TP-00391 ORIGINAL

TP-00391

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey ..... Shoreline .....

Job No. ..... PH-7108 ..... *Map No.* TP-00391 ..

Classification No. Final *Edition No.* 1 .....

Field Edited Map

LOCALITY

State ..... California .....

General Locality ..... San Clemente Island .....

Locality ..... Pyramid Head .....

.....

1971 TO 1974

REGISTRY IN ARCHIVES

DATE .....

☆ U.S. GOVERNMENT PRINTING OFFICE: 1974-762-901

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- 00391

MAP EDITION NO. (1)

MAP CLASS Final

JOB PH- 7108

PHOTOGRAMMETRIC OFFICE
Coastal Mapping Division
Atlantic Marine Center, Norfolk, VA

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	7/16/71	Premarking	3/1/71
Compilation	11/17/71		

II. DATUMS

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

2. VERTICAL: [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 California, ZONE 6

5. SCALE: 1:5,000 — STATE, ZONE

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION METHOD: Analytical	BY	D. O. Norman	8/71
	LANDMARKS AND AIDS BY		
2. CONTROL AND BRIDGE POINTS METHOD: Coradomat	PLOTTED BY	D. Phillips	9/71
	CHECKED BY		
3. STEREOSCOPIC INSTRUMENT COMPILATION INSTRUMENT: Wild B-8 SCALE: 1:7,500	PLANIMETRY BY	L. O. Neterer, Jr.	8/72
	CHECKED BY	A. L. Shands	8/72
	CONTOURS BY	NA	
	CHECKED BY	NA	
4. MANUSCRIPT DELINEATION METHOD: Smooth drafted SCALE: 1:5,000	PLANIMETRY BY	L. O. Neterer, Jr.	8/28/72
	CHECKED BY	C. E. Blood	9/72
	CONTOURS BY	NA	
	CHECKED BY	NA	
	HYDRO SUPPORT DATA BY	L. O. Neterer, Jr.	8/72
	CHECKED BY	C. E. Blood	9/72
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	C. E. Blood	9/72
6. APPLICATION OF FIELD EDIT DATA	BY	D. Butler	2/75
	CHECKED BY	J. Byrd	9/75
7. COMPILATION SECTION REVIEW	BY	J. Byrd	9/75
8. FINAL REVIEW	BY	J. Byrd	9/78
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY	J. Byrd	9/78
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	F. Wright	11/78
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	R. T. Sater	12/78

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-00391

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S): Wild RC-8 "L"

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

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

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

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
**71L(C) 1820 thru 1822	3/06/71	11:22	1:15,000	0.3 ft. below MLLW
***71L(C) 1837 and 1838	3/06/71	11:48	1:15,000	0.7 ft. below MLLW
71L(I) 2091 and 2092	3/07/71	11:32	1:15,000	0.4 ft. below MLLW
71L(I) 2122 and 2123	3/07/71	11:52	1:15,000	0.7 ft. below MLLW

REMARKS

**Bridge and compilation photos.
***Hydro-support photos.

2. SOURCE OF MEAN HIGH-WATER LINE:

Air Photo Compilation
Date of Photography: March 6, 1971

3. SOURCE OF MEAN LOWER LOW-WATER LINE:

Tide controlled infrared photography at MLLW.

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-00388 1:10,000	No Survey	No Survey	TP-00390

REMARKS

NOAA FORM 76-36B
(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

TP-00391

HISTORY OF FIELD OPERATIONS

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

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		R. B. Melby	2/71
2. HORIZONTAL CONTROL	RECOVERED BY	L. L. Riggers	2/71
	ESTABLISHED BY	None	
	PRE-MARKED OR IDENTIFIED BY	L. L. Riggers	2/71
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 [X] 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

PHOTO NUMBER	STATION NAME
71L(C)1733	PYRAMID POINT, 1933

2. VERTICAL CONTROL IDENTIFIED

NA

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)*

NOAA FORM 76-36C
(3-72)

★U. S. GOVERNMENT PRINTING OFFICE: 1973--768074/1057 REGION NO. 6

NOAA FORM 76-36C
(3-72)

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

TP-00391

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION ☒ FIELD EDIT OPERATION

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		K. Jeffers	9-10/74
2. HORIZONTAL CONTROL	RECOVERED BY	G. Stroble	9/74
	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	G. Stroble	9/74
	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	G. Stroble	9/74
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)*

71L(C)1821

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 Ozalid and Field Edit Report
1 Form 76-40

★U. S. GOVERNMENT PRINTING OFFICE: 1973--768074/1057 REGION NO. 6

NOAA FORM 76-36D
(3-72)

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

TP-00391

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.	8/72	Class III Manuscript Superseded	9/08/72	9/06/72
Field edit applied. Compilation complete.	2/14/75	Class I Manuscript	3/06/75	
Comp. Section Review	9/75	Class I Manuscript	9/30/75	
Final Review	9/78	Final	9/15/78	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1		3/03/75	Aid for charts.
1			Landmark for charts.

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

III. FEDERAL RECORDS CENTER DATA

1. [X] BRIDGING PHOTOGRAPHS; [X] DUPLICATE BRIDGING REPORT; [X] COMPUTER READOUTS.
2. [X] CONTROL STATION IDENTIFICATION CARDS; [X] FORM NOS 567 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:

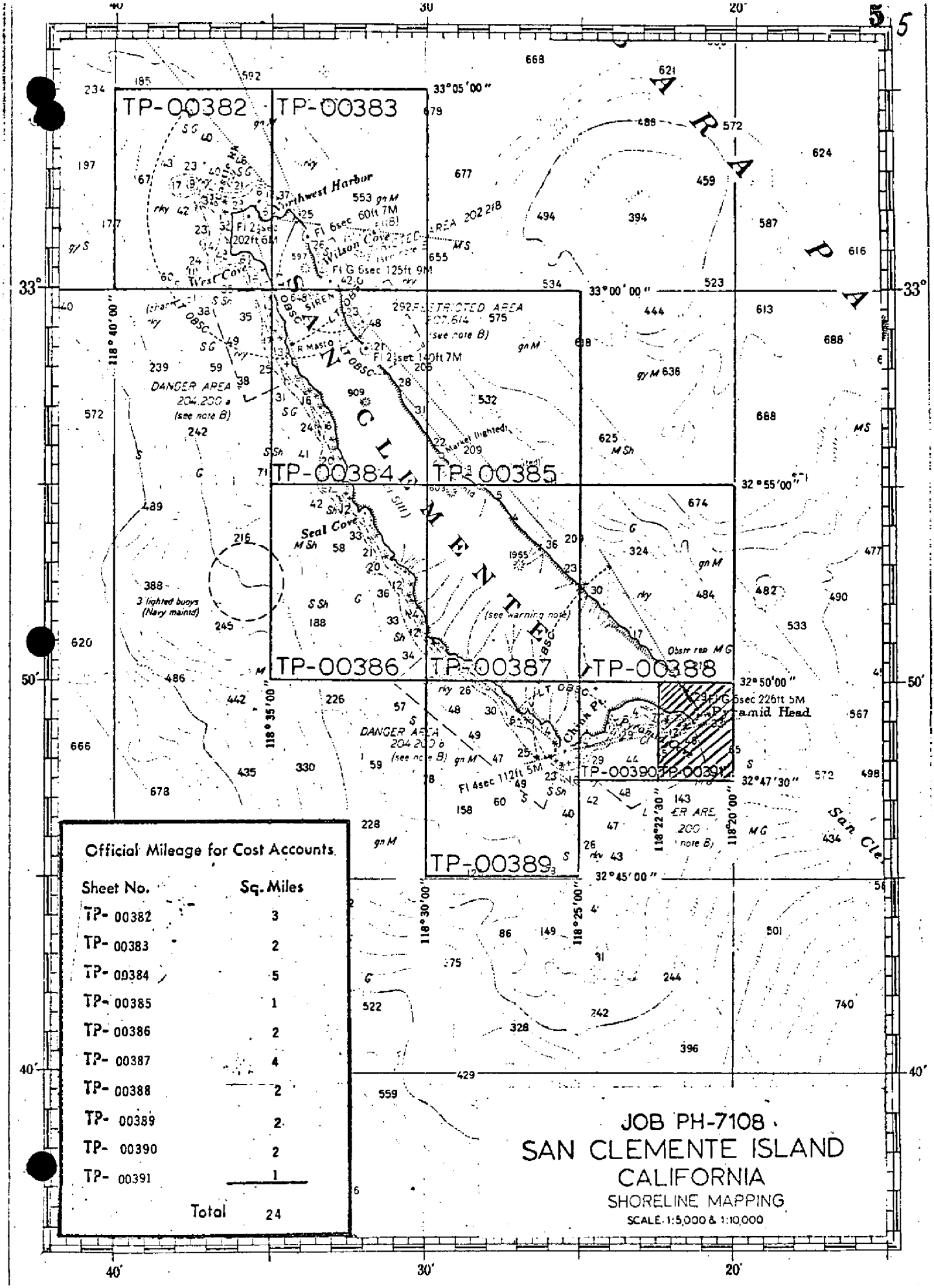
4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

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

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

NOAA FORM 76-36D

☆U. S. GOVERNMENT PRINTING OFFICE: 1973--778075/1077 REGION NO. 6



Official Mileage for Cost Accounts.

Sheet No.	Sq. Miles
TP- 00382	3
TP- 00383	2
TP- 00384	5
TP- 00385	1
TP- 00386	2
TP- 00387	4
TP- 00388	2
TP- 00389	2
TP- 00390	2
TP- 00391	1
Total	24

JOB PH-7108
SAN CLEMENTE ISLAND
CALIFORNIA
SHORELINE MAPPING
SCALE 1:5,000 & 1:10,000

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORTS

TP-00382 thru TP-00391

Project PH-7108 covers the entire shoreline of San Clemente Island, CA.

There were ten maps assigned in this project, TP-00382 thru TP-00389 at 1:10,000 scale and TP-00390 and TP-00391 at 1:5,000 scale. The purpose of these maps is to provide contemporary shoreline data in support of hydrographic operations conducted in the area from 1972 to 1975.

Field work prior to compilation consisted of paneling horizontal control stations in advance of the aerial photography and the installation and observance of a tide staff to coordinate black and white infrared aerial photography with MLLW.

Maps TP-00382 thru TP-00385 were compiled by the Rockville office on a "crash basis" in August 1971. Maps TP-00386 thru TP-00391 were compiled at AMC in July and August of 1972.

Color photography at 1:30,000 scale flown in March 1971, was used in the bridging and compilation of the 1:10,000 scale maps. Color photography at 1:15,000 was used for the 1:5,000 scale maps. March, 1971 tide controlled MLLW infrared photography at 1:30,000 was used for shoreline and rock delineation on all 1:10,000 sheets except TP-00382 thru TP-00384 where the 1:20,000 offshore hydro photos were used. 1:15,000 scale tide controlled infrared photos were used for the shoreline and rock delineation of the 1:5,000 scale maps. Offshore color photography at 1:20,000 scale was used for the preparation of hydro support data, for the 1:10,000 maps and 1:15,000 scale for the 1:5,000 maps.

Field edit was accomplished at various times for sheets TP-00382, TP-00383, and TP-00384. Field edit on maps TP-00382 and TP-00383 was accomplished September, 1971, and April, 1973. Field edit on map TP-00384 was accomplished in September, 1971 and the (fall) of 1975.

Field edit for sheets TP-00385-TP-00391 was accomplished October, 1974. The field edit data was applied at AMC at various times between December, 1973 and February 1976.

Final review of TP-00382 thru TP-00391 was done at AMC in July thru September 1978.

The original stabilene base manuscripts (TP-00382 thru TP-00389 at 1:10,000) and (TP-00390, TP-00391 at 1:5,000) were sent to the Rockville office for reproduction of registration copies.

FIELD INSPECTION

TP-00391

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.

Field Report
Project PH-7108
San Clemente Island, California
Shoreline Mapping
February - March 1971

The field work consisted of premarking selected 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 panels are in open areas and shadows or overhanging bluffs should not be encountered on the photography. Panel array No. 1 was used exclusively, although in some instances the rays have been altered to conform with existing terrain.

Tide Observations:

At Wilson Cove, San Clemente Island, a tide staff was secured to the existing pier and tied to the three existing tidal bench marks, by spirit leveling. One new bench mark was established.

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 0.1 foot and relayed to the air photo mission plane by radio during the times of photography. The field observations are recorded in Form 258, "Leveling Record - Tide Station".

Notes to the Hydrographer:

San Clemente Island is a U. S. Naval Reservation. Portions of the island and adjacent waters are restricted areas including the bombing and gunnery ranges.

Coordination with the U. S. Navy is essential for safety and access to certain beach and alongshore areas. It is quite likely the Navy will insist on an EOD team (demolition team) accompanying any building parties going ashore to construct visual, hydrographic signals.

8

7c

Names and Addresses:
William Specht (technical assistant to Commanding Officer, San Clemente Island, U. S. Navy. Phone (213) 449-7011, Extension 380 - San Clemente Island).

Officer in Charge:
Naval Undersea Research and Development Center
San Clemente Island Facility
3202 E. Foothill Blvd.
Pasadena, California 91107

The EOD team (demolition team) was arranged through:
The Commanding Officer
Naval Weapons Station
Seal Beach, California 90740

The EOD team was under the direction of:
LT Smith
Naval Weapons Station
Seal Beach, California 90740
Phone 596-5511 Ext. 390

One commercial airline, under Navy Contract, flies daily except weekends from the Long Beach, California, airport to the San Clemente Island airport. U. S. Navy approval through the above San Clemente Island command is required to board the aircraft.

Respectfully submitted,

Robt. B. Melby

Robert B. Melby
Chief, PMC Field Party

PHOTOGRAMMETRIC PLOT REPORT
Job PH-7108
San Clemente Island, California
August 1971

21. Area Covered

This report pertains to the entire island of San Clemente off the coast of California. The sheets covered are TP-00382 thru TP-00389 at 1:10,000 scale and TP-00390 and TP-00391 at 1:5,000 scale.

22. Method

Two strips of 1:30,000 scale photography (71-L-1733 thru 1746 and 71-L-1752 thru 1760) and two strips of 1:15,000 scale photography (71-L-1819 thru 1822 and 71-L-1846 thru 1850) were bridged by analytic aerotriangulation methods. Tie points were transferred from the 1:30,000 scale photography to the 1:15,000 scale photography and were used to control the 1:15,000 scale photography. Points were also established to determine the ratios of various offshore color and infrared photography. See Aerotriangulation Sketch, Ratio Photography. All strips were adjusted to California state plane coordinates, zone 6.

23. Adequacy of Control

The control was adequate.

24. Supplemental Data

USGS topographic quadrangles were used to obtain vertical control for the strips.

25. Photography

The photography was adequate.

Respectively submitted:

Don O. Norman

Don O. Norman

Approved and Forwarded:

Henry P. Eichert, Chief
Aerotriangulation Section

Fit to Control

(X, Y in feet)

STRIP 1

▲ BLACK POINT 2, 1933 (+0.5, +0.1)
▲ GREEN, 1862 (-0.5, -0.4)
▲ BUMP, 1947 (+0.7, +0.4)
▲ CHINA POINT SOUTH BASE, 1947 (-0.3, -0.1)

STRIP 2

▲ 34801 (-0.1, -0.1)
△ 34802 (+1.2, +0.1)
△ 34803 (+0.6, +0.7)
▲ 36801 (-1.5, -0.3)
△ 36802 (+0.2, +0.1)
△ 36803 (-1.2, -1.2)
▲ GREEN, 1862 (-0.1, -0.1)
△ 40801 (+1.0, +0.9)
△ 40802 (-1.1, +1.4)
△ 40803 (+1.1, +1.2)
▲ BLACK POINT 2, 1933 (+0.2, +0.1)
▲ SAN CLEMENTE ISLAND N.B., 1860 (-0.5, -0.2)
▲ NORTH HEAD, 1860 (+0.3, +0.2)

STRIP 3

▲ CHINA POINT SOUTH BASE, 1947 (0.0, 0.0)
△ 760801 (-4.6, -1.4)
△ 760802 (-1.5, -1.0)
△ 760803 (-0.5, -0.5)
△ 760804 (+1.0, -0.4)
△ 734320 (-0.9, +1.1)
△ 759320 (-0.9, +1.6)
▲ 34801 (0.0, 0.0)
▲ 734804 (0.0, 0.0)
△ 734805 (+4.9, -5.3)
△ 734806 (-3.1, +2.3)
△ 734807 (+1.1, -0.1)

8C 12

STRIP 4

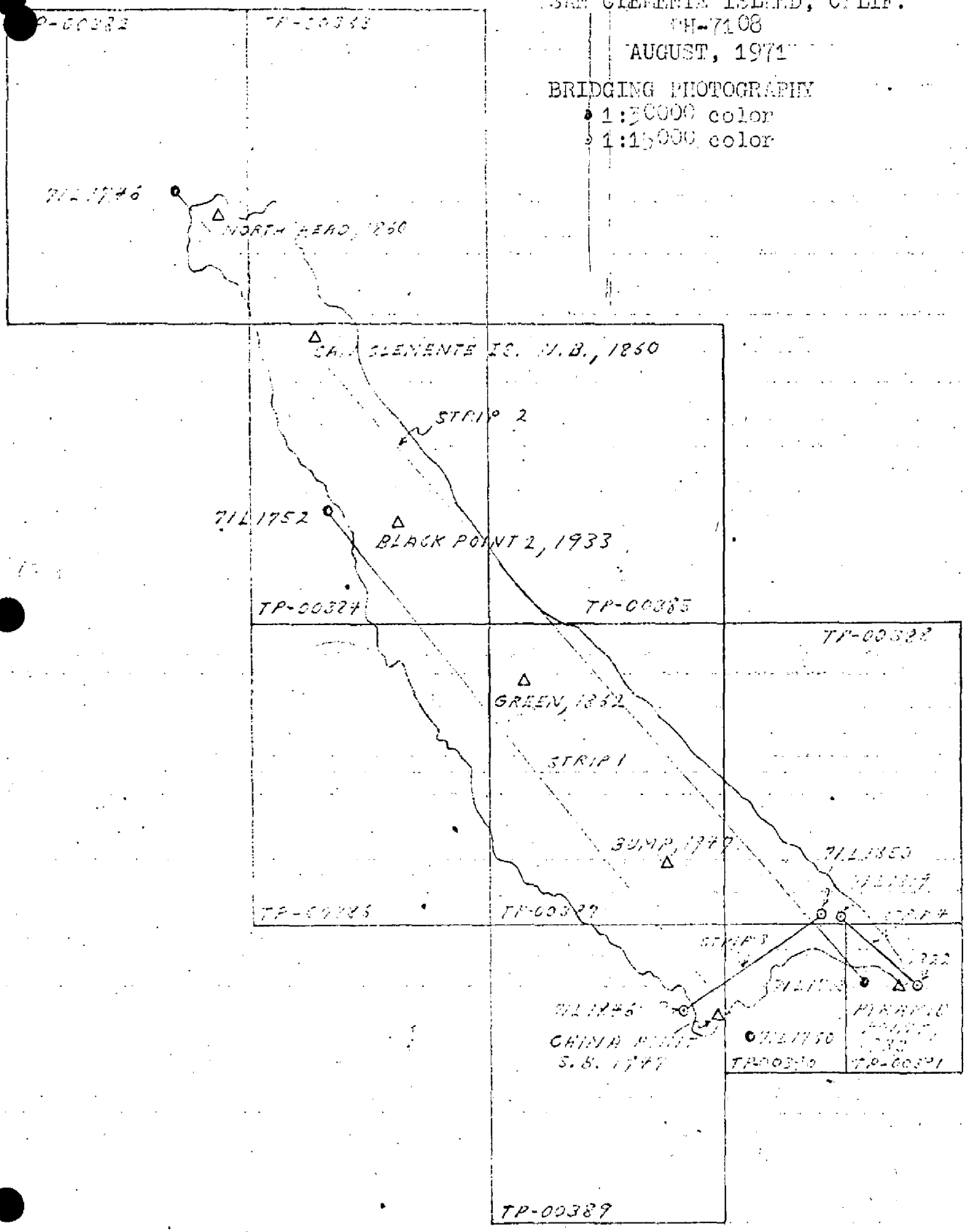
△ 819801 (-0.9, +0.7)
▲ 819802 (0.0, 0.0)
△ 733310 (+1.2, +5.0)
△ 733311 (+0.8, +1.4)
▲ 820801 (0.0, 0.0)
△ 820802 (-2.0, -0.8)
▲ PYRMID POINT, 1933 (0.0, 0.0)

▲ Horizontal points used as control
△ Horizontal points used as checks

8d 13

AEROTRIANGULATION SKETCH
SAN CLEMENTE ISLAND, CALIF.
PH-7108
AUGUST, 1971

BRIDGING PHOTOGRAPHY
1:30000 color
1:15000 color



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-00391	PH-7108	NA 1927	Coastal Mapping Division, AMC, Norfolk, Virginia

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
PYRAMID POINT, 1933	Quad 321181 P. 1036		x=	φ 32 48 58.217	1793.3	(55.0)
			y=	λ 118 21 15.443	401.7	(1159.1)
PYRAMID POINT LIGHT, 1933	Quad 321181 P. 1060		x=	φ 32 49 13.57	418.0	(1430.3)
			y=	λ 118 21 08.93	232.3	(1328.5)
WHITEWASHED ROCK USN ON BALANCED ROCK, 1933	Quad 321181 P. 1036		x=	φ 32 48 58.319	1796.5	(51.8)
			y=	λ 118 21 15.058	391.7	(1169.25)
			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
J. Bulfer	10/04/71	L. O. Neterer, Jr.	10/04/71
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-00391

31. DELINEATION:

Delineation was by the Wild B-8 stereoplotter with the 1:15,000 scale color photography.

Pass points were selected on both the color and the infrared 1:15,000 scale photography. Only the color were processed for hydro-support and only their centers were located. The infrared photography was used for low water line location.

32. CONTROL:

See Photogrammetric Plot Report dated August 1971.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

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

35. SHORELINE AND ALONGSHORE DETAILS:

The mean high water line and alongshore details were delineated from office interpretation of the plotographs.

The low water line was compiled from tide controlled infrared photography.

36. OFFSHORE DETAILS:

Kelp limits were compiled from office interpretation of the photographs.

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:

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 Quadrangle: SAN CLEMENTE ISLAND SOUTH, CALIFORNIA, scale 1:24,000, dated 1943.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with the following National Ocean Survey Chart: Chart 5111, scale 1:40,000, 7th edition, dated March 6, 1971.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Lowell O. Neterer

Lowell O. Neterer, Jr.
Cartographic Technician
August 29, 1972

Approved for forwarding:

Albert C. Rauck Jr.

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

July 11, 1978

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-7108 (San Clemente Island, California)

TP-00391

Balanced Rock

Outer Santa Barbara Passage

Pacific Ocean

Pyramid Head

San Clemente Rock

Approved by:

Charles E. Harrington, C3x8
Chief Geographer

NOAA FORM 75-74
(7-75)

U.S. DEPARTMENT OF COMMERCE
NOAA
NATIONAL OCEAN SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

TP - 00391

1. PROJECTION AND GRIDS	2. TITLE	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
CEB	CEB	CEB	CEB

CONTROL STATIONS

5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY *(Topographic stations)*	7. PHOTO HYDRO STATIONS
CEB	NA	NA

8. BENCH MARKS	9. PLOTTING OF SEXTANT FIXES	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
NA	JLB	CEB	CEB

ALONGSHORE AREAS *(Nautical Chart Data)*

12. SHORELINE	13. LOW-WATER LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
CEB	CEB	CEB	CEB

16. AIDS TO NAVIGATION	17. LANDMARKS	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
CEB	CEB	CEB	CEB

PHYSICAL FEATURES

20. WATER FEATURES	21. NATURAL GROUND COVER	22. PLANETABLE CONTOURS
CEB	NA	NA

23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
NA	NA	NA	CEB

CULTURAL FEATURES

27. ROADS	28. BUILDINGS	29. RAILROADS	30. OTHER CULTURAL FEATURES
CEB	NA	NA	CEB

BOUNDARIES

31. BOUNDARY LINES	32. PUBLIC LAND LINES
NA	NA

MISCELLANEOUS

33. GEOGRAPHIC NAMES	34. JUNCTIONS	35. LEGIBILITY OF THE MANUSCRIPT
CEB	CEB	CEB

36. DISCREPANCY OVERLAY	37. DESCRIPTIVE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
CEB	CEB	CEB	CEB

40. REVIEWER		SUPERVISOR, REVIEW SECTION OR UNIT
Charles Blood Charles E. Blood	9/72	Albert C. Rauck, Jr. Albert C. Rauck, Jr.

41. REMARKS *(See attached sheet)*

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

COMPILER		SUPERVISOR
David P. Butler David P. Butler	2/75	Albert C. Rauck, Jr. Albert C. Rauck, Jr.
Reviewer Jim Byrd Jim Byrd	9/75	

43. REMARKS

Refer to Form 76-36C, Item 8.

FIELD EDIT REPORT

OPR-411-RA-1974

SAN CLEMENTE ISLAND, CALIFORNIA

TP-00385 thru TP-00391

NOAA SHIP RAINIER

CDR K. William Jeffers

Commanding

INTRODUCTION

Field edit was carried out by NOAA SHIP RAINIER Personnel on September 17,18,28, & 29, and October 1,16,&17, 1974. Work was carried out on shore and in the water by an 18' boston whaler.

Field edit was started at Pyramid Head and continued up the east side of San Clemente Island to Latitude 32°56'15"N, to junction with TP-00384, which was field edited by the Rainier in 1971 and 1973. Pyramid Cove and the west side of the island were field edited north to Latitude 32°55'00"N to junction with TP-00384.

Photographs used in the field edit are from job PH-7108, 1971. Height data on ledges and detached rocks is estimated. All times are referenced to 0° Longitude.

ADEQUACY OF COMPILATION

All rocks and offshore features are labeled on the field edit ozalids, and whereever possible, verified on the field photos. Compilation of the Mean High Water line was accurate on the shoreline manuscripts.

SHORELINE SUMMARIES

TP-00385, TP-00387(northern part), TP-00388:

This group of manuscripts covers the east side of San

Clemente Island. Very few detached rocks exist along this shore, none being hazards to navigation. The kelp limit, on an average, extends from 75 to 100 meters offshore. No surf zone exists on this side of the island, and under calm weather conditions, a small boat can be landed anywhere. In most areas, the MHWL is at the base of the bluff.

TP-00390 and TP-00391

This area includes two 1:5,000 scale manuscripts of Pyramid Cove. The surf is moderate to high, with the kelp limit extending 500-600 meters in places. Many dangerous detached rocks exist offshore, especially on TP-00391. The shore is mostly rock ledges except for Pyramid Cove proper which is a clean, sandy beach.

TP-00386, TP-00387(southern part), TP-00389

This area includes the southwestern part of San Clemente Island. The shore from 400-500 meters is very foul with numerous detached rocks and heavy kelp.

AIDS TO NAVIGATION

The White-washed Rock charted on C&GS Chart 5111, on the tip of Pyramid Head should be charted as a Balanced Rock. The White-wash characteristics are no longer outstanding. The two Navy maintained lighted markers on the east side of the Island are no longer maintained. The southern of the two is down and the

northern one is about to go down. The Naval authorities on the Island informed the our field party that these would no longer be maintained. The two 5 ft. square "concrete structures" on the southeast side of the island should be charted as such.

The Chart letters and NOAA forms 76-40 included are self-explanatory. The forms and letters were prepared as per sections 7.6 and 7.8, respectively, of the Coast Pilot Manual, ED. 3, 1969.

Garth Stroble
LTJG, NOAA

orig. to charts
2/28/75

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)	STATE	LOCALITY	DATE
Coastal Mapping Div. AMC-Norfolk,Va.	California	San Clemente Island	Feb.1975

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
411	Ph-7108	TP-00391	N.A.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	Pyramid Head Light,White Pyramidal Structure (Pyramid Point Light,1933)	32-49	13.57 418.0	118-21	08.93 232.3	71L(C)1733 Mar.6,1971	Triang.Rec. Sept.1974	5111 5117

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orig. to charts
2/28/75

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
- [Y] 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): Coastal Mapping Div. AMC-Norfolk, Va.

STATE: California

LOCALITY: San Clemente Island

DATE: Feb.1975

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

OPR PROJECT NO.: 411

JOB NUMBER: Ph-7108

SURVEY NUMBER: TP-00391

DATUM: N.A.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
BALANCED ROCK	Formerly known as (Whitewashed Rock-USN on Balanced Rock,1933)	32-48	58.319 1796.5	118-21	15.058 391.7	71L(C)1733 Mar.6,1971	Triang. Rec. Sept.1974	5111 5117

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REVIEW REPORT
TP-00391

SHORELINE

September 8, 1978

61. GENERAL STATEMENT:

See Summary which is pages 6a and 6b of this Descriptive Report.

This map was compiled in the Norfolk office.

Six rocks were shown on the Class I manuscript at 1) Lat. 32 49' long. 118 22.25' 2) lat. 32 49.1' long. 118 22.1' 3) lat. 32 49.1' long 118 22.05' 4) lat. 32 49.2' long. 118 22' 5) lat. 32 49.2' long. 118 21.8' lat. 32 48.9' long. 118 21.6'. These rocks were plotted from an overlay derived by computerized tape printouts supplied by the field editor, but they differed from their respective positions shown on the field edit ozalid. They were removed from this map by Final Review to avoid conflicts with Hydro, since they could not be seen on photography.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Not applicable.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with H-9377 (RA-20-2-73) and smooth boat sheet (RA-5-3A-74).

(RA-5-3A-74) shows six rocks west of PYRAMID HEAD not shown on this map. These same six rocks were shown at respectively different positions on the Class I manuscript, but were removed during final review. (See Item 61 this Review Report).

H-9377 shows a rock at lat. 32 49.25' long. 118 20.8'. It could not be seen on photography and the field editor did not submit any data on it, therefore, it was not shown on this map.

Boat sheet (RA-5-3A-74) shows three rocks at approx. lat. 32 49.25' long. 118 22.3' inshore of the Class I map respective positions. The field editors identification was very clear on photo 71L(C) 1821.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Chart 18762, 1:40,000 scale 10th edition, dated April 9, 1977 and Chart 18764, 1:15,000 scale 5th edition, dated July 23, 1977.

Chart 18764 shows the following rocks not shown on this map since they could not be seen on the photos and no field edit data was submitted on them: 1) two rocks at lat. 32 49.2' long. 118 22.3' 2) three submerged and two rocks awash NE of Balanced Rock.

Chart 18764 shows a rock at lat. 32 49.6' long. 118 21.4'. This rock was shown on the Class III manuscript but was removed from the Class I map since the field editor stated no rock could be found.

Chart 18764 shows six rocks west of PYRAMID HEAD which were shown on the Class I map but were removed at final review. They were not shown on this map. (See Item 61 and 64 this Review Report).

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:

J. L. Byrd

J. L. Byrd
Final Reviewer

Approved for forwarding:

Arnold L. Shand

Acting
Chief, Photogrammetric Branch, AMC

Approved:

John D. Perrow Jr

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division

National Archives Data

for

Project PH-7108
San Clemente Island, Calif.

Discrepancy prints for maps TP-00382 thru TP-00391

Bridging data

Bridging photos: 71L 1733-1746 Prints, 71L 1752-1760 Prints
71L 1819-1822 Prints and Film positives
71L 1846-1850 Prints and Film pos.

Field edit ratios: 71L 1932, 1934, 1936, 1938, 1940, 71L C 1857, 1859-1864, 1867-1875
71L 1876-1879, 1882-1886, 71L 1821, 71L 1839, 1841, 1842, Matte 71L 1798R

Field records: Seven forms 152, four field edit reports, one field spection report, 1 form 258

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. TP-00391

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
18764	2-15-79	Greg Norris	Full ~~Part Before~~ After Verification Review Inspection Signed Via
[redacted]			Drawing No. 10
18762	7-10-79	D.C. Larson	Full ~~Part Before~~ After Verification Review Inspection Signed Via
			Drawing No. [redacted] 16 /RCS
18740	8/30/79	Hamilton	Full ~~Part Before~~ After Verification Review Inspection Signed Via
			Drawing No. 45
			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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