

6804

U. S. COAST & GEODETIC SURVEY

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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Topographic

~~Hydrographic~~

Sheet No. ... E

State ... Washington

LOCALITY

San Juan Islands

~~James Island, Decatur I. (east shore)~~~~Lopez I. (n.e. shore)~~

vic. of Lopez Pass

1939-40

CHIEF OF PARTY

RAY L. SCHOPPE

U. S. GOVERNMENT PRINTING OFFICE: 1934

DESCRIPTIVE REPORT
TO ACCOMPANY
TOPOGRAPHIC SHEET E T-6804
SAN JUAN ISLANDS
WASHINGTON
1939 - 40

U.S.C. & G.S.S. SURVEYOR

RAY L. SCHOPPE, COM'D'G.

AUTHORITY:

Instructions dated Sept. 22, 1939 - Project H T 241.

CONTROL:

2nd and 3rd order triangulation of current season.

LOCALITY AND DESCRIPTION:

The survey covers the east shore of Decatur Island (San Juan Islands) from Thatcher Pass to Lopez Pass, the east shore of Lopez Island from Lopez Pass to Shoal Bight, and James Island. The Islands are mostly wooded (coniferous) with the exception of the grassy slope on Decatur Island near Latitude $48^{\circ}29'53''$, Longitude $122^{\circ}48'53''$. On Decatur and Lopez Islands the shore line is either low rocky bluff or gravel or boulder beach. On James Island the rocky bluffs are considerably higher. Some sheep are raised on Decatur Island. James Island and the part of Lopez Island shown on this sheet are deserted.

SURVEY METHODS:

Ordinary plane table methods were used. Elevations that could be determined by alidade were computed. Time did not permit detailed location of contours. Low water line was not shown as tides were unfavorable to its location by topography.

CLOSING ERRORS:

Traverse errors were adjusted proportionally in the usual manner.

Traverse	Distance	Error
△ Spar to △ Fauntleroy Pt. Lt.	1.8 miles	$4\frac{1}{2}$ meters
△ Spar to △ Lopez Pass Lt.	1.6 "	4 "
○ Lat. $48^{\circ}30'53''$, Long. $122^{\circ}47'53''$ clockwise around Decatur Head	0.9 "	Closing error negligible.
△ Triple to △ Lopez Pass Lt.	0.6 "	"
△ Triple to △ WW Tel. Pole	0.8 "	Traverse re-run to make error neg.

Traverse	Distance	Error
△ Jam to ○ near James N.W. 1889	0.6 miles	Closing error negligible

COMPARISON WITH PREVIOUS SURVEYS:

T-1953 There appears to be little difference between the present and former (1889) surveys. However, there is a discrepancy in the elevations on James Island. The Island is composed of 3 hills joined by somewhat lower ground. The elevation obtained on the southeast hill is 219 feet. (Chart 6380 shows 300 feet.) The elevation of the north west hill was determined roughly to be 265 feet. (Chart 6380 shows 260 feet.) The elevation on the south west hill is not much greater than the 126 feet determined as the height of the rocky cliff.

265 approx.
not shown
on sheet.
Accept
charted 260.
See Rev. par. 2 b

on T-1953 The location of "Dot Rock" (Lat. 48°29'.7, Long. 122°47'.7) was not confirmed by the present topographic survey as daytime tides were not low enough to uncover any part of it and weather was too rough to permit approach by dory. The contemporary hydrographic sheet shows it to bare 2 or 3 feet at M.L.L.W. which differs from previous information.

Pos. on H-445
accepted-
agrees with
T-1953.
MWM.

Two stations (Arch and James N.W.) of the 1889 triangulation were recovered in the progress of the field work and topographic locations were obtained in as much as no geographic positions were furnished for plotting same on the sheet prior to field work. Recovery cards were submitted with the triangulation records.

Adjusted 1927
values not
available. MWM.

GEOGRAPHIC NAMES:

No change in geographic names as charted is recommended.

LANDMARKS:

There are no landmarks other than the geographic features themselves and the charted navigational aids.

MAGNETICS:

Declinatoire observations were made at △ Jam 1939 and at △ Triple 1939. Variation at △ Jam was found to be approximately 25°45' E, at △ Triple approximately 24°30' E. The charted value in the vicinity is 23°45' E.

INKING:

Shoreline and station symbols were inked by the topographer leaving projection and lettering to be inked by Processing Office.

STATISTICS:

Statute miles of shoreline = 9.7

Approved and forwarded:

RAY L. SCHOPPE,
Commanding Officer,
U.S.C. & G.S.S. SURVEYOR.

Respectfully submitted:

Clarence R. Reed
Jr. H. & G. Engr.,
U.S.C. & G. Survey.

Recoverable Plane Table Positions

to accompany

Topographic Sheet Field "E", T-6204

San Juan Islands

1939-1940.

<u>Object and Description</u>	<u>Latitude</u>		<u>D. M.</u> meters	<u>Longitude</u>		<u>D. P.</u> meters	<u>Remarks</u>
	o	'		o	'		
Arch 1889 (Oar) ($\frac{1}{2}$ " drill hole)	48	30	1005	122	46	810	see tria. record
James N.W. 1889 ($\frac{1}{2}$ " drill hole)	48	31	132	122	46	699	" " "
Bow (w.w.boulder Elev 11 ft.)	48	30	1488	122	47	815	
Fog (w.w. rock) top of large rock. Elev. 5 ft.	48	30	1450	122	46	755	
Big (w.w. rock) Elev 8 ft.	48	30	238	122	47	652	largest boulder in vicinity

Comp. by W. J. C
Checked by C. A. K.


APPROVAL OF TOPOGRAPHIC SHEET E T-6804

1939 - 40 San Juan Islands

Project H T 241

The field work and the inking of shoreline and
station symbols was done under my supervision.

It is hereby approved.


RAY L. SCHOPPE,
Commanding Officer,
U.S.C. & G.S.S. SURVEYOR.

**Statement of Work Done in
Oakland Processing Office**


To accompany

Topographic Sheet Field "E" T-6804

San Juan Islands

1939-1940.

The work necessary to complete topographic Sheet Field "E" as per attached letter from The Commanding Officer, U. S. Coast and Geodetic Survey Ship SURVEYOR, was done by Lieut. (j.g.) Walter J. Chovan, in the Oakland Processing Office.


Walter J. Chovan
Officer in Charge
Oakland Processing Office.

POST-OFFICE ADDRESS:

Commanding Officer
U. S. C. & G. S. S. SURVEYOR
601 Federal Office Bldg.
Seattle, Washington.

TELEGRAPH ADDRESS:

C
O
P
Y

EXPRESS ADDRESS:

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

Juneau, Alaska
June 22, 1940.

To: U. S. Coast and Geodetic Survey,
Processing Office,
Box 2812 Custom-house,
San Francisco, California.

From: The Commanding Officer,
U. S. S. SURVEYOR.

Subject: Work necessary to complete topographic Sheets.

The following work remains to be done on topographic sheets C, D, and E- San Juan Islands, Washington, Season of 1939-40 being forwarded under G.B.L. No. 0211955, 4/25/40.

All Sheets:

1. Ink triangulation and topo signal names.
2. Ink notes on magnetic meridians.
3. Ink note regarding Lat. and Long. of one triangulation station.
4. Ink initials etc. in stamp No. 25.
5. Ink misc. notes (vegetation, nature of objects outside high water, rocks awash etc.)
6. Pencil geographic names.

Sheet C:

1. Ink sand and kelp symbols.
2. Ink degrees and minutes on projection.
3. Scale and list the following recoverable plane table positions:
monument, granite, about 10' high Lat. $48^{\circ} 29'.8$ Long. $122^{\circ} 41.4$.
4. Submit the following on landmarks for Charts form:
Stack (brick, 175 ft. high) Lat. $48^{\circ} 29.5'$ Long. $122^{\circ} 40.9'$
Burroughs Id. Lighthouse.

Sheet D:

1. Ink projection (including degrees & minutes.)
2. (page 2)

2. Scale and list following recoverable plane table positions:

Iceberg Pt. Lt. (Fl. w. lt. on white house)
w. w. boulder Lat. $48^{\circ} 25.26'$ Long. $122^{\circ} 53.2'$ (large lone boulder
at top of grassy bluff).
rock at Lat. $48^{\circ} 25.65'$ Long. $122^{\circ} 50.33'$ (rock bare 2 ft. at h.w.)
w.w. boulder at Lat. $48^{\circ} 25.98'$ Long. $122^{\circ} 48.03'$
(largest lone boulder on side of hill)

Boundary monument near Δ Iceberg (square concrete marker)

3. Submit the following on landmarks for Charts form:

Iceberg Pt. Lt.
Davidson Rocks Lt.

Sheet K: T-6804

1. Ink projection (including degrees and minutes).
2. Scale and list the following recoverable plane table positions:
Arch 1889 ($\frac{1}{2}$ drill hole--see triangulation record)
James N.W. 1889(" " " " ")
w.w. boulder Lat. $48^{\circ} 30.8'$ Long. $122^{\circ} 47.7'$ (bare 11 ft. high water)
w.w. rock Lat. $48^{\circ} 30.8'$ Long. $122^{\circ} 46.6'$ (top of large rock)
w.w. boulder Lat. $48^{\circ} 30.1'$ Long. $122^{\circ} 47.3'$ (largest boulder in
vicinity, bare 8 ft. high water)

3. Submit the following on landmarks for Charts form:

Fauntleroy Pt. Lt.
Lopez Pass Lt.
Belle Rk. Lt. (just off edge of sheet)

/s/ Ray L. Schoppe
Commanding Officer
U.S.S.&S.S. SURVEYOR

RLS/err:hk.

Remarks

Decisions

1		484227
2		485227
3		485228
4		485227
5		"
6		484228
7		484228
8		484227 O.S.G.B
9		484228
10		485227
11	For title	485229
12	See Hydro Sheet - Not shown on T-6804	484227
13		
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M 234		

GEOGRAPHIC NAMES

Survey No. **T6804**

GEOGRAPHIC NAMES											
Survey No. T6804											
Name on Survey											

Names underlined in red approved
by L. Heck on 4/14/41

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
~~PHOTO STAT OF~~

~~Moore~~

No. T **T6804**

received Mar. 28, 1941
registered Apr. 5, 1941
verified
reviewed
approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
20			
22			
24			
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62			
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83			
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90			

RETURN TO

82	T. B. Reed
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✓ *gase*

DIVISION OF CHARTS

SURVEYS SECTION

REVIEW OF TOPOGRAPHIC SURVEY NO. 6804 (1939) FIELD NO. E

Washington, San Juan Islands, Lopez Island,
Vicinity of Lopez Pass
Surveyed in December 1939, Scale 1:10,000
Instructions dated September 22, 1939 (SURVEYOR)

Plane Table Survey

Aluminum Mounted

Chief of Party - Ray L. Schoppe
Surveyed by - C. R. Reed
Inked by - C. R. Reed and Oakland Processing Office
Reviewed by - Harold W. Murray, July 7, 1941
Inspected by - J. A. McCormick

1. Junctions with Contemporary Surveys

The junctions on the south with T-6803 (1940) and in the vicinity of Lopez Pass with T-6737 (1939-40) are excellent.

The junction on the north will be considered when that work is received from the field.

2. Comparison with Prior Surveys

a. H-333 (1852) and H-433 (1854), Scales 1:214,240 and 1:100,000

These early hydrographic reconnaissance surveys containing shoreline details reveal no specific information that needs consideration in this review.

b. T-1953 (1889), scale 1:10,000

This survey covers the entire area of the present survey. Agreement of detail is excellent. Four rocks awash were carried forward. Rocks shown on the old survey and not seen by the topographer of the present survey but subsequently located by the hydrographer on H-6645 (1939-40) were accepted as located on the hydrographic sheet. An example is the rock in Lat. $48^{\circ} 29.7'$, Long. $122^{\circ} 47.7'$.

The old survey shows considerable ledge detail adjacent to the shoreline. Portions of these ledges have been verified on the present survey. The unverified portions were not carried forward.

The Descriptive Report, page 2, cites several discrepancies in elevations on James Island. The largest discrepancy is 81 feet on a hill 219 feet high. The Descriptive Report of T-1953 states that the greater portion of the contours is sketched and do not pretend to be even of approximate accuracy.

The present survey with the indicated additions supersedes the shoreline details on this 1889 survey.

3. Comparison with Chart 6380 (New Print date 4-13-40)

a. Topography

Topography shown on the chart originates with surveys discussed in previous paragraphs of this review.

b. Magnetic Meridians

The two magnetic meridian determinations agree closely with the charted value. The Descriptive Report of the adjacent sheet, T-6737 (1939-40), states that the declinoire (No. 236) was checked at the Lincoln Park Magnetic Station, Washington.

4. Compliance with Instructions for the Project

The survey complies with the instructions for the project. The absence of contours is due to the shortness of the season. (See D.R., page 1)

5. Condition of Survey

a. The inking of topographic details is very good.

b. The Descriptive Report is clear and satisfactorily covers all items of importance.

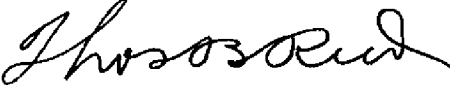
6. Additional Field Work Recommended

This is an excellent survey. See review T-6737 (1939-40), par. 6, regarding form lines in this area.

7. Superseded Surveys


H- 333 (1852)	In part, topography only
H- 433 (1854)	" " " "
T-1953 (1889)	" " , shoreline details only

Examined and approved:


Chief, Surveys Section


Chief, Division of Charts


Chief, Section of Hydrography


Chief, Division of Coastal
Surveys