferred from chart 16604 1:78,000; repositioned)

A search pattern for a rock in the vicinity of "J" was carried out in a half-circle of a 100 meter radius using signal 362 as the center. The search was conducted in a Boston Whaler using 10 meter spacing with 10 ft. water visibility and no rock was found in "J"'s location. However, a RK 7' 1705Z June 28, 1977 (JD 179) was found and is annotated on color photograph #6736 inshore of the transferred Rock "J". It is recommended that the 1908 position be updated to reflect the position of the RK 7' 1705Z June 28, 1977 (JD 179) mentioned above.

"R" (New subm rock) see Fig 4

Rock "R" annotated RK SUBM 2' 1545Z June 29, 1977 (JD 180) was seen by hydrographers while running a line in the area and designated a letter. It is identified on photo 6738 as a submerged rock and is annotated on TP-00295. It is recommended that this submerged rock be added to the chart.

"S" (Transferred from H-2973) see Fig 4

Rock "S" was searched for in an area from signal #329 west to #336 and from the shoreline 150 meters north at 1600Z June 29, 1977 (JD 180) (approx -2 tide state) and no rocks were found in this area by the field editor. A line of hydrography was run over the area of rocks and it was not found at that time. The search was done in a Boston Whaler with an approximate 10 meter spacing with visual inspection in 15' visibility water. It is recommended that this rock be deleted from the chart.

In search for Rock "S" two rocks close to shore were found and are annotated on the color photo #6738 as RK SUBM 4' 1600Z June 29, 1977 and RK 4' 1600Z June 29, 1977. The depths on the submerged rocks were determined with a leadline.

"X" (Transferred from TP-00295)

Rock "X" appears to be 2 rocks, RK 2' 2235Z May 27, 1977 (JD 147) and Rock 3' 2335Z annotated on color photo 6730. Since the rocks are separated by approximately 20 meters, even though they are connected by a submerged rock ledge, it is recommended that two rock symbols be used.

"AA" (Transferred from TP-00295) see Fig 4

Rock "AA" is marked on the chart with a single rock symbol when it is actually 3 rocks in a cluster with 40 meter spacing between the centers of the rocks. From the north working south, they are annotated RK 2' 0155Z May 30, 1977 (JD 150), RK 1' 0155Z May 30, 1977 (JD 150) and RK 3' 0155Z May 30, 1977 (JD 150). It is recommended that the two most seaward rocks be symbolized in this area (refer to color photo 6730 and Fig 4).

"II" (Transferred from chart 16604 1:78,000 scale) see Fig 5

After scanning this particular foul area a number of times and also after looking at the color chronopaque photos it is obvious that RK "II" is merely the same RK as "HH" (a rock transferred from the T-sheet). It has simply lost accurate positioning in the scale change from the 1:78,000 scale chart to the 1:20,000 boatsheet. It is obvious that rock "HH" is the correct position of the rock. The correction should be reflected on the next chart edition.

"JJ" (Foroe Rock, new) see Fig 4

Rock "JJ" annotated in red as RK SUBM3' 0150Z (JD 149) on photo 6730 and visible on photo 6738 was originally found by and was named after the coxswain of our aluminum launch RA-5. The rock was struck by the keel of the launch during investigatory field edit work. Up to and including this time only black and white photos were taken to the field. These photographs do not show any of the real dangers to navigation and it was felt necessary by the field editor to carry the color photos from this point on and to annotate them upon arrival to the ship. The color photos were a tremendous help in providing complete field edit notes and for the safe passage of the launch over submerged rocks.

"NN", "OO", "PP" (see Fig 6)

RK "NN"	LAT	58° 10' 47" N
	LON	152° 59' 30" W
RK "OO"	LAT	58° 10' 42" N
	LON	152° 59' 30" W
RK "PP"	LAT	58° 10' 35" N
	LON	152° 59' 32" W

All three rocks, "NN" "OO" and "PP" were transferred to the rough boat-sheet from chart 16604, 1976 ed. A thorough search was conducted for all three of these rocks at 0115Z June 28, 1977 (JD 179) and again at 1730Z June 29, 1977 (JD 180) (approx +0 tide state) and there were no rocks found in any of the three locations. The search was conducted in a Boston Whaler at low tides in an area 100 meters north of the river mouth that lies east of "NN". A search pattern of 10 meter spacing was run 100 meters offshore heading south approximately 100 meters south of signal #313, with line spacing decreasing to 5 meters in the vicinity of the rocks. The bottom contour was relatively flat and visibility was 15-20 ft. Green deletion notes are annotated on both black and white photo #225 and on TP-00295. Color photo 6738 covers this area at an approximate +0.9 tide state and there are no visible rocks or submerged rocks noted. It is recommended that the rocks "NN", "OO", and "PP" be removed from the chart.

"XX" (New rock) see Fig 4

Rock "XX" was found by the field editor at a negative tide state and is annotated on color photo 6738 as baring 5' at 1615Z June 29, 1977 (JD 180). It is seaward of the MHWL approximately 20 meters and would be a danger to navigation. It is recommended that it be added to the chart.

"YY" (New rock) see Fig 4

Rock "YY" which is annotated on color photo 6738 as baring 1' 1605Z June 29, 1977 (JD 180) was observed at an extremely low tide. Although the rock is fairly small, it is located approximately 10-20 meters northwest of a small island and may prove to be a danger to navigation for small boats approaching the island. It is recommended that this rock be added to the chart.

"ZZ" (New rock) see Fig 1

RK "ZZ" is annotated on photo #6734 baring 1' 0000Z May 29, 1977 (JD 149). It would clearly be a danger to navigation for a small boat if the boat were to land on the island south of the rock from the main part of the bay. It is recommended that this rock be included on the chart.

An islet on TP-00295 with geographic position 58° 11' 00" N, 152° 54' 39" W is visible on photo #6736 in a river mouth. It appeared to be a small sand bar deposit. This area was checked at both high and low tides and no such islet was found. After inspection of the area it is obvious that such a deposit has shifted since the photographs were taken in 1971, and no longer exists. It is recommended that it be removed from the chart.

54 RECOMMENDATIONS

Due to the superior nature of the color chronopaque photos in terms of clarity and tide coverage, it is recommended that color photos always be

made available for field editors. I cannot stress the important part these photos played in navigation through hazardous areas and in photo locating signals. Although the PMC OPORDER section addressing field edit operations states, "Chronopaque photos are not to be taken into the field," it was felt by the field editor that a complete and accurate job of field edit could not have been accomplished without these photos in the field. Their compact nature allowed them to be protected by plastic bottom sample bags.

55 MISCELLANEOUS (Photo Identified Signals)

Field edit operations for JOB PH-7071 TP-00295, scale 1:20,000 included the identifying and locating of 38 visual signals for hydrographic survey operations RA-10-1-77, H-9684, OPR-478-RA-77. Twenty-seven of these signals were identified and located photogrammetrically while the remaining eleven are hydro signals. The photo located signals have been rayed in on the Master Field Edit and photo signal Ozalid. The number adjacent to the signal corresponds with the number on the Master Station List.

The Hydro signals were located by three independent means. 1) Subpoint Method, 2) Resection by horizontal direction observations from a signal to many others using a Wild T-2 theodolite, or 3) Resection by horizontal angle observations from a signal to many others using a sextant.

Programs RK-407 and RK 300 were used to compute geographic positions for the subpointed signals.

During the beginning stages of the survey, jumps were found in the position of the soundings when signals used by the survey launch were changed while running a particular survey line. Signals 345, 346, 349 and 362 were occupied by a Wild T-2 theodolite and cuts were taken to all visible signals. More accurate geographic positions were computed for 345, 346, 349, and 362 by the method of resection. Consistent computations of the geographic positions for each of these signals were natural checks for Signals 318, 390, and 391 were occupied and sextant resection was used to update their positions.

Computer Program RK 300 was used to compute the geographic positions of the signals located by the T-2 or sextant. All field computations for each photo signal and hydro signal are included in the Photo Signal Computations Section of the "Separates Following the Text" of Descriptive Report H-9684.

Respectfully submitted,

Marianne Molchan ENS

Marianne Molchan, ENS
Field Edit Officer

Approved by,

James P Randall

James P. Randall, CAPT, NOAA
Commanding Officer

SEPARATES FOLLOWING THE TEXT

1) Progress Sketch
2) Manuscript Layout
3) Manuscript/Photo Index
4) Photo Flight Line

PROGRESS SKETCH

OPR-478-RA-77

HYDROGRAPHIC SURVEY

SHELIKOF STRAIT, ALASKA

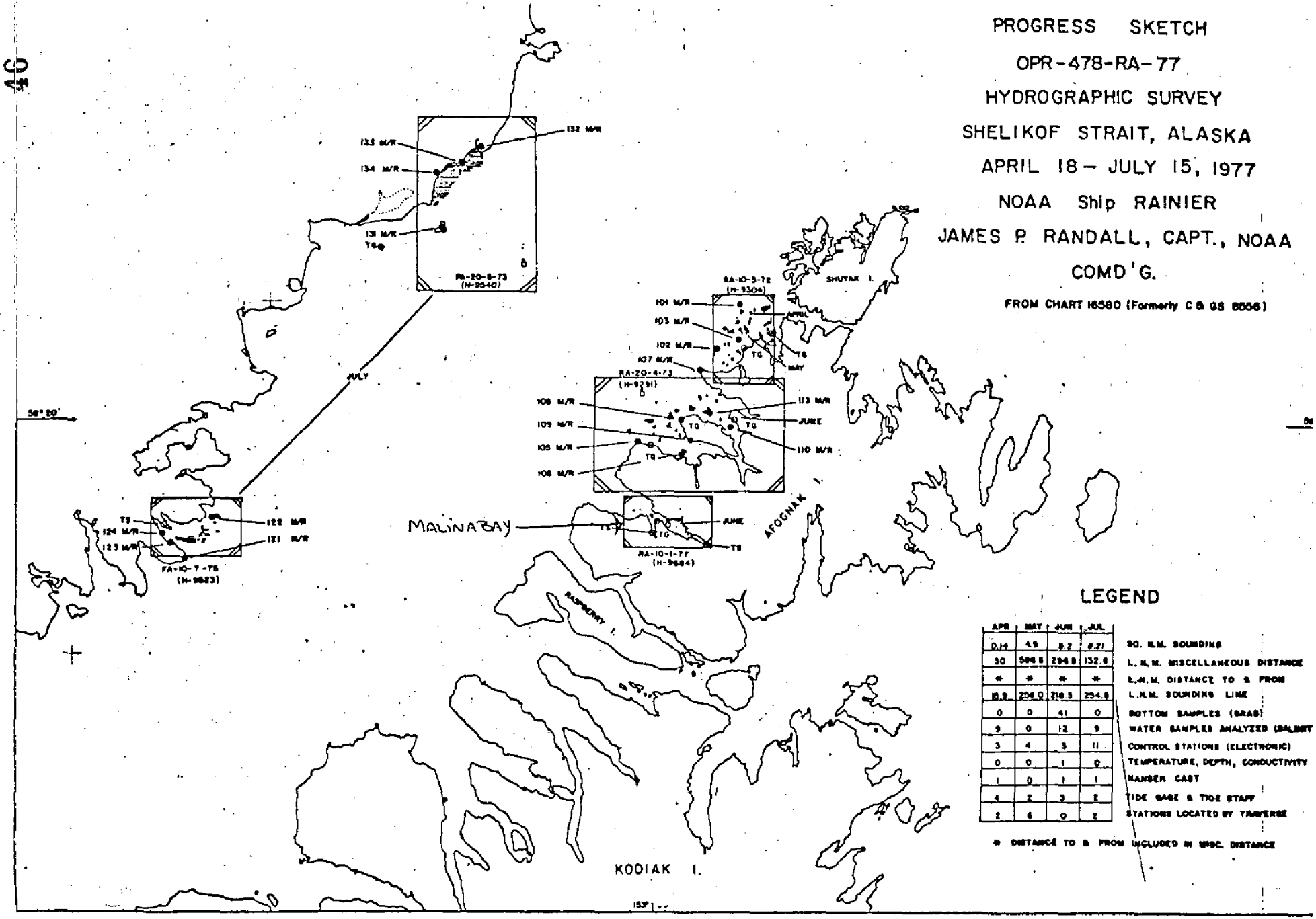
APRIL 18 – JULY 15, 1977

NOAA Ship RAINIER

JAMES P. RANDALL, CAPT., NOAA

COMD'G.

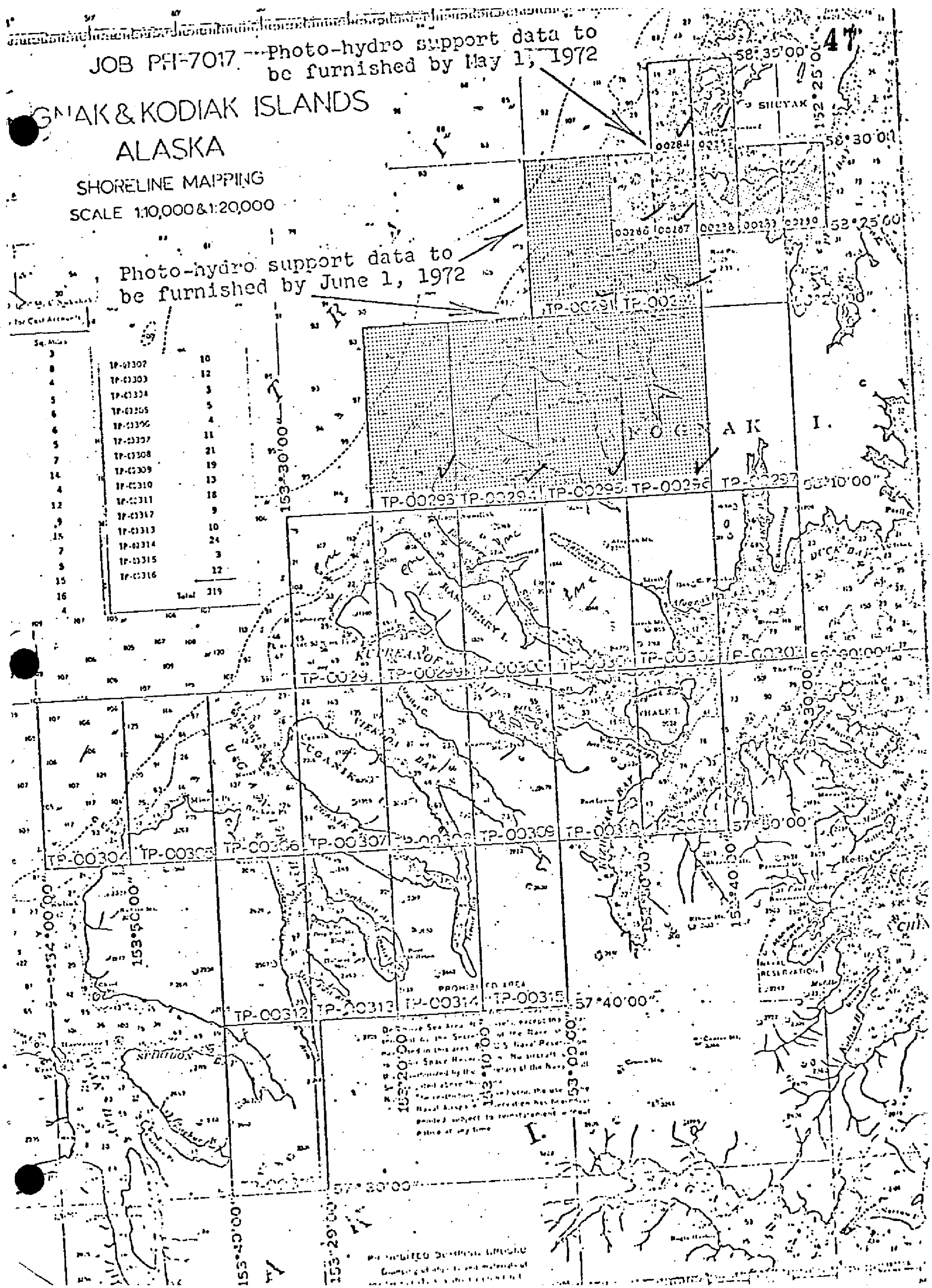
FROM CHART 16580 (Formerly C & GS 8556)



LEGEND

APR	MAY	JUN	JUL	
0.14	4.9	8.2	8.21	SQ. N.M. SOUNDING
30	586.8	296.8	132.6	L.N.M. MISCELLANEOUS DISTANCE
*	*	*	*	L.N.M. DISTANCE TO & FROM
30.9	296.0	216.3	254.8	L.N.M. SOUNDING LINE
0	0	41	0	BOTTOM SAMPLES (GRAB)
9	0	12	9	WATER SAMPLES ANALYZED (SALINITY)
3	4	3	11	CONTROL STATIONS (ELECTRONIC)
0	0	1	0	TEMPERATURE, DEPTH, CONDUCTIVITY
1	0	1	1	NANSEN CAST
4	2	3	2	TIDE GAGE & TIDE STAFF
2	6	0	2	STATIONS LOCATED BY TRAVERSE

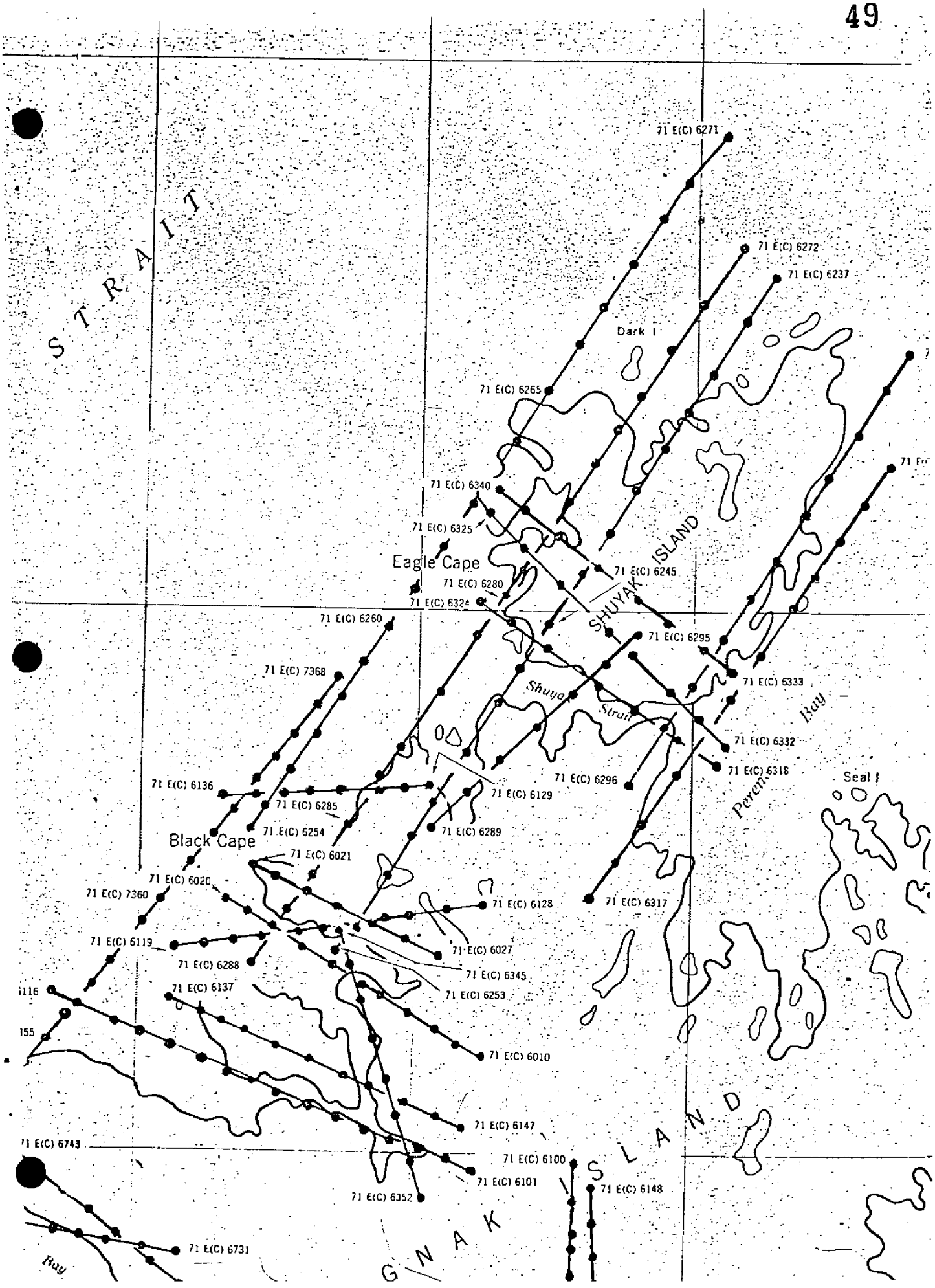
* DISTANCE TO & FROM INCLUDED IN MISC. DISTANCE


JOB PH-7017
Photo-hydro support data to be furnished by May 1, 1972
GNAK & KODIAK ISLANDS
ALASKA
SHORELINE MAPPING
SCALE 1:10,000 & 1:20,000
Photo-hydro support data to be furnished by June 1, 1972
Sq. Miles
3
8
4
5
6
6
5
7
14
4
12
9
15
7
5
15
16
4
TP-01302 10
TP-01303 12
TP-01304 3
TP-01305 5
TP-01306 4
TP-01307 11
TP-01308 21
TP-01309 19
TP-01310 13
TP-01311 18
TP-01312 9
TP-01313 10
TP-01314 24
TP-01315 3
TP-01316 12
Total 319
58°35'00"
58°30'00"
58°25'00"
58°20'00"
58°10'00"
58°00'00"
57°50'00"
57°40'00"
57°30'00"
152°25'00"
153°30'00"
153°50'00"
154°00'00"
153°40'00"
153°29'00"
153°20'00"
153°10'00"
153°00'00"
152°40'00"
152°30'00"
SHUYAK
AFOGNAK I.
RASPBERRY I.
UGANIK BAY
UYAK
CHALE I.
00284
00285
00286
00287
00288
00289
00290
TP-00291
TP-00293
TP-00294
TP-00295
TP-00296
TP-00297
TP-00299
TP-00300
TP-00302
TP-00303
TP-00304
TP-00305
TP-00306
TP-00307
TP-00309
TP-00311
TP-00312
TP-00313
TP-00314
TP-00315
PROHIBITED AREA
NAVAL RESERVATION
SPIRIDON

MANUSCRIPT/PHOTO INDEX

TP-00295

PHOTOGRAPH	DATES
325 (B & W)	May 26 - May 28, 1977 (JD 146-148)
6730 (Color)	May 26 - June 28, 1977 (JD 146-179)
6734 "	May 29 - June 28, 1977 (JD 149-179)
6736 "	May 27 - June 28, 1977 (JD 147-179)
6738 "	May 30 - June 29, 1977 (JD 150-180)
6741 "	June 1, 1977 (JD 152)


STRAIT
71 E(C) 6271
71 E(C) 6272
71 E(C) 6237
Dark I
71 E(C) 6265
71 E(C) 6340
71 E(C) 6325
Eagle Cape
71 E(C) 6280
71 E(C) 6324
71 E(C) 6245
SHUYAK ISLAND
71 E(C) 6260
71 E(C) 7368
71 E(C) 6295
71 E(C) 6333
Shuya Strait
Bay
71 E(C) 6332
71 E(C) 6318
71 E(C) 6296
Seal I
Perenosa
71 E(C) 6136
71 E(C) 6285
71 E(C) 6254
71 E(C) 6129
71 E(C) 6289
Black Cape
71 E(C) 6021
71 E(C) 6020
71 E(C) 7360
71 E(C) 6128
71 E(C) 6317
71 E(C) 6119
71 E(C) 6288
71 E(C) 6027
71 E(C) 6345
71 E(C) 6137
71 E(C) 6253
71 E(C) 6010
71 E(C) 6147
71 E(C) 6743
71 E(C) 6100
71 E(C) 6148
71 E(C) 6101
71 E(C) 6352
71 E(C) 6731
Bay
GNAK ISLAND

REVIEW REPORT
TP-00295

61. General Statement

Refer to the summary bound with this Descriptive Report for an overview of the photogrammetric operations related to the production of this map and associated data.

62. Comparison with Registered Topographic Surveys

Comparison with registered topographic surveys was not a requirement for this project.

63. Comparison with Maps of Other Agencies

Refer to item 46 of the Compilation Report bound with this Descriptive Report for detailed information on this topic.

64. Comparison with Hydrographic Surveys

Comparison with hydrographic surveys was not a requirement for this project.

65. Comparison with Nautical Charts

Refer to item 47 of the Compilation Report bound with this Descriptive Report for information on this topic.

66. Adequacy of Results and Future Surveys

This map meets the National Standards of Map Accuracy and the requirements specified in the project instructions.

67. Mean Lower Low Water Line

An approximate mean lower low water line was delineated within the confines of Malina Bay as it appears on this manuscript. The symbolized line was delineated through an office interpretation and application by graphic compilation techniques of the 1:20,000-scale "E" camera, color photography listed on NOAA Form 76-36 B, item #1, Compilation Photography. The stage of

tide indicated for the photographs was based on predicted tides. The mean lower low water line depicted should be considered approximate and advisory only. For more information on the datum, mean lower low water, refer to the contemporary hydrographic survey of the area.

68. Delineation

Map detail was compiled on the Wild B-8 stereoplotter using the 1:60,000-scale "M" camera, panchromatic photography. This was supplemented by office interpretation and graphic compilation techniques of the 1:20,000-scale "E" camera, color photography, both of which are listed on NOAA Form 76-36 B, Compilation Photography.

Submitted by,

D. Butler
Office Reviewer

J. Massey
Final Reviewer

Approved by,

Acting Chief, Photogrammetric Production Section

C.Y. Bryan CDR NOAA
Chief, Photogrammetry Branch

December 13, 1971

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-7017 (Alaska)

TP-00295

Afognak Island

Ban Island

~~Chugach National Forest~~ Jwm

Foul Bay

Malina Bay

Malka Bay

Paramanof Bay

~~Shelikof Strait~~ Jwm

Approved by:

A. Joseph Wraight
Chief Geographer

Prepared by:

Frank W. Pickett
Cartographic Technician

INDEX TO PROJECT DATA AND MATERIAL ON FILE

PH-7017

AFOGNAK AND KODIAK ISLANDS, ALASKA

NATIONAL ARCHIVES/FEDERAL RECORDS CENTER

BROWN JACKETS:* Denotes Field Edit Information

1 of 3: - Project Map Diagram/Photogrammetric Flight Line Layout
* - 1 Paper & 2 Film Ozalids, TP-00286
* - 1 Paper & 2 Film Ozalids, TP-00287
* - 1 Paper & 2 Film Ozalids, TP-00288
* - 1 Paper & 1 Film Ozalid, TP-00289
* - 1 Paper & 1 Film Ozalid, TP-00290
* - 1 Paper Ozalid, TP-00291
* - 1 Paper Ozalid, TP-00292
* - 1 Film Ozalid, TP-00293
* - 1 Paper & 1 Film Ozalid, TP-00294
* - 1 Paper & 1 Film Ozalid, TP-00295
* - 1 Paper Ozalid, TP-00296
* - 1 Film Ozalid, TP-00297
* - 1 Paper & 1 Film Ozalid, TP-00301
* - 1 Film Ozalid, TP-00303
* - 1 Film Ozalid, TP-00310
* - 1 Film Ozalid, TP-00311

2 of 3: - Binder of Aerotriangulation Printouts
- Binder Descriptive Report Control Records C&GS Form 164
- Binder of Photographic Flight Report ESSA Form 76-15
- Binder of Control Station Identification Cards, C&GS Form 152
* - Binder of Computed Tide Curve Graphs & Stage of Tide Computations for Photographic and Field Edit Data
* - Binder of Pacific Marine Center generated Computer Addendum to Horizontal Control Reports
* - Binder Tide Data and Zoning Information
- Bridging Photographs and Film Positives

3 of 3:* - 1 Sounding Volume for TP-00303
* - 1 Sounding Volume for TP-00310
* - 1 Sounding Volume for TP-00311

PHOTOGRAPHS 9X9 FORMAT

* - NOS 3 Aug. 71 E (C) 7352 thru 7355
* - NOS 3 Aug. 71 E (C) 7269, 7270, 7272, 7294, 7295
* - NOS 10 Jul. 71 E (C) 6708 thru 6710, 6726 thru 6730, 6734, 6736, 6738, 6739, 6741 thru 6743
* - NOS 10 Jul. 71 E (C) 6642, 6645, 6646, 6648, 6649, 6668
* - NOS 6 Jul. 71 E (C) 6362 thru 6370
* - NOS 5 Jul. 71 E (C) 6217 thru 6226
* - NOS 4 Jul. 71 E (C) 6113
* - NOS 5 Jul. 71 E (C) 6141, 6151, 6152
* - NOS 4 Jul. 71 E (C) 6044 thru 6047, 6049, 6050, 6076 thru 6078, 6081, 6091 thru 6094
* - NOS 4 Jul. 71 E (C) 5995, 5996

PHOTOGRAPH SEGMENTS

* - NOS 4 Jul. 71 M (P) 220
* - NOS 4 Jul. 71 M (P) 221
* - NOS 4 Jul. 71 M (P) 222
* - NOS 4 Jul. 71 M (P) 225, Parts A,B,C
* - NOS 3 AUG. 71 M (P) 319
* - NOS 3 Aug. 71 M (P) 320
* - NOS 3 Aug. 71 M (P) 322
* - NOS 3 Aug. 71 M (P) 323
* - NOS 3 Aug. 71 M (P) 324, Parts A,B
* - NOS 3 Aug. 71 M (P) 325
* - NOS 3 Aug. 71 M (P) 326, Parts A,B
* - NOS 5 Jul. 71 E (C) 6246
* - NOS 5 Jul. 71 E (C) 6247
* - NOS 6 Jul. 71 E (C) 6282
* - NOS 6 Jul. 71 E (C) 6281
* - NOS 6 Jul. 71 E (C) 6283
* - NOS 6 Jul. 71 E (C) 6284
* - NOS 6 Jul. 71 E (C) 6290
* - NOS 6 Jul. 71 E (C) 6291
* - NOS 6 Jul. 71 E (C) 6318
* - NOS 6 Jul. 71 E (C) 6321
* - NOS 6 Jul. 71 E (C) 6323
* - NOS 6 Jul. 71 E (C) 6333
* - NOS 6 Jul. 71 E (C) 6334
* - NOS 6 Jul. 71 E (C) 6335

PROJECT COMPLETION REPORT

AGENCY ARCHIVES

Registration Copy of the Map
Descriptive Report of the Map

PHOTOGRAMMETRIC ELECTRONIC DATA LIBRARY

There is no digital data for this project

REPRODUCTION BRANCH

8X Reduction Negative of Map

OFFICE OF THE STAFF GEOGRAPHER

Geographic Names Standard

FORM C&GS-8352
(3-25-63)

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. TP-00295

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
			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
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
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			Drawing No.
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			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.

FORM C&GS-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-975.

USCOMM-DC 8558-P61