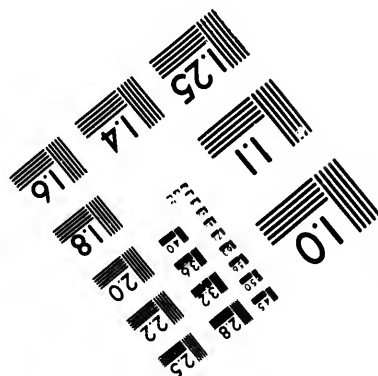
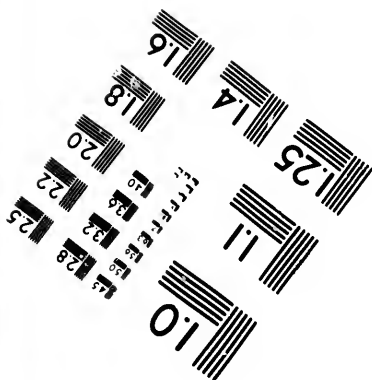
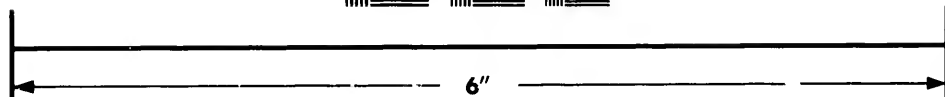
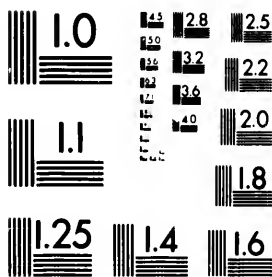


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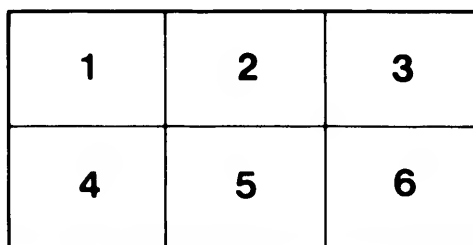
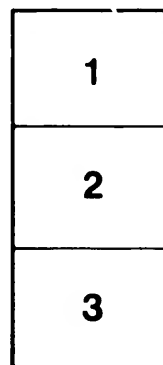
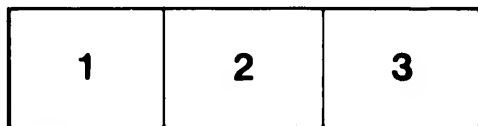
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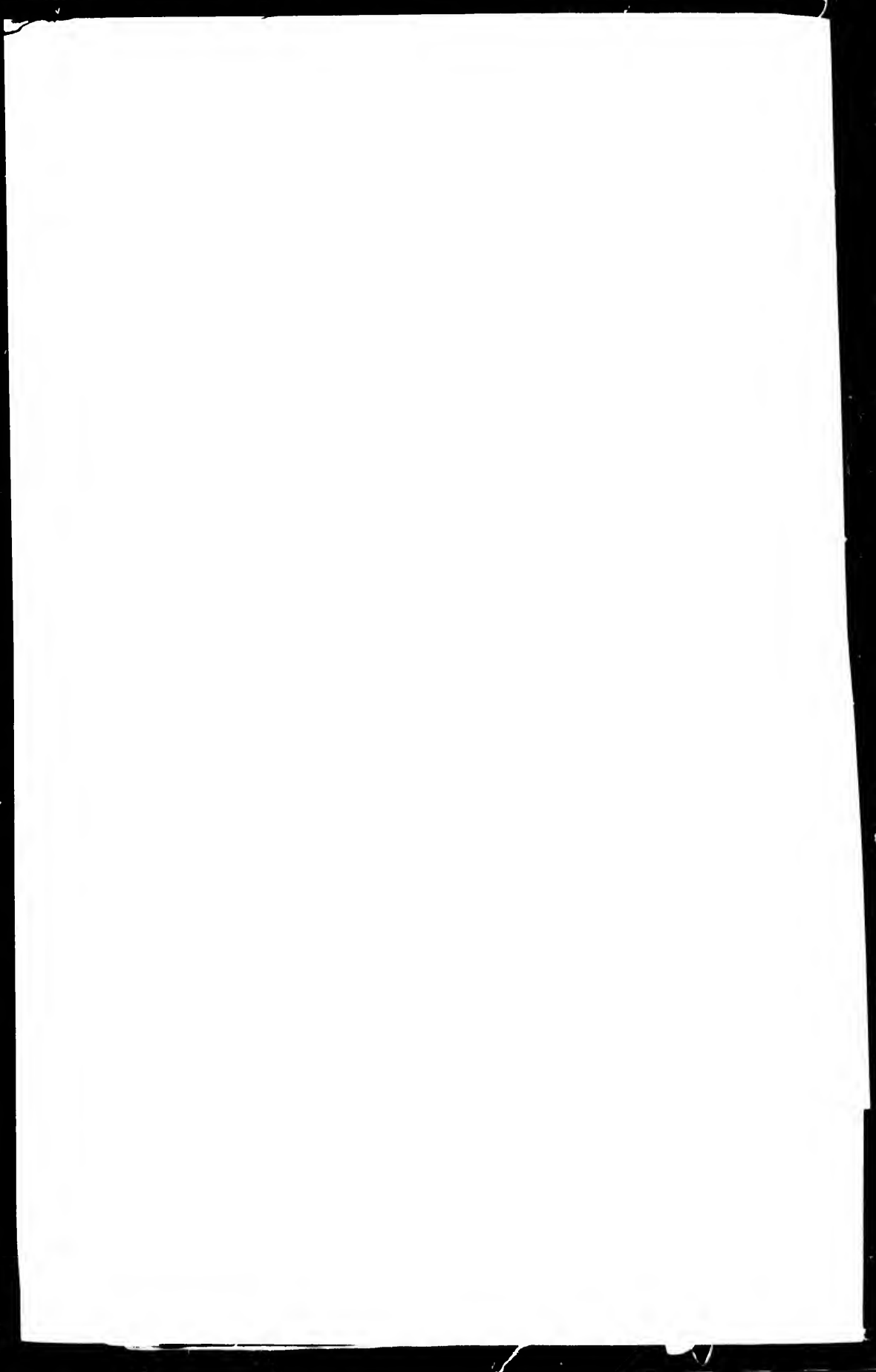
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NORTH AMERICA. No. 8 (1873).

(F.)

NORTH-WEST AMERICAN WATER BOUNDARY.

M A P S

ANNEXED TO THE

MEMORIAL AND REPLY

OF THE

UNITED STATES' GOVERNMENT,

SUBMITTED TO THE

ARBITRATION AND AWARD

OF

HIS MAJESTY THE EMPEROR OF GERMANY,

UNDER THE PROVISIONS OF THE TREATY OF WASHINGTON,

JUNE 12. 1872.

Presented to both Houses of Parliament by Command of Her Majesty.
1873.

LONDON:
PRINTED BY HARRISON AND SONS.

LIST OF CHARTS AND MAPS.

- (A.) Photograph of Map of De Haro. 1790.
 - (B.) Photograph of Map of Eliza. 1791.
 - (C.) Photograph of Map of Vancouver. 1798.
 - (D.) Photograph of Map of Galiano and Valdes. 1802.
 - (E.) Photograph of Map of Dutillet de Mofras. 1844.
 - (F.) Photograph of Map of Wilkes. 1845.
 - (G.) Photograph of Map of W. Sturgis. 1845.
 - (H.) Lithograph of United States' Coast Survey Map of Washington Sound and approaches.
 - (J.) Lithograph of Map of De Haro. 1790.
 - (K.) Lithograph of Map of Eliza. 1791.
 - (L.) Lithograph of Spanish Chart published in 1795.
 - (M.) Cross Sections of Haro and Rosario Channels.
 - (N.) Sketch to illustrate the Route of the Vessels of the Hindsou's Bay Company.
 - (O.) Copy of Map H, with a blue line drawn southerly from the centre of the Gulf of Georgia in latitude 49°; with red lines to show the Channels through Haro northwards; and a yellow line to show the so-called Rosario Channel.
-

*Phot. of the original
Lithograph of the
Map of the Haro Channel
as published in the
"Annuaire de la Marine"
Paris, 1844.*

A

De la Baye de Haro
 Cette Baye est située à l'Est de
 la Baie de la Nouvelle France
 et est la plus grande de
 toutes celles qui sont
 dans le Nord de ce
 Continent.

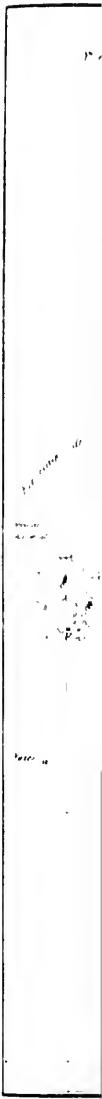


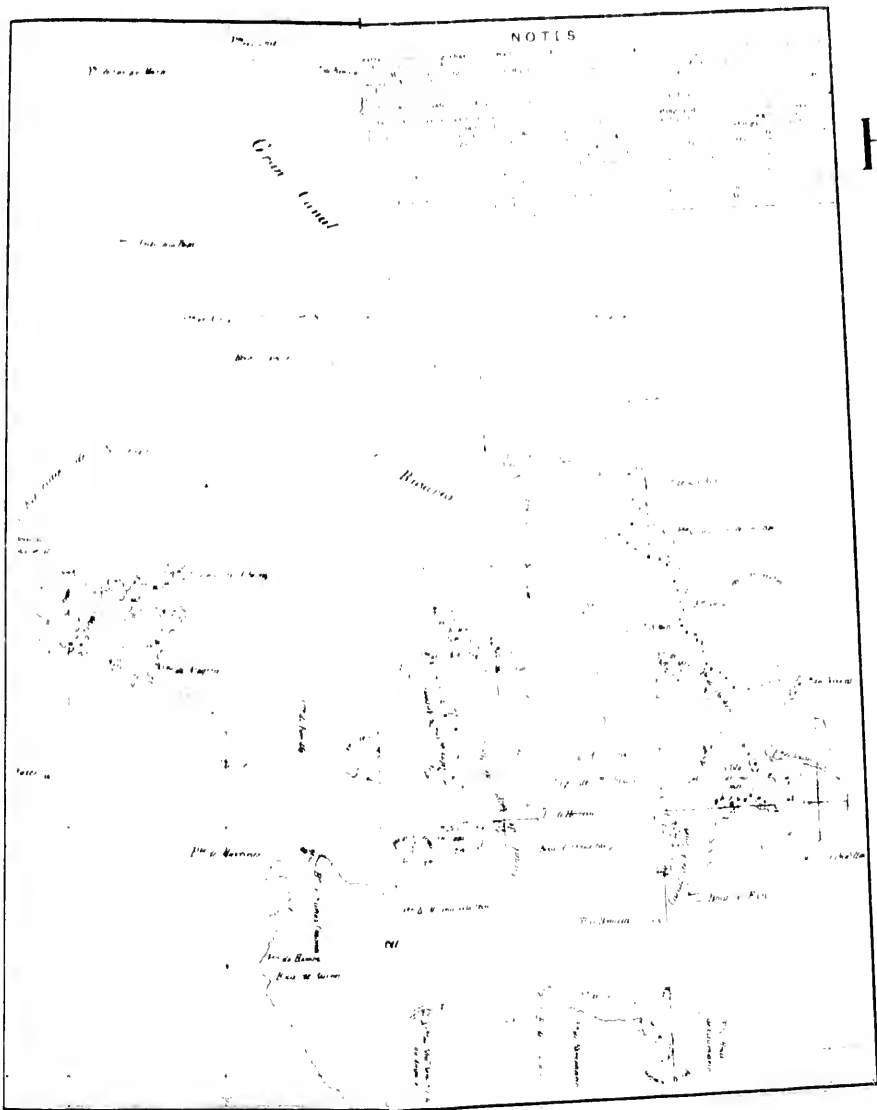
Longueur Orientale des Merisiers de S. Blas

Sound and

Company.
entre of the
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A
 MAP OF DE HARO.
 1790.





B

BY ELIZA 1781.

ER.

1847

1848

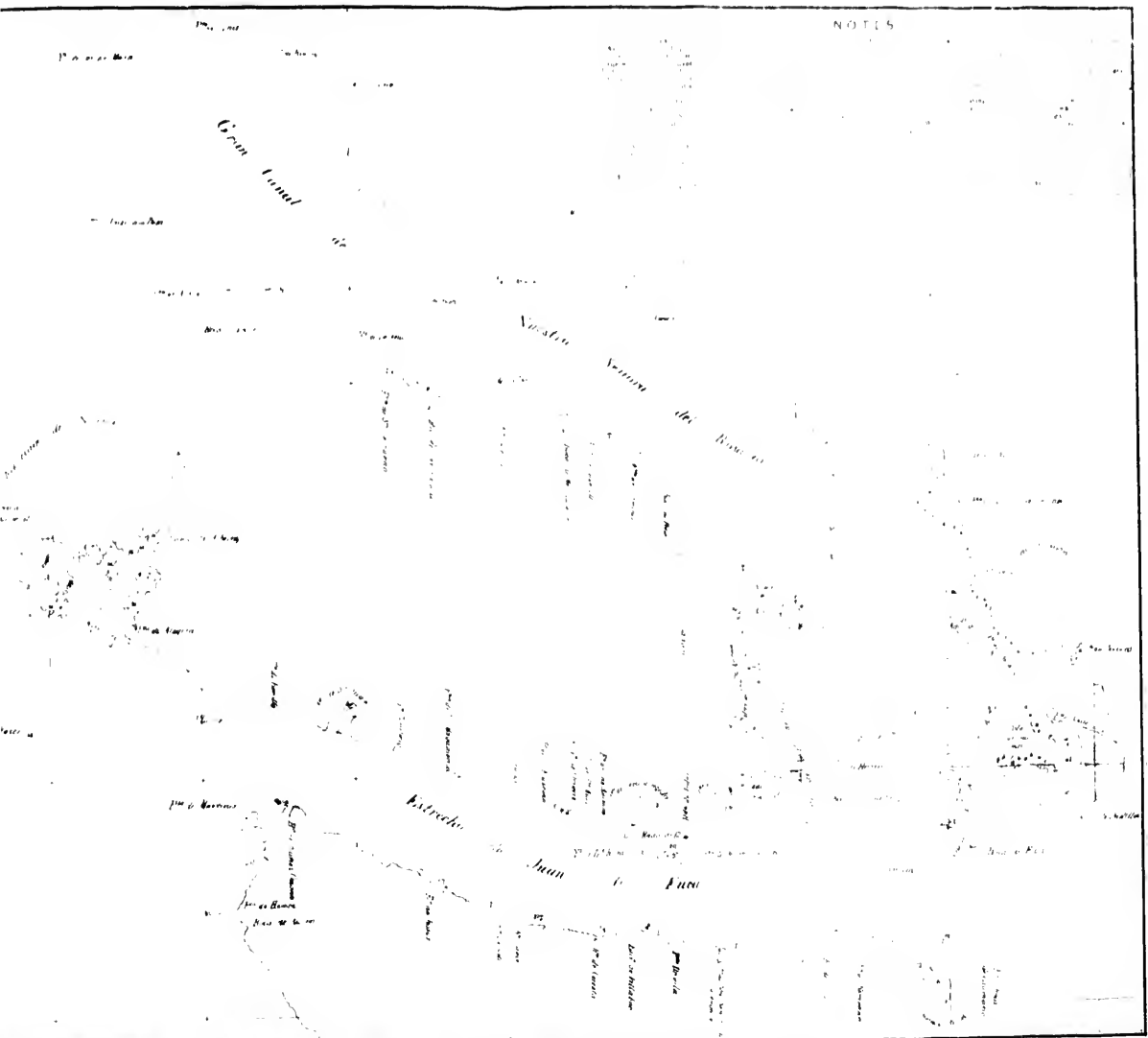
1849

1850

1851

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1853



B

MAP OF DE FUCA-STRAIT BY ELIZA 1791.

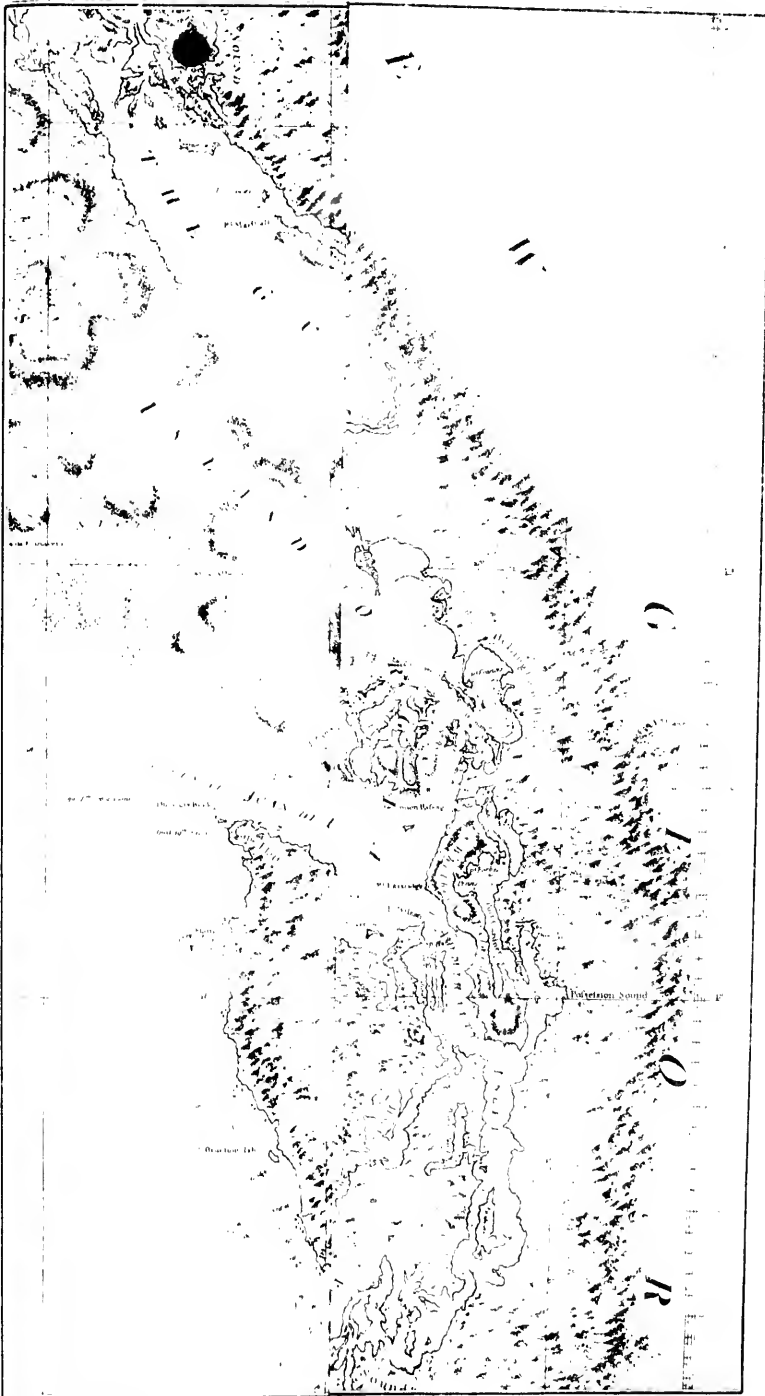
B.

MAP OF ELIZA.

1791.

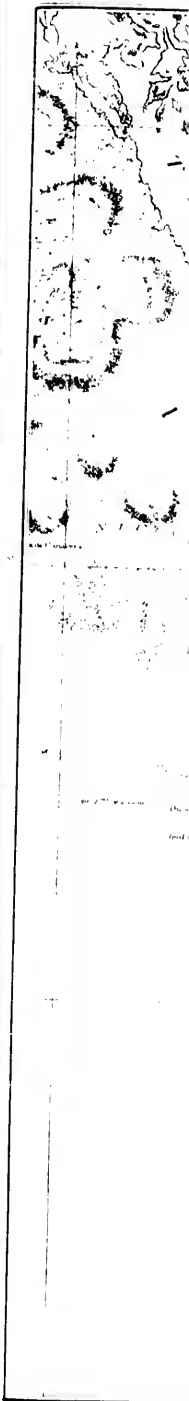
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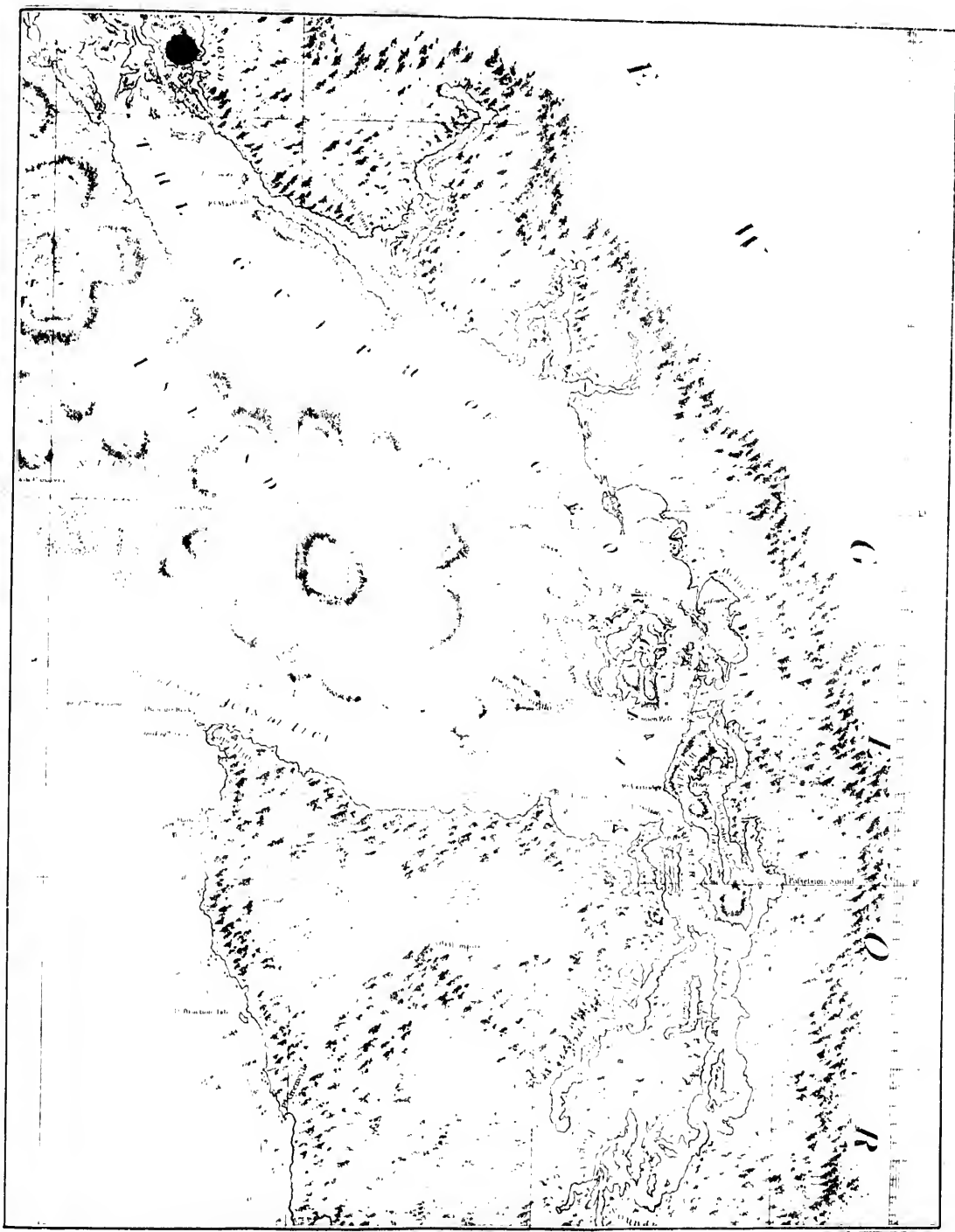




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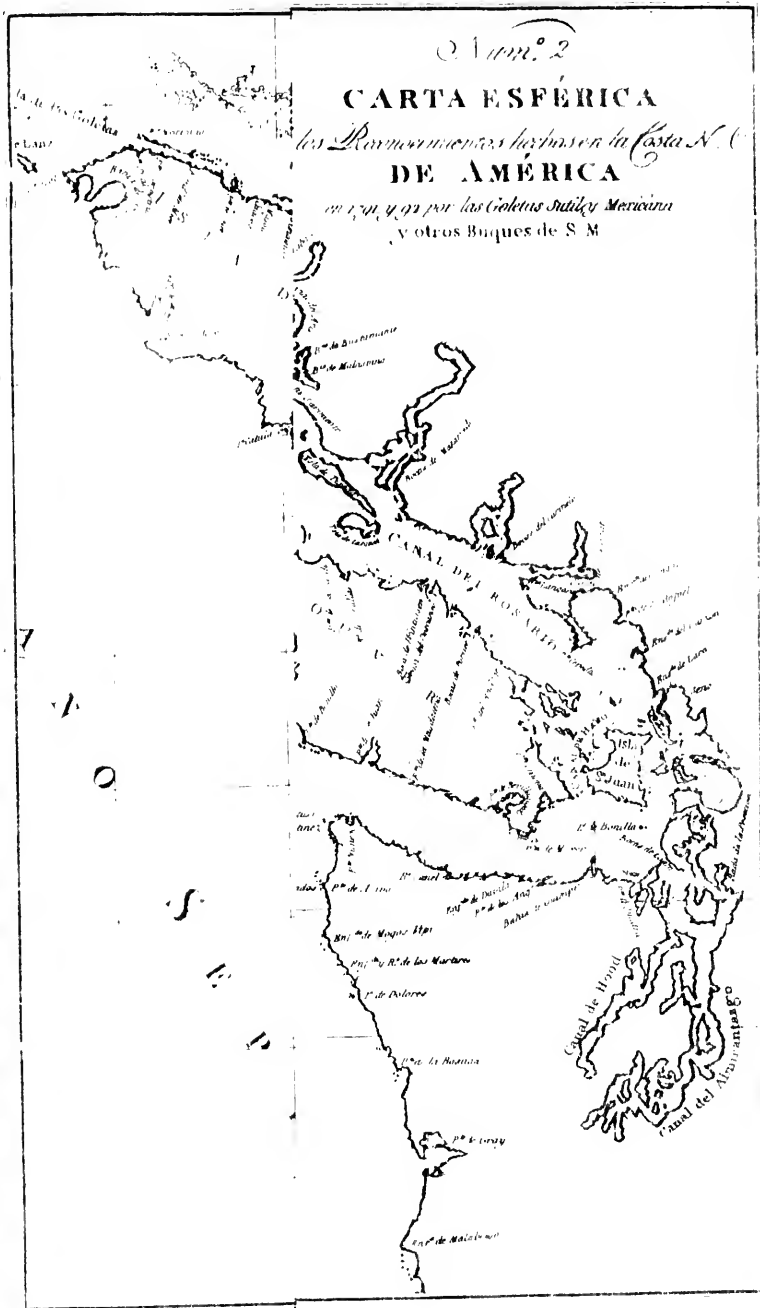
(1798)

C.
MAP OF VANCOUVER.

1798.

14 de 185
CLUB

7



MEXICANA

Tom. 2

CARTA ESFÉRICA
de los Puercamientos hechos en la Costa N. O.
DE AMÉRICA

en 1791 y 92 por las Corbetas Sutil y Mexicana
y otros Buques de S. M.

D

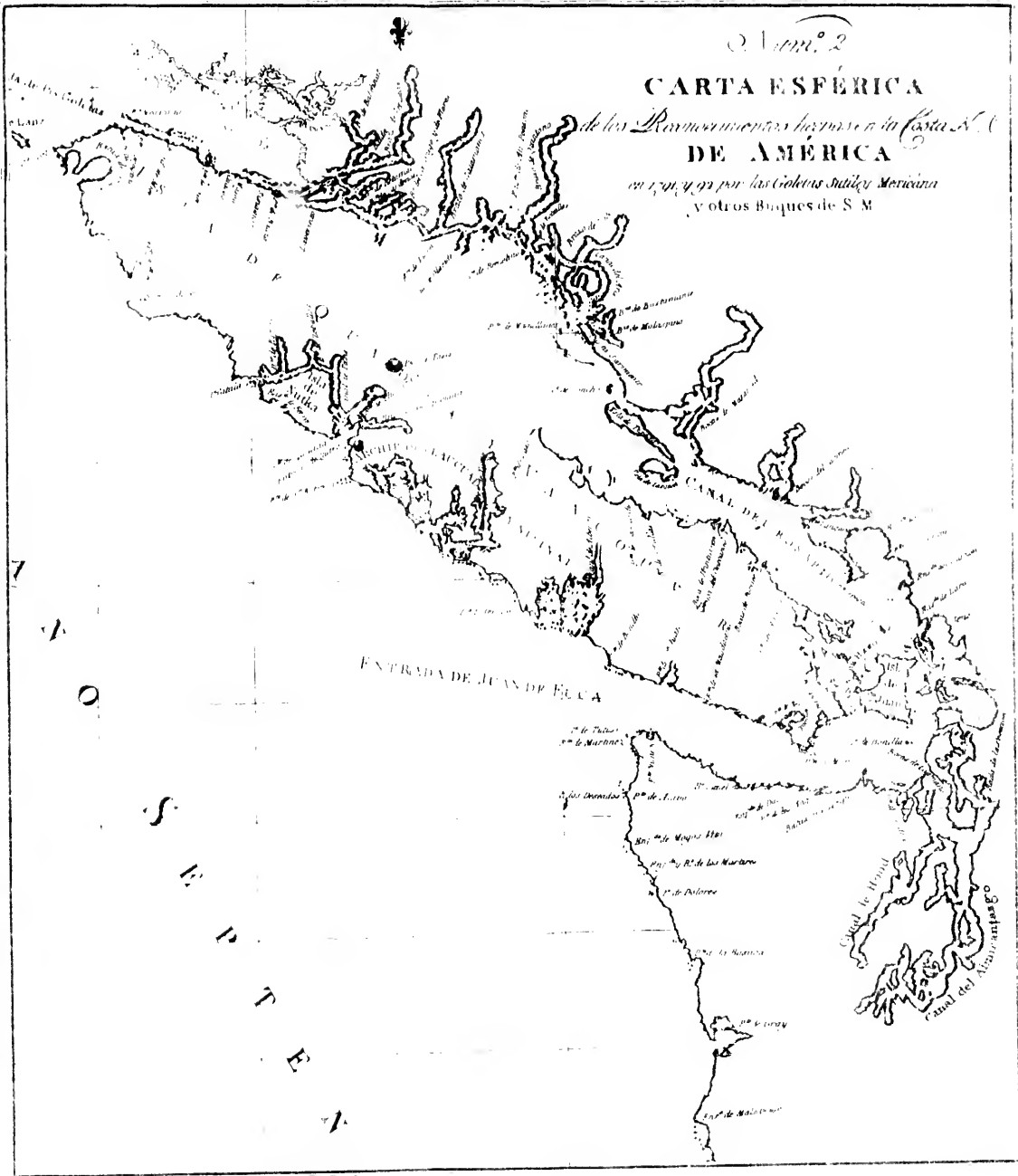


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Tomo 2
CARTA ESFERICA
de las Parroquias de la Costa N. de
DE AMERICA
en 1791, y 92 por las Coleas Sutil y Mexicana
 y otros Buques de S. M.

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D.
 MAP OF THE SUTIL Y MEXICANA
 1792.
 Published in 1802

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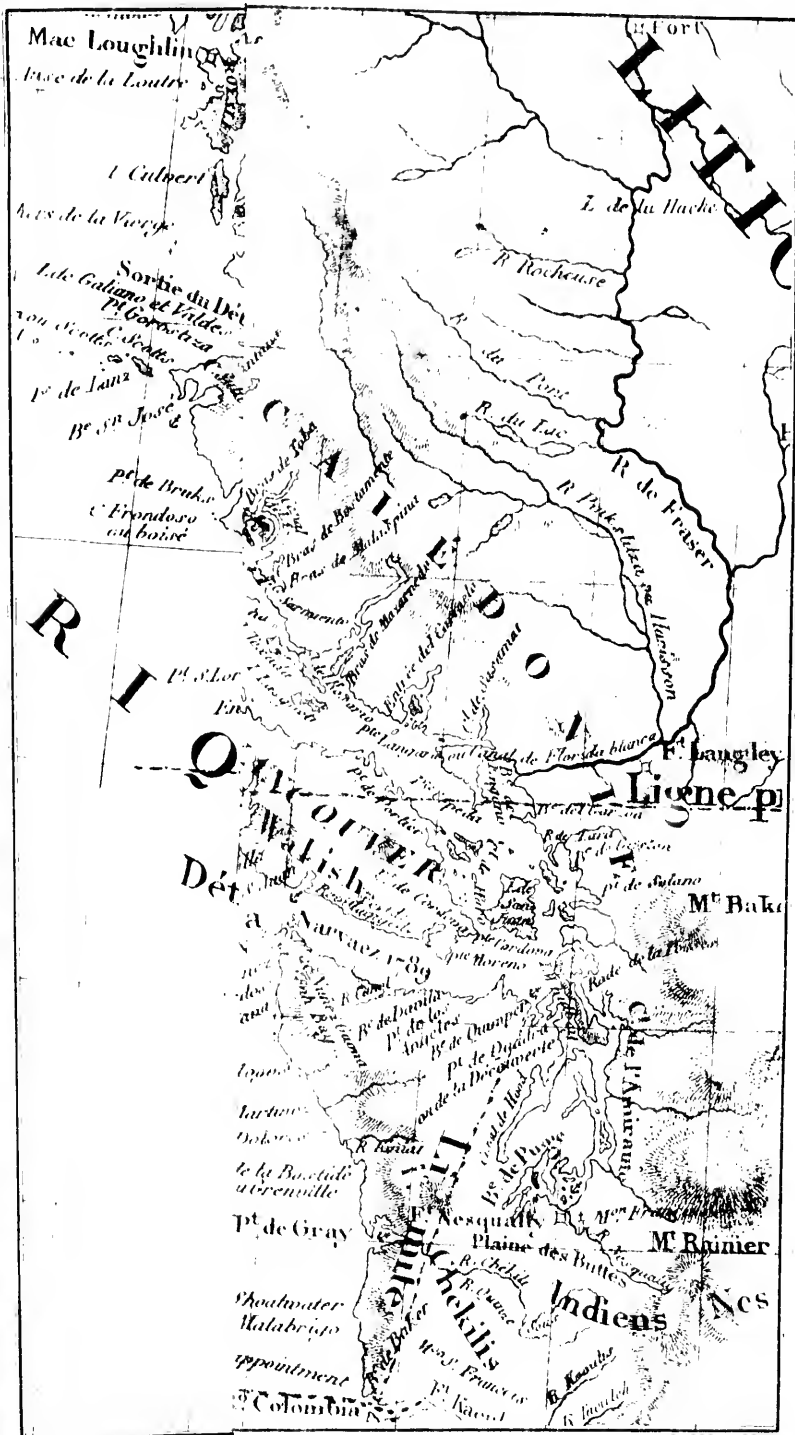
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Baye de la Vierge

Sortie de

L'Isle Galiane et l'Isle

1^{re} de Jauz

Be. en Jauz

pt de Brak

C' Frondoso

en bois

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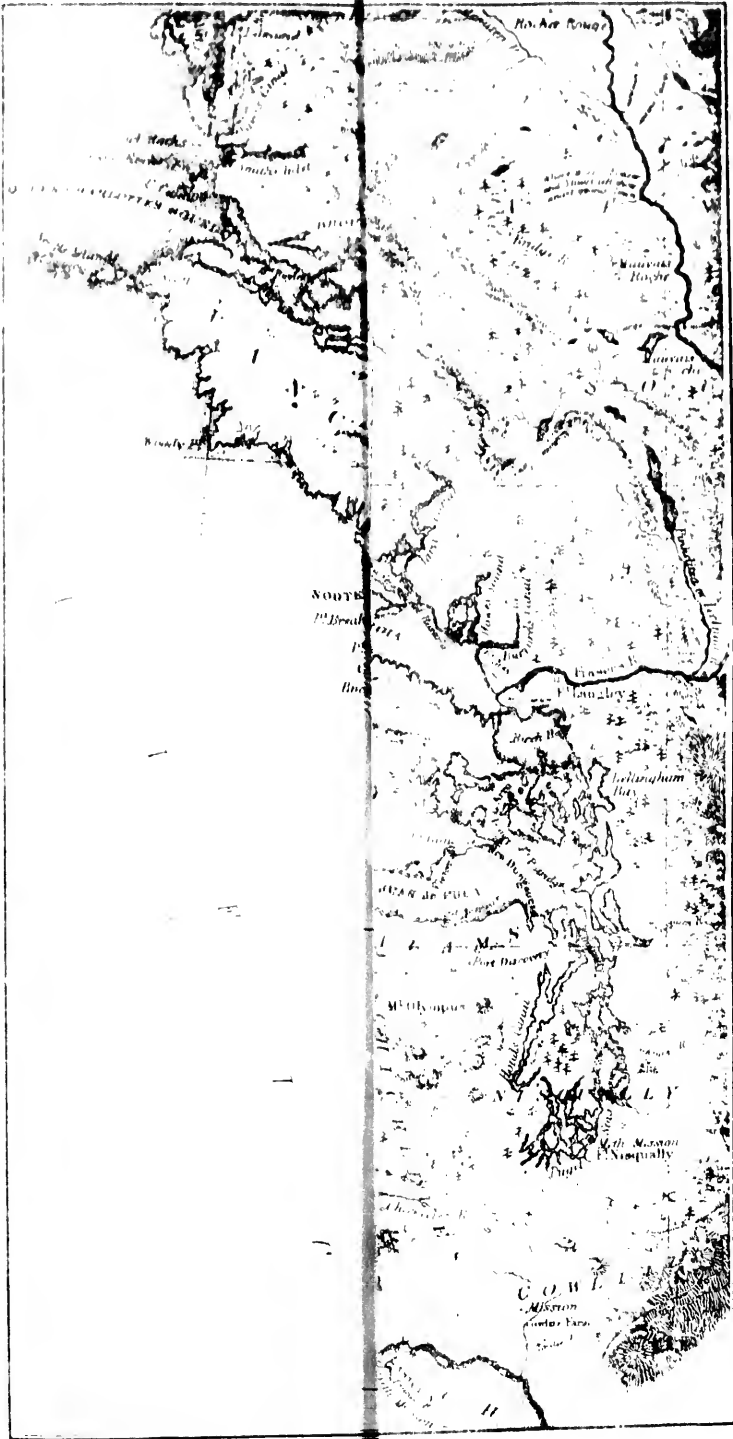
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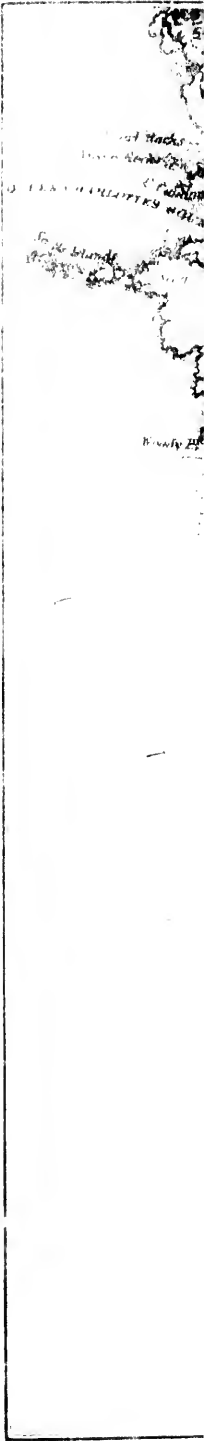
MAP OF DUFIOT DE MOFRAS.

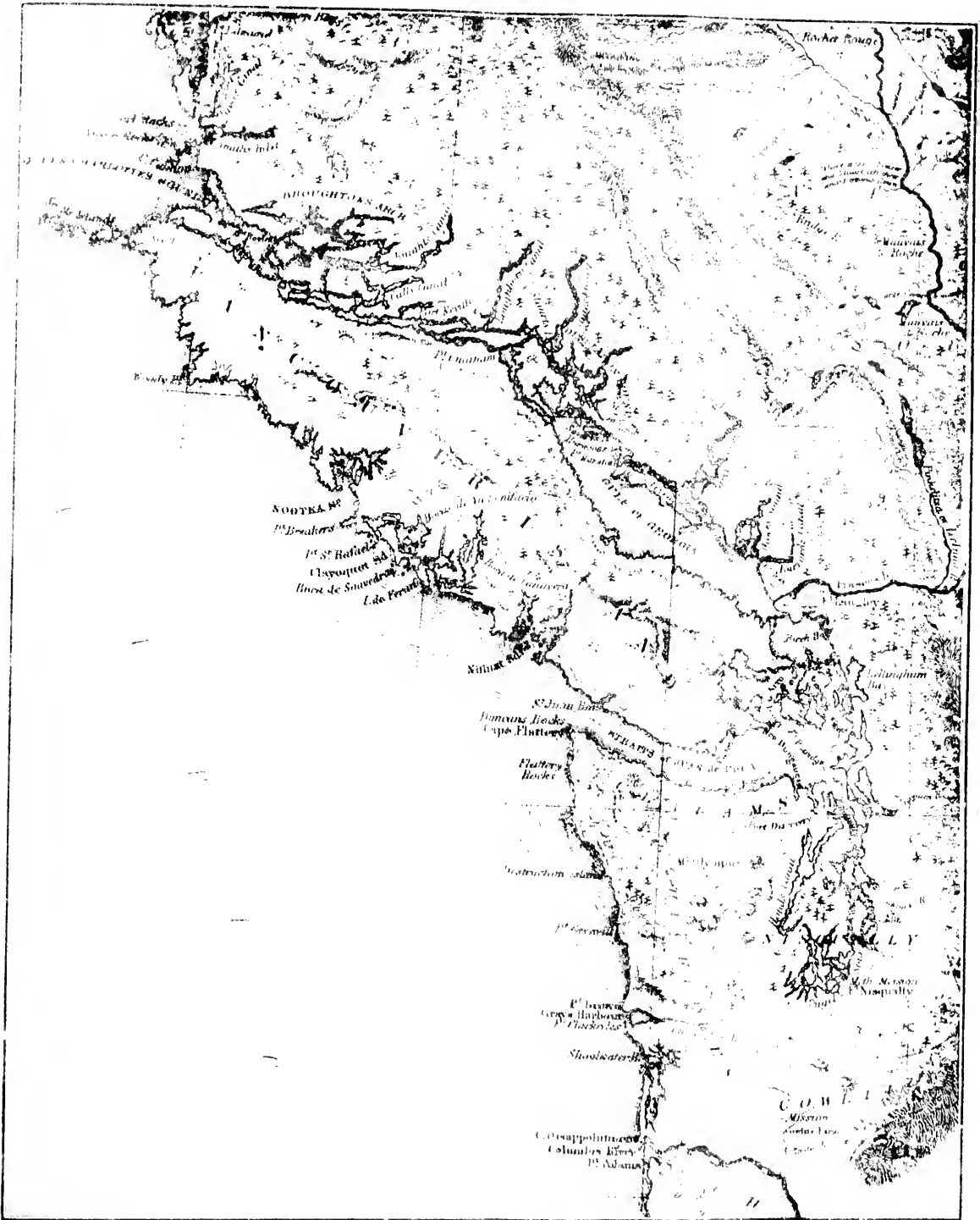
1844

U. S. A.
1926



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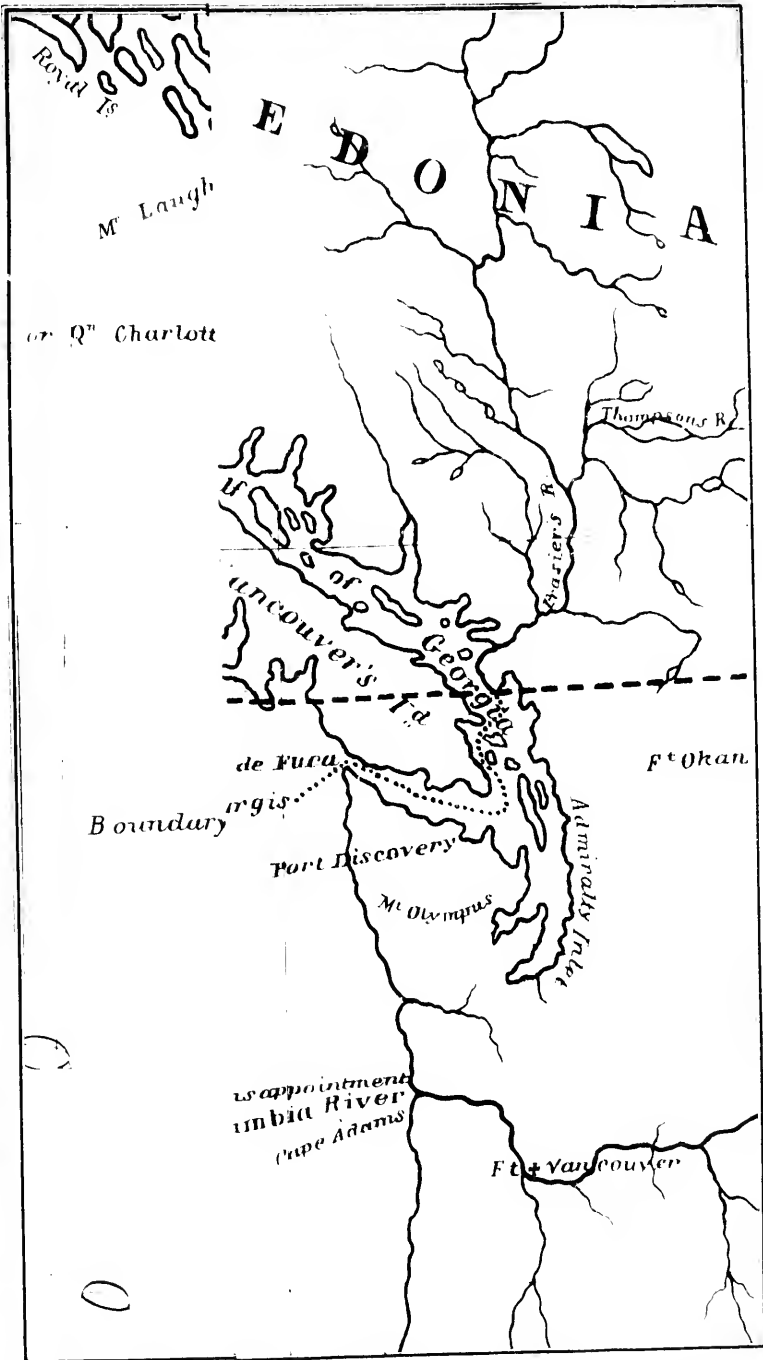


F.
MAP OF WIEKES
1845.

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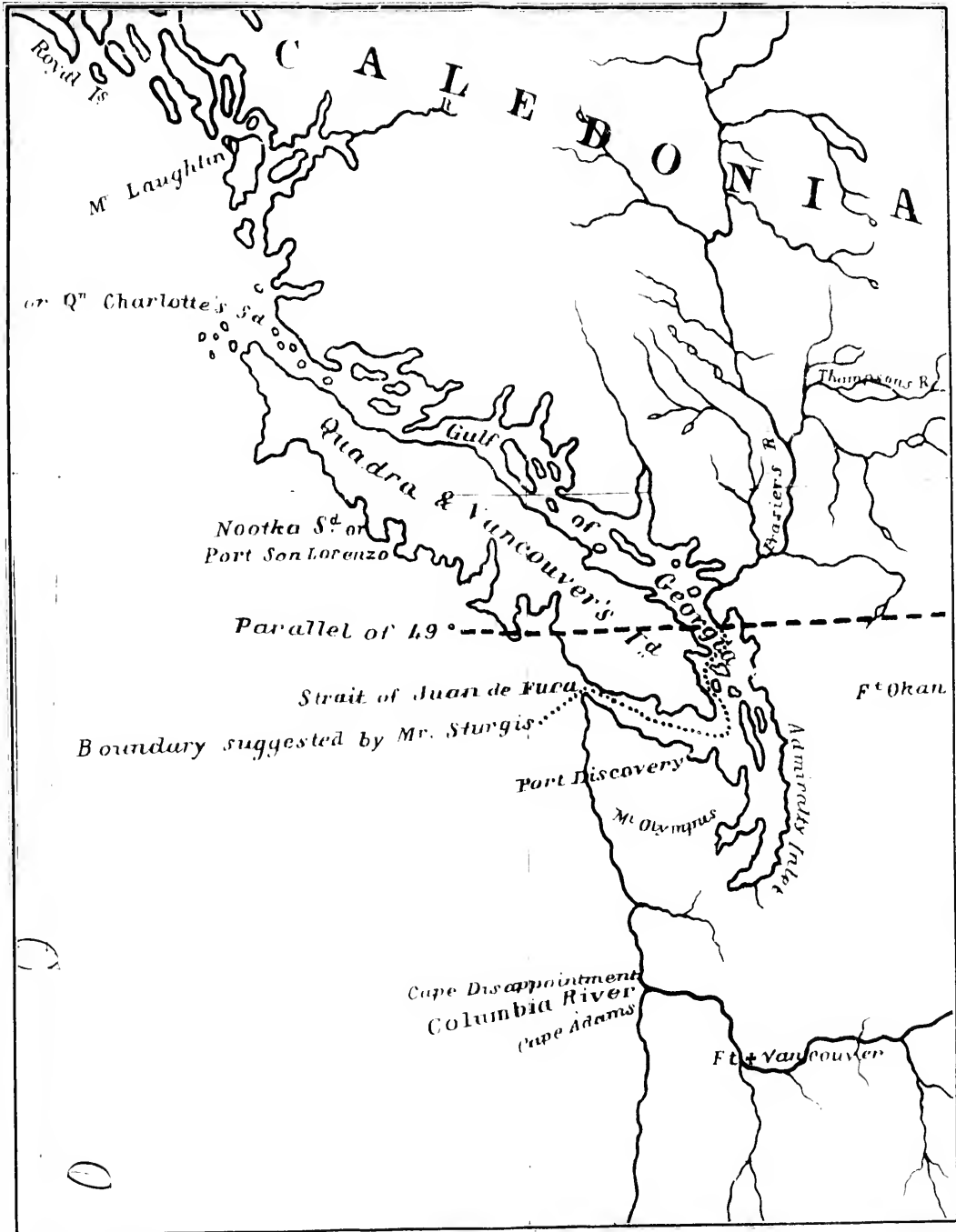
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M. M. 2. 1. 1.



G.
 MAP OF W. STURGIS.
 1845.

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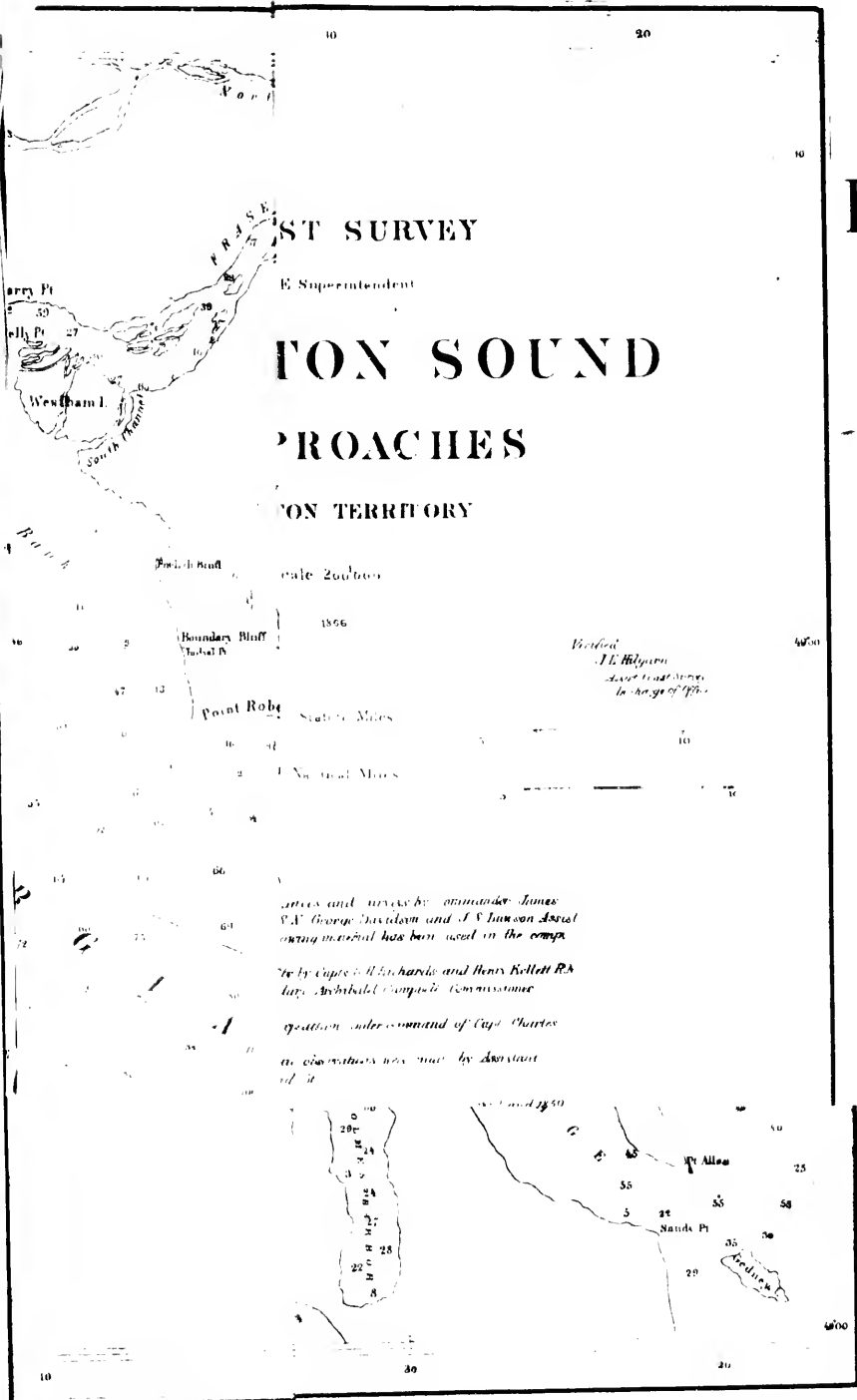
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WEST SURVEY
 ION SOUND
 PROACHES
 ION TERRITORY

E. Superintendent

Scale 20000

1856

Station Miles

Natural Miles

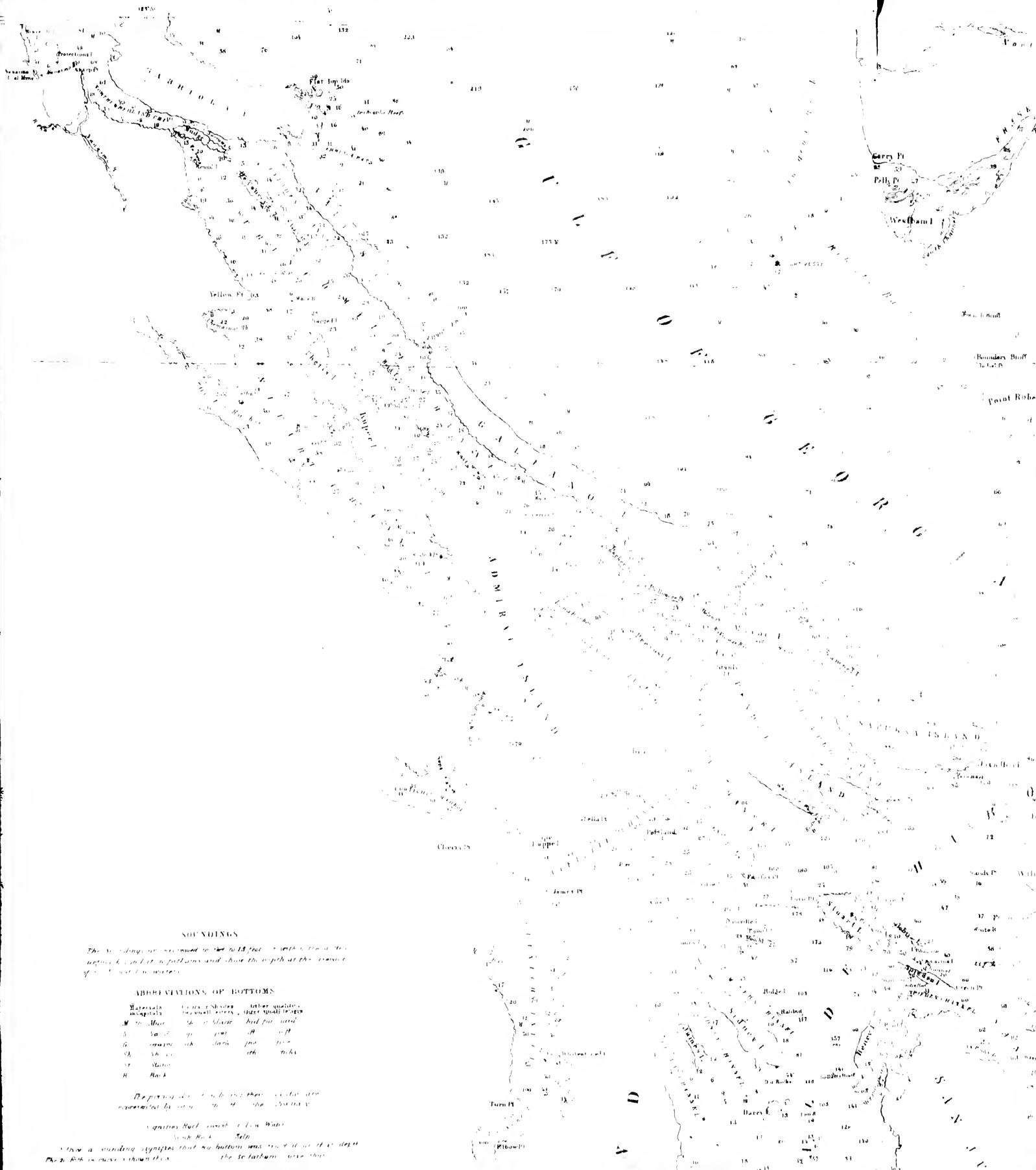
Verified
 J. H. Bellamy
 Surveyor General
 in Charge of P.M.

Traces and surveys by command of James
 W. A. George Davidson and J. S. Jackson Assist
 Survey Marshal has been used in the camp
 by Capt. H. A. Richards and Henry Kellett R.N.
 late Archibald Campbell Commission
 operation under command of Capt. Charles
 as observations were made by Assistant
 of it

Litho Th. M. Meikle in Bertha

HARRISON & SONS. PHOTO. LITH., ST. MARTIN'S LANE, W.C.

H



SOUNDINGS

The soundings are measured to the 100 feet depth, and the nature of the bottom is indicated by the letters and their position at the end of the sounding line.

ABBREVIATIONS OF BOTTOMS

M	Mud	S	Sand	G	Gravel	Sh	Shells	Stk	Sticks	W	Water
M	Mud	S	Sand	G	Gravel	Sh	Shells	Stk	Sticks	W	Water
M	Mud	S	Sand	G	Gravel	Sh	Shells	Stk	Sticks	W	Water
M	Mud	S	Sand	G	Gravel	Sh	Shells	Stk	Sticks	W	Water
M	Mud	S	Sand	G	Gravel	Sh	Shells	Stk	Sticks	W	Water
M	Mud	S	Sand	G	Gravel	Sh	Shells	Stk	Sticks	W	Water
M	Mud	S	Sand	G	Gravel	Sh	Shells	Stk	Sticks	W	Water
M	Mud	S	Sand	G	Gravel	Sh	Shells	Stk	Sticks	W	Water
M	Mud	S	Sand	G	Gravel	Sh	Shells	Stk	Sticks	W	Water
M	Mud	S	Sand	G	Gravel	Sh	Shells	Stk	Sticks	W	Water

The position of the sounding line is indicated by the letters and their position at the end of the sounding line.

Signifies Red, Green, or Lead Water.

Signifies Red, Green, or Lead Water.

These sounding symbols show the bottom and the depth of the water. The letters in the sounding line show the nature of the bottom.

U.S. COAST SURVEY

D. BACHE, Superintendent

WASHINGTON SOUND
AND APPROACHES

WASHINGTON TERRITORY

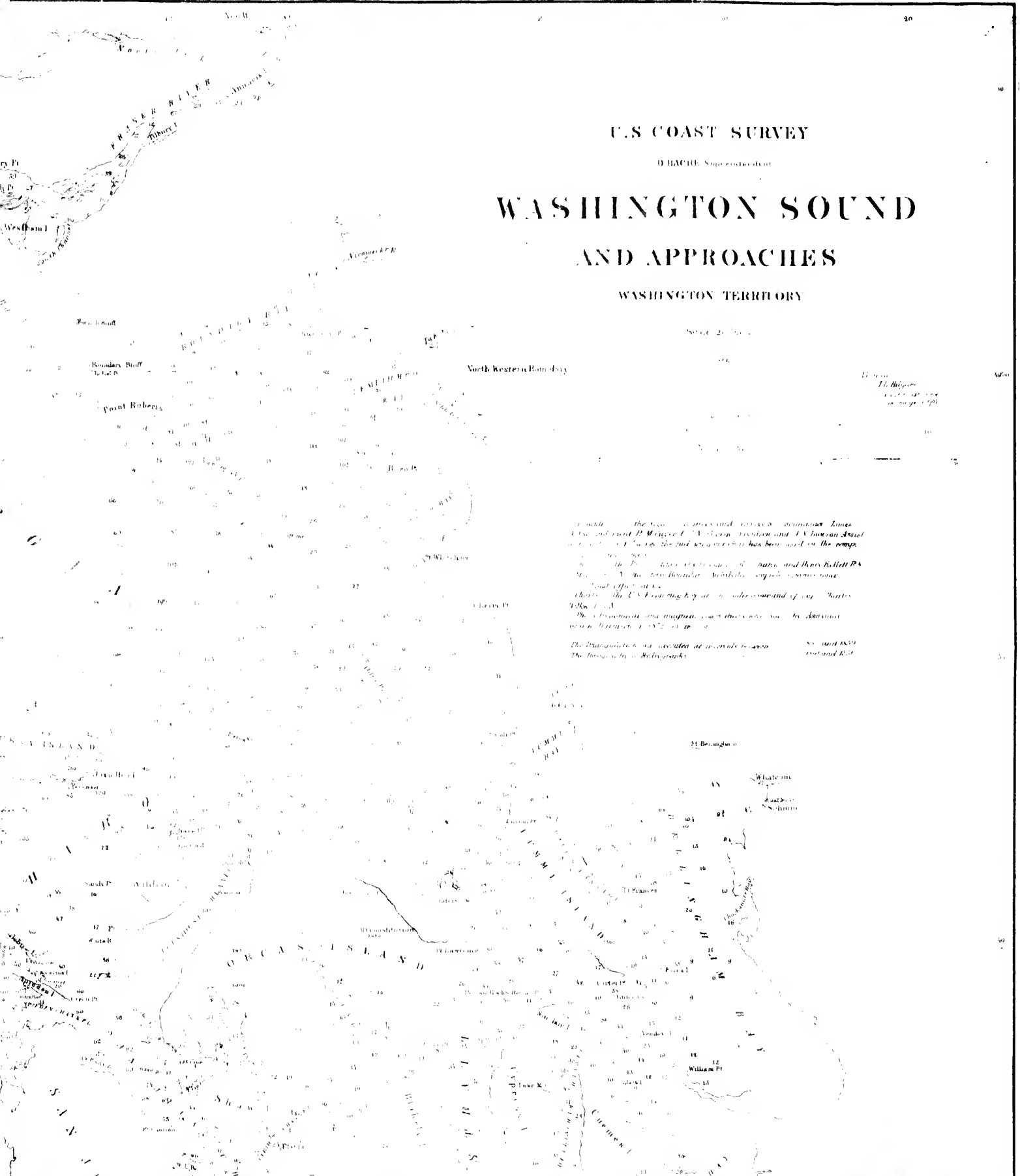
Scale 20,000

Drawn
D. B. Bacon
1857

Under the authority of the Secretary of War, James
W. Smith and P. M. Meyer, U. S. Engineers, visited and
examined the Sound and Approaches in the year 1857,
and the results of their observations have been used in the
preparation of this chart. The names of the officers and
men who accompanied them are given in the margin.
The U. S. Coast Survey is indebted to the
U. S. Army for the use of the charts and
the assistance of the U. S. Army in the
preparation of this chart.

The Sound and Approaches were surveyed by
the U. S. Coast Survey in the year 1857.

Scale 20,000
and R. S.



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sa R^a en el a
mer Piloto I

Nota
sua situacion a



STAL DEL MI

49



Pto de Bandilla

S. Juan a
de Carmona

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PLANO DEL ESTRECHO

reconocido por el Alférez de Navio de la R^a Armada D^{no} Ma
que hizo con la Balandra de S.M. de su r
la Princesa R^a en el año de
Levantado por su Primer Piloto D^{no} Gonz

Nota

Las Cruces manifiestan la verdadera situacion en que se



DE FUCA

Manuel Quimper, en la Expedición
su mando nombrada
e 1790

onzalo Lopez de Haro

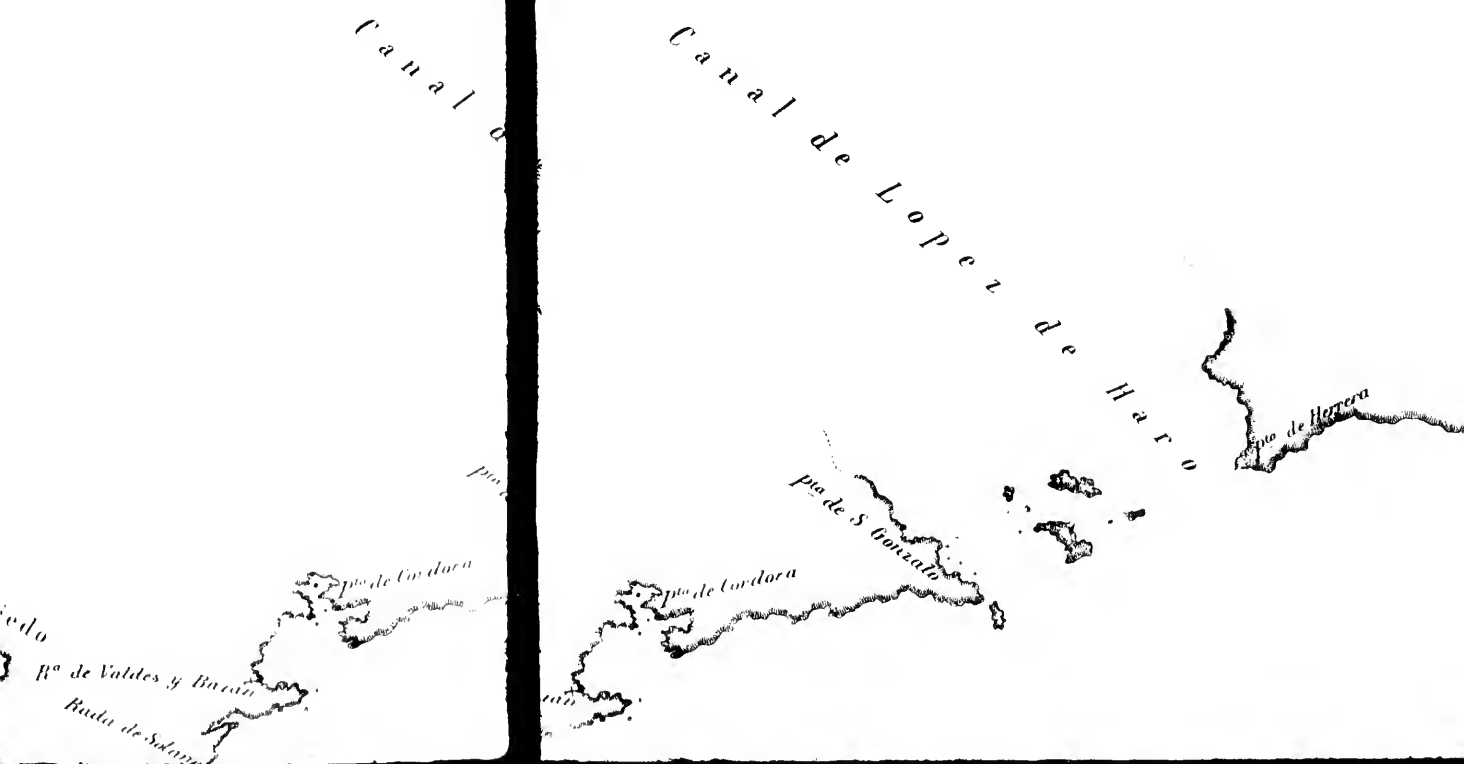
se han tomado las Posesiones

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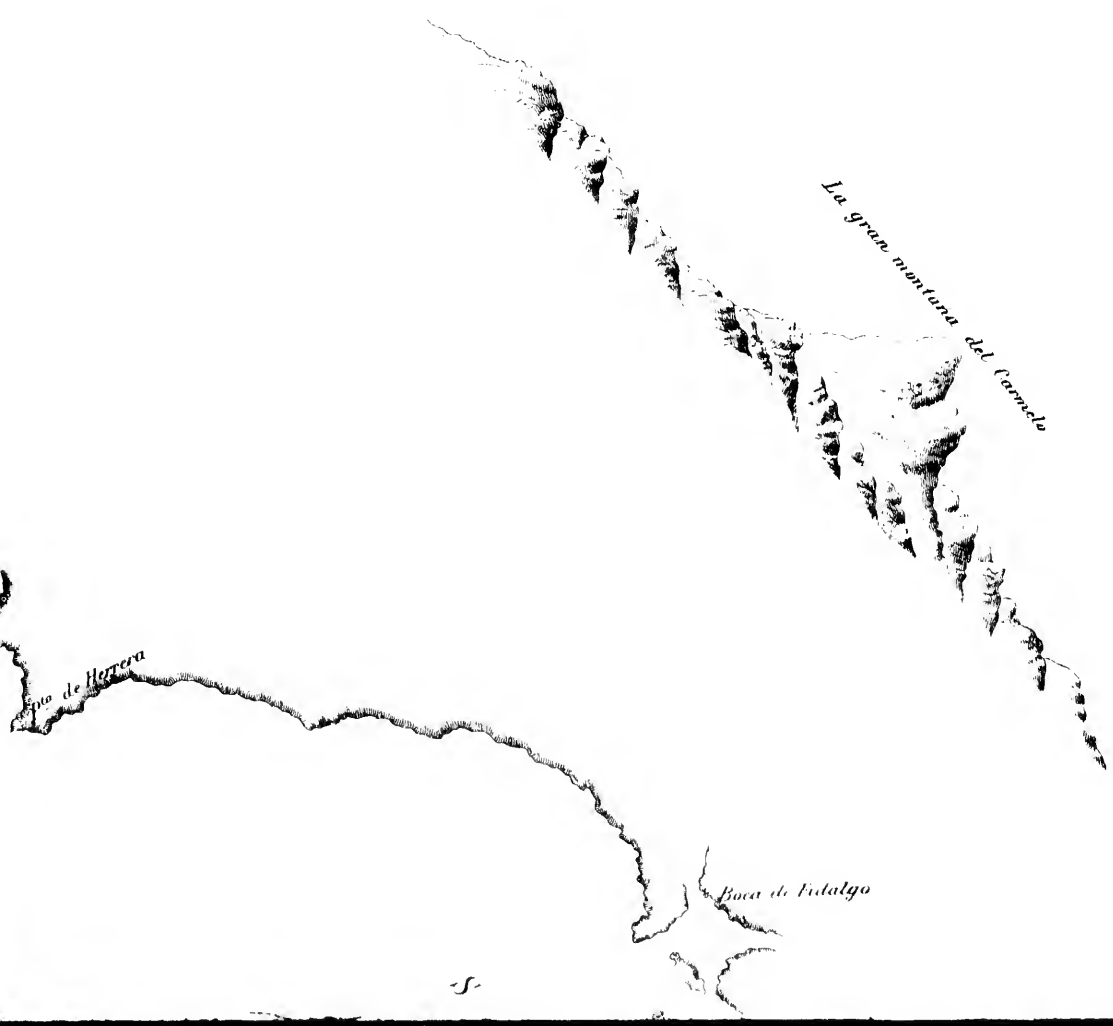
lo las Posesiones



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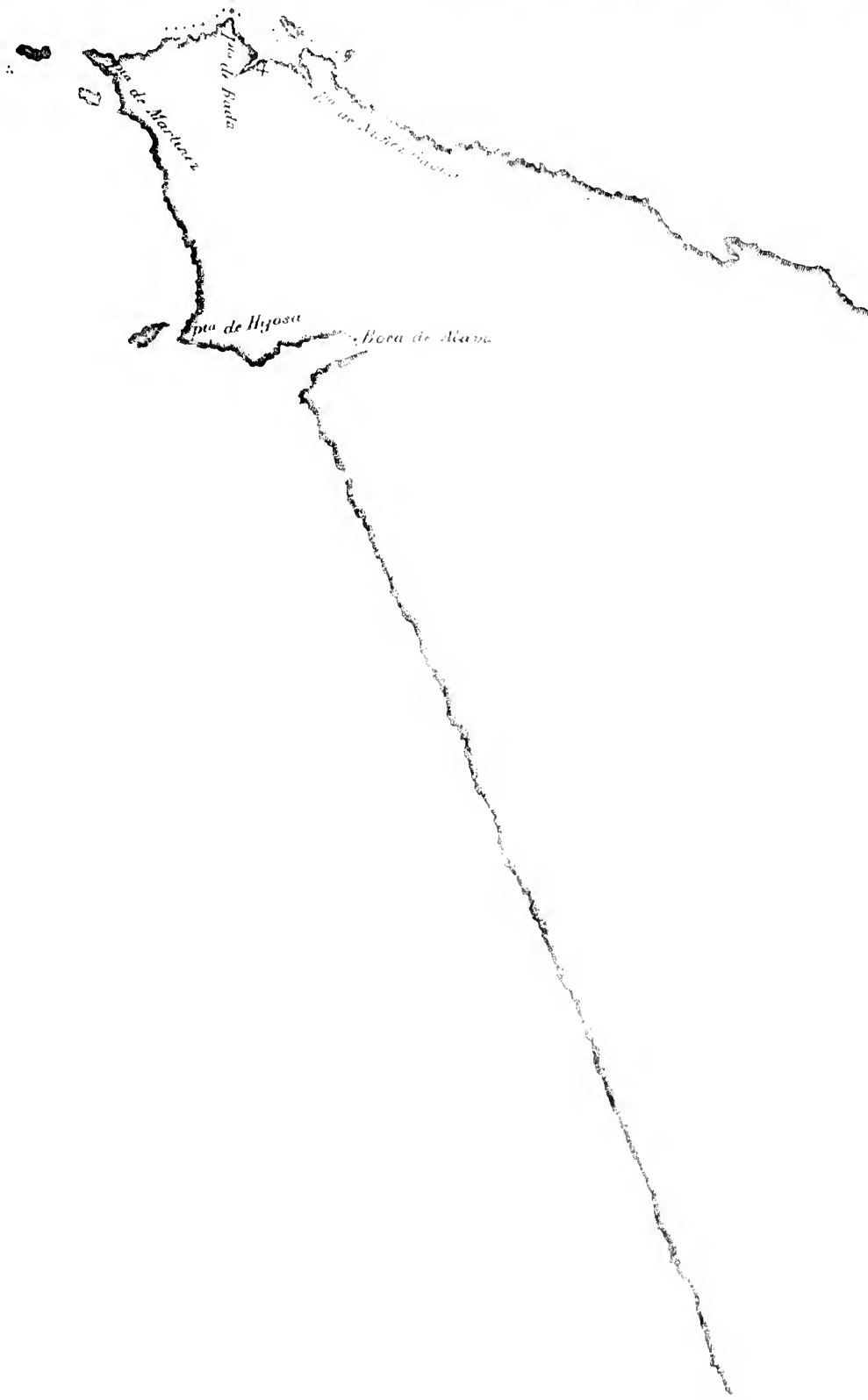
La gran montana del Carmelo

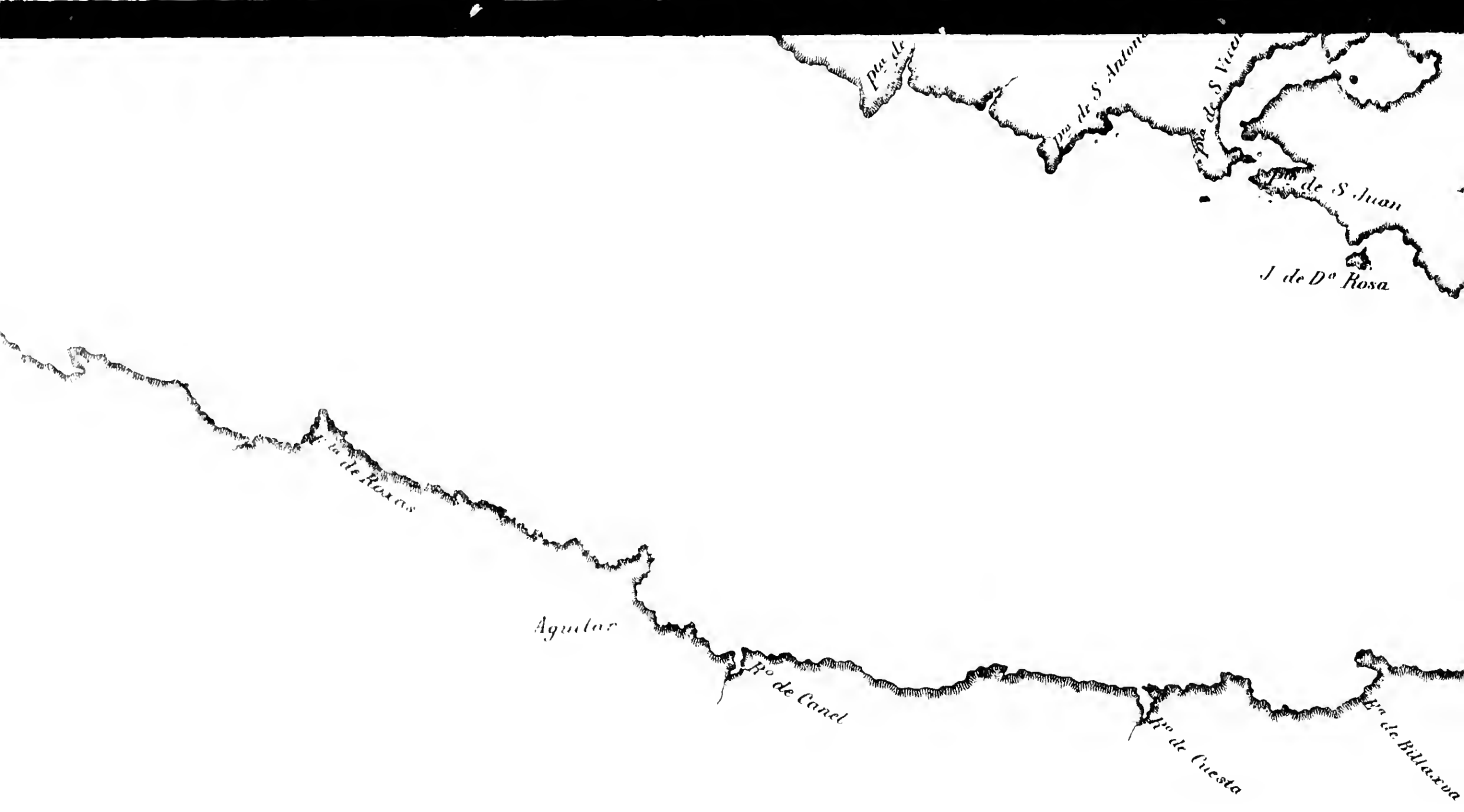
Bahia de Herrera

Bahia de Fidalgo

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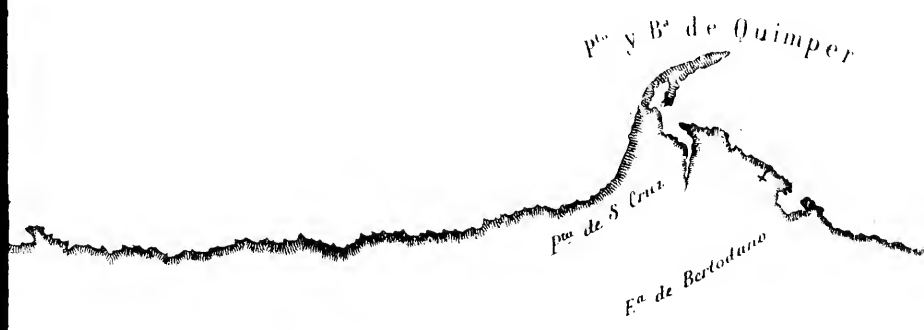
LONGITUD OCCIDENTAL DEL MERID

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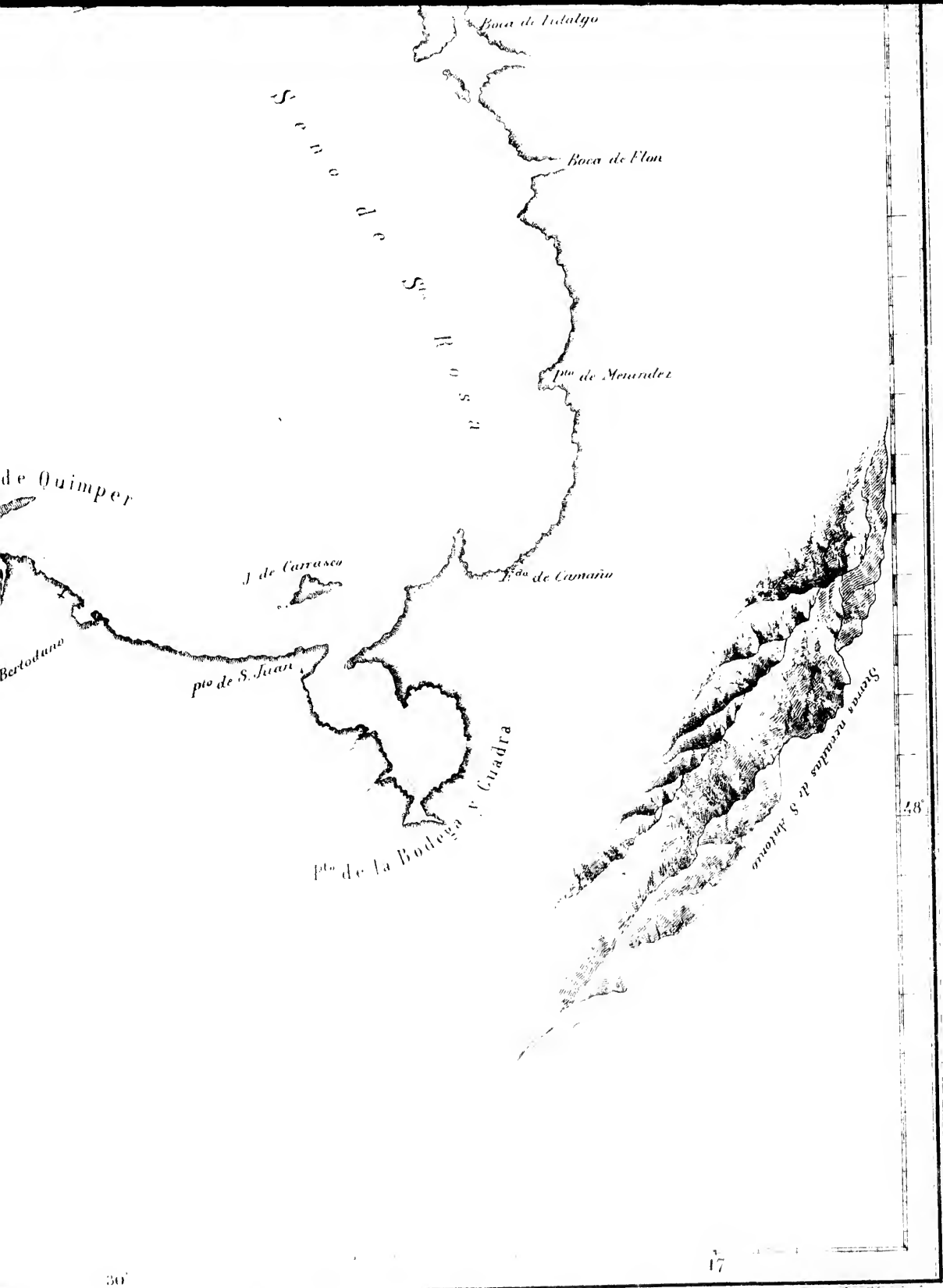
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DIANO DE S. BLAS.



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1774

Pto de Reyes

Baya de Arastizaval

Punta de San...

Fonda del Puerto

Finca de...

Bahia de Buena Esperanza

I^a de Mazarredo

Pto del Bap...

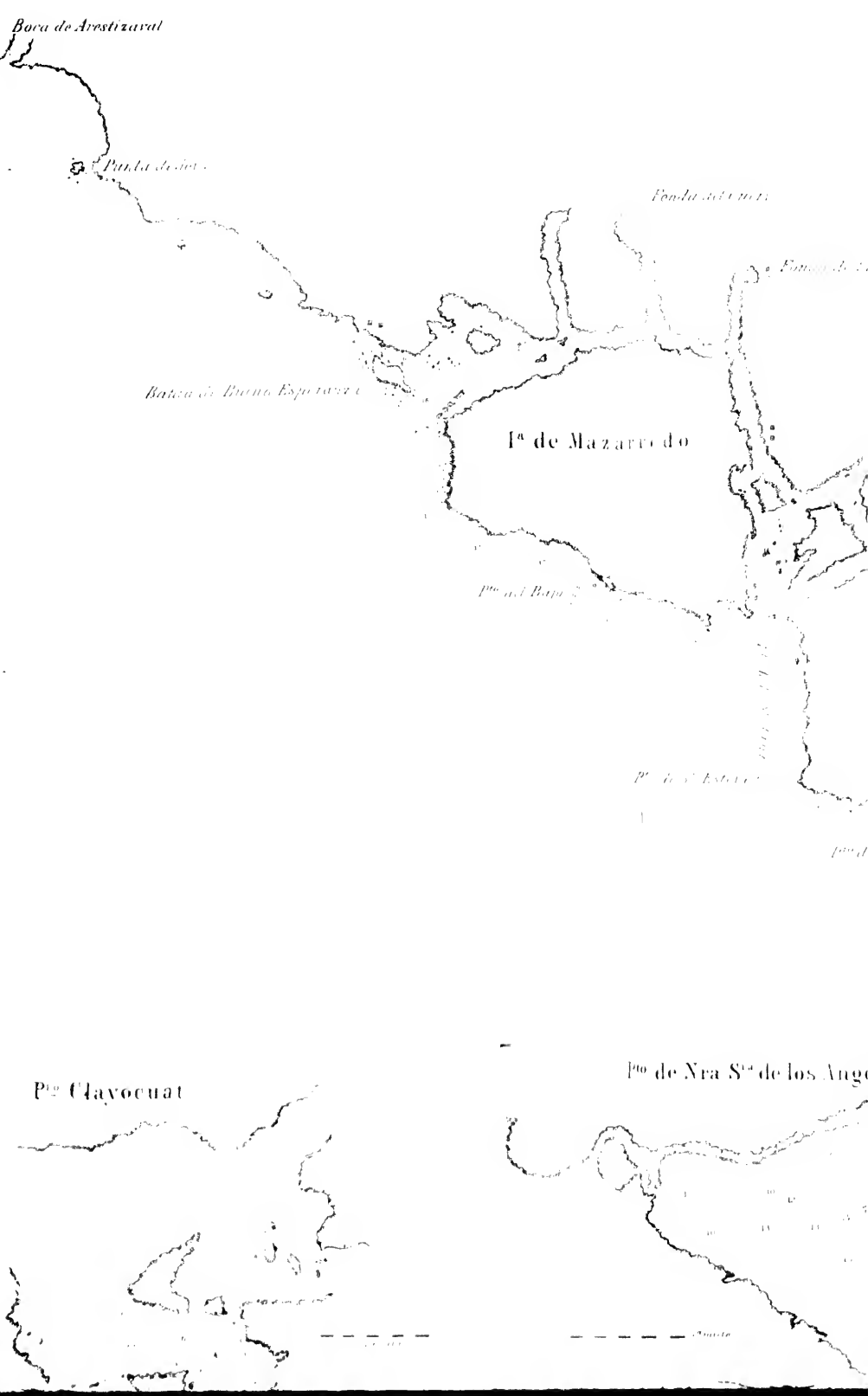
Pto de Estre...

Pto de...

Pto Clayocuat

Pto de Nra S^a de los Ange...

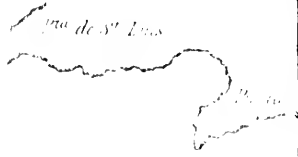
Amante



onda del mar



1. *Linea fluv.*



GRAN CANAL



2. *Boca de berrero*

Boca de...

3. *Reconditase*

Archipelago de ... a Carrasco

4. *Boca de...*

Boca de...

Albergo
Albergo

5. *Boca de...*





Pto de S^o Luis

Pto de San Mateo

Puerto de Romay

Pto de Camino

GRAN CANAL DE NUESTRO SEÑOR

I de Texada

Pto de Lorenzo

Banco de Valdes

Pto de S^o Tomar

Pto de la Cruz

Archipelago de Nitiaba u Carrasco

Albany
Albany

Carta que com

los interiores y veril de la Costa desde los 48' de latitud
 mento por el Teniente de Navio de la R^a Armada D^{no} Fern
 S.M.S^{no} Carlos del porto de Cononnes y Golita S^{no} Saturnin

Y descubierto nuevamente el Gran Canal de Nuestra S^{ra}
 al Meridiano de S^{no} Blas y a la ultima observacion Astronomia
 en este ano de 1791 por el Cap^{no} de Navio de la R^a Armada de
 Corubas de S.M. la Descubierta y Alveida, hechas estas cosas con

Nota

1^a Que los puertos donde se denota Ancla, indica su buen timbre 2^a Que
 estas son Rancherías de Indios y las Derramas del mismo. Por que tienen
 tembrados 3^a En los Puertos que comprehende esta Carta se ha ob
 de la conjuncion y Opuscion a las 12^{as} de la tarde



que comprende

de los 48' de latitud N hasta los 5' (examinados escrupulosamente)

R^a Armada D^{no} Fran^{co} Eliza Comandante del Paguebot de

y Golita S^{ta} Saturnina (Aguas de las Indias)

Canal de Nuestra Señora del Rosario arregladas sus longitudes

observacion Astronomica hecha en esta Puerto de la S^{ta} Cruz de Nueva

de la R^a Armada D^{no} Alejandro Malaspina Comandante de las

hechos estos reconocimientos en este año de 1791

Nota

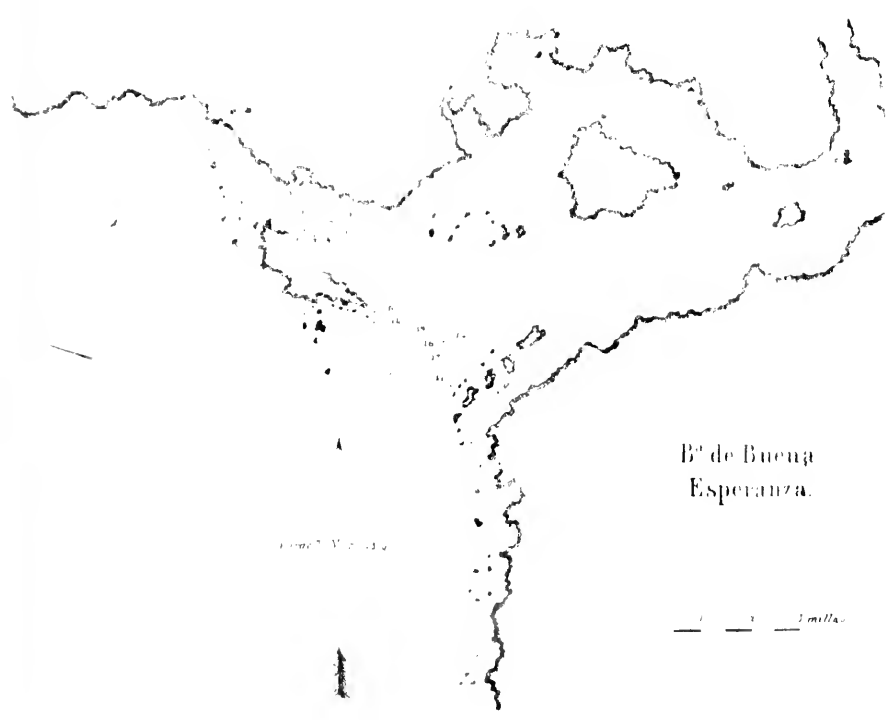
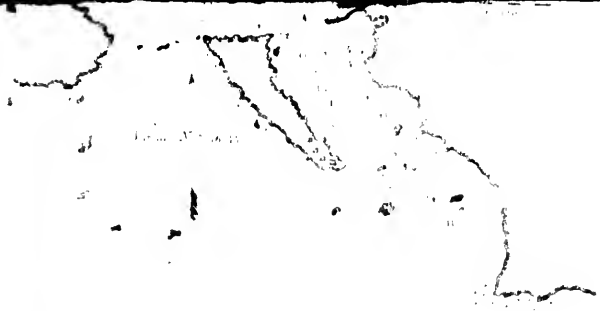
hecho sea buen tendero 2^o Los quetzales de Guayaquil estan a 2^o el vent de la

del mismo color que tienen los Paños son los que se deben ejecutar para

debiendo esta Carta se ha observado desde el 1^o de marzo al día

a las 12^{as} de la tarde





- P
- A C
- B C
- C C
- D C
- E C
- F H
- G H
- H C
- I H
- K E
- L C
- M H

B' de Buena
Esperanza.

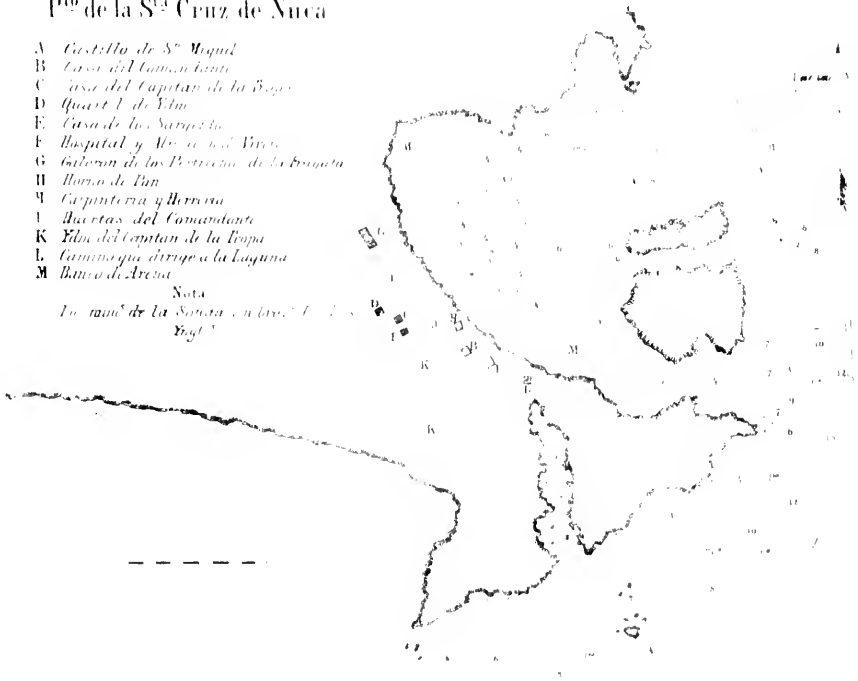
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Longitud Oc

Pto de la S^{ta} Cruz de Nuca

- A *Castello de S^{to} Miguel*
- B *Casa del Comandante*
- C *Casa del Capitan de la Flota*
- D *Quart. de Ylu*
- E *Casa de los Sacerdotes*
- F *Hospital y Almacén de Ylu*
- G *Galerón de las Peticiones de la Armada*
- H *Horno de Pan*
- I *Carpintería y Herrería*
- J *Buertas del Comandante*
- K *Ylu del Capitan de la Flota*
- L *Caminero que dirige a la Laguna*
- M *Banco de Arcos*

Nota
La mano de la Señora, a las 10 y 1/2 de la tarde



Longitud Occidental del Meridiano de San Blas

1 7 10

1 7

Leucor

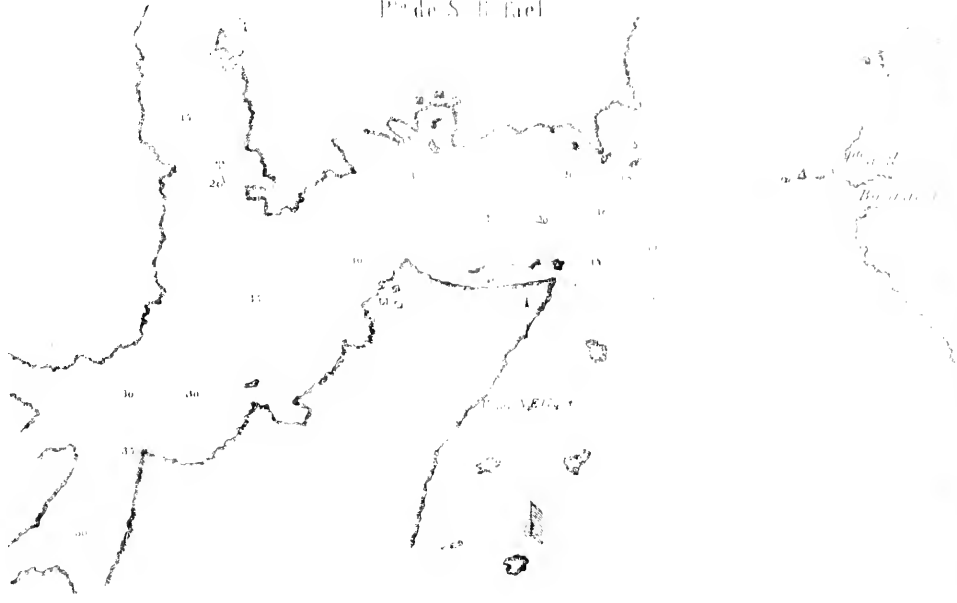
10 10

10 10

10 10

10 10

Pt de S. Rafael



Scale bar

20

10



pt. de St. Barthelemy

pt. de St. Martin

pt. de St. Jean

pt. de St. Louis

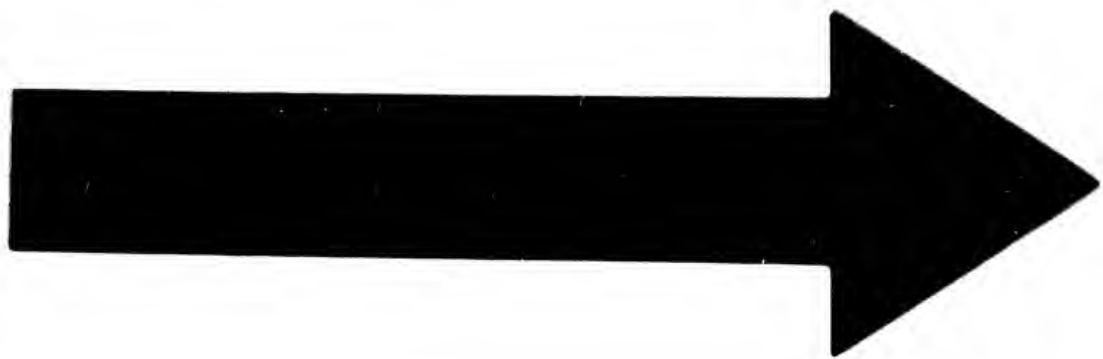
pt. de St. Louis

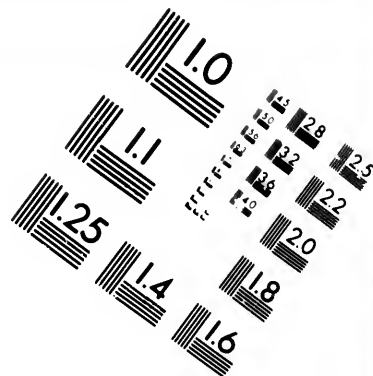
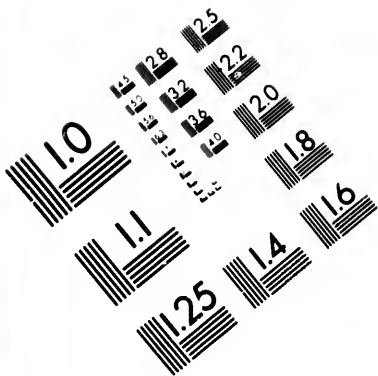
Bay of St. Louis

Bay of St. Martin

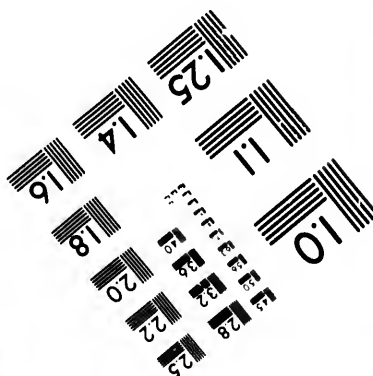
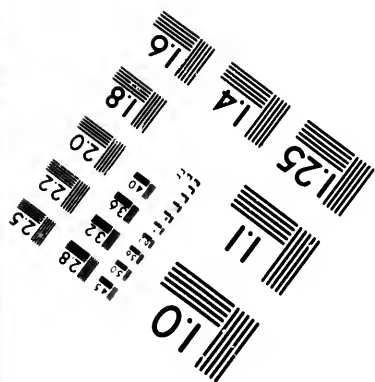
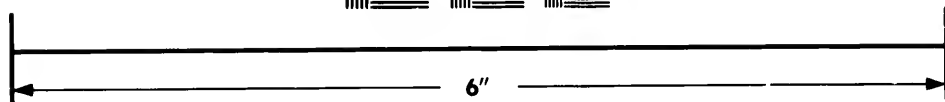
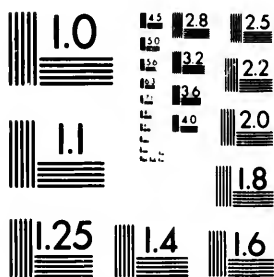
F.S.







**IMAGE EVALUATION
TEST TARGET (MT-3)**



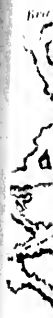
**Photographic
Sciences
Corporation**

23 WEST MAIN STREET
WEBSTER, N.Y. 14580
(716) 872-4503

1.5 1.8 2.0 2.2 2.5 2.8

10

11
24



11

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11

DEL

249

3

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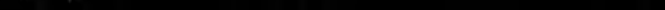
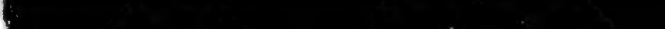
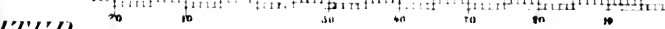
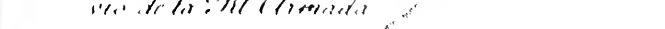
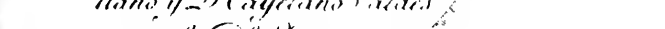
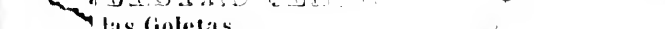
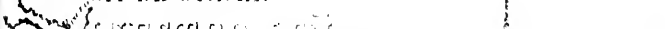
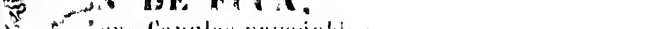
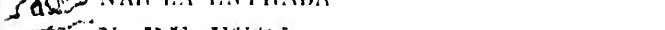
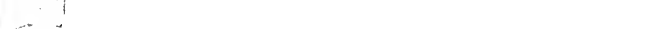
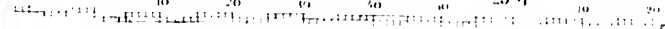
40

50

254

60

70



A ESFERICA
 pientos hechos en 1792
N.O. DE AMERICA
 PAR LA ENTRADA
N DE FUCA,
 sus Canales navegables
 A DE ORDEN
 DE VUESTRO SEÑOR
 las Goletas
MEXICANA

Dono y Director D. Cayetano Valdes
vico de la Real Armada
 DE 1795

DE

NOTA

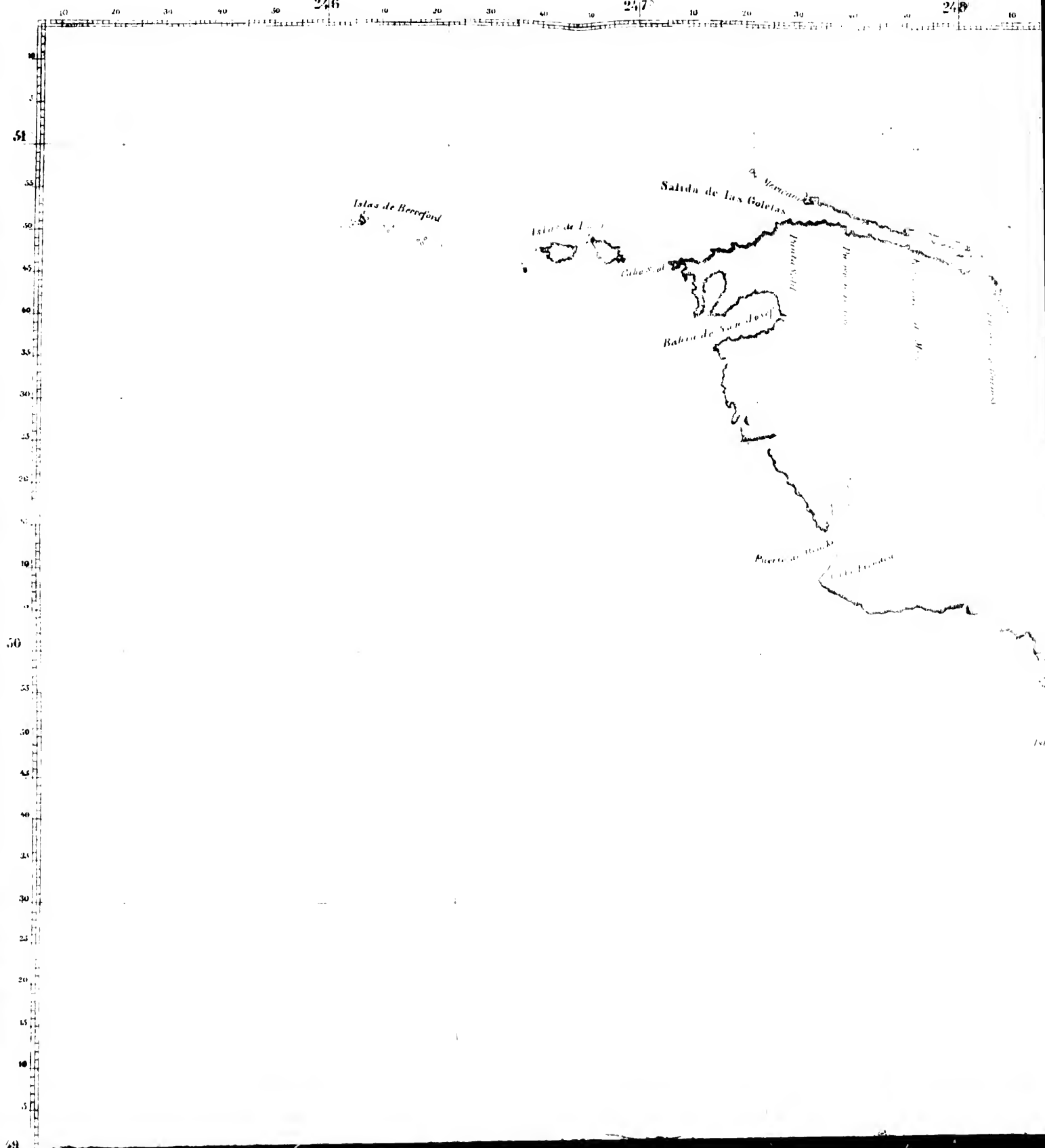


1795

116

116

Lith. huet w. H. Metzke. Berlin 1842



LONGITUD DEL MERIDIANO DE TENERIFE

240

249

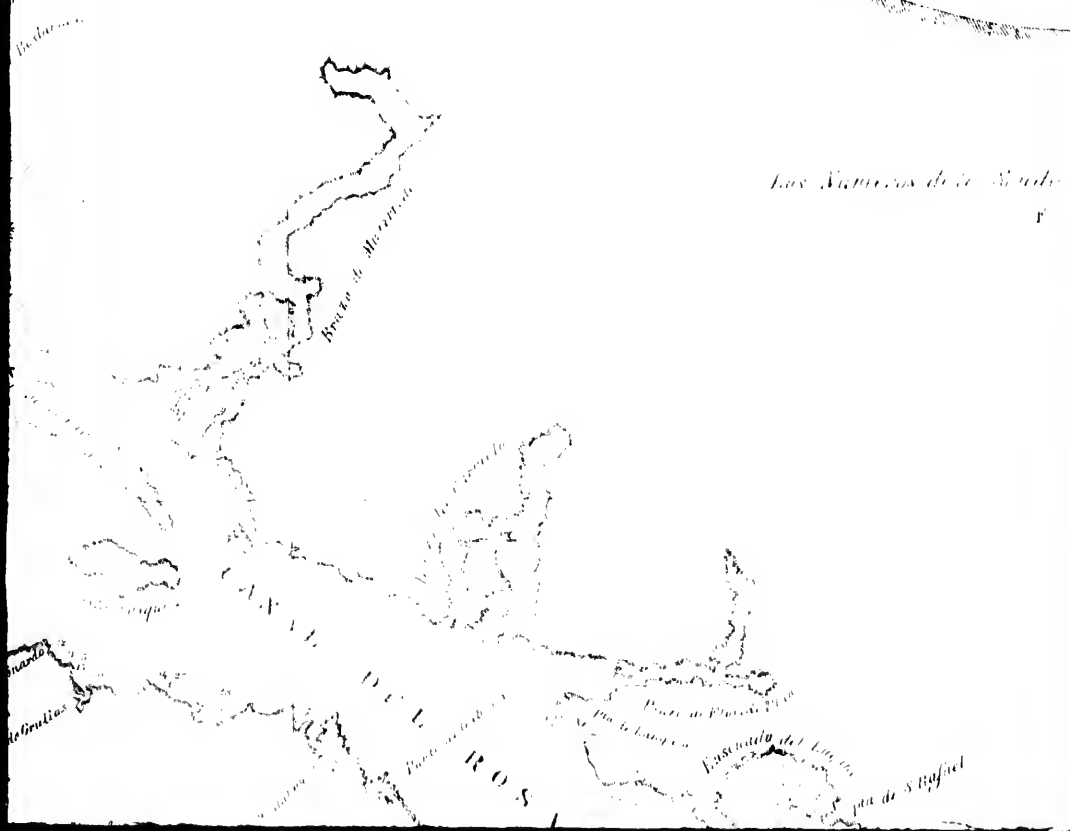
250

251



CARTA
de los reconocimie
EN LA COSTA M
PARA EXAMINA
DE JUAN
y la internacion de sus
LEVANTADA
DEL REY NU
abordo de las
SUTIL Y MI

Por D. Dionisio Galia
Capitanes de Navio
AÑO DE



Los Nombres de los Puertos
F. m.

25 3°

25 4

CARTA ESFERICA
 los reconocimientos hechos en 1792
LA COSTA N.O. DE AMERICA
 PARA EXAMINAR LA ENTRADA
DE JUAN DE FUCA,
 internacion de sus Canales navegables
 LEVANTADA DE ORDEN
 EN EL REY NUESTRO SEÑOR
 abordo de las Goletas
SUTIL Y MEXICANA

Dionisio Galiano y D Cayetano Valdés
 Capitanes de Navio de la R. Armada
 AÑO DE 1795.

NOTA

medios de la Sutil son de 210 as castellanas
 y de la Mexicana de 200

por de S. Rafael

L

51

50

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45

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35

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25

20

15

10

5

0

50

55

60

65

70

75

80

85

90

95

100

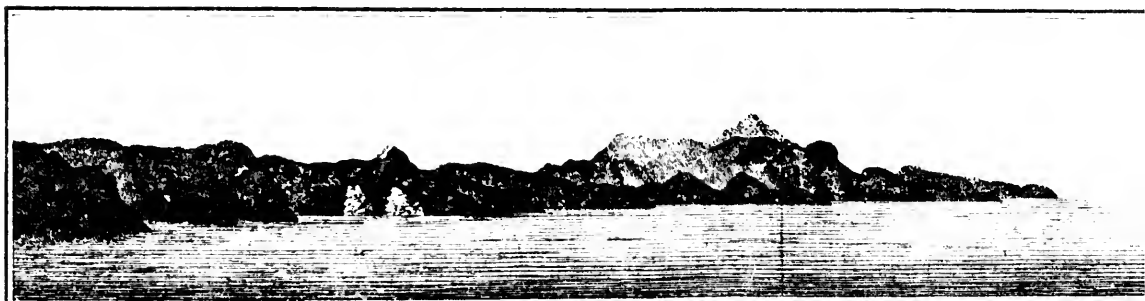
105

110

115

ADVERTENCIA

Los Geógrafos de mas nombre han asegurado desde sus gabinetes que no existia el Estrecho de los Colores. Las Cartas demuestran que aquella aseveracion es un error; asi como creer que fuese esta la entrada al Atlantico, lo qual se habia sospechado ultimamente. En la narracion del viaje de Cook se ve el origen de estas descubrimientos, et ademas se ve que en pocos meses se han practicado



Canal de la Salida de los Colores

49
55
50
45
40
35
30
25
20
15
10
5
48
55
50
45
40
35
30
25
20
15
10
5
47

10 30 40 30 20 10 50 40 30 20 10 50
12 1/2 12 3 12 2

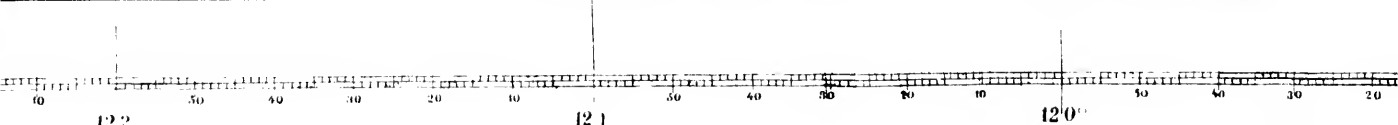


ADVERTENCIA

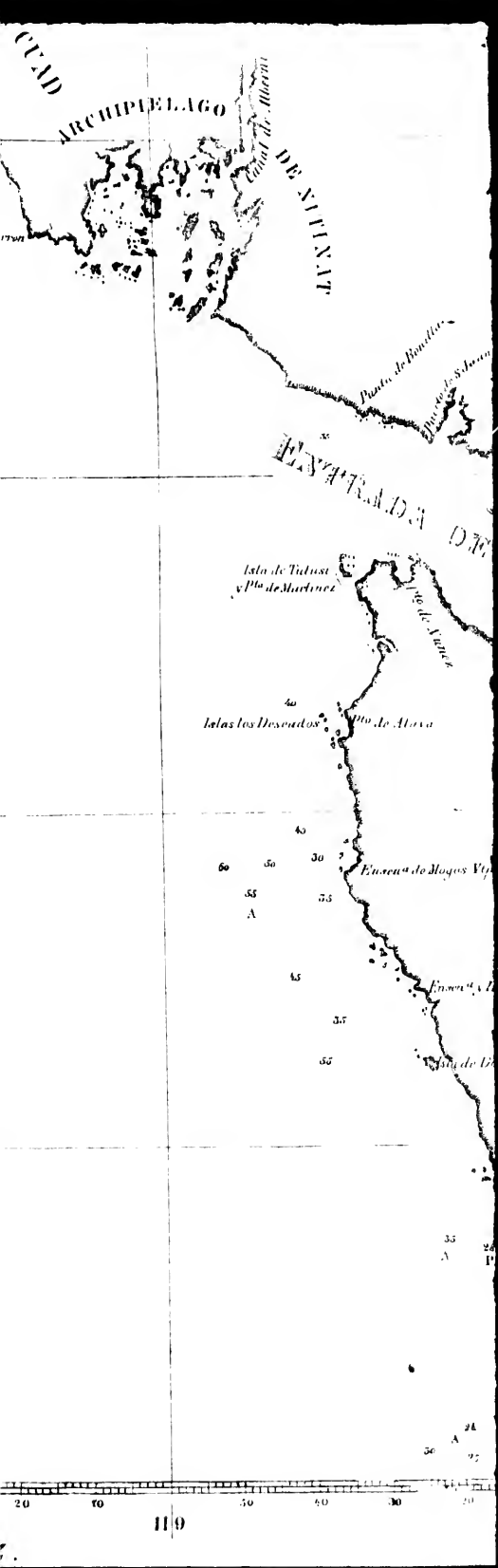
Es que no exista el Estrecho llamado de Juan de Fuca, en la Costa N. O. de America Estas
e que si se esta entrada principa de una comunicacion del mar del O de America con el mar
eracion del viaje de las Goletas Sutil y Mexicana, que esta para salir a luz, veri el Publico
os meses se han practicado y las dificultades de toda especie que ha habido que vencer p^a verificar este servicio.



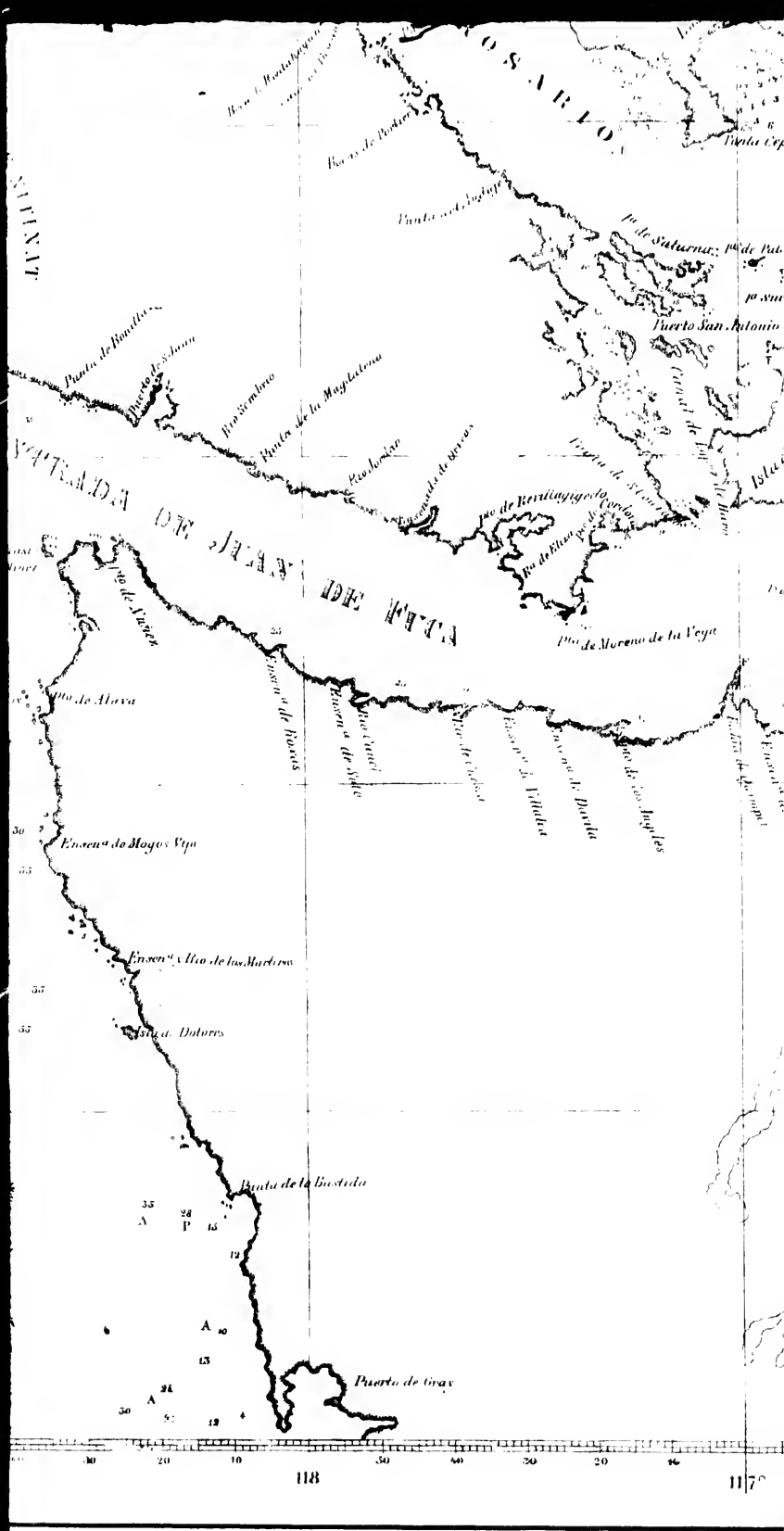
Salida de las Goletas visto al Este



LONGITUD OCCIDENTAL DE CADIZ.

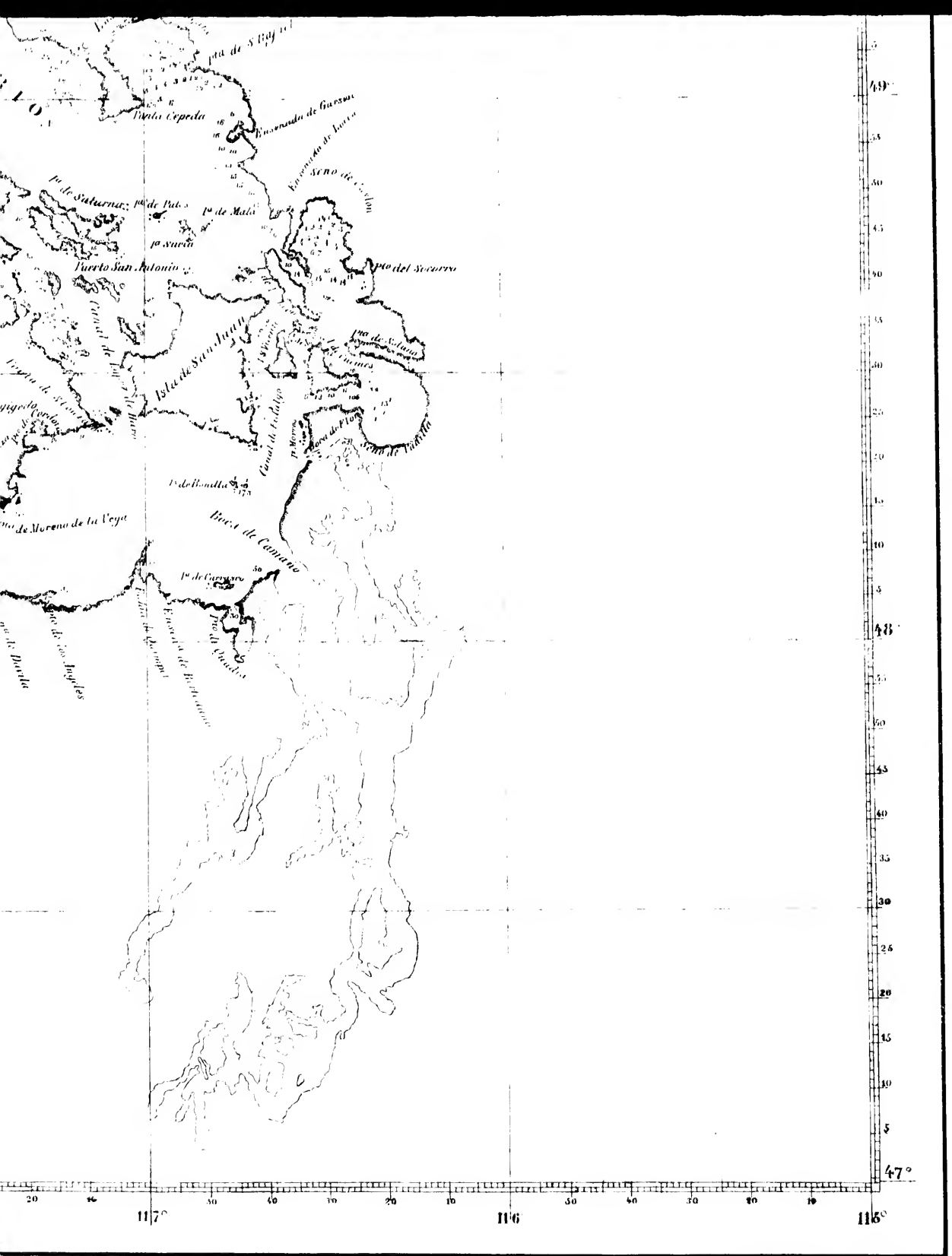


119



118

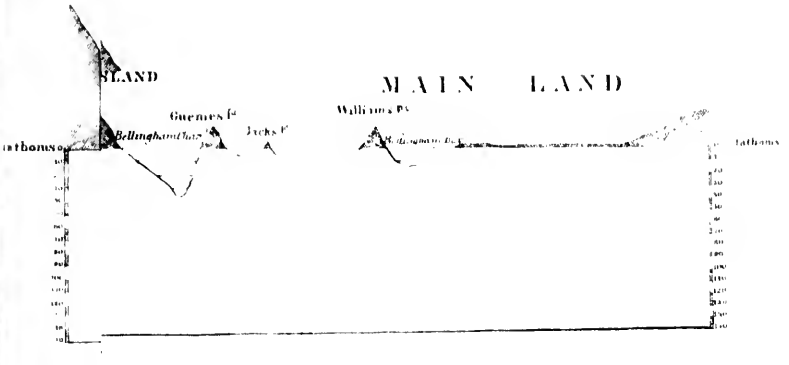
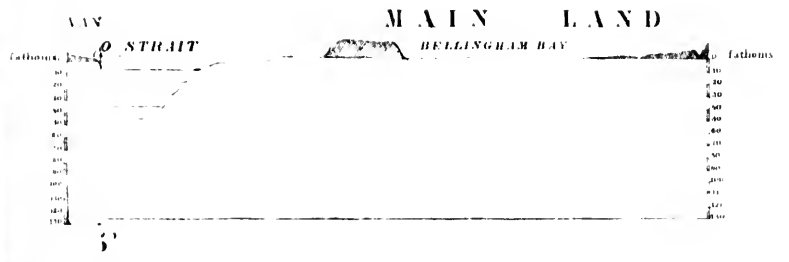
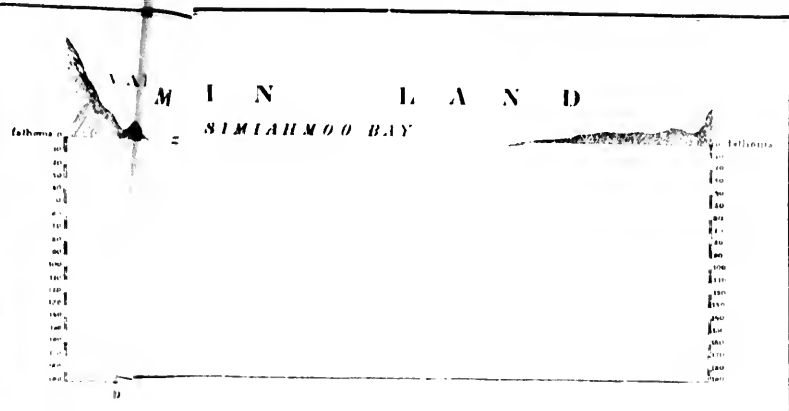
117

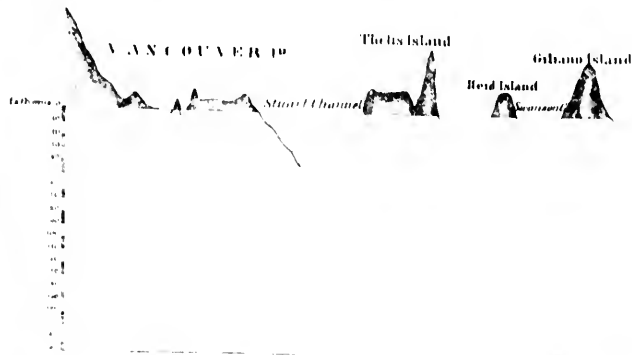


SITCD

to
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M J



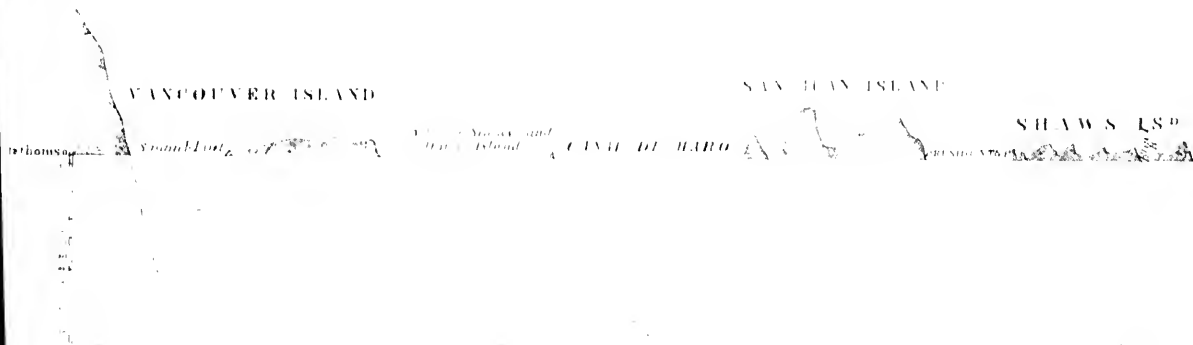


GULF OF GEORGIA

CROSS SECTION ON THE PAR



CROSS SECTION ON THE PAR



CROSS SECTION ON THE PAR

GEORGIA

M A I N L A N D

Huberts Island

SIMILAHOO BAY

Fathoms
100
110
120
130
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300

M

ON THE PARALLEL OF 19°

DEER BOUND GROUP
DEER BOUND

SUCKER GROUP
Plummet Rock

ROSEBUD STRAIT

M A I N L A N D

BELLINGHAM BAY

Fathoms
200
210
220
230
240
250
260
270
280
290
300

ON THE PARALLEL OF 18° 15'

SHAW'S ISLAND

BLAKELEY ISLAND

CYPRESS ISLAND

Garwood Island

M A I N L A N D

Williams Pt

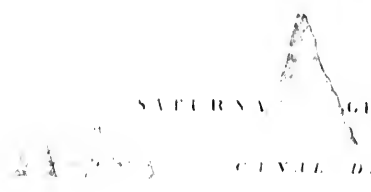
Fathoms
100
110
120
130
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300

ON THE PARALLEL OF 18° 35'

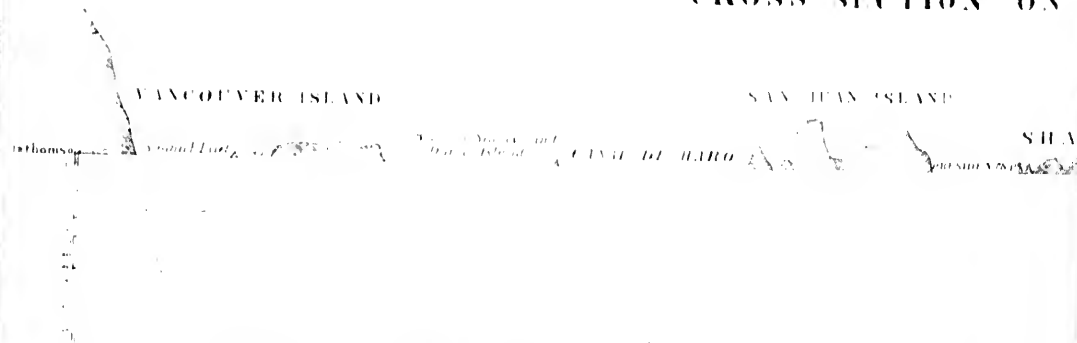


GULF OF GEO

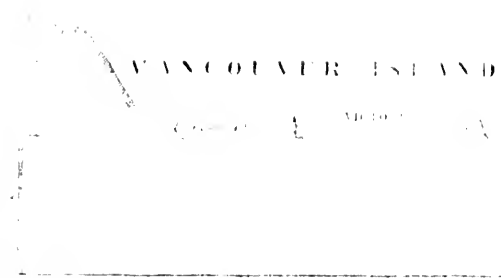
CROSS SECTION ON



CROSS SECTION ON



CROSS SECTION ON



CROSS SECTION ON

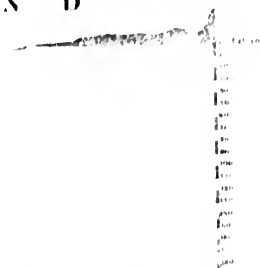
Scale

OF GEORGIA

M A I N L A N D

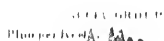


SIMLAHMOO BAY



M

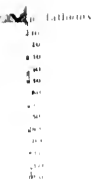
SECTION ON THE PARALLEL OF 49°



ROSARIO STRAIT

M A I N L A N D

BELLINGHAM BAY



SECTION ON THE PARALLEL OF 48° 45'



SHAW'S ISLAND

CYPRESS ISLAND

M A I N L A N D

WILSON'S Pt.



SECTION ON THE PARALLEL OF 48° 35'

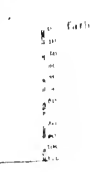


LOPEZ ISLAND

M A I N L A N D

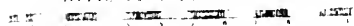
FIDALGO ISLAND

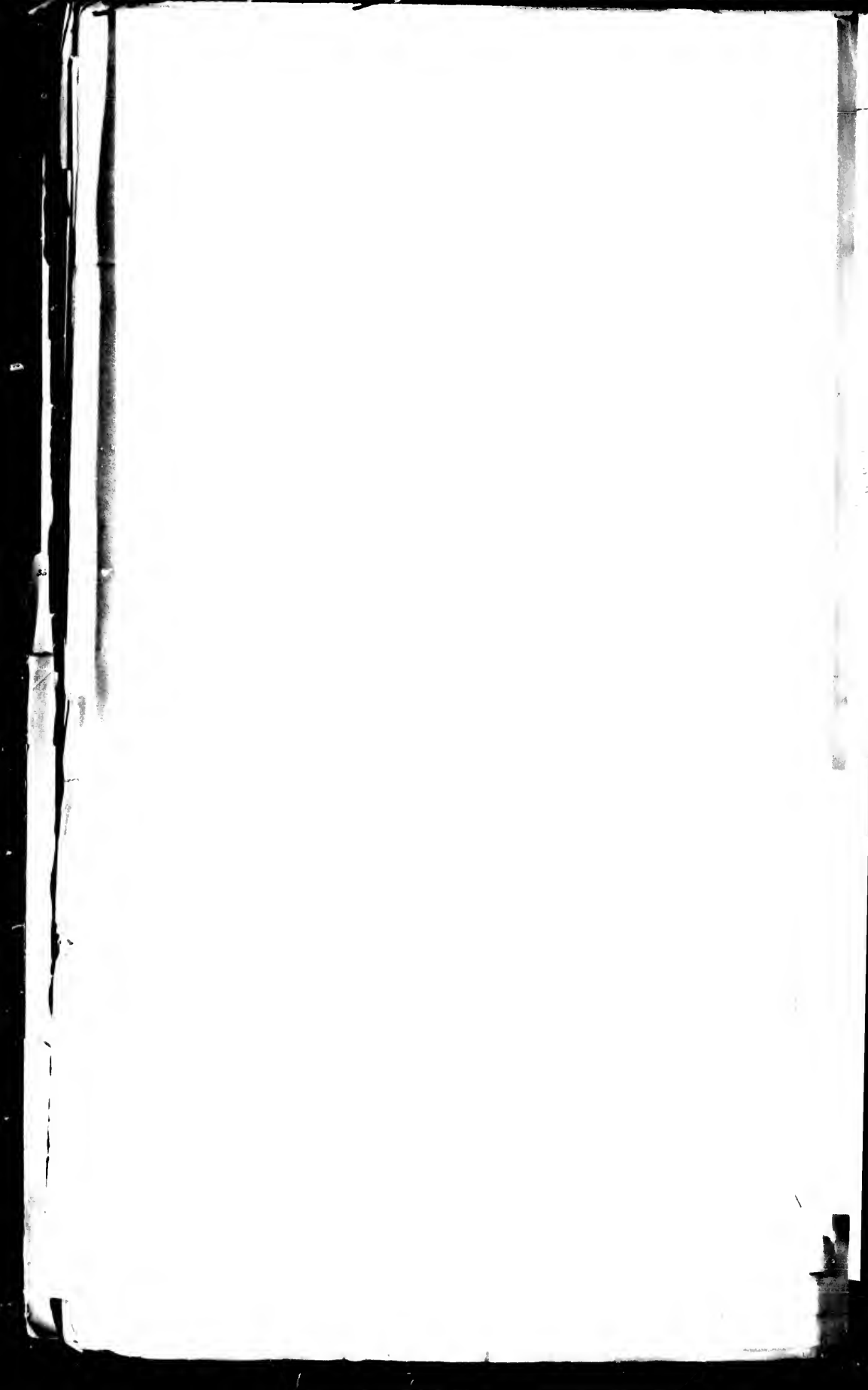
ROSARIO STRAIT



SECTION ON THE PARALLEL OF 48° 25'

Scale of Statute Miles



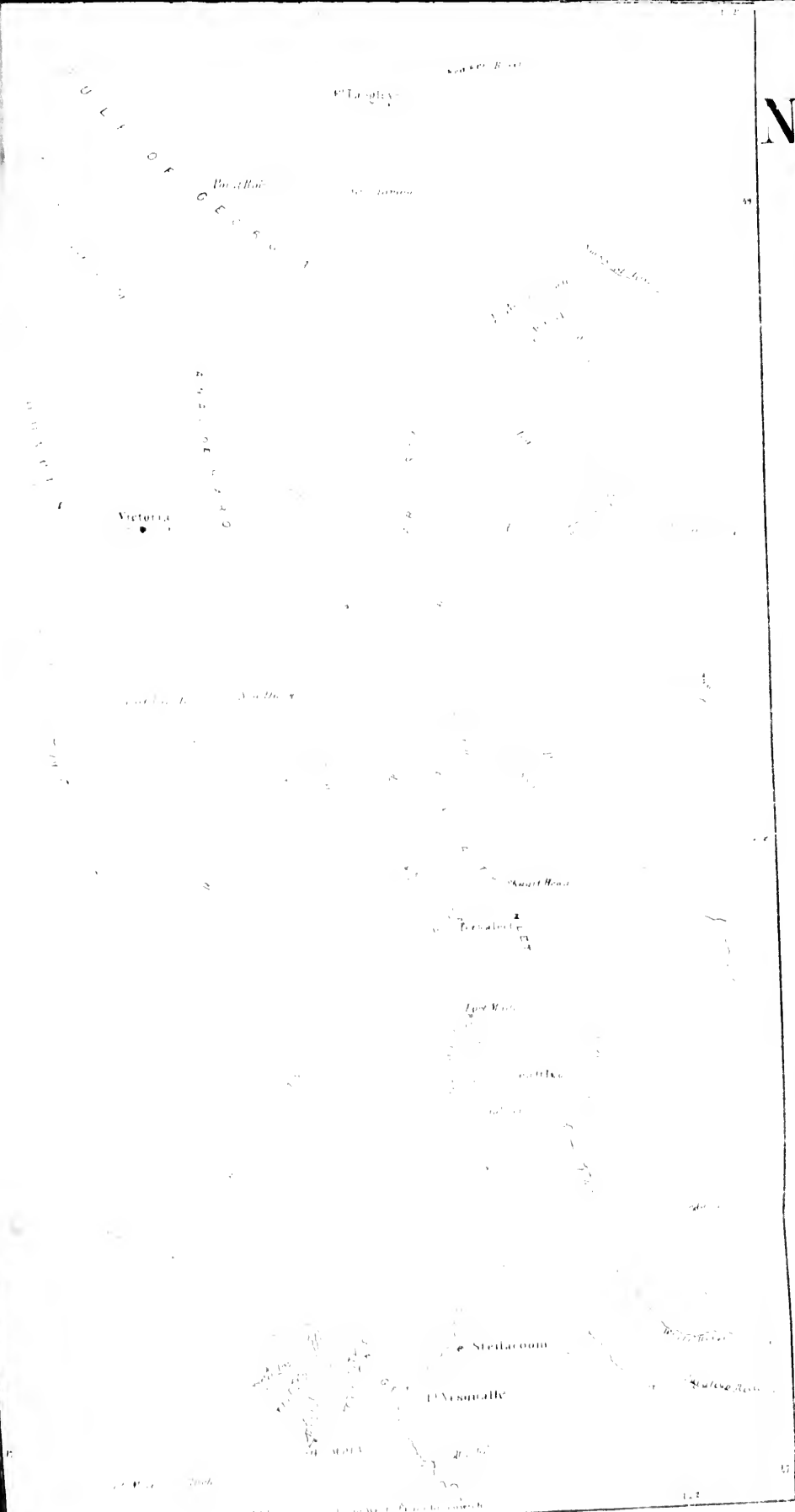




N

49

2



N

Victoria

Langley

Port Moody

Skagit Bay

Lynden

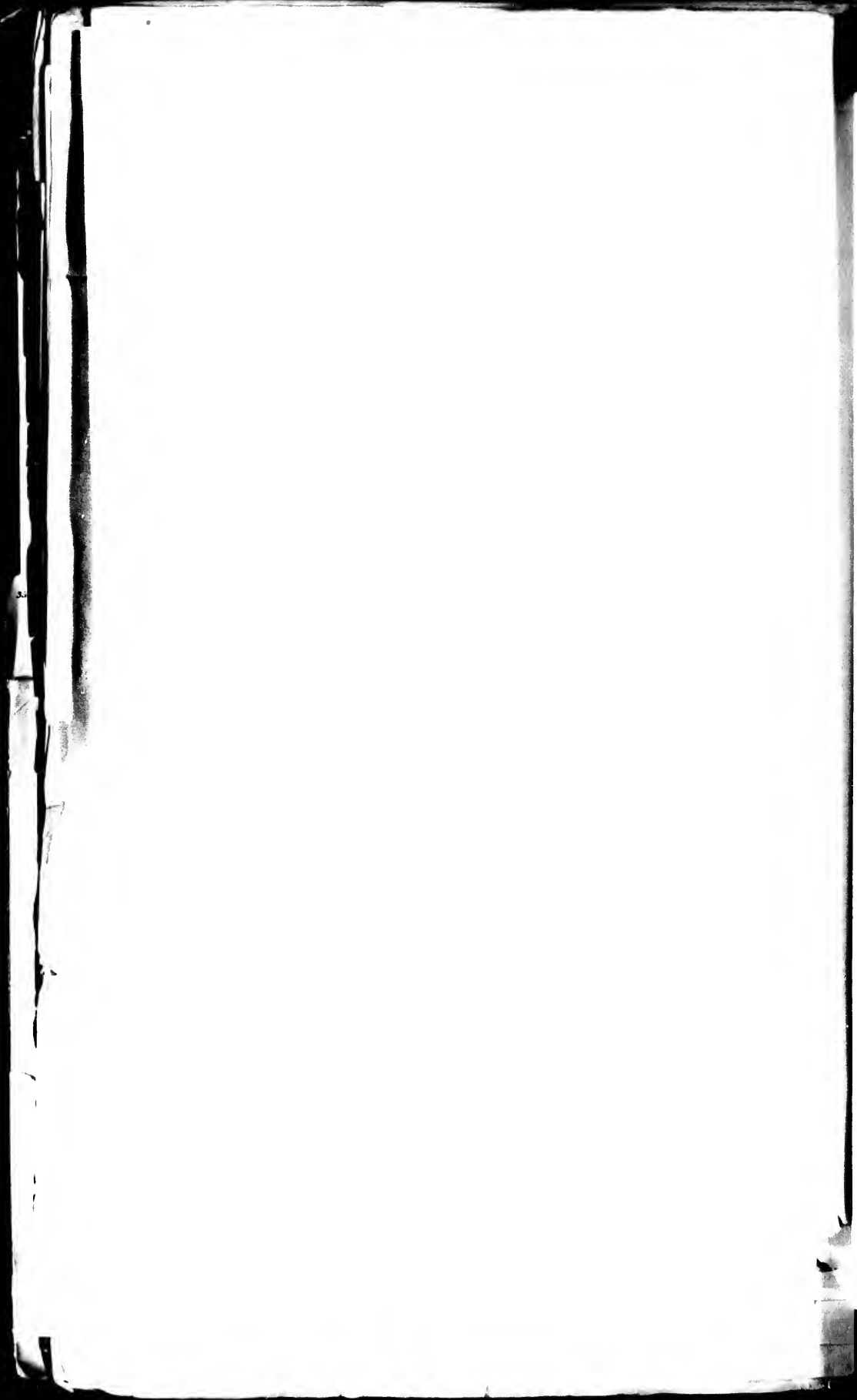
Washouak

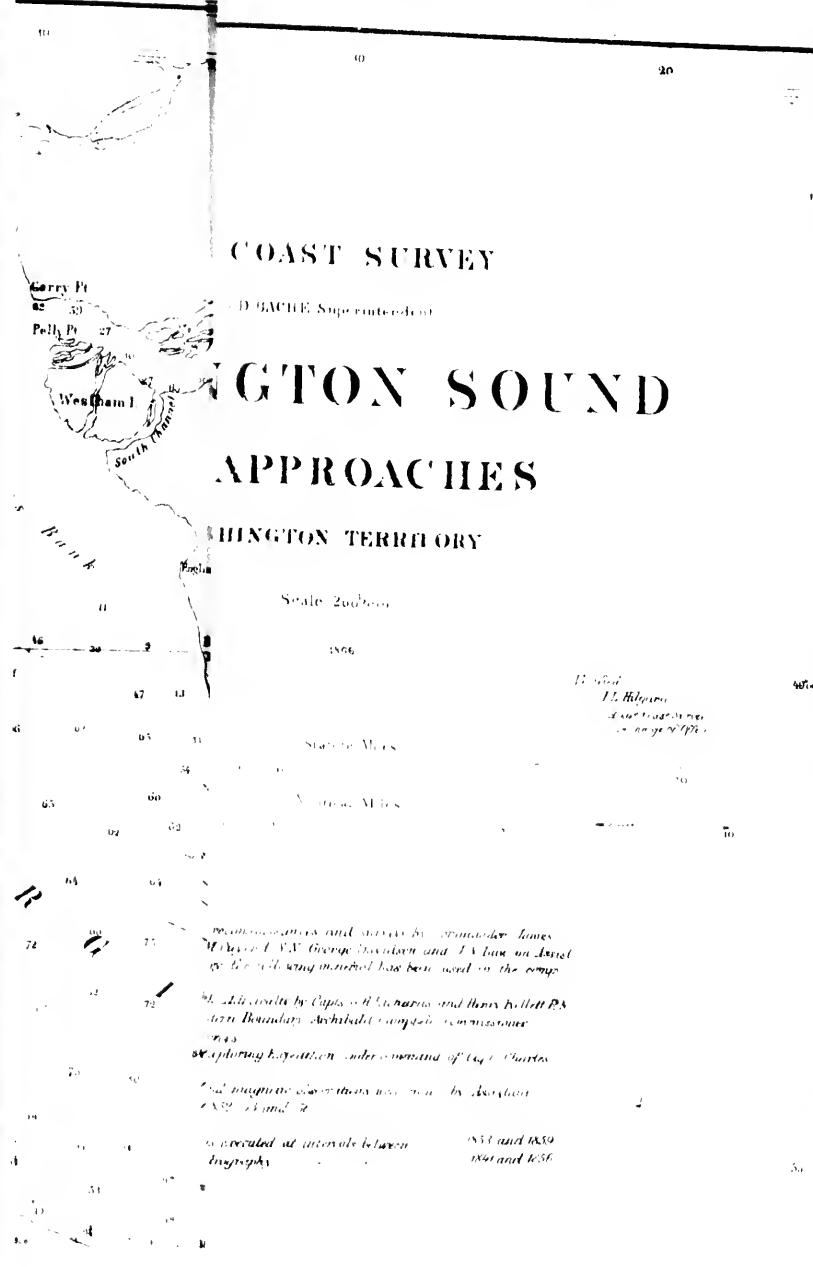
Steilacoom

Orsino

1:250,000

1:2





COAST SURVEY

D. BACHE, Superintendent

WASHINGTON SOUND
APPROACHES

WASHINGTON TERRITORY

Scale 200,000

1866

State of Meas.

Natural Meas.

U.S. Coast and Geodetic Survey

Measurements and surveys by Commander James M. Davis, U.S.N., George Davidson and U.S. Gun on board the following mentioned has been used in the comp.

1. Measurements by Capt. W. L. Garrison and three United States Boundary Archibald Campbell, Commissioner

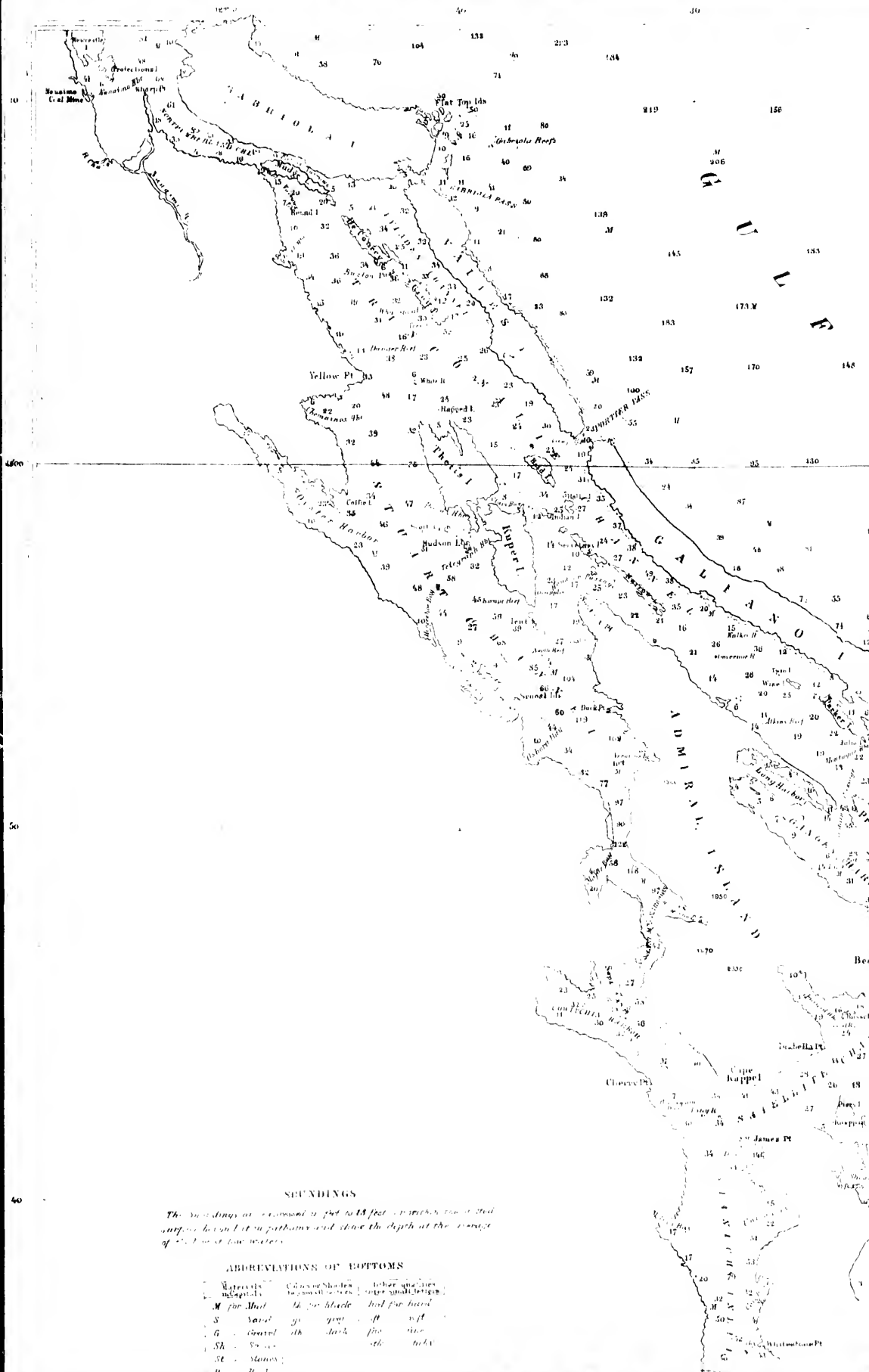
2. Exploring Expedition under command of Capt. Charles

3. Magnetic observations were made by Davidson 1857, '58 and '59

4. Sounding at intervals between 1853 and 1859 1861 and 1856

507-0

50

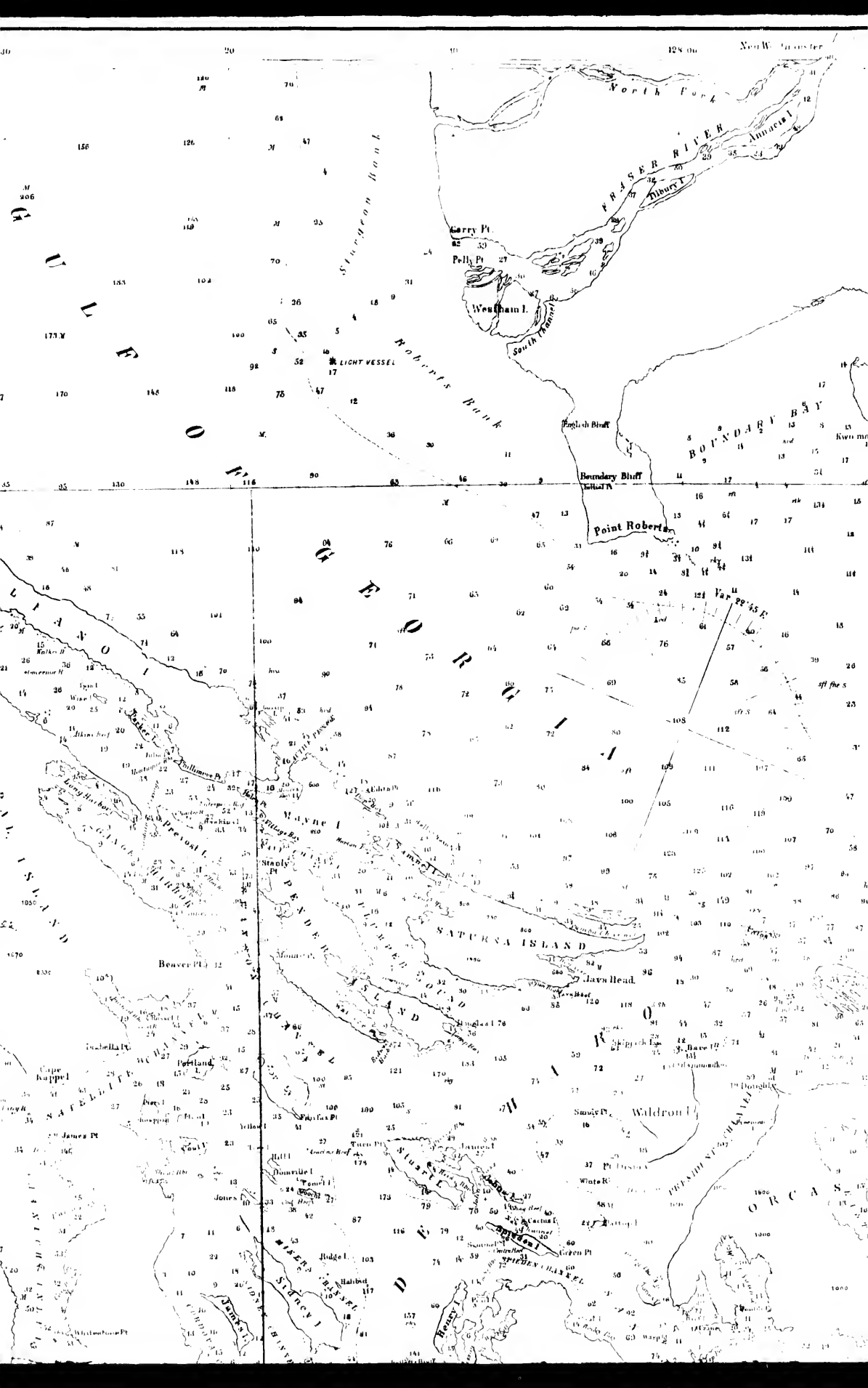


SOUNDINGS

The soundings are measured in fathoms, except where noted otherwise, and show the depth at the average of low and low water.

ABBREVIATIONS OF BOTTOMS

M	Mud	S	Sand	G	Gravel	Sh	Shells	Ck	Clay	Sl	Soft	Sp	Sp. shells	St	Stones	R	Rock
M	Mud	S	Sand	G	Gravel	Sh	Shells	Ck	Clay	Sl	Soft	Sp	Sp. shells	St	Stones	R	Rock



U.S. COAST SURVEY

A. D. BACHE Superintendent

WASHINGTON SOUND AND APPROACHES

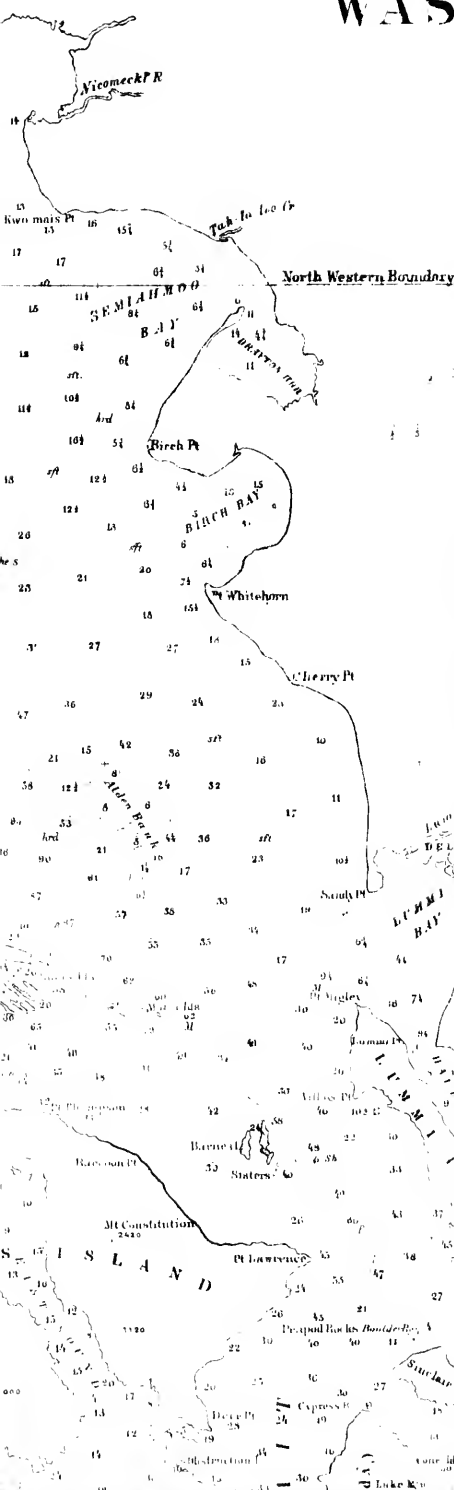
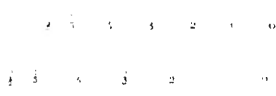
WASHINGTON TERRITORY

Scale 200' to an

1866

Statute Miles.

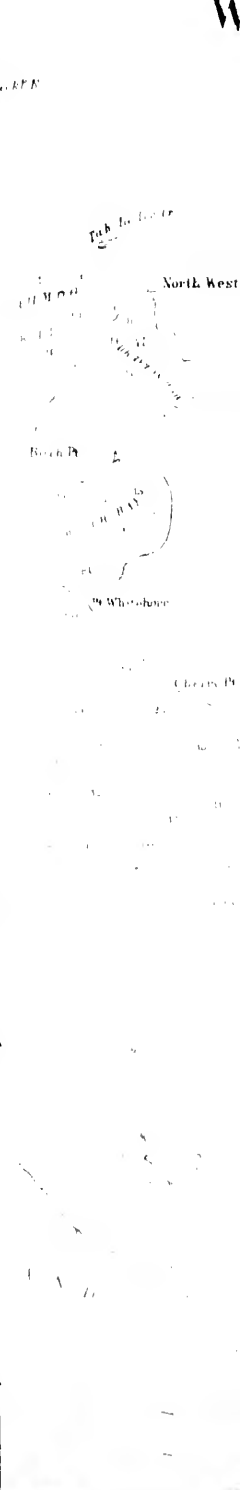
Nautical Miles.



In addition to the reconnoissances and surveys by Commodore De Aton and Lieut R. M. Meyer U.S.N. George Davidson and J. S. Lane on the part of the U.S. Coast Survey the following material has been used in the preparation of this chart: Charts of the British Admiralty by Capts. B. Richards and Alex. Kerr; Map of the Northwestern Boundary Archibald Cunningham; Commissioned U.S. Land Office Surveys; Charts of the U.S. Exploring Expedition under command of Capt. Charles Wilkes U.S.N.

The astronomical and magnetic observations were made by Lieut. George Davidson in 1859, '63 and '56.

The Trigonulation was executed at intervals between 1853 and 1861 and the Topography & Hydrography



The principal isobars of the isotherms are represented by long dashes, the secondary by short dashes.

Signifies Rock, unless in Low Water
 * Sunk Rock - Kelp

* Over a sounding signifies that no bottom was reached at that depth.
 The 20 fathoms curve is shown that - - - - - the 50 fathoms curve thus

V A S C O U V E R I S L A N D



S T R A I T O F J U A N



