

TP-00211

TP-00211

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-6607 Map No. TP-00211

Classification No. Final Edition No. ... 1

Field Edited Map

LOCALITY

State Oregon

General Locality Umpqua River

Locality Reedsport

19 71 TO 1971

REGISTRY IN ARCHIVES

DATE

TYPE OF SURVEY

SURVEY TP-00211

DESCRIPTIVE REPORT - DATA RECORD

☒ ORIGINAL

MAP EDITION NO. (1)

☐ RESURVEY

MAP CLASS Final

☐ REVISED

JOB PH-6607

PHOTOGRAMMETRIC OFFICE

Rockville, Maryland

OFFICER-IN-CHARGE

Jack Guth

LAST PRECEDING MAP EDITION

TYPE OF SURVEY

JOB PH-

☐ ORIGINAL

MAP CLASS

☐ RESURVEY

SURVEY DATES:

☐ REVISED

19 TO 19

I. INSTRUCTIONS DATED

1. OFFICE

Aerotriangulation, Aug. 11, 1971
Compilation, Sept. 10, 1971

2. FIELD

Field Support, May 7, 1971

II. DATUMS

1. HORIZONTAL:

☒ 1927 NORTH AMERICAN

OTHER (Specify)

2. VERTICAL:

☒ MEAN HIGH-WATER
☐ MEAN LOW-WATER
☐ MEAN LOWER LOW-WATER
☐ MEAN SEA LEVEL

OTHER (Specify)

3. MAP PROJECTION

Polyconic

4. GRID(S)

STATE

ZONE

Oregon

South

5. SCALE

1:10,000

STATE

ZONE

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION METHOD: Analytic	BY LANDMARKS AND AIDS BY	D. Brant	9/71
2. CONTROL AND BRIDGE POINTS METHOD: Coradi	PLOTTED BY CHECKED BY	D. Phillips	9/71
3. STEREOSCOPIC INSTRUMENT COMPILATION INSTRUMENT: B-8 SCALE: 1:10,000	PLANIMETRY BY CHECKED BY CONTOURS BY CHECKED BY	P. Dempsey J.P. Battley, Jr. N.A.	9/71 9/71
4. MANUSCRIPT DELINEATION METHOD: SCALE: 1:10,000	PLANIMETRY BY CHECKED BY CONTOURS BY CHECKED BY HYDRO SUPPORT DATA BY CHECKED BY	P. Dempsey J.P. Battley, Jr. N.A. P. Dempsey J.P. Battley, Jr.	9/71 9/71
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	J.P. Battley, Jr.	9/71
6. APPLICATION OF FIELD EDIT DATA	BY CHECKED BY	H. Lucas None	1972
7. COMPILATION SECTION REVIEW	BY	None	
8. FINAL REVIEW	BY	F.A. Wright	8/75
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY	N.A.	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	F.A. Wright	8/75
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	R.T. CATR	12/76

COMPILATION SOURCES

TP-00211

1. COMPILATION PHOTOGRAPHY

CAMERA(S) E 6" focal length		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (I) INFRARED		TIME REFERENCE	
TIDE STAGE REFERENCE <input type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				ZONE Pacific MERIDIAN 120	<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
71E(C)6947-6950	7/25/71	0945	1:40,000	N.A.	
71E(C)6977-6981	7/25/71	1015	1:40,000	N.A.	
71E(C)6858-6873	7/24/71	0900	1:20,000	N.A.	
71E(C)7779-7783	9/3/71	0630	1:20,000	N.A.	

REMARKS

1:20,000 scale ratioed to 1:10,000 manuscript scale.

2. SOURCE OF MEAN HIGH-WATER LINE:

Office interpretation from 1:40,000 scale photography on B-8 and checked with 1:10,000 scale ratioed photographs.

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

None

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 TP-00210	EAST TP-00213	SOUTH No contem- porary Survey	WEST TP-00209
REMARKS			

3

TP-00211

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	Unknown *	1971
2. HORIZONTAL CONTROL	RECOVERED BY	
	ESTABLISHED BY	
	PRE-MARKED OR IDENTIFIED BY	
3. VERTICAL CONTROL	RECOVERED BY	
	ESTABLISHED BY	
	PRE-MARKED OR IDENTIFIED BY	Unknown
		1971
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY	
	LOCATED (Field Methods) BY	
	IDENTIFIED BY	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
* Any data submitted by Field Party was lost.			

3. PHOTO NUMBERS (Clarification of details)

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☐ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☐ NONE

7. SUPPLEMENTAL MAPS AND PLANS

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

(4)

TP-00211

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION.

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R.P. Hewitt LTJG	11/71
2. HORIZONTAL CONTROL	RECOVERED BY N.A. ESTABLISHED BY N.A. PRE-MARKED OR IDENTIFIED BY N.A.	
3. VERTICAL CONTROL	RECOVERED BY N.A. ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY R.P. Hewitt LOCATED (Field Methods) BY R.P. Hewitt IDENTIFIED BY R.P. Hewitt	11/71 11/71 11/71
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input checked="" type="checkbox"/> SPECIFIC NAMES ONLY BY R.P. Hewitt <input type="checkbox"/> NO INVESTIGATION	11/71
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY R.P. Hewitt	11/71
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N.A. Hewitt	11/71

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED
None2. VERTICAL CONTROL IDENTIFIED
None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

All field edit photos to Federal Records Center

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

See Form 76-40 in this report.

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. 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)

None

TP-00211

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Shoreline and detail inshore a short distance	9/71			Date Unknown
Field Edit Applied	1972	Copy to charts and hydro smooth sheet processing	Date Unknown	
Final Review	Aug. 1975		Oct 1 1975	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
4		Oct 1 1975	None prior to final review

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. ☒ 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:

*None available

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

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

SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

(6)

Summary to Accompany
Descriptive Report TP-00211

TP-00208 through TP-00213 at 1:10,000 scale and TP-00214 through TP-00216 at 1:20,000 scale comprise Project PH-6607, Umpqua to Smith Rivers, Oregon. The purpose of this project is to provide hydro support, new topography, and shoreline for use in constructing Nautical Chart 669-SC. Refer to the project diagram for the location of each sheet in the project.

The only field work preceding compilation was the premarking of control necessary for bridging. See Photogrammetric Plot Report for details.

Compilation and field edit was broken into two phases in this project with sheets 00208 through 00213 being compiled on the Wild B-8 plotter in September and October 1971.

Stable base copies and ratio color prints were furnished for hydro support and field edit. Field edit was accomplished in November 1971 on these sheets.

A copy of this sheet was furnished to charts before any review was made. Refer to review report for particulars.

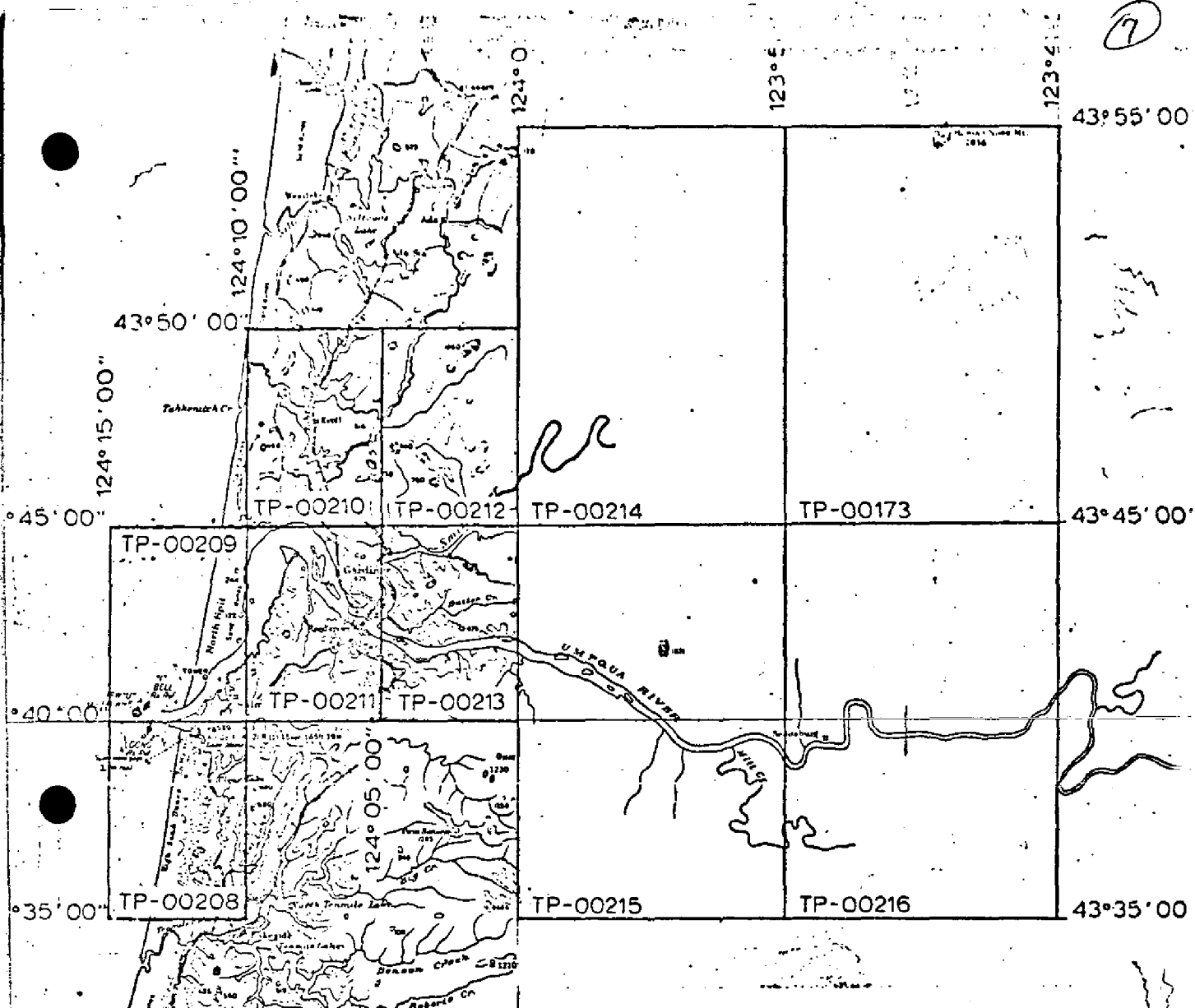
Compilation of TP-00214 through TP-00216 was accomplished on the Wild B-8 plotter in May 1972. Copies of the map manuscripts and ratio color prints were furnished for field edit.

Field edit of these sheets was accomplished in September - October 1972.

Final review was accomplished in the Washington Office in 197⁵.

Copies of the final reviewed map were forwarded for record and registry.

⑦



OFFICIAL MILEAGE
For Cost Accounts

JOB PH-6607
UMPQUA & SMITH RIVERS,
OREGON

Chart Topography
&
Shoreline Mapping
SCALE 1:10,000 & 1:20,000

Sheet No. Sq. Miles

TP-00173	5	Not Compiled
TP-00208	4	
TP-00209	5	
TP-00210	1	
TP-00211	8	
TP-00212	1	
TP-00213	8	
TP-00214	8	
TP-00215	5	
TP-00216	6	

Total 51

8

PHOTOGRAMMETRIC PLOT REPORT
Umpqua and Smith Rivers, Oregon
Job PH-6607
May 1972

21. Area Covered

This report covers the area east from the mouth of the Umpqua and Smith Rivers to longitude $123^{\circ} 40'$. Control was extended for the compilation of six (6) 1:10,000 scale maps (TP-00208 thru TP-00213) for hydro support and four (4) 1:20,000 scale maps (TP-00214 thru TP-00216 and TP-00173) for chart compilation.

22. Method

Strips 1 and 2 (1:40,000 scale photography) and Strip 3 (1:30,000 scale photography) were bridged using analytic aerotriangulation methods. Sketch 1 shows the placement of control and the flight lines of the photography. Ties were made between all strips. Compilation points were located in strips 2 and 3 for the 1:20,000 scale compilation. Common points were located between the bridging photography and the 1:20,000 scale hydro support photography to determine the ratio for the 1:10,000 scale compilation. Sketch 2 shows the flight lines of the hydro support photography.

Natural objects (tanks, stacks, etc.) visible during bridging were located as aids for the hydro support party. All data for ruling projections and plotting of points for the compilation office were furnished to Coradomat on the Oregon State (south zone) Plane Coordinate System.

23. Adequacy of Control

Horizontal control was premarked and was adequate for bridging.

24. Photography

The following RC-8 color photography was used in bridging:

1:40,000 scale

Strip 1 - 71-E(C)-6947 thru 6942

Strip 2 - 71-E(C)-6969 thru 6980

1:30,000 scale

Strip 3 - 71-E(C)-7757 thru 7774

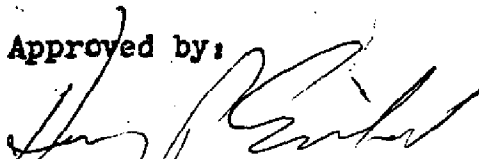
The definition and quality of the photography was good except for some areas obscured by clouds. The clouds did not affect the accuracy of the bridge.

Respectfully by:



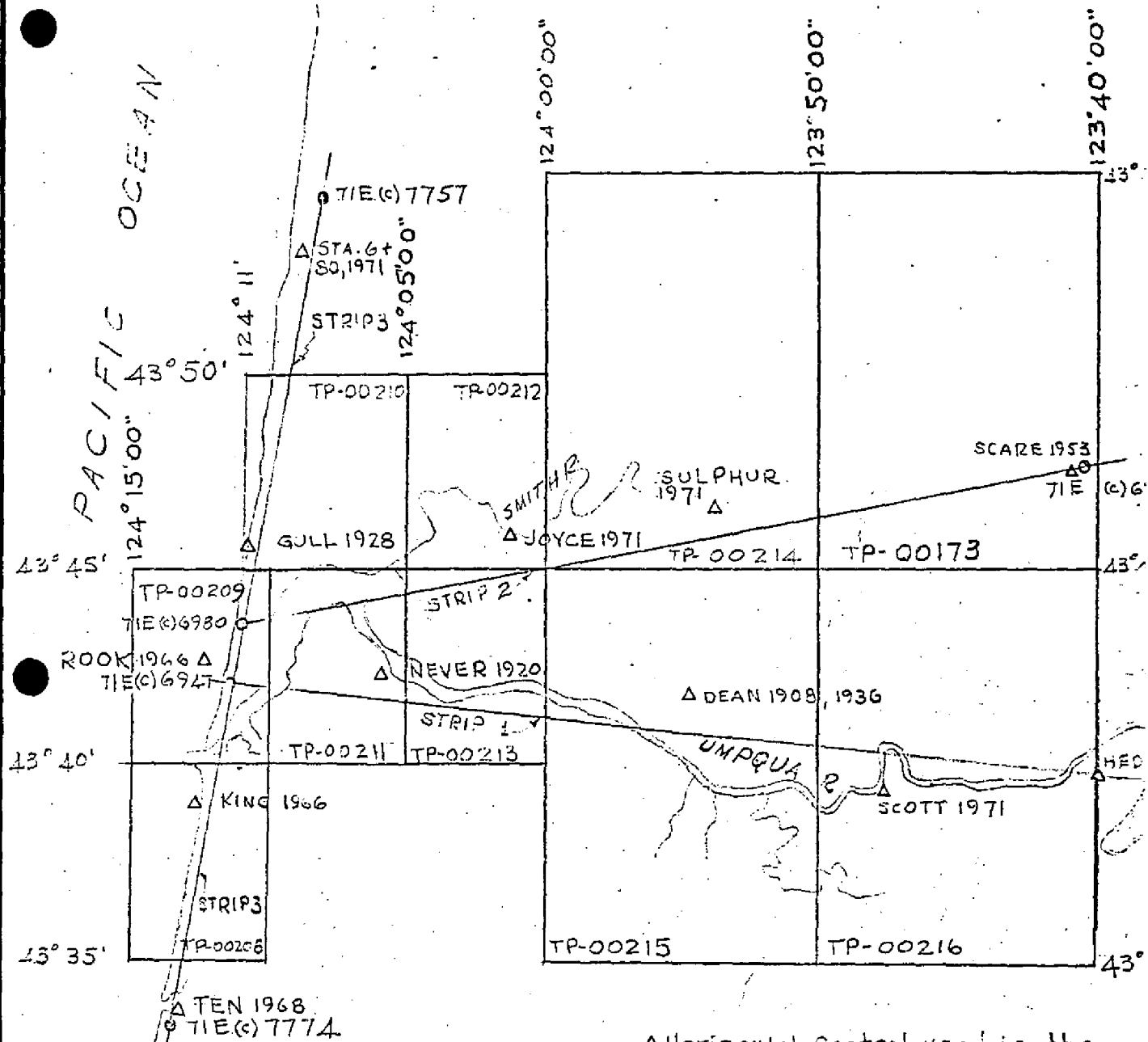
Donald M. Brant
Cartographer

Approved by:



Henry P. Eichert, Chief
Aerotriangulation Section

(10)
Sketch 1

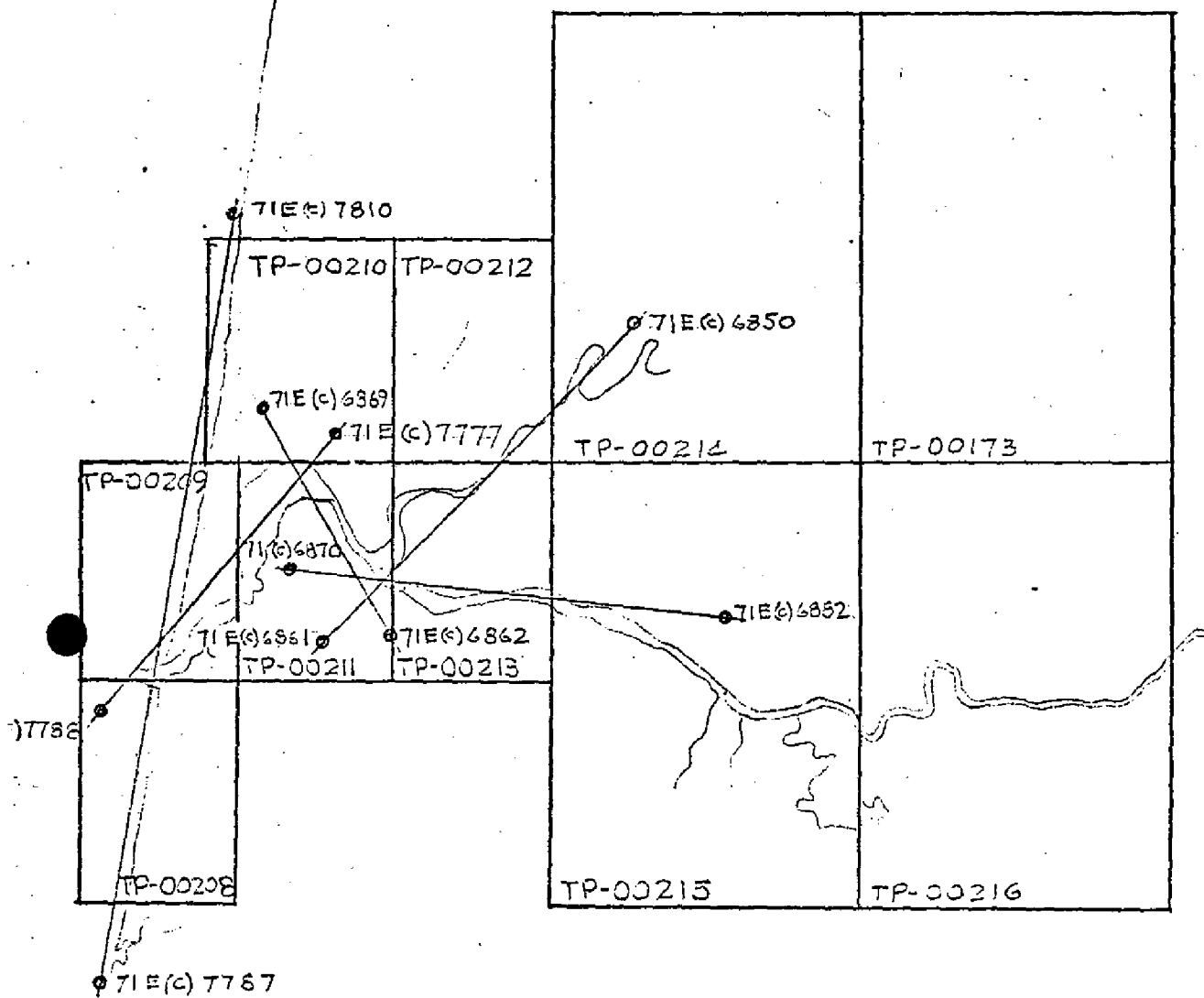


Δ Horizontal Control used in the
adjustment
○ 1:40,000 Photography
● 1:30,000 Photography

JOB PH-6607
UMPQUA & SMITH RIVERS

OREGON
CHART TOPOGRAPHY
AND
SHORELINE MAPPING
SCALE 1:10,000 & 1:20,000

Sketch⁽¹¹⁾ 2



• 1:20,000 HYDRO SUPPORT PHOTOGRAPHY

Compilation Report
TP-00211

31. Delineation

The 1:40,000 scale color photography was set on the B-8 stereoplotter and compiled at 1:10,000 scale. Shoreline and alongshore detail and detail inshore a short distance along with points common with the 1:10,000 color ratioed photographs were plotted for hydro support.

32. Control

Horizontal control was adequate for density and placement. Vertical control was from U.S.G.S. quadrangles and water level.

33. Supplemental Data - None

34. Contours and Drainage

Contours are inapplicable. Drainage is only compiled a short distance from the shoreline.

35. Shoreline and Alongshore Detail

Shoreline was compiled on B-8 by office interpretation. Piles and dolphins that are used for log booms could not be seen and will be located by field edit.

Shoal line will have to be determined by field edit.

There was no field inspection for this project.

36. Offshore Details - None compiled

37. Landmarks and Aids

Thirteen aids to navigation were located by photographs and bridge control. Three landmarks were located by photographs and one will have to be located by the hydro party.

38. Control for Future Surveys - None

39. Junctions

Refer to form 76-36b of this report.

40. Horizontal and Vertical Accuracy

See Photogrammetric Plot Report.

41. thru 45. Inapplicable.

46. Comparison with Existing Maps

A comparison was made with U.S.G.S. quadrangle Reedsport, Oregon, scale 1:62,500, dated 1956.

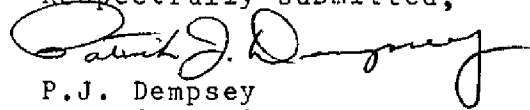
47. Comparison with Nautical Charts

A comparison was made with Nautical Chart No. 6004, scale 1:20,000, 36th edition, dated August 15, 1970.

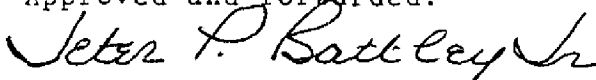
Items to be Applied to Nautical Charts Immediately: None

Items to be Carried Forward: None

Respectfully submitted,


P.J. Dempsey
Carto(Photo)

Approved and forwarded:



J.P. Battley, Jr.

Chief, Coastal Mapping Section

13 August 1975

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6607 (Oregon)

TP-00211

Barretts Landing

Blacks Island

Bolon Island

Cannery Island

East Gardiner

Gardiner

Gardiner Reservoir

Henderson Cove

Hunt Cove

Jerden Cove

Leeds Island

Macey Cove

Providence Creek

Reedsport

Scholfield Creek

Smith River

Southern Pacific Lines

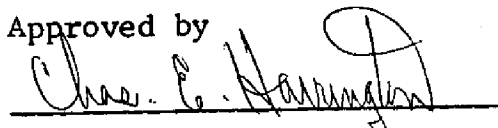
Steamboat Island

The Cutoff

The Point

Umpqua River

Approved by



Chas. E. Harrington
Staff Geographer-C51x2

T-00211 (15)

FIELD EDIT REPORT
UMPQUA RIVER, OREGON
JOB PH 6607

OPR 498 - DAVIDSON
NOVEMBER, 1971

Field edit was accomplished in accordance with OPORDER,
Pacific Marine Center (in conjunction with OPR 498)
and current Photogrammetry Instructions.

Features, obstructions, aids and landmarks were located
by intersection from triangulation stations and by sextant
resections from triangulation, topographic and photo
positions. All changes, deletions and additions to the
manuscript are indexed on the field ozalid (paper) in violet
ink with the exception of green ink for deletions. The
cronaflex print contains all control used for hydrography
and field edit as well as fix positions. Many items have
been photo-identified, so labeled on the appropriate
photograph and indexed on the field ozalid.

The Army Corps of Engineers maintains many dredge signals
and ranges in this area which can be a useful aid to
navigation if charted; these items, where so noted on the
manuscript, should be charted and labeled but not in a
landmark status.

The log rafts shown on photographs are in temporary storage
areas; a storage area being any one of the piling and dolphin
lines delineated on these manuscripts, from Gardiner Inter.
Paper Co. eastward up the Umpqua River and Smith River.

All work may be considered correct as of November 20, 1971.

TP 00211

REEDSPORT

52. ADEQUACY OF COMPILATION

Compilation was only fair even considering that there was no previous field inspection. Four triangulation stations were not plotted: **AT**, GRAHAM, GARDINER INTERNATIONAL PAPER CO. STACK, and THREEMILE DIRECTIONAL LIGHT. U.S. HIGHWAY 101 bridge over the Umpqua River at Reedsport is a swing bridge, as indicated on chart 6004. Two stacks exist at Gardiner International Paper Co., one of them being a triangulation station; this stack is the taller and has been recommended for a landmark. Fourmile Light was mis-identified; see cronaflex print for correct location as determined by theodolite intersection. Channel Daybeacon "22" was not delineated or reported on the compiler-originated 76-40; it has been photo-identified and indexed. Roads and several large buildings in the area of Gardiner International Paper Co., have been delineated wrong or omitted; see photo 6866 for correct delineation. The railroad bridge at Reedsport contains 8 spans north of the swing span, not five as mapped; see photo 6860.

54. RECOMMENDATIONS

It is respectfully recommended that the paper ozalids should be printed with detail in black, as have been in the past, rather than blue. Violet ink used in field edit does not have as much contrast on the blue-printed ozalids.

56. GEOGRAPHIC NAMES

A specific geographic names investigation revealed no changes.

57. FIXED AIDS TO NAVIGATION AND LANDMARKS

Fourteen aids to navigation appear on this map; eight were office identified and field verified; three are triangulation and field recovered; two were located by theodolite intersection and one by sextant resection (also photo-identified).

Three Landmarks were recommended for charting; one triangulation and two office identified. Two landmarks were recommended for deletion.

58. ADDITIONAL INFORMATION

The island delineated just south of Barret's Lower Dike Light is actually two islands with the area in between baring at MLLW; see appropriate photo for correct delineation. The elevated tank and two burners in Reedsport as well as the transmission tower and radio mast on Bolon Island should be charted but not classified as landmarks. Numerous piling and dolphin lines were photo-identified and indexed to the appropriate photograph. 52 fixes locate fixed dead heads, snags, ends of piling or dolphin lines, single piling or dolphins, obstructions and a wreck; see chronoflex print for positions and field ozalid for fix listing.

Ten bridge clearances and six overhead cable clearances were measured and recorded; All roads were classified, and eight triangulation stations were searched for and a form 526 submitted for each. Eleven Army Corps of Engineers dredge signals were located on this sheet; they consist of a white fence type structure and should be mapped as shoreline detail.

Photos 6860, 6865, 6866, 6867, and 6870 thru 6872 contain field edit notes. Photos 7781, 7782, 7783, and 7784 (TP 00209) also contain notes pertaining to this manuscript.

Two plant layout diagrams of the two International Paper Co, facilities at Gardiner are also included in the field edit data.

Review Report
TP-00211
Shoreline
August 1975

61. General Statement

An unreviewed (Class I) copy of this map was furnished to charts and applied to chart 6004, edition of 1972. The field edit application was incomplete and erroneous. This resulted in many blunders appearing on this chart since the 1972 edition. A copy of TP-00211 was made before any changes were made, in review and the major blunders noted. This copy, as well as a corrected copy, has been furnished charts. The corrected copy should be applied to chart 6004 before publishing another edition.

62. Comparison with Registered Topographic Surveys

T-8951, T-8952, T-8953, July 1952, scale 1:10,000.

Numerous discrepancies exist in the position and length of piling lines. Some appear to be the same line although plotted in slightly different positions. Several individual piles and dolphins on the prior survey was not investigated by the field editor and are not visible on the photography. The pile lines that are shown on TP-00211 are believed to be in the correct position although all of them may not be plotted or not the correct length due to lack of information from the field editor. Log rafts and sun spots on the photography make it impossible to plot any additional piles line not indicated by the field editor.

This map supersedes that portion of common coverage with the following exceptions: Umpqua River; area opposite Steamboat Island. Piling delineation appears incomplete. Area north of Bolon Island; inadequate information from the field editor to locate piling.

These areas should be supplemented by T-8951.

63. Comparison with Maps of Other Agencies:

No comparison made. Only 1:62,500 scale quad available.

64. Comparison with Contemporary Hydrographic Surveys

H-9238, Oct.-Nov. 1971, scale 1:10,000

See Item 61; General Statement: The same situation applies to this hydro sheet.

65. Comparison with Nautical Charts

Chart 6004, 38th edition, July 1974, scale 1:20,000

Examination indicates this sheet has been applied to chart 6004. See Item 61 (General Statement).

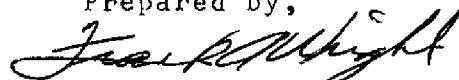
Island shown on chart at Lat. 43°42'40", Long. 124°09'08" does not exist.

Road and railroad from Bolon Island to East Gardiner is a combination bridge and causeway. Fast land does not go all the way across.

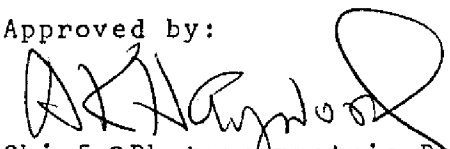
66. Adequacy of Results and Future Surveys

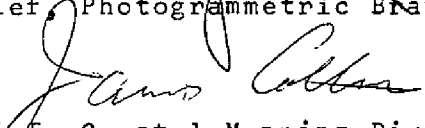
This map generally complies with the project instructions; see item 62 for inadequacies, and meet the National Standards of Map Accuracy.

Prepared by,


Frank A. Wright

Approved by:


Chief, Photogrammetric Branch


Chief, Coastal Mapping Division

NOAA FORM 76-40 (8-74) Replaces C&GS Form 567.				U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION				ORIGINATING ACTIVITY			
NONFLOATING AIDS TO NAVIGATION FOR CHARTS				LOCALITY				DATE			
REPORTING UNIT (Field Party, Ship or Office)				STATE				DATE			
Rockville, MD				Oregon				Umpqua River, Oregon 9/75			
The following objects HAVE <input type="checkbox"/> HAVE NOT <input type="checkbox"/> been inspected from seaward to determine their value as landmarks.				DUTY				METHOD AND DATE OF LOCATION (See instructions on reverse side)			
OPR PROJECT NO.				SURVEY NUMBER				CHARTS AFFECTED			
PH-6607				TP-00211				CHARTS AFFECTED			
DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)				POSITION				CHARTS AFFECTED			
CHARTING NAME				LATITUDE				LONGITUDE			
				° /		D.M. Meters		° /		D.P. Meters	
LIGHT	UMPQUA RIVER			43 42	49.02	124 09	6.54				
	Double cove Point Lt, 1966				1513.0		146.4				
LIGHT	Barretts Range Front Lt.			43 43	52.55	124 09	54.33				6004
					1622.0		1216.0				
LIGHT	Garretts Range Rear Lt.			43 43	59.45	124 09	59.68				"
					1834.9		1335.5				
LIGHT	Barretts Lower Dike Lt.			43 43	26.57	124 09	39.03				"
					820.0		873.5				
LIGHT	Barretts Upper Dike Lt.			43 44	4.11	124 09	48.51				"
					127.0		1085.5				
LIGHT	Four Mile Light			43 44	53.04	124 08	47.24				"
					1637.0		1057.0				
LIGHT	Three Mile Directional, 1966			43 44	55.738	124 07	49.694				"
					1720.24		111.85				
LIGHT	Cannery Sands Dike Light, 1966			43 44	32.644	124 07	42.105				"
					1007.5		942.2				
LIGHT	Leeds Island Light			43 43	22.84	124 07	31.56				"
					705.0		706.5				
DAY BEACON	Channel Daybeacon "22"			43 43	3.30	124 07	0.89				"
					102.0		20.0				

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	R. P. Hewitt LTJG
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	J. Keating
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 (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
FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection P - Photogrammetric Vis - Visually 5 - Field identified 6 - Theodolite 7 - Planetable 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75	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.
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	

Replaces C&GS Form 567.

NONFLOATING AIDS OF ~~THE~~ ~~NAVY~~ ~~FOR~~ CHARTS

<input checked="" type="checkbox"/> TO BE CHARTED (Field Party, Ship or Office) <input type="checkbox"/> TO BE REVISED <input type="checkbox"/> TO BE DELETED	REPORTING UNIT Rockville, MD	STATE Oregon	LOCALITY Umpqua River	DATE 9/75
--	---------------------------------	-----------------	--------------------------	--------------

The following objects HAVE <input type="checkbox"/> HAVE NOT <input type="checkbox"/> been inspected from seaward to determine their value as landmarks.	
OPR PROJECT NO.	JOB NUMBER
	SURVEY NUMBER
	DATUM

PH-6607	TP-00211	N.A. 1927	METHOD AND DATA (See instructions)
		POSITION	

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)	LATITUDE		LONGITUDE		OFFICE
		° /	//	° /	//	
		° /	//	° /	//	D.P. Meters

LIGHT	Gardiner Paper Mill Dock Light	43 44	30.30		11.75	
					124 07	
			935.0		263.0	

LIGHT	Light 2	43 44	10.48	124 07	1.61
			323.5		36.0

LIGHT	Reedsport Upper Light	43	43	2.46	31.81
				124.08	
				76.0	712.0

LIGHT	Smith River Light 2	43	42	26.28	5.00
				124 05	
				811.0	112.0

[illegible][illegible]

Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Population (millions)	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5
GDP (trillion USD)	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5
Life expectancy (years)	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
Urban population (%)	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
Renewable energy (%)	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50
Forest cover (%)	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
CO2 emissions (Gt)	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5
Water stress (%)	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Healthcare expenditure (USD/billion)	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300
Internet usage (%)	40	45	50	55	60	65	70	75	80	85	90	95	98	100	100	100	100	100	100	100	100
Gender inequality index	0.75	0.76	0.77	0.78	0.79	0.80	0.81	0.82	0.83	0.84	0.85	0.86	0.87	0.88	0.89	0.90	0.91	0.92	0.93	0.94	0.95
Human Development Index	0.70	0.72	0.74	0.76	0.78	0.80	0.82	0.84	0.86	0.88	0.90	0.92	0.94	0.96	0.98	1.00	1.00	1.00	1.00	1.00	1.00

[illegible][illegible][illegible][illegible]

ORIGINATING ACTIVITY
<input type="checkbox"/> HYDROGRAPHIC PARTY
<input type="checkbox"/> GEODETIC PARTY
<input type="checkbox"/> PHOTO FIELD PARTY
<input type="checkbox"/> <input checked="" type="checkbox"/> COMPILATION ACTIVITY
<input type="checkbox"/> FINAL REVIEWER
<input type="checkbox"/> QUALITY CONTROL & REVIEW GRP.
<input type="checkbox"/> COAST PILOT BRANCH

(See reverse for responsible personnel)

NAME OF LOCATION <i>on reverse side</i>	CHARTS

FIELD	AFFECTED
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RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	R. P. Hewitt LTJG
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	J. Keating
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	ORIGINATOR <input type="checkbox"/> PHOTO FIELD PARTY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)
FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection 5 - Field identified 6 - Theodolite 7 - Planetable 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 (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
III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75	FIELD ACTIVITY REPRESENTATIVE <input type="checkbox"/> REVIEWER <input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

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

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

Replaces C&GS Form 567.

☒ TO BE CHARTED
☐ TO BE REVISED
☐ TO BE DELETEDREPORTING UNIT
(If field party, ship or office)

Rockville, MD

STATE

Oregon

LOCALITY

Umpqua River

DATE

9/75

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

NON-DELETING AIDS OR LANDMARKS FOR CHARTS

ORIGINATING ACTIVITY

- ☐
- HYDROGRAPHIC PARTY
-
- ☐
- GEODETIC PARTY
-
- ☐
- PHOTO FIELD PARTY
-
- ☒
- COMPILATION ACTIVITY
-
- ☐
- FINAL REVIEWER
-
- ☐
- QUALITY CONTROL & REVIEW GRP.
-
- ☐
- COAST PILOT BRANCH

(See reverse for responsible personnel)

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

OPR PROJECT NO.

JOB NUMBER

PH-6607

SURVEY NUMBER

TP-00211

DATUM

N.A. 1927

POSITION

LATITUDE

° /

D.M. Meters

LONGITUDE

° /

D.P. Meters

METHOD AND DATE OF LOCATION
(See instructions on reverse side)

OFFICE

FIELD

CHARTS
AFFECTEDTallest of two stacks
Burner
TOWERGardiner International Paper Co.
Stack, 1966
ht=251(270)Burner
ht=91(110)
Red & White High Tension tower
with aircraft warning light
ht=231(250)43 44
35.77
1104.1
124 06
54.16
1211.843 44
58.61
1809.0
124 06
41.19
921.543 42
28.71
886.0
124 06
4.60
103.0Triang. Rec.
Nov. 1971

P-V-VIS

P-V-VIS

6004

6004

6004

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
(Consult Photogrammetric Instructions No. 64.)	
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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 III. 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.

[illegible]

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	R. R. Hewitt LTJG
POSITIONS DETERMINED AND/OR VERIFIED	
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
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