TP-00443

TP-00443

NOAA FORM 76-35
(6-80)

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

DESCRIPTIVE REPORT

Map No. TP-00443	*Edition No.* One
Job No. CM-7802	
Map Classification FINAL MAP	
Type of Survey Shoreline	

LOCALITY

State California

General Locality Monterey Bay

Locality Monterey Harbor

1978 TO 1980

REGISTERED IN ARCHIVES

DATE

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

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- 00443
MAP EDITION NO. (1)
MAP CLASS Final Map
JOB CM-7802

PHOTOGRAMMETRIC OFFICE
Coastal Mapping Division, AMC,
Norfolk, Virginia

OFFICER-IN-CHARGE
Roy K. Matushige, CDR

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	Oct. 17, 1978	Control	April 4, 1978
Office	Jan. 10, 1979		

II. DATUMS

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

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

3. MAP PROJECTION: Lambert Conformal Conic

4. GRID(S): STATE: California; ZONE: 4

5. SCALE — STATE: ; ZONE:

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION METHOD: Analytic	BY	S. Solbeck	Jan. 1979
	LANDMARKS AND AIDS BY	D. Norman	Jan. 1979
2. CONTROL AND BRIDGE POINTS METHOD: Calcomp 748	PLOTTED BY	S. Solbeck	Jan. 1979
	CHECKED BY	D. Norman	Jan. 1979
3. STEREOSCOPIC INSTRUMENT COMPILATION	PLANIMETRY BY	D. Butler	Feb. 1979
	CHECKED BY	F. Margiotta	Feb. 1979
INSTRUMENT: Wild B-8	CONTOURS BY	N.A.	
SCALE: 1:10,000	CHECKED BY	N.A.	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	D. Butler	Feb. 1979
	CHECKED BY	L. Neterer, Jr.	Mar. 1979
METHOD: Smooth drafted	CONTOURS BY	N.A.	
	CHECKED BY	N.A.	
SCALE: 1:10,000	HYDRO SUPPORT DATA BY	D. Butler	Feb. 1979
	CHECKED BY	L. Neterer, Jr.	Mar. 1979
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	L. Neterer, Jr.	Mar. 1979
6. APPLICATION OF FIELD EDIT DATA	BY	G. Morris	Aug. 1980
	CHECKED BY	W. Richter	Oct. 1980
7. COMPILATION SECTION REVIEW	BY	D. Butler	Feb. 1985
8. FINAL REVIEW	BY	L. O. Neterer, Jr.	May 1985
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY	L. O. Neterer, Jr.	May 1985
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	J. Schod	June 1985
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	E DAUGHERTY	SEP 1985

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

*U.S. GOVERNMENT PRINTING OFFICE-1977-765-092

NOAA FORM 76-36B
(3-72)

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

TP-00443

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S): Wild R.C.-10 "B" (Focal length is 152.74 mm)

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

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

TIME REFERENCE
ZONE: Pacific — [X] STANDARD
MERIDIAN: 120th — [ ] DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
78B (P) 2336 - 2339	April 8,'78	14:05	1:30,000	2.8 ft. above M.L.L.W.
78B (P) 2345 - 2347	April 8,'78	14:20	1:30,000	2.5 ft. above M.L.L.W.
* 78B (P) 2354 - 2358	April 8,'78	14:41	1:20,000	2.2 ft. above M.L.L.W.
* 78B (P) 2364 - 2369	April 8,'78	14:55	1:20,000	2.1 ft. above M.L.L.W.

* Hydro support

REMARKS

The tide gage used to compute the stage of tide of the photographs is at Monterey.

2. SOURCE OF MEAN HIGH-WATER LINE:

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

3. SOURCE OF ~~MEAN LOW-WATER LINE~~ MEAN LOWER LOW-WATER LINE:

None compiled.

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
No survey	No survey	No survey	No survey

REMARKS

NOAA FORM 76-36C
(3-72)

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

TP-00443

HISTORY OF FIELD OPERATIONS

I. [X] FIELD INSPECTION OPERATION (PREMARKING) [ ] FIELD EDIT OPERATION

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		R. Melby	Sept. 1978
2. HORIZONTAL CONTROL	RECOVERED BY	R. Melby	Sept. 1978
	ESTABLISHED BY	None	---
	PRE-MARKED OR IDENTIFIED BY	L. Riggers	Sept. 1978
3. VERTICAL CONTROL	RECOVERED BY	None	---
	ESTABLISHED BY	None	---
	PRE-MARKED OR IDENTIFIED BY	None	---
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 [X] NO INVESTIGATION — BY		
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None	---
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	Not applicable	---

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED
None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
78B(P)2345	Seaside 4, 1964		
78B(P)2346	Mussel, 1932		
78B(P)2338	Lights (CDH), 1972		

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*)
3 forms 76-53

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

3A

NOAA FORM 76-36C
(3-72)

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

TP-00443

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION ☒ FIELD EDIT OPERATION

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		D. Seidel	Sept. 1979
2. HORIZONTAL CONTROL	RECOVERED BY	R. Melby	Sept. 1979
	ESTABLISHED BY	None	
	PRE-MARKED OR IDENTIFIED BY	R. Melby	Sept. 1979
3. VERTICAL CONTROL	RECOVERED BY	None	
	ESTABLISHED BY	None	
	PRE-MARKED OR IDENTIFIED BY	None	
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	None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	Not Applicable	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

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 ☐ 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)*

Fix positions & signal overlay, Field Edit Report, Fix Volume
Field Edit Ozalid (film) Field Edit Print (paper)

☆ U.S. GPO: 1977-765-092/1105 Region 6

3B

NOAA FORM 76-36C
(3-72)

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

TP-00443

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION ☒ FIELD EDIT OPERATION

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		G. Mills, LCDR	Aug. 1980
2. HORIZONTAL CONTROL	RECOVERED BY	G. Mills, LCDR	Aug. 1980
	ESTABLISHED BY	None	---
	PRE-MARKED OR IDENTIFIED BY	None	---
3. VERTICAL CONTROL	RECOVERED BY	None	---
	ESTABLISHED BY	None	---
	PRE-MARKED OR IDENTIFIED BY	None	---
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	None	---
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	Not applicable	---

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED: None

2. VERTICAL CONTROL IDENTIFIED: None

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 ☒ NONE

6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

Ozalid "As Built" print of City of Monterey boat ramp & floating dock, and Copied photo reduction of USCG print for small boat floating docks

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

Letter from LCDR. Mills dated 15 Aug. 1980.

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

NOAA FORM 76-36D
(3-72)

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

TP-00443

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.	Mar. 1979	Class III Manuscript	Mar. 1979	Mar. 1979
Field edit applied. Compilation complete.	Oct. 1980	Class I Manuscript	June 1985	

II. LANDMARKS AND AIDS TO NAVIGATION

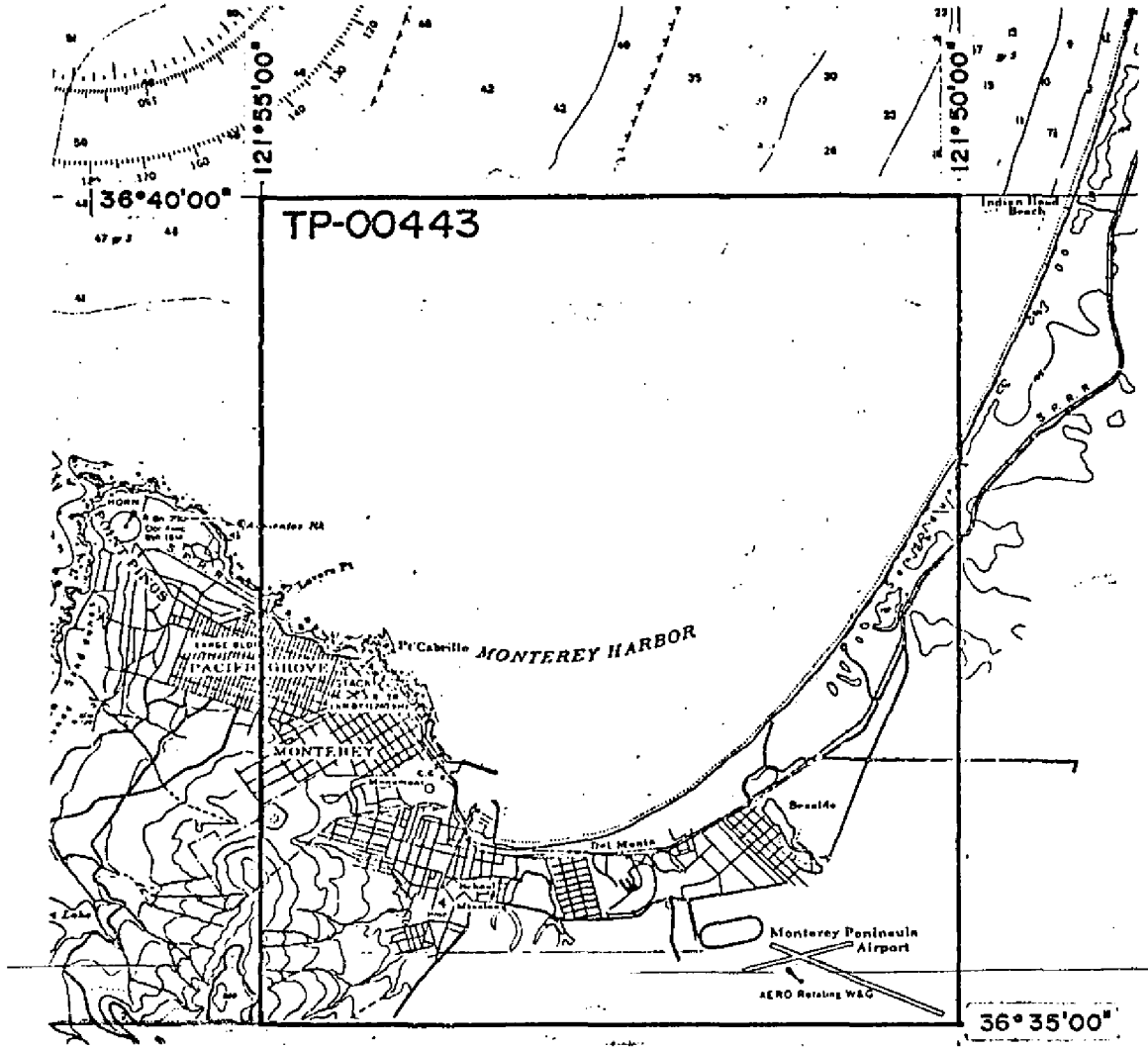
1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
3		June 1985	Appropriate forms 76-40 are attached with this Descriptive Report.

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____

[redacted]

5



JOB CM-7802
MONTEREY HARBOR, CALIFORNIA
SHORELINE MAPPING
SCALE 1:10,000

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-00443

This 1:10,000 scale shoreline map is the only map in the project CM-7802, Monterey Harbor, California.

This project encompasses Monterey Harbor from longitude 121°51'00" west to longitude 121°55'00".

Photographic coverage was provided in April 1978 using the "B" camera (focal length 152.74mm) with black-and-white panchromatic film at 1:30,000 for bridging and compilation and 1:20,000 scale for hydro support.

Field work prior to compilation consisted of photoidentification of horizontal control. It was accomplished in September 1978 and was done to meet the requirements for aerotriangulation.

Analytic aerotriangulation was performed at the Washington Science Center in January 1979.

Compilation was accomplished and hydrographic support photographs were prepared at the Atlantic Marine Center in March 1979.

The project was sent to the Pacific Marine Center in July 1979.

Field edit was done by the Naval Postgraduate School students and NOAA personnel from the ship DAVIDSON from August thru September 1979.

Additional field edit was accomplished in August of 1980. Field edit was applied at PMC during October 1980. Final Review was performed at the Atlantic Marine Center in May 1985.

This Descriptive Report contains all pertinent information used to compile this final map.

The original base map and all pertinent data were forwarded to the Washington Science Center for final registration.

FIELD INSPECTION

TP- ØØ443

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification of the horizontal control necessary for the aerotriangulation of the project.

Photogrammetric Plot Report
Monterey Harbor, California

CM-7802
January 4, 1979

Area Covered

The area covered by this report is the immediate shoreline bounding and including Monterey Harbor, California.

The area is covered by one 1:10,000 scale manuscript (TP-00443).

Method

Two strips of 1:30,000 scale black and white panchromatic photography were bridged by analytic aerotriangulation methods. Field identified control was provided. Office identified control and tie points between the strips were used as a check.

Common points were dropped from the bridging photography to the 1:20,000 scale panchromatic compilation photography for ratio purposes.

Ratio prints of all photography have been oredered as requested.

The manuscript was plotted on the CALCOMP 748 plotter.

Adequacy of Control

The control proved adequate according to National Map Accuracy Standards.

Supplemental Data

USGS quads were used to provide vertical control for the strip adjustments. A reproduced portion of Nautical Chart 18685 was used to locate aids and landmarks.

Photography

The coverage, overlap, and quality of the photography proved adequate for the job.

Respectfully Submitted,

Stephen H. Solbeck

Approved and Forwarded:

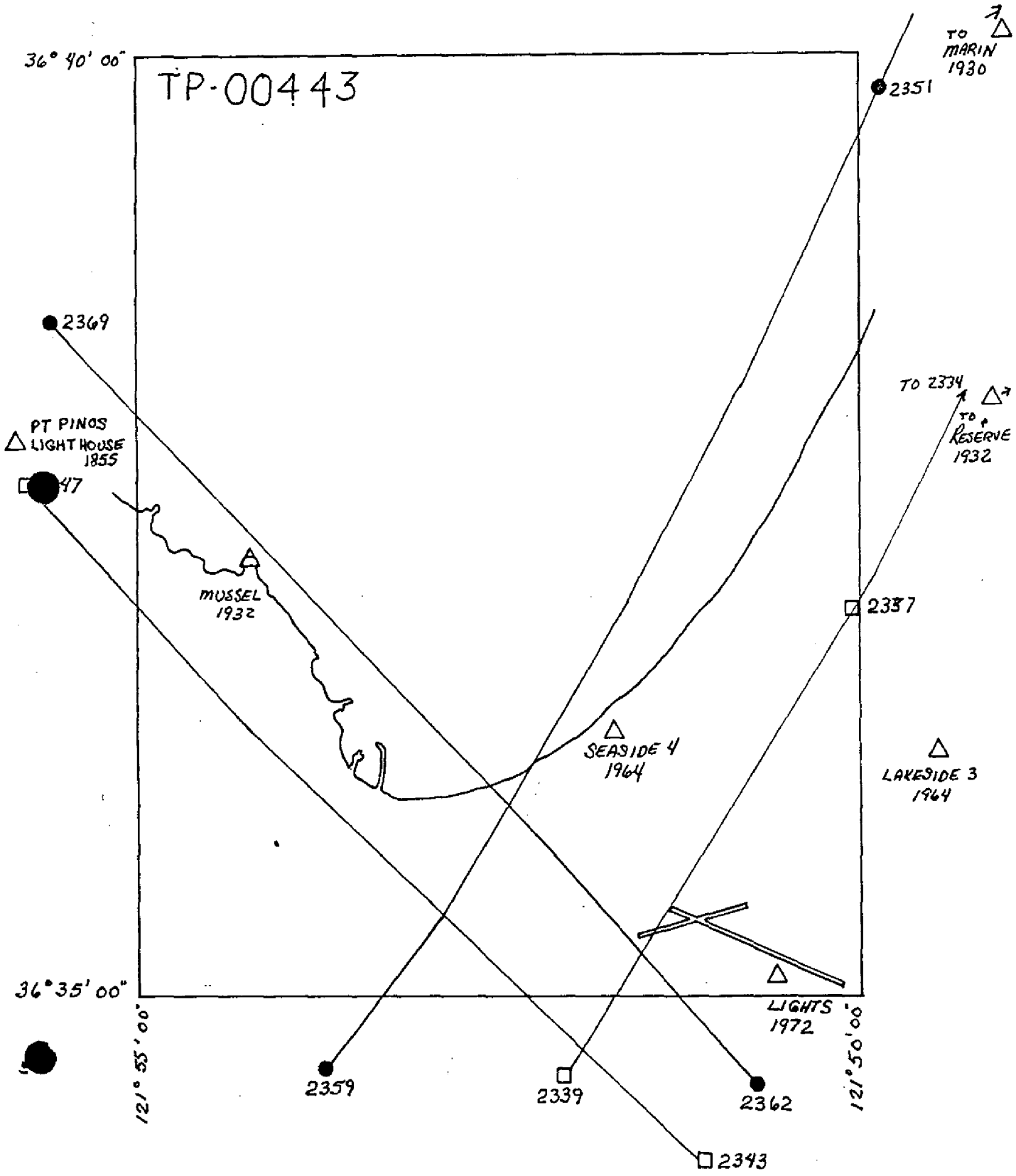
Don O. Norman

Don O. Norman
Chief, Aerotriangulation Section

Monterey Harbor, California
CM 7802

● □ 78B(P) 1:30000 BRIDGING PHOTOGRAPHY

● 78B(P) 1:20000 COMPILATION PHOTOGRAPHY



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-00443	CM-7802	North American 1927	Coastal Mapping Division, A.M.C.

STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	COORDINATES IN FEET STATE California ZONE 4	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	REMARKS
MUSSEL, 1932	361214	346100	x=	φ 36° 37' 18.151"	
			y=	λ 121° 54' 11.628"	
MONTEREY RADIO STATION KMBY MAST, 1962	361214	346119	x=	φ 36° 36' 56.78903"	
			y=	λ 121° 53' 54.67765"	
SEASIDE 4, 1964	361214	338100	x=	φ 36° 36' 23.44596"	
			y=	λ 121° 51' 38.83281"	
MONTEREY PRESIDIO MONUMENT, 1932	361214	345116	x=	φ 36° 36' 24.782"	
			y=	λ 121° 53' 48.453"	
LIGHTS (CDH), 1972	361214		x=	φ 36° 35' 01.280"	
			y=	λ 121° 50' 22.370"	
MONTEREY HARBOR LIGHT 6, 1978			x=	φ 36° 36' 30.679"	
			y=	λ 121° 53' 19.061"	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	

COMPUTED BY	D. Butler	DATE	22 Jan. '79	COMPUTATION CHECKED BY	L. Neterer Jr. & D.Butler	DATE	22 Jan. 1979
LISTED BY	D. Butler	DATE	22 Jan. '79	LISTING CHECKED BY	L. Neterer Jr. & D.Butler	DATE	22 Jan. 1979
HAND PLOTTING BY	D. Butler	DATE	22 Jan. '79	HAND PLOTTING CHECKED BY	L. Neterer Jr. & D.Butler	DATE	22 Jan. 1979

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

10

COMPILATION REPORT

TP-00443

31 - DELINEATION

Delineation was by instrument method using the Wild B-8 stereoplotter, and 1:30,000 black and white panchromatic photographs. The quality and coverage was adequate.

32 - CONTROL

Refer to the Photogrammetric Plot Report dated January 4, 1979. The placement, accuracy, and identification of the aerotriangulated control, which was furnished for the purpose of controlling the stereo models, was adequate for compilation.

33 - SUPPLEMENTAL DATA

None.

34 - CONTOURS AND DRAINAGE

Contours are not applicable to the project. Drainage was delineated by the Wild B-8 stereoplotter and supplemented by office stereoscopic interpretation of the ratio photographs.

35 - SHORELINE AND ALONGSHORE DETAILS

See form 76-36B, item 2 for delineation of the mean high water line. Alongshore details were delineated by the Wild B-8 stereoplotter, and supplemented by office stereoscopic interpretation of the ratio photographs which were controlled with pass points that were selected and dropped during the stereo instrument compilation of the shoreline and interior details.

36 - OFFSHORE DETAILS

None.

37 - LANDMARKS AND AIDS

There were 4 charted landmarks and 2 charted nonfloating aids to navigation within the mapping limits of this manuscript. All were located photogrammetrically.

38 - CONTROL FOR FUTURE SURVEYS

None.

COMPILATION REPORT (cont'd.)

TP-00443

39 - JUNCTIONS

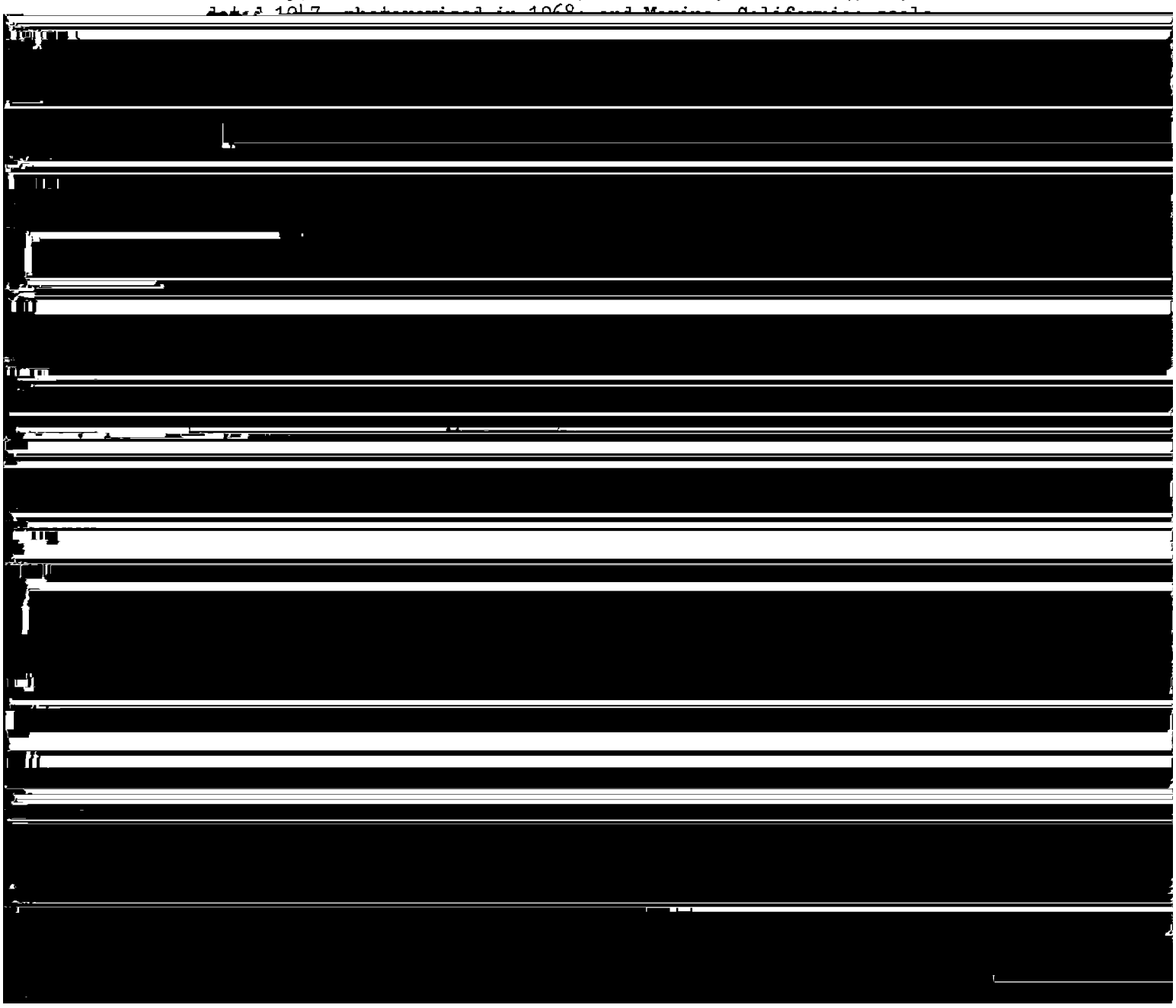
Refer to the Compilation Sources form 76-36B, item 5.

40 - HORIZONTAL AND VERTICAL ACCURACY

Refer to the Photogrammetric Plot Report dated January 4, 1979, and item 32 of this Compilation Report.

46 - COMPARISON WITH EXISTING MAPS

A comparison was made with U.S. Geological Survey Quadrangles: Monterey, California and Seaside, California; scale 1:24,000; dated 1947, photorevised in 1968; and Marina, California; scale



ADDENDUM TO THE COMPILATION REPORT

TP-00443

FIELD EDIT

The data listed in section 8., item II of form 76-36C (Field Edit Operation) was collected by students at the Naval Postgraduate School in Monterey.

All fix positions are a mean value of the fix and the check fix.

Submitted by:
David P. Butler for
George A. Morris
Cartographic Technician

JUN [redacted]

14

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM 7802 (Monterey Harbor, California)

TP-00443

Del Monte

Del Monte Lake

El Estero (lake)

Laguna del Rey

Lovers Point

Monterey

Monterey Bay

Monterey Harbor

New Monterey

Pacific Grove

Point Alones

Point Cabrillo

Retreat

Seaside

Southern Pacific (RR)

Approved by:

Charles E. Harrington

Charles E. Harrington
Chief Geographer
Nautical Charting Division

FIELD EDIT REPORT

TP 00443
Monterey Bay, California
NPS OC 4800
24 August - 3- September 1979

Note: This field edit project was planned and conducted by students at the Naval Postgraduate School, Monterey, CA. The field edit package is not complete. The field edit was allocatted a limited amount of the student's time due to concurrent class and thesis requirements. The work completed consists of the following:

1. Answers to discrepancy print questions
2. Check of compilation for up-to-date depiction of inshore structures and features
3. Delineation of rocks and foul areas exposed above MLLW and delineation of kelp areas.

51 METHODS - A seventeen foot skiff was supplied by the Naval Postgraduate School and moored at the U. S. Coast Guard Pier, Monterey. Supplies and Maintenance of the vessel were also obtained from the school

The field edit area commonly had breakers which prevented any near shore work. Therefore, the field edit was performed during periods when the tide was at least reasonably low and sea conditions reasonably safe.

All positions were obtained with sextants and consist of a fix plus a check angle. The control signals were photo picked where necessary. Signals from hydrographic survey DA 5-1-79 were used when available. The signal numbers from the hydrographic survey were maintained in the field edit data. All positional information was recorded in a sounding volume.

The coastline northwest of Monterey Harbor contains substantial extents of kelp and rocks. The procedure primarily consisted of delimiting the offshore boundaries of these foul areas with sextant positions. Any rock heights obtained were estimated visually if above the waterline and with a sounding pole when below the waterline. The rock heights and local time (120° W) was recorded in a sounding volume.

The photo picked control signals were transferred to the field edit sheet from the photos by radial plotting. The hydrographic control signals were hand plotted from the geographic positions listed in the DA 5-1-79 Descriptive Report. All the field edit positions were plotted with a three arm protractor on an overlay to accompany the field edit sheet. The foul limit lines and all rocks outside the foul limits were transferred from the position overlay to the field edit sheet.

52 ADEQUACY OF COMPILATION - The compiler was presumably handicapped by the breakers which were occurring when the photography was flown. A number of shoal areas outlined by the compiler were overly extended due to the wave action and the low water line was neglected. The compilation outlined house trailers and heavy construction equipment as permanent buildings.

53 MAP ACCURACY - The shoreline and onshore structures and features accurately depicted. The photography was recent and few changes have occurred. The accuracy of the onshore structures was confirmed by the location of photo picked signals on the corners of compiled buildings.

The offshore positions rarely correlated with compiled features because of the "foul with rocks" nature of the area. Numerous rocks north west of Monterey Harbor, compiled on the field edit sheet, were not verified with individual fixes. The offshore foul limits were delineated.

54 RECOMMENDATIONS - It is recommended that the sextant fixes logged in the sounding volume be logged and plotted by automated methods to serve as an additional check. Positions number 7 and 26 were "swingers". It is recommended that these positions be retained. The check fixes are good and the line of position from the swingers pass through the check fix positions.

55 MISCELLANEOUS - The Naval Postgraduate School has a continuing program which includes field work in Monterey Bay. This field edit package is submitted for compilation with the items listed in the introductory note completed. Any additional field work deemed necessary to completion of this manuscript should be referred to the NOAA Liason Officer, Code 68 Nr, Naval Postgraduate School, Monterey, CA.

Submitted by:

DE Rathrup for

Dean R. Seidel
LCDR, NOAA

REVIEW REPORT
SHORELINE

TP-00443

61 - GENERAL STATEMENT

See 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 the U.S.G.S. Quadrangles: Monterey, California, dated 1947, photorevised 1968, Marina, California, dated 1947, photorevised 1968 and 1974 Seaside, California, dated 1947, photorevised 1968 and photo-inspected 1974.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison made with a registered copy of hydrographic survey H-9809, scale 1:5,000, dated February through March 1979.

65 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following NOS Chart: 18685, dated July 23, 1983, 27th edition, scale 1:50,000.

66 - ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Submitted by
Lowell O. Neterer
Lowell O. Neterer, JR.
Final Reviewer
May 24, 1985

Approved for forwarding,
Billy H. Barnes
Billy H. Barnes
Chief, Photogrammetric Section

Approved,
Chief, Photogrammetric Section,
Rockville

Ronald K. Brewer
Chief, Photogrammetry Branch,
Rockville

NOAA FORM 76-40
(8-74)

Replaces C&GS Form 567.

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

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

ORIGINATING ACTIVITY
- [ ] HYDROGRAPHIC PARTY
- [ ] GEODETIC PARTY
- [ ] PHOTO FIELD PARTY
- [X] COMPILATION ACTIVITY
- [ ] FINAL REVIEWER
- [ ] QUALITY CONTROL & REVIEW GRP.
- [ ] COAST PILOT BRANCH

(See reverse for responsible personnel)

- [ ] TO BE CHARTED
- [X] TO BE REVISED
- [ ] TO BE DELETED

REPORTING UNIT (Field Party, Ship or Office)	STATE	LOCALITY	DATE
Photogrammetry P.M.C., Seattle, WA.	California	Monterey Bay, Monterey Harbor	Sept.1980

The following objects HAVE [X] HAVE NOT [ ] been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
DA-5-1-79	CM-7802	TP-00443	North American 1927

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION LATITUDE ° ′	LATITUDE ″ D.M. Meters	POSITION LONGITUDE ° ′	LONGITUDE ″ D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	FIELD	CHARTS AFFECTED
LIGHT	(Monterey Harbor Light 6, 1978)	36° 36′	30.679 945.7	121° 53′	19.061 473.7	78B (P) 2366 April 8, 1978	F-1-6-L Sept. 15, 1978	18685

RESPONSIBLE PERSONNEL		
TYPE OF ACTION	**NAME**	**ORIGINATOR**
OBJECTS INSPECTED FROM SEAWARD	D. Seidel, LCDR.	☐ PHOTO FIELD PARTY ☒ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ OTHER *(Specify)*
POSITIONS DETERMINED AND/OR VERIFIED	D. Seidel, LCDR.	FIELD ACTIVITY REPRESENTATIVE
	G. Morris, Cartographic Technician	OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		☐ REVIEWER ☐ QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'

(Consult Photogrammetric Instructions No. 64.

OFFICE

I. OFFICE IDENTIFIED AND LOCATED OBJECTS

Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object.

EXAMPLE: 75E(C)6042
8-12-75

FIELD

I. NEW POSITION DETERMINED OR VERIFIED

Enter the applicable data by symbols as follows:

F - Field	P - Photogrammetric
L - Located	Vis - Visually
V - Verified	
1 - Triangulation	5 - Field identified
2 - Traverse	6 - Theodolite
3 - Intersection	7 - Planetable
4 - Resection	8 - Sextant

A. Field positions* require entry of method of location and date of field work.

EXAMPLE: F-2-6-L
8-12-75

*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.

FIELD (Cont'd)

B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object.

EXAMPLE: P-8-V
8-12-75
74L(C)2982

II. TRIANGULATION STATION RECOVERED

When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery.

EXAMPLE: Triang. Rec.
8-12-75

III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH

Enter 'V-Vis.' and date.

EXAMPLE: V-Vis.
8-12-75

**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.

NOAA FORM 76-40
(8-74)

Replaces C&GS Form 567.

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

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

ORIGINATING ACTIVITY
- [ ] HYDROGRAPHIC PARTY
- [ ] GEODETIC PARTY
- [ ] PHOTO FIELD PARTY
- [X] COMPILATION ACTIVITY
- [ ] FINAL REVIEWER
- [ ] QUALITY CONTROL & REVIEW GRP.
- [ ] COAST PILOT BRANCH

(See reverse for responsible personnel)

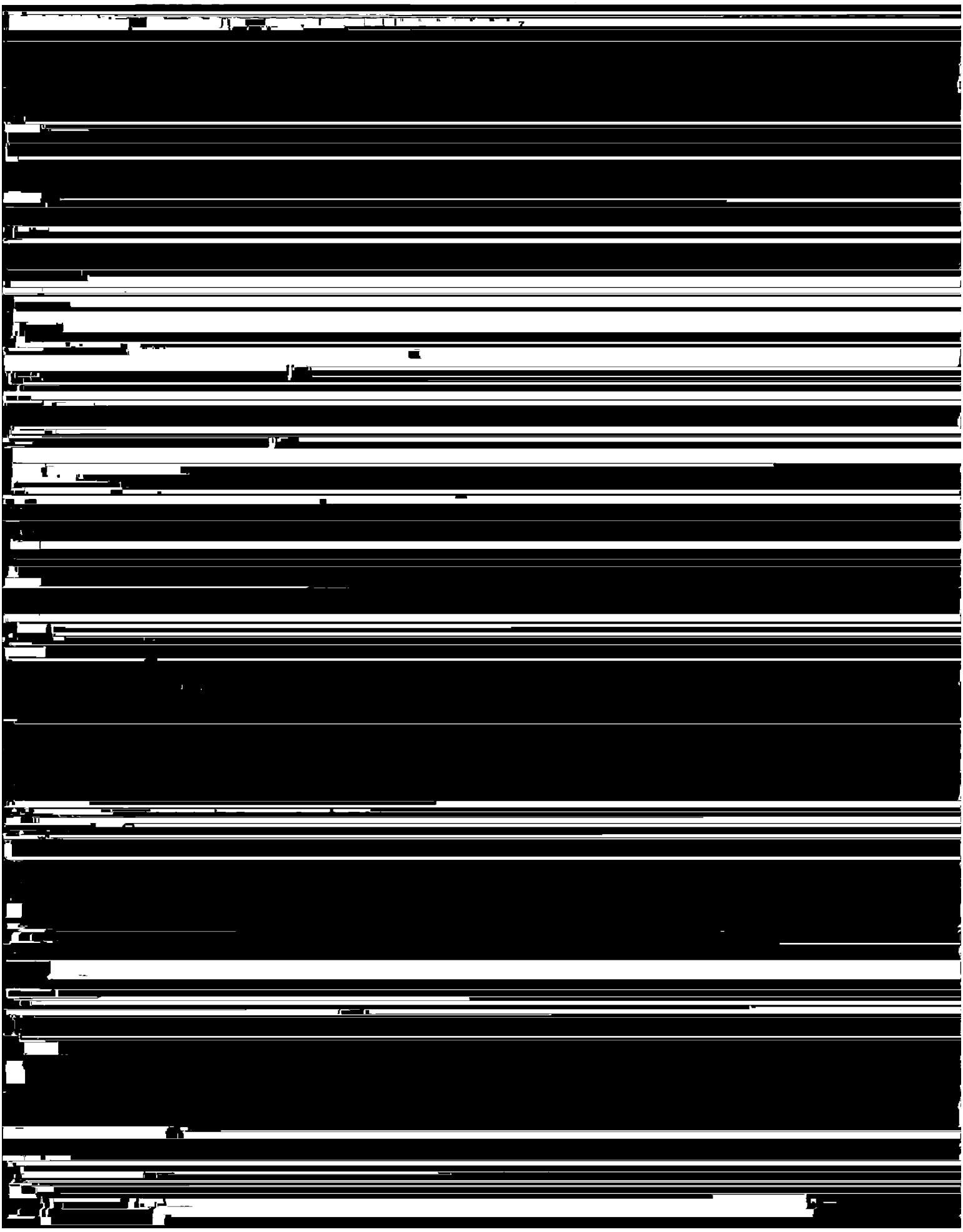
- [X] TO BE CHARTED
- [ ] TO BE REVISED
- [ ] TO BE DELETED

REPORTING UNIT (Field Party, Ship or Office): Photogrammetry, P.M.C., Seattle, WA.
STATE: California
LOCALITY: Monterey Bay, Monterey Harbor
DATE: Sept.1980

The following objects HAVE [X] HAVE NOT [ ] been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.: DA-5-1-79
JOB NUMBER: CM-7802
SURVEY NUMBER: TP-00443
DATUM: North American 1927

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION LATITUDE ° ′	LATITUDE ″ D.M. Meters	POSITION LONGITUDE ° ′	LONGITUDE ″ D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	FIELD	CHARTS AFFECTED
RADIO TOWER	(Monterey Radio Station KMBY Mast, 1962)	36° 36′	56.789 1750.5	121° 53′	54.678 1358.7	78B (P) 2367 April 8, 1978	V-Vis. Aug. 24, 1979	18685
MONUMENT	(Monterey Presidio Monument, 1932)	36° 36′	24.782 763.9	121° 53′	48.453 1204.2	78B (P) 2366 April 8, 1978	V-Vis. Aug. 24, 1979	18685
AERO	Rotating W & G	36° 35′	15.02 463	121° 51′	07.40 184	78B (P) 2364 April 8, 1978	V-Vis. Aug. 24, 1979	18685



NOAA FORM 76-40
(8-74)

Replaces C&GS Form 567.

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

~~NON-FLOATING AIDS OR~~ LANDMARKS FOR CHARTS

ORIGINATING ACTIVITY
- [ ] HYDROGRAPHIC PARTY
- [ ] GEODETIC PARTY
- [ ] PHOTO FIELD PARTY
- [X] COMPILATION ACTIVITY
- [ ] FINAL REVIEWER
- [ ] QUALITY CONTROL & REVIEW GRP.
- [ ] COAST PILOT BRANCH

(See reverse for responsible personnel)

- [ ] TO BE CHARTED
- [ ] TO BE REVISED
- [X] TO BE DELETED

REPORTING UNIT (Field Party, Ship or Office): Photogrammetry P.M.C., Seattle, WA.

STATE: California

LOCALITY: Monterey Bay Monterey Harbor

DATE: Sept.1980

The following objects HAVE [X] HAVE NOT [ ] been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.: DA-5-1-79

JOB NUMBER: CM-7802

SURVEY NUMBER: TP-00443

DATUM: North American 1927

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION LATITUDE ° ′	LATITUDE // D.M. Meters	POSITION LONGITUDE ° ′	LONGITUDE // D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	FIELD	CHARTS AFFECTED
LARGE BUILDING		36° 37′	16.42 506	121° 54′	56.50 1404	78B (P) 2368 April 8, 1978	Not visible Aug. 24, 1979	18685
STACK	(Monterey, American Can Company, Stack, 1932)	36° 37′	05.210 160.6	121° 54′	10.395 258.2	78B (P) 2367 April 8, 1978	Not visible Aug. 24, 1979	18685

TYPE OF ACTION	
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	

INSTRUCT

OFFICE

1. OFFICE IDENTIFIED AND LOCATED OB
   Enter the number and date (inclu
   day, and year) of the photograph
   identify and locate the object.
   EXAMPLE: 75E(C)6042
   8-12-75

FIELD

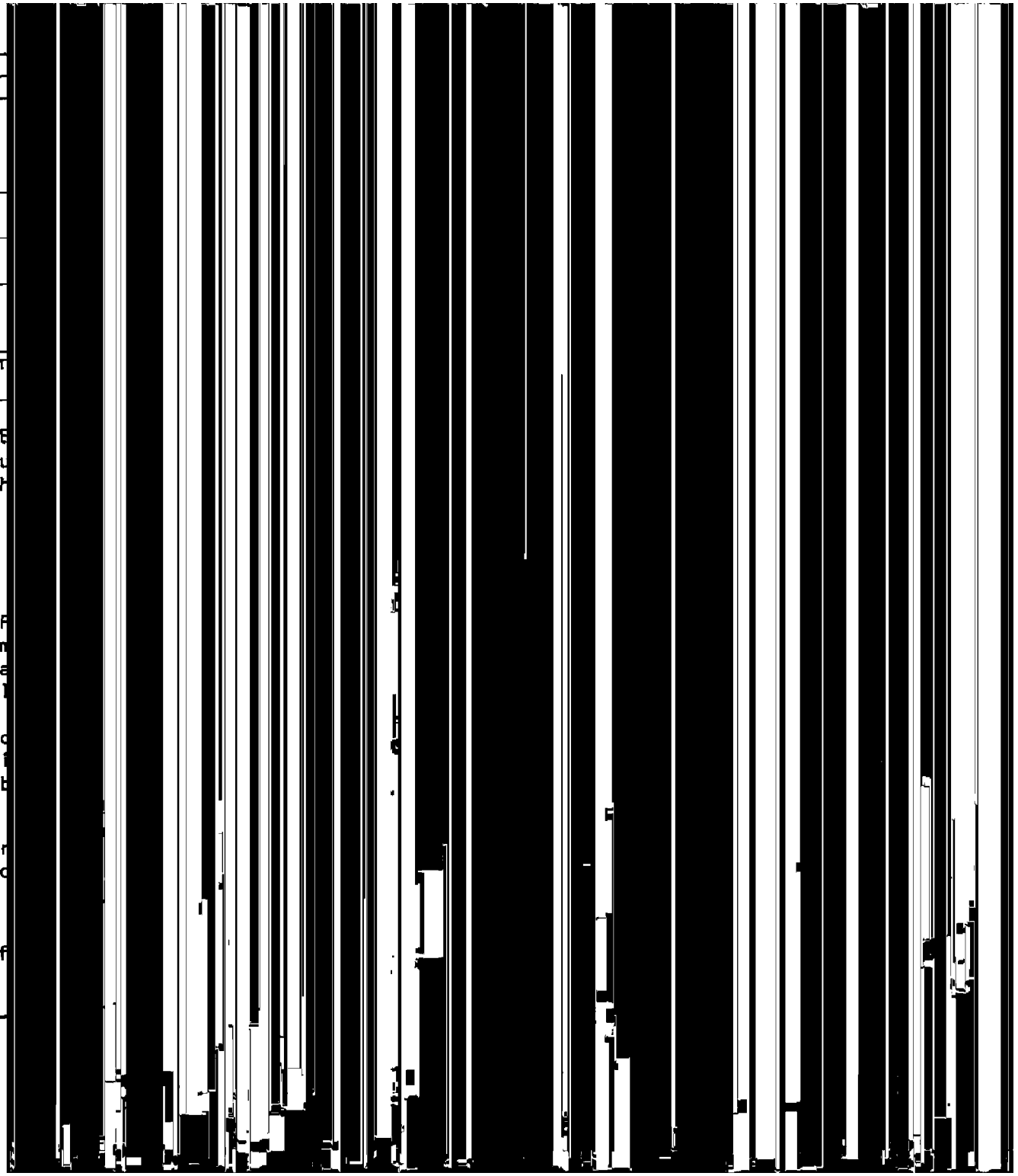
1. NEW POSITION DETERMINED OR VERIF
   Enter the applicable data by sym

F - Field	P - Photogra
L - Located	Vis - Visual
V - Verified	
1 - Triangulation	5 - Field ic
2 - Traverse	6 - Theodoli
3 - Intersection	7 - Planetab
4 - Resection	8 - Sextant

   A. Field positions* require entr
      location and date of field wo
      EXAMPLE: F-2-6-L
      8-12-75

*FIELD POSITIONS are determined by f
vations based entirely upon ground

NOAA FORM 76-40 (8-74)



RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. TP-00443

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 Re

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
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