

6803

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

MAR 27 1941

Acc. No.

Form 504
Rev. Dec. 1933
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Topographic

~~HYDROGRAPHIC~~

Sheet No. ... D

State Washington

LOCALITY

San Juan IslandsLopez Island S.E. end1935-40

CHIEF OF PARTY

RAY L. SCHOPPE

U. S. GOVERNMENT PRINTING OFFICE: 1934

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. D

REGISTER NO. **T6803**

State Washington

General locality San Juan Islands

Locality Lopez Island S.E. end

Scale 1/10,000 Date of survey Jan. - Mar., 1940

Vessel SURVEYOR

Chief of party RAY L. SCHOPPE

Surveyed by C. R. Reed

Inked by C. R. Reed and Processing Office

Heights in feet above M.H.W. to ground ~~to top of trees~~

~~Contours, approximate contours, Form line, interval, etc.~~

Instructions dated September 22, 1939

Remarks: _____

DESCRIPTIVE REPORT
TO ACCOMPANY
TOPOGRAPHIC SHEET D T-6803 (1940)
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 GENERAL DESCRIPTION:

The survey covers the southeast shore of Lopez Island from Shoal Bight to Iceberg Point. Lopez Island in this vicinity is mostly wooded (coniferous) near the shores with clearings for pasture and crops in favorable locations farther inshore. Boulder I., Colville I., Castle I. and the smaller Islands are not wooded but rocky and partially grass covered.

SURVEY METHODS:

Ordinary plane table methods were used. A few elevations were determined by alidade. The shortness of the season did not permit detailed delineation of contours. Low water line is only approximate and partially shown--where tides permitted.

CLOSING ERRORS:

(Traverse errors adjusted proportionally in usual manner).

△ Kellett to △ WW Tel. Pole	1.2 miles	1 meter
△ Boulder to △ Kellett	1 mile	closing error negligible
△ Boulder to 3 pt. fix	Lat. $48^{\circ}25'.3$ Long. $122^{\circ}48'.7$	0.8 mile " " "
△ Swirl to △ Iceberg	1.5 miles	3 meters

Remaining shore line located by plane table triangulation and short spur traverses.

COMPARISON WITH PREVIOUS SURVEYS:

The present survey does not differ materially from the 1889 Survey.

The two rocks shown on the old survey at Lat. 48°27'.15; Long. 122°48'.15 were not seen during the time topography was done in the area, but were seen by the hydrographic party and by the topographer from a distance on another occasion. Their position on the old sheet is probably correct.

T-1953(1889)

Rocks carried forward. HWM

The rock shown on the old sheet at Lat. 48°25'.8; Long. 122°50'.2 was not seen by the topographic party, although the dory was rowed about in the vicinity at about 3/4 tide searching for it. The hydrographic party reported having seen it at extreme low water. Location on H-6577(1940) accepted.

GEOGRAPHIC NAMES:

No change in geographic names as charted is recommended.

LANDMARKS:

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

MAGNETICS:

Declinatoire observations were made at the following points:

Place of observation Approx. variation obtained

△ Boulder.....24°25' E

△ Kellett.....24°25' E

⊙ (Lat. 48°25'.11
out (Long. 122°53'.08.....23°50' E

⊙ (Lat. 48°24'.48
Leo (Long. 122°49'.523°40' E

The charted value of the variation 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 the Processing Office.

STATISTICS:

Statue miles of shoreline = 16.5

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.

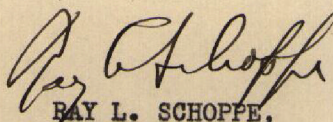
APPROVAL OF TOPOGRAPHIC SHEET D T-6803 (1940)

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.

Remarks.

Decisions

1		48422Y
2		"
3		"
4		"
5		"
6		"
7		"
8		" U.S.G.B
9		"
10		"
11		"
12		484227 U.S.G.B.
13		484228
14		"
15		"
16		"
17		" U.S.G.B
18		"
19		485229
20	For title	
21		
22		
23		
24		
25		
26		
27		

GEOGRAPHIC NAMES
Survey No. **T6803**

GEOGRAPHIC NAMES											
Survey No. T6803											
Name on Survey											
	A,	B,	C,	D	E	F	G	H	K		
<u>Aleck Bay</u>											1
<u>Boulder Island</u>											2
<u>Cape St. Mary</u>											3
<u>Castle Island</u>											4
<u>Colville Island</u>											5
<u>Davidson Rock</u>											6
<u>Hughes Bay</u>											7
<u>Iceberg Point</u>											8
<u>Lopez Island</u>											9
<u>Mc Ardle Bay</u>											10
<u>Point Colville</u>											11
<u>Rosario Strait</u>											12
<u>Shoal Bight</u>											13
<u>Telegraph Bay</u>											14
<u>Watmough Bight</u>											15
<u>Watmough Head</u>											16
<u>Aleck Rocks</u>											17
<u>Chadwick Hill</u>											18
<u>San Juan Islands</u>											19
	Names underlined in red approved										20
	by L. Heck on 4/12/41										21
											22
											23
											24
											25
											26
											27

M 234

Names underlined in red approved

by L. Heck on 4/14/41

Recoverable Plane Table Positions

to accompany

Topographic Sheet Field "D". T-6803 (1940)

San Juan Islands

1939-40


Object and Description	Latitude		D. M. meters	Longitude		D. P. meters	Remarks
	o	'		o	'		
Iceberg Pt. Light. (Fl. w. Lt. on white House)	48	25	624	122	53	711	
Til (large lone boulder at top of grassy bluff)	48	25	479	122	53	240	
Rod (Rock bare 2 ft. at high water)	48	25	1193	122	50	405	
Pus (largest lone boulder on side of hill)	48	25	1825	122	48	33	
Boundary Monument Treaty of 1858 (square concrete marker)	48	25	370	122	53	11	near triangulation Sta. Iceberg.

Comp by W.J.C.
✓ by C.A.K.

Statement of Work Done in
Oakland Processing Office

To accompany
Topographic Sheet Field "D" T-6803 (1940)
San Juan Islands
1939-1940.

The work necessary to complete topographic Sheet Field ^{T-6803} "D" 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.

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
~~PHOTOSTAT OF~~

~~No. T~~

No. T **T6803**

received Mar. 28, 1941
registered Apr. 4, 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			
25			
26			
30			
40			
62			
63			
82			
83			
88			
90			

RETURN TO

82	T. B. Reed
----	------------

✓ JBR

DIVISION OF CHARTS

SURVEYS SECTION

REVIEW OF TOPOGRAPHIC SURVEY NO. 6803 (1940) FIELD NO. D

Washington, San Juan Islands, Lopez Island - S.E. End
Surveyed in January - March 1940, 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 junction on the north with T-6804 (1939) is satisfactory. The junction on the west 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 reconnaissance hydrographic surveys contain sketched shoreline. No details are shown that are not adequately covered by later surveys.

b. T-1953 (1889) and T-2302 (1897), Scales 1:10,000

These surveys taken together cover the entire area of the present survey. Agreement of shoreline and off-lying rock detail is remarkably good. Some differences naturally exist in the character and quantity of the off-lying details because of differences existing in the stages of the tide at the time the respective topographers were in the same vicinities.

Several rocks were carried forward and particular attention was given to the rocks discussed in the Descriptive Report, page 2, which were known to exist but could not be readily located. Rocks shown on the old survey and not confirmed by the

present topographic survey but subsequently located on the contemporary hydrographic survey H-6577 (1940) were accepted as located by the hydrographer. An example is the bare rock noted as awash at half tide on T-2302 in Lat. $48^{\circ} 25.8'$, Long. $122^{\circ} 50.2'$ which was located on H-6577 and noted as a rock awash at MLLW. Most of these rocks are awash at very low tides and it seems unusual that the old topographer should have consistently located so many of them. A possible explanation may be that the rocks were actually located by the hydrographic party and subsequently transferred to the topographic sheet as original information. It is also obvious that the current field party would have made an effort to locate these rocks had they been able to distinguish between small topographic details and photographic defects in the paper of the photographic copies of the old surveys which were furnished them.

The bare rock shown 20 m. offshore on T-2302 in Lat. $48^{\circ} 25.4'$, Long. $122^{\circ} 49.0'$ falls directly on the present survey high-water line. A discrepancy of 25 m. also exists in the shoreline agreement here and the rock has not been carried forward. The present survey with the indicated additions supersedes the shoreline details on these 1889-1897 surveys.

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

a. Topography

Topography shown on the chart originates with surveys discussed in the preceding paragraphs.

b. Magnetic Meridians

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

4. Compliance with Instructions for the Project

The work accomplished complies with the instructions for the project. The Descriptive Report, page 1, states that the shortness of the season did not permit detailed delineation of inland contours. /

5. Condition of Survey

- a. The inking of the topographic features was very satisfactory.
- b. The Descriptive Report is clear and satisfactorily covers all matters of importance. (See Par. 3b, above)

6. Additional Field Work Recommended


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

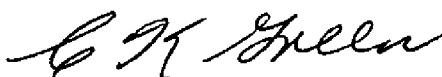
7. Superseded Surveys


H- 333 (1852)	In part, topography only
H- 433 (1854)	" " , " "
T-1953 (1889)	" " , shoreline details only
T-2302 (1897)	" " , " " "

Examined and approved:


Chief, Surveys Section


Chief, Division of Charts


Chief, Section of Hydrography


Chief, Division of Coastal
Surveys