

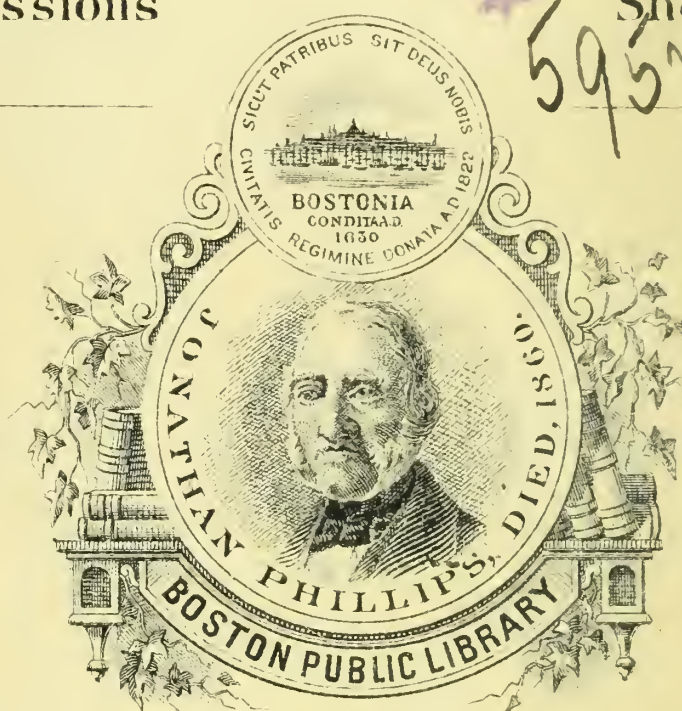
HANSEN'S  
HAND BOOK

FOR  
Puget Sound  
Southeastern  
AND  
Southwestern  
Alaska

Accessions

Shelf No.

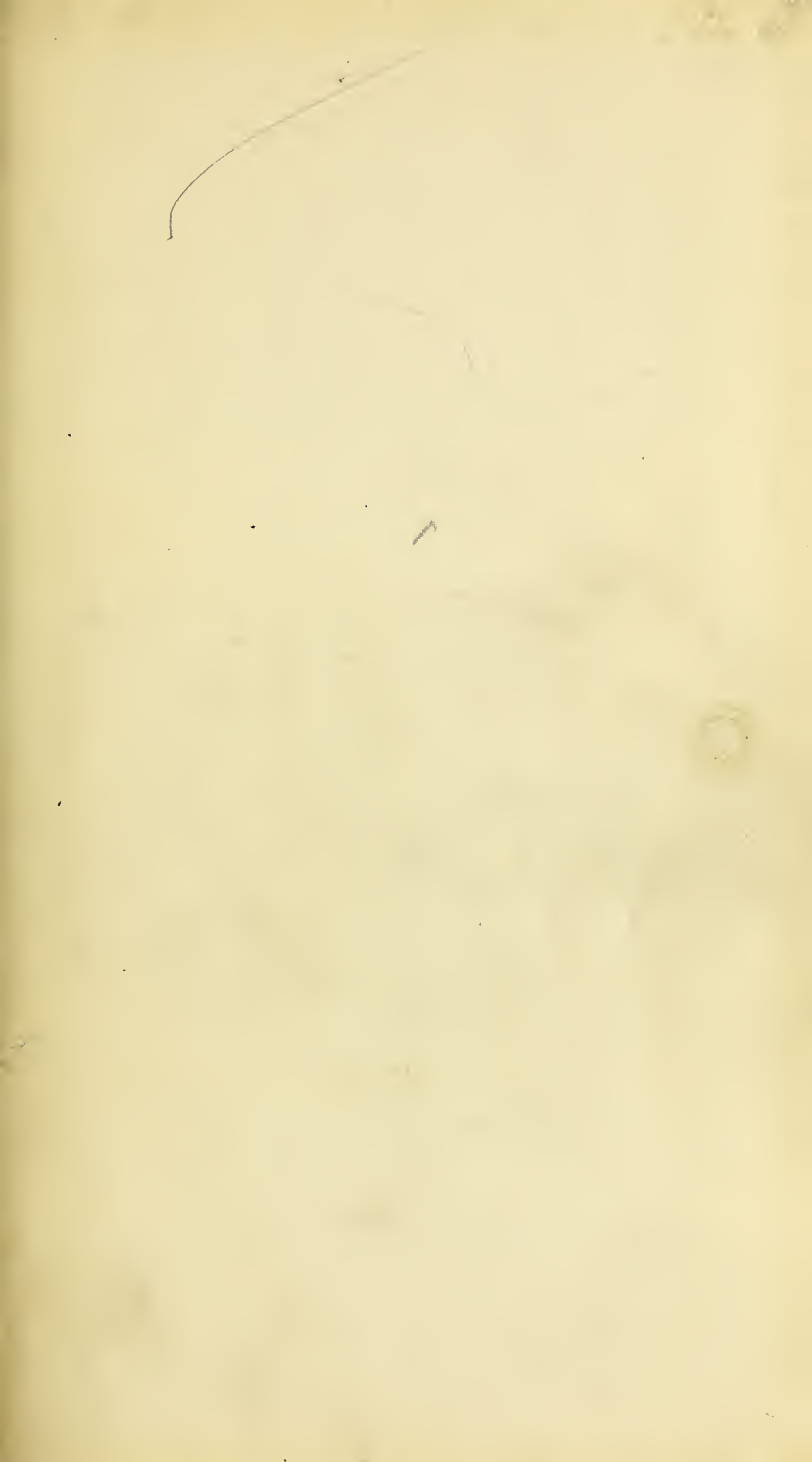
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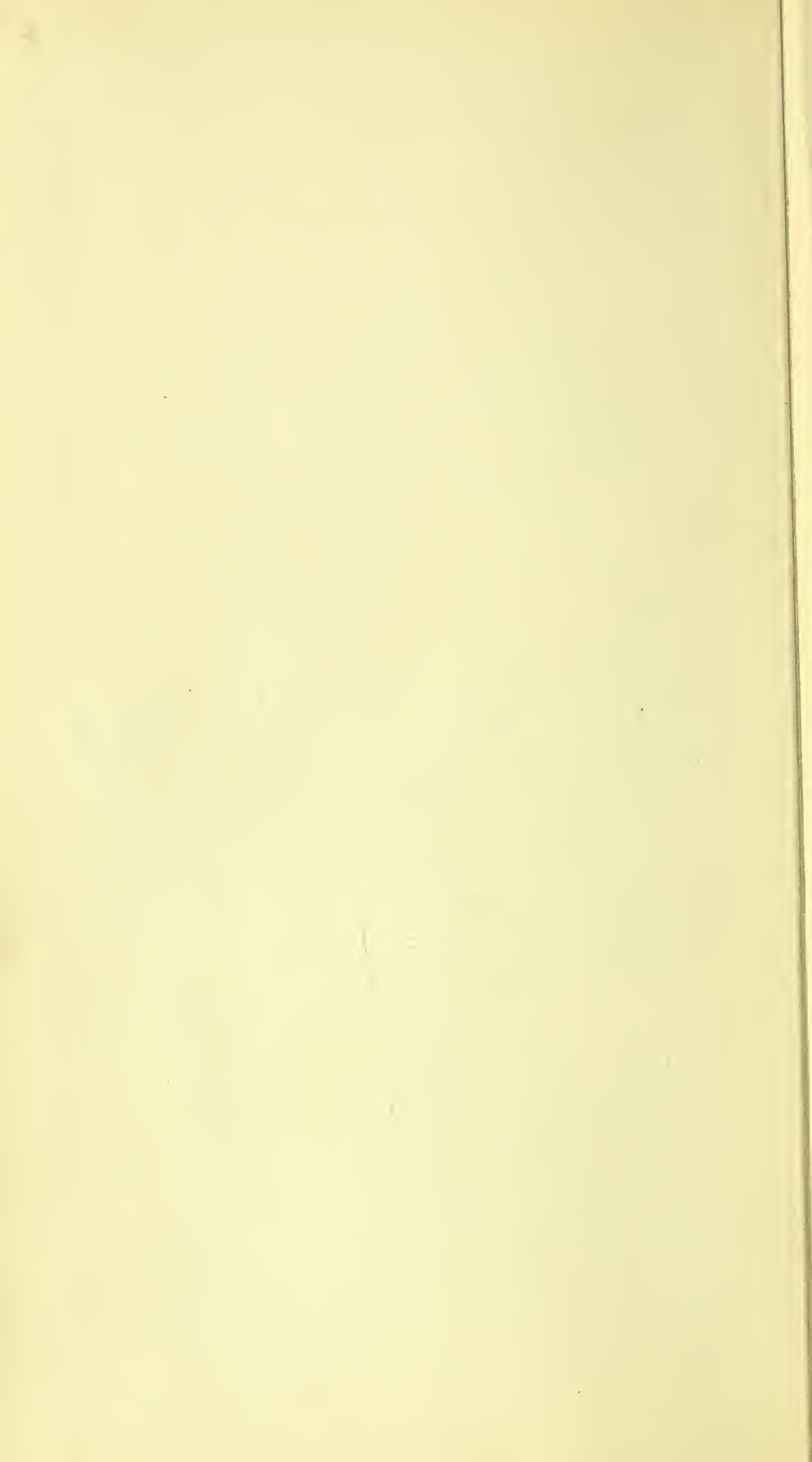


FROM THE

Phillips Fund.

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Seattle, Wash.

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SOFUS E. HANSEN  
Seattle, Wash.

*Phi.*  
*Dec 5, 1919*  
*J*

True and magnetic courses are given. All distances are given in nautical miles. In some cases a plus or minus is attached to the distance off a point or light: it indicates that the distance is something more or less. The points, headlands or lights have been taken abeam the second time in some cases; in all cases when not noted abeam the second time, the distance made in rounding is divided equally on the two courses. A number of sketches are inserted, showing the points as they should look when abeam on their respective courses; each sketch is placed directly below the point it represents. A small space is left between all points, so that anyone may insert additional sketches, or make other useful remarks. Abbreviations are used as follows: Id. stands for Island, Lt. for Light, Pt. for Point, Bn. for Beacon, Rk. for Rock, Hd. for Head, Rf. for Reef, Dk. for Dock, Ri. for River, Mag. for Magnetic, and Dist. for Distance. This work should be considered only as a close approximation.

Seattle, Wash., April 4, 1919.

S. E. H.

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| Station | Time  | Remarks | Remarks | Remarks | Remarks |
|---------|-------|---------|---------|---------|---------|
| 1       | 10.00 | 10.00   | 10.00   | 10.00   | 10.00   |
| 2       | 10.10 | 10.10   | 10.10   | 10.10   | 10.10   |
| 3       | 10.20 | 10.20   | 10.20   | 10.20   | 10.20   |
| 4       | 10.30 | 10.30   | 10.30   | 10.30   | 10.30   |
| 5       | 10.40 | 10.40   | 10.40   | 10.40   | 10.40   |
| 6       | 10.50 | 10.50   | 10.50   | 10.50   | 10.50   |
| 7       | 11.00 | 11.00   | 11.00   | 11.00   | 11.00   |
| 8       | 11.10 | 11.10   | 11.10   | 11.10   | 11.10   |
| 9       | 11.20 | 11.20   | 11.20   | 11.20   | 11.20   |
| 10      | 11.30 | 11.30   | 11.30   | 11.30   | 11.30   |
| 11      | 11.40 | 11.40   | 11.40   | 11.40   | 11.40   |
| 12      | 11.50 | 11.50   | 11.50   | 11.50   | 11.50   |
| 13      | 12.00 | 12.00   | 12.00   | 12.00   | 12.00   |
| 14      | 12.10 | 12.10   | 12.10   | 12.10   | 12.10   |
| 15      | 12.20 | 12.20   | 12.20   | 12.20   | 12.20   |
| 16      | 12.30 | 12.30   | 12.30   | 12.30   | 12.30   |
| 17      | 12.40 | 12.40   | 12.40   | 12.40   | 12.40   |
| 18      | 12.50 | 12.50   | 12.50   | 12.50   | 12.50   |
| 19      | 13.00 | 13.00   | 13.00   | 13.00   | 13.00   |
| 20      | 13.10 | 13.10   | 13.10   | 13.10   | 13.10   |
| 21      | 13.20 | 13.20   | 13.20   | 13.20   | 13.20   |
| 22      | 13.30 | 13.30   | 13.30   | 13.30   | 13.30   |
| 23      | 13.40 | 13.40   | 13.40   | 13.40   | 13.40   |
| 24      | 13.50 | 13.50   | 13.50   | 13.50   | 13.50   |
| 25      | 14.00 | 14.00   | 14.00   | 14.00   | 14.00   |
| 26      | 14.10 | 14.10   | 14.10   | 14.10   | 14.10   |
| 27      | 14.20 | 14.20   | 14.20   | 14.20   | 14.20   |
| 28      | 14.30 | 14.30   | 14.30   | 14.30   | 14.30   |
| 29      | 14.40 | 14.40   | 14.40   | 14.40   | 14.40   |
| 30      | 14.50 | 14.50   | 14.50   | 14.50   | 14.50   |
| 31      | 15.00 | 15.00   | 15.00   | 15.00   | 15.00   |
| 32      | 15.10 | 15.10   | 15.10   | 15.10   | 15.10   |
| 33      | 15.20 | 15.20   | 15.20   | 15.20   | 15.20   |
| 34      | 15.30 | 15.30   | 15.30   | 15.30   | 15.30   |
| 35      | 15.40 | 15.40   | 15.40   | 15.40   | 15.40   |
| 36      | 15.50 | 15.50   | 15.50   | 15.50   | 15.50   |
| 37      | 16.00 | 16.00   | 16.00   | 16.00   | 16.00   |
| 38      | 16.10 | 16.10   | 16.10   | 16.10   | 16.10   |
| 39      | 16.20 | 16.20   | 16.20   | 16.20   | 16.20   |
| 40      | 16.30 | 16.30   | 16.30   | 16.30   | 16.30   |
| 41      | 16.40 | 16.40   | 16.40   | 16.40   | 16.40   |
| 42      | 16.50 | 16.50   | 16.50   | 16.50   | 16.50   |
| 43      | 17.00 | 17.00   | 17.00   | 17.00   | 17.00   |
| 44      | 17.10 | 17.10   | 17.10   | 17.10   | 17.10   |
| 45      | 17.20 | 17.20   | 17.20   | 17.20   | 17.20   |
| 46      | 17.30 | 17.30   | 17.30   | 17.30   | 17.30   |
| 47      | 17.40 | 17.40   | 17.40   | 17.40   | 17.40   |
| 48      | 17.50 | 17.50   | 17.50   | 17.50   | 17.50   |
| 49      | 18.00 | 18.00   | 18.00   | 18.00   | 18.00   |
| 50      | 18.10 | 18.10   | 18.10   | 18.10   | 18.10   |
| 51      | 18.20 | 18.20   | 18.20   | 18.20   | 18.20   |
| 52      | 18.30 | 18.30   | 18.30   | 18.30   | 18.30   |
| 53      | 18.40 | 18.40   | 18.40   | 18.40   | 18.40   |
| 54      | 18.50 | 18.50   | 18.50   | 18.50   | 18.50   |
| 55      | 19.00 | 19.00   | 19.00   | 19.00   | 19.00   |
| 56      | 19.10 | 19.10   | 19.10   | 19.10   | 19.10   |
| 57      | 19.20 | 19.20   | 19.20   | 19.20   | 19.20   |
| 58      | 19.30 | 19.30   | 19.30   | 19.3    |         |

|                  | Tacoma to Seattle                               | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|------------------|-------------------------------------------------|---------------------------------|---------------------|
| Commencement Bay | Tacoma Waterway Lt.<br>Entrance of Waterway     | s.b.                            |                     |
|                  | Mooring Buoy                                    | s.b.                            | $\frac{1}{16}$      |
|                  | Pt. Brown Lt.                                   | s.b.                            | $\frac{1}{2}$       |
| Puget Sound      | Robinson Pt. Lt.                                | p.b.                            | $\frac{1}{2}$       |
|                  | Pt. Pully Lt.                                   | s.b.                            | $\frac{1}{2}$       |
|                  | Alki Pt. Lt.                                    | s.b.                            | $\frac{1}{2}$       |
| Elliott Bay      | Duwamish Hd. Gas Buoy<br>Head on Colman Dk. Lt. | s.b.                            | $\frac{1}{2}$       |

| True Course | Mag. Course | Mag. in Points               | Dist. from Pt. to Pt. | Dist. from point of Departure | Dist. to Destination |
|-------------|-------------|------------------------------|-----------------------|-------------------------------|----------------------|
| N16W        | N40W        | NW $\frac{1}{2}$ N           | 0.0                   | 0.0                           | 25.5                 |
| “           | “           | “                            | 0.3                   | 0.3                           | 25.2                 |
| N40E        | N16E        | N $\times$ E $\frac{1}{2}$ E | 2.6                   | 2.9                           | 22.6                 |
| N22W        | N46W        | NW $\frac{1}{8}$ W           | 6.2                   | 9.1                           | 16.4                 |
| N11W        | N35W        | NW $\frac{7}{8}$ N           | 3.9                   | 13.0                          | 12.5                 |
| N43E        | N19E        | N $\times$ E $\frac{3}{4}$ E | 8.0                   | 21.0                          | 4.5                  |
| S81E        | N75E        | E $\times$ N $\frac{1}{4}$ N | 2.4                   | 23.4                          | 2.1                  |



|             | Tacoma to Seattle                                                                                                        | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
|             | Colman Dk. Seattle                                                                                                       |                                 |                     |
|             | Seattle to Ketchikan<br>Via Active Pass. For going around East<br>Pt., see page 172<br>For Rosario Strait, see page 200. |                                 |                     |
|             | Seattle. Colman Dk.<br>Colman Dk. Lt. astern.                                                                            |                                 |                     |
| Elliott Bay | Four Mile Rk. Lt.                                                                                                        | s.b.                            | $\frac{3}{4}$       |
|             | West Pt. Lt.<br>Passing $\frac{1}{2}$ mile off Spar Buoy.                                                                | s.b.                            | $\frac{3}{4}$       |
| Puget Sound | Pt. Jefferson<br>West Pt. Lt. astern.                                                                                    | p.b.                            | 1                   |
|             | Apple Cove Pt. Lt.                                                                                                       | p.b.                            | 1                   |

| True Course | Mag. Course | Mag. in Points         | Dist. from Pt. to Pt. | Dist. from point of Departure | Dist. to Destination |
|-------------|-------------|------------------------|-----------------------|-------------------------------|----------------------|
|             |             |                        | 2.1                   | 25.5                          | 0.0                  |
|             |             |                        |                       |                               |                      |
| N66W        | West        | West                   | 0.0                   | 0.0                           | 650.1                |
| N32W        | N56W        | NW × W                 | 3.8                   | 3.8                           | 646.3                |
| N2E         | N22W        | NNW                    | 2.1                   | 5.9                           | 644.2                |
| N6W         | N30W        | NW × N $\frac{3}{8}$ N | 5.4                   | 11.3                          | 638.8                |
| N17W        | N41W        | NW $\frac{3}{8}$ N     | 4.1                   | 15.4                          | 634.7                |

|                        | Seattle to Ketchikan                                                                              | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|------------------------|---------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Puget Sound            | Pt. No. Pt. Lt.                                                                                   | p.b.                            | 1                   |
|                        | Double Bluff, S'yly Bluff<br>Passing $\frac{3}{4}$ mile off Spar Buoy.<br>Head on Marrowstone Lt. | s.b.                            | 1                   |
| Admiralty Inlet        | Bush Pt. Lt.                                                                                      | s.b.                            | $\frac{3}{4}$       |
|                        | Marrowstone Pt. Lt.<br>For Rosario Strait, see page 200.                                          | p.b.                            | $\frac{3}{4}$       |
|                        | Pt. Wilson Lt.<br>If bound out Strait of Juan de Fuca, see<br>page 210.                           | p.b.                            | $\frac{7}{8}$       |
| Strait of Juan de Fuca | Pt. Partridge Gas and Bell Buoy                                                                   | s.b.                            | $1\frac{1}{2}$      |
|                        | Partridge Bank Buoy<br>Pt. Wilson Lt. astern.                                                     | s.b.                            | $1\frac{1}{2}$      |



| True Course | Mag. Course | Mag. in Points               | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|------------------------------|-----------------------|-------------------------------|----------------------|
| N50W        | N74W        | $W \times N^{\frac{3}{8}}N$  | 6.5                   | 21.9                          | 628.2                |
| N30W        | N54W        | $NW^{\frac{3}{4}}W$          | 3.2                   | 25.1                          | 625.0                |
| N21W        | N45W        | NW                           | 4.7                   | 29.8                          | 620.3                |
| N45W        | N70W        | $W \times N^{\frac{3}{4}}N$  | 5.3                   | 35.1                          | 615.0                |
| “           | “           | “                            | 3.9                   | 39.0                          | 611.1                |
| “           | “           | “                            | 4.8                   | 43.8                          | 606.3                |
| N38W        | N63W        | $NW \times W^{\frac{5}{8}}W$ | 2.5                   | 46.3                          | 603.8                |

|                        | Seattle to Ketchikan                                                                                           | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|------------------------|----------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Strait of Juan de Fuca | Smith Id. Lt.                                                                                                  | s.b.                            | 3 $\frac{1}{2}$     |
|                        | Hein Bank Gas and Bell Buoy                                                                                    | p.b.                            | 1 $\frac{3}{4}$     |
|                        | Discovery Id. Lt.                                                                                              | p.b.                            | 4 $\frac{7}{8}$     |
|                        | Lime Kiln Lt.                                                                                                  | s.b.                            | 1                   |
| Haro Strait            | Kelp Reef Lt.                                                                                                  | p.b.                            | 1 $\frac{1}{4}$     |
|                        | Kellet Bluff Lt.                                                                                               | s.b.                            | 1                   |
|                        |  <p>S. W. end Henry Id.</p> |                                 |                     |
|                        | Turn Pt. Lt.<br>If going around East Pt., see page 172.                                                        | s.b.                            | 5 $\frac{5}{8}$     |



| True<br>Course | Mag.<br>Course | Mag.<br>in Points             | Dist. from<br>Pt. to Pt. | Dist.<br>from<br>Point of<br>Departure | Dist. to<br>Destination |
|----------------|----------------|-------------------------------|--------------------------|----------------------------------------|-------------------------|
| N38W           | N63W           | NW $\times$ W $\frac{5}{8}$ W | 3.2                      | 49.5                                   | 600.6                   |
| "              | "              | "                             | 6.4                      | 55.9                                   | 594.2                   |
| "              | "              | "                             | 7.9                      | 63.8                                   | 586.3                   |
| N25W           | N50W           | NW $\frac{1}{2}$ W            | 2.7                      | 66.5                                   | 583.6                   |
| "              | "              | "                             | 3.2                      | 69.7                                   | 580.4                   |
| N10W           | N35W           | NW $\frac{7}{8}$ N            | 1.8                      | 71.5                                   | 578.6                   |
| "              | "              | "                             | 6.3                      | 77.8                                   | 572.3                   |

|                  | Seattle to Ketchikan                                                            | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|------------------|---------------------------------------------------------------------------------|---------------------------------|---------------------|
| Haro Strait      | <b>Position</b><br>Run to Saturna Id. Lt. shuts in.<br>Put Turn Pt. Lt. astern. |                                 |                     |
| Pelorus Pt.      |                                                                                 | p.b.                            | $\frac{3}{4}$       |
| Swanson Channel  | <b>Mouatt Pt.</b><br>Head on Enterprise Bn.                                     | s.b.                            | $\frac{1}{2}$       |
| Portlock Pt. Lt. |                                                                                 | p.b.                            | $\frac{3}{8}$ —     |
| Enterprise Bn.   |                                                                                 | s.b.                            | $\frac{1}{4}$       |
| Helen Pt. Lt.    | <b>Helen Pt. Lt.</b><br>Round slowly to middle off Pass.                        | s.b.                            | $\frac{1}{8}$ +     |
| Mary Ann Pt. Lt. | <b>Mary Ann Pt. Lt.</b><br>Start to round before up with this point.            | p.b.                            | $\frac{1}{8}$ +     |

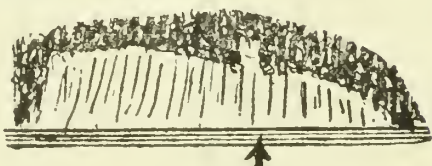
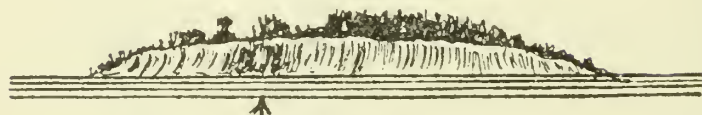
| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| N37W        | N62W        | NW $\times$ W $\frac{1}{2}$ W | 1.2                   | 79.0                          | 571.1                |
| “           | “           | “                             | 1.2                   | 80.2                          | 569.9                |
| N9W         | N34W        | NW $\times$ N                 | 3.9                   | 84.1                          | 566.0                |
| N26W        | N51W        | NW $\frac{1}{2}$ W            | 3.5                   | 87.6                          | 562.5                |
| N21E        | N4W         | N $\frac{3}{8}$ W             | 0.8                   | 88.4                          | 561.7                |
| S78E        | N77E        | E $\times$ N $\frac{1}{8}$ N  | 0.8                   | 89.2                          | 560.9                |
| N21E        | N4W         | N $\frac{3}{8}$ W             | 1.4                   | 90.6                          | 559.5                |



|                | Seattle to Ketchikan          | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|----------------|-------------------------------|---------------------------------|---------------------|
| Georgia Strait | Active Pass Lt.               | s.b.                            | $1\frac{1}{2}$      |
|                | Gossip Reef Gas and Bell Buoy | p.b.                            | $\frac{3}{8}$       |
|                | Portier Pass Lt.              | p.b.                            | $4\frac{3}{4}$      |
|                | Gabriola Reef Lt.             | p.b.                            | $1\frac{1}{2}$      |
|                | Entrance Id. Lt.              | p.b.                            | $1\frac{1}{2}+$     |
|                | Ballenas Id. Lt.              | p.b.                            | 1                   |
|                | Sangster Id., S. E. End       | s.b.                            | $1\frac{3}{4}$      |



| True Course | Mag. Course | Mag. in Points            | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|---------------------------|-----------------------|-------------------------------|----------------------|
| N21E        | N4W         | $N\frac{3}{8}W$           | 1.1                   | 91.7                          | 558.4                |
| N38W        | N64W        | $NW \times W\frac{5}{8}W$ | 0.9                   | 92.6                          | 547.5                |
| “           | “           | “                         | 13.0                  | 105.6                         | 544.5                |
| N61W        | N87W        | $W\frac{1}{4}N$           | 8.3                   | 113.9                         | 536.2                |
| “           | “           | “                         | 7.9                   | 121.8                         | 528.3                |
| N64W        | West        | West                      | 16.6                  | 138.4                         | 511.7                |
| “           | “           | “                         | 3.3                   | 141.7                         | 508.4                |

|                   | Seattle to Ketchikan                                                                                      | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Georgia Strait    | Sea Egg Rks.<br>Mt. Tremeton should be abm.                                                               | s.b.                            | 1½                  |
|                   | Sisters Id. Lt.                                                                                           | p.b.                            | ½                   |
|                   | Cape Lazo                                                                                                 | p.b.                            | 2⅝                  |
|                   | Cape Mudge Lt.<br>Tides meet about 10 miles South<br>of Cape Mudge.                                       | s.b.                            | ¾                   |
| Discovery Passage | Campbell Ri. Bluff<br> | s.b.                            | ¼                   |
|                   | Steep Id.<br>          | s.b.                            | ¾                   |
|                   | Head on East Side Maud Id.                                                                                |                                 |                     |
|                   | Race Pt.                                                                                                  | p.b.                            | ¾                   |

| True Course | Mag. Course | Mag. in Points               | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|------------------------------|-----------------------|-------------------------------|----------------------|
| N45W        | N71W        | $W \times N^{\frac{3}{4}}N$  | 5.3                   | 147.0                         | 503.1                |
| “           | “           | “                            | 5. 1                  | 152.1                         | 498.0                |
| “           | “           | “                            | 21.2                  | 173.3                         | 476.8                |
| N22W        | N48W        | $NW^{\frac{1}{4}}W$          | 21.7                  | 195.0                         | 455.1                |
| N32W        | N58W        | $NW \times W^{\frac{1}{8}}W$ | 3.6                   | 198.6                         | 451.5                |
| N41W        | N67W        | WNW                          | 1.7                   | 200.3                         | 449.8                |
| N59W        | N85W        | $W^{\frac{1}{2}}N$           | 3.2                   | 203.5                         | 446.6                |



## Seattle to Ketchikan

Port  
or  
Starboard  
BeamDist. off.  
Miles

Seymour Narrows

## Maud Id. Lt.

Ripple Rk. lies in mid-channel 0.2  
miles N'y from Maud Id. Lt.

s.b.

 $\frac{1}{8}$ 

## Separation Hd.

s.b.

 $\frac{3}{8}+$ 

## Granite Cliff

s.b.

 $\frac{1}{2}$ 

Head on Chatham Pt. Lt.

## Cinque Id.

s.b.

 $\frac{3}{8}$ 

Johnstone Strait

## Chatham Pt. Lt.

p.b.

 $\frac{3}{8}$ 

## Chatham Pt. Lt., 2nd Time

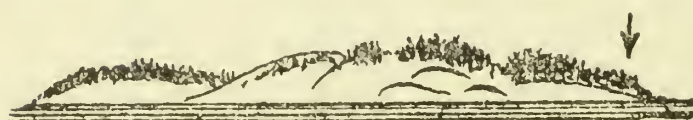
Head on Rock Pt. Bn.

p.b.

 $\frac{3}{8}$ 

## Turn Id., S. E. End

s.b.

 $\frac{1}{4}+$ 



| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| N11W        | N37W        | NW $\frac{3}{4}$ N            | 1.4                   | 204.9                         | 445.2                |
| “           | “           | “                             | 2.9                   | 207.8                         | 442.3                |
| N25W        | N51W        | NW $\frac{1}{2}$ W            | 6.0                   | 213.8                         | 436.3                |
| N18W        | N44W        | NW $\frac{1}{8}$ N            | 1.2                   | 215.0                         | 435.1                |
| N89W        | S65W        | SW $\times$ W $\frac{3}{4}$ W | 2.7                   | 217.7                         | 432.4                |
| “           | “           | “                             | 0.5                   | 218.2                         | 431.9                |
| “           | “           | “                             | 0.9                   | 219.1                         | 431.0                |

## Seattle to Ketchikan

Port  
or  
Starboard  
BeamDist. off.  
MilesRock Bay Pt.  
Head on Ripple Pt.p.b.  $\frac{3}{8}$ 

Rock Pt. Bn.

p.b.  $\frac{1}{4}$ 

Pender Id.

s.b.  $\frac{3}{8}$ —

Ripple Pt. Bn.

p.b.  $\frac{1}{4}$ 

Vansitart Bn.

s.b.  $\frac{1}{2}$ 

Ripple Shoal Buoy

s.b.  $\frac{3}{8}$ 

Camp Pt. Bn.

p.b.  $\frac{1}{4}$

| True<br>Course | Mag.<br>Course | Mag.<br>in Points         | Dist. from<br>Pt. to Pt. | Dist.<br>from<br>Point of<br>Departure | Dist. to<br>Destination |
|----------------|----------------|---------------------------|--------------------------|----------------------------------------|-------------------------|
| N66W           | S88W           | $W\frac{1}{8}S$           | 0.7                      | 219.8                                  | 430.3                   |
| “              | “              | “                         | 0.7                      | 220.5                                  | 429.6                   |
| N60W           | N86W           | $W\frac{3}{8}N$           | 1.2                      | 221.7                                  | 428.4                   |
| S88W           | S62W           | $SW \times W\frac{1}{2}W$ | 2.2                      | 223.9                                  | 426.2                   |
| N70W           | S84W           | $W\frac{1}{2}S$           | 6.3                      | 230.2                                  | 419.9                   |
| “              | “              | “                         | 3.0                      | 233.2                                  | 416.9                   |
| S88W           | S62W           | $SW \times W\frac{1}{2}W$ | 0.4                      | 233.6                                  | 416.5                   |



## Seattle or Ketchikan

Port  
or  
Starboard  
BeamDist. off.  
Miles

Helmcken Id. Lt.

s.b.

 $\frac{3}{8}$ 

Salmon Ri. Bluff

East side valley.

p.b.

 $\frac{1}{2}$ 

York Id.

s.b.

 $\frac{3}{4}$ 

Milly Id.

s.b.

 $\frac{5}{8}$ 

Adams Ri. Bluff

East side valley.

p.b.

 $\frac{3}{4}$ 

Cracroft Id. Lt.

 $\frac{3}{4}$  mile W. of Boat Harbor.

s.b.

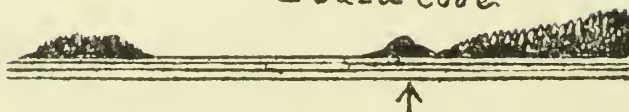
 $\frac{5}{8}$ 

Ella Pt. Rock

p.b.

 $\frac{3}{4}$ 

Bouza Cove





| True<br>Course | Mag.<br>Course | Mag.<br>in Points           | Dist. from<br>Pt. to Pt. | Dist.<br>from<br>Point of<br>Departure | Dist. to<br>Destination |
|----------------|----------------|-----------------------------|--------------------------|----------------------------------------|-------------------------|
| N76W           | S78W           | $W \times S$                | 1.8                      | 235.4                                  | 414.7                   |
| N45W           | N71W           | $W \times N^{\frac{3}{4}}N$ | 2.6                      | 238.0                                  | 412.1                   |
| N62W           | N88W           | $W^{\frac{1}{4}}N$          | 3.1                      | 241.1                                  | 409.0                   |
| N82W           | S72W           | $W \times S^{\frac{5}{8}}S$ | 4.7                      | 245.8                                  | 404.3                   |
| N84W           | S70W           | $W \times S^{\frac{3}{4}}S$ | 5.8                      | 251.6                                  | 398.5                   |
| N71W           | S83W           | $W^{\frac{5}{8}}S$          | 12.7                     | 264.3                                  | 385.8                   |
| N84W           | S70W           | $W \times S^{\frac{3}{4}}S$ | 9.3                      | 273.6                                  | 376.5                   |

## Seattle to Ketchikan

Port  
or  
Starboard  
BeamDist. off.  
Miles

Gordon Pt.

s.b.

 $\frac{1}{2}$ 

Yellow Bluff

s.b.

 $\frac{1}{4}$ 

Haddington Reef Gas Buoy

s.b.

close

W. End Haddington Id.

p.b.

 $\frac{3}{8}$ 

Neill Rk. Spar Buoy

Sunken Rk.,  $3\frac{1}{4}$  fms. water.

p.b.

 $\frac{5}{8}$ 

Ledge Pt.

p.b.

 $\frac{7}{8}$ 

Pulteney Pt. Lt.

s.b.

 $\frac{1}{2}$

| True Course | Mag. Course | Mag. in Points           | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|--------------------------|-----------------------|-------------------------------|----------------------|
| N60W        | N87W        | $W\frac{1}{4}N$          | 4.0                   | 277.6                         | 372.5                |
| “           | “           | “                        | 1.8                   | 279.4                         | 370.7                |
| “           | “           | “                        | 2.6                   | 282.0                         | 368.1                |
| “           | “           | “                        | 0.4                   | 282.4                         | 367.7                |
| N85W        | S68W        | WSW                      | 0.8                   | 283.2                         | 366.9                |
| “           | “           | “                        | 1.3                   | 284.5                         | 365.6                |
| N46W        | N73W        | $W \times N\frac{1}{2}N$ | 3.2                   | 287.7                         | 362.4                |



## Seattle to Ketchikan

Port  
or  
Starboard  
BeamDist. off.  
Miles

Queen Charlotte Sound

Round Id.

p.b.

 $\frac{3}{4}$ 

Masterman Id. Lt.

p.b.

 $\frac{1}{2}$ 

Goletas Channel

Miles Cone

s.b.

 $1\frac{1}{2}$ 

East End Duncan Id.

s.b.

 $\frac{1}{2}$ 

Noble Id. Lt.

s.b.

 $\frac{3}{8}$ 

Christie Passage

Noble Id. Lt., 2nd Time

s.b.

 $\frac{3}{8}$ 

Middle Pt.

s.b.

 $\frac{1}{8}$ 

Head on center of Redfern Id.



| True Course | Mag. Course | Mag. in Points            | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|---------------------------|-----------------------|-------------------------------|----------------------|
| N53W        | N80W        | $W\frac{7}{8}N$           | 10.1                  | 297.8                         | 352.3                |
| N67W        | S86W        | $W\frac{3}{8}S$           | 3.2                   | 301.0                         | 349.1                |
| “           | “           | “                         | 2.7                   | 303.7                         | 346.4                |
| “           | “           | “                         | 2.8                   | 306.5                         | 343.6                |
| N1E         | N26W        | $NW \times N\frac{5}{8}N$ | 2.0                   | 308.5                         | 341.6                |
| “           | “           | “                         | 0.4                   | 308.9                         | 341.2                |
| N9E         | N18W        | $N \times W\frac{5}{8}W$  | 1.3                   | 310.2                         | 339.9                |

|                       | Seattle to Ketchikan                  | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-----------------------|---------------------------------------|---------------------------------|---------------------|
| New Channel           | Scarlet Pt. Lt.                       | p.b.                            | $\frac{1}{2}$       |
|                       | Scarlet Pt. Lt., 2nd Time             | p.b.                            | $\frac{5}{8}$       |
| Queen Charlotte Sound | Pine Id. Lt.                          | s.b.                            | $\frac{3}{4}$       |
|                       | West End Storm Ids.                   | s.b.                            | 1                   |
|                       | Cape Caution                          | s.b.                            | $1\frac{3}{4}$      |
| Smith Sound           | Egg Id. Lt.                           | s.b.                            | $1\frac{1}{2}$      |
|                       | Cape Calvert<br>South end Sorrow Ids. | p.b.                            | $2\frac{1}{4}$      |

| True<br>Course | Mag.<br>Course | Mag.<br>in Points           | Dist. from<br>Pt. to Pt. | Dist.<br>from<br>Point of<br>Departure | Dist. to<br>Destination |
|----------------|----------------|-----------------------------|--------------------------|----------------------------------------|-------------------------|
| N43W           | N70W           | $W \times N^{\frac{3}{4}}N$ | 0.9                      | 311.1                                  | 339.0                   |
| “              | “              | “                           | 0.5                      | 311.6                                  | 338.5                   |
| N16W           | N43W           | $NW^{\frac{1}{8}}N$         | 8.3                      | 319.9                                  | 330.2                   |
| “              | “              | “                           | 3.6                      | 323.5                                  | 326.6                   |
| “              | “              | “                           | 7.7                      | 331.2                                  | 318.9                   |
| N5E            | N22W           | NNW                         | 5.7                      | 336.9                                  | 313.2                   |
| “              | “              | “                           | 9.6                      | 346.5                                  | 303.6                   |



## Seattle to Ketchikan

Port  
or  
Starboard  
BeamDist. off.  
Miles

Harold Pt.

p.b.

 $\frac{7}{8}$ 

Safety Cove, North Pt.

p.b.

 $1\frac{1}{2}$ 

Truman Pt.

p.b.

 $\frac{3}{4}$ 

Addenbrooke Id. Lt.

s.b.

 $\frac{1}{2}$ 

Kelp Pt.

p.b.

 $1\frac{1}{4}$ 

Kiwash Id., South End

s.b.

2—



Walker Pt.

s.b.

 $1\frac{3}{8}$ 



| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| N5W         | N32W        | NW $\times$ N $\frac{1}{8}$ N | 2.6                   | 349.1                         | 301.0                |
| “           | “           | “                             | 5.1                   | 354.2                         | 295.9                |
| “           | “           | “                             | 2.2                   | 356.4                         | 293.7                |
| N20W        | N47W        | NW $\frac{1}{4}$ W            | 2.2                   | 358.6                         | 291.5                |
| N2E         | N25W        | NW $\times$ N $\frac{3}{4}$ N | 8.1                   | 366.7                         | 283.4                |
| “           | “           | “                             | 7.8                   | 374.5                         | 275.6                |
| “           | “           | “                             | 4.0                   | 378.5                         | 271.6                |

Fisher Channel

## Seattle to Ketchikan

Port  
or  
Starboard  
BeamDist. off.  
Miles

Fog Rks. Lt.

s.b.

 $\frac{1}{2}$ 

Pointer Id. Buoy

p.b.

 $\frac{1}{2}$ 

Pointer Id. Lt.

p.b.

 $\frac{3}{4}$ 

Pointer Id. Lt., 2nd Time

p.b.

 $\frac{3}{8}$ 

White Pt. Bn.

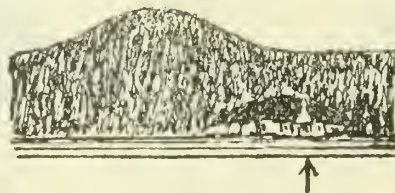
s.b.

 $\frac{1}{8}$ 

Lama Passage

Serpent Pt. Bn.

p.b.

 $\frac{1}{4}$ 

Cliff Bluff

s.b.

 $\frac{1}{4}$ 

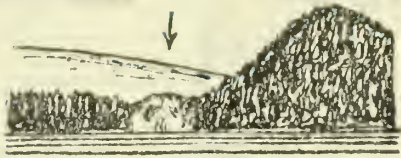
| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| N3W         | N30W        | NW $\times$ N $\frac{3}{8}$ N | 2.8                   | 381.3                         | 268.8                |
| “           | “           | “                             | 5.0                   | 386.3                         | 263.8                |
| N66W        | S87W        | W $\frac{1}{4}$ S             | 0.2                   | 386.5                         | 263.6                |
| “           | “           | “                             | 0.7                   | 387.2                         | 262.9                |
| “           | “           | “                             | 0.9                   | 388.1                         | 262.0                |
| S81W        | S54W        | SW $\frac{3}{4}$ W            | 1.0                   | 389.1                         | 261.0                |
| “           | “           | “                             | 1.7                   | 390.8                         | 259.3                |



## Seattle to Ketchikan

Port  
or  
Starboard  
BeamDist. off.  
Miles

Bare Cliff



s.b.

 $\frac{3}{8}+$ 

Twilight Pt.



s.b.

 $\frac{1}{2}$ 

Camp Id. Lt.



s.b.

 $\frac{1}{2}$ 

Camp Id. Lt., 2nd Time

s.b.

 $\frac{3}{8}$ 

Napier Pt. Bn.

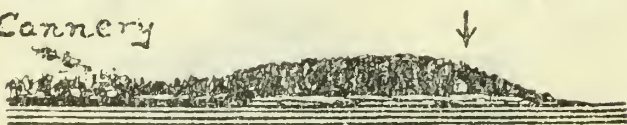
Camp Id. Lt. and Bella Bella Hospital  
in line.

p.b.

 $\frac{1}{8}-$ 

Grave Pt.

Cannery



s.b.

 $\frac{1}{8}$ 

Main Pass, South End



s.b.

 $\frac{1}{8}$ 

Lama Passage

Main Pass



| True Course | Mag. Course | Mag. in Points         | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|------------------------|-----------------------|-------------------------------|----------------------|
| N74W        | S79W        | W × S                  | 0.7                   | 391.5                         | 258.6                |
| N51W        | N78W        | W × N                  | 1.6                   | 393.1                         | 257.0                |
| N4W         | N31W        | NW × N $\frac{1}{4}$ N | 1.2                   | 394.3                         | 255.8                |
| “           | “           | “                      | 0.4                   | 394.7                         | 255.4                |
| N15W        | N42W        | NW $\frac{1}{4}$ N     | 1.9                   | 396.6                         | 253.5                |
| N20E        | N7W         | N $\frac{5}{8}$ W      | 1.0                   | 397.6                         | 252.5                |
| N46E        | N19E        | N × E $\frac{3}{4}$ E  | 1.7                   | 399.3                         | 250.8                |

## Seattle to Ketchikan

Port  
or  
Starboard  
BeamDist. off.  
MilesMain  
Pass

Dryad Pt. Lt.

p.b.

 $\frac{1}{8}+$ 

Dryad Pt. Lt., 2nd Time

p.b.

 $\frac{1}{4}$ 

Tree Id. astern.

Grassy Id.

s.b.

 $\frac{1}{4}$ 

Head on center of Nose Id.

Regatta Rk. Bn.

s.b.

 $\frac{1}{4}$ 

Dall Patch Gas and Whistling Buoy

p.b.

 $\frac{1}{4}$ 

Grassy Id. and Ivory Id. Lt. in line.

Wreck

p.b.

 $\frac{1}{8}$ 

Nose Id.

s.b.

 $\frac{1}{2}-$ 

Seaforth Channel

| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| N38W        | N65W        | NW $\times$ W $\frac{3}{4}$ W | 0.7                   | 400.0                         | 250.1                |
| “           | “           | “                             | 0.3                   | 400.3                         | 249.8                |
| N55W        | N82W        | W $\frac{3}{4}$ N             | 1.7                   | 402.0                         | 248.1                |
| “           | “           | “                             | 0.5                   | 402.5                         | 247.6                |
| N71W        | S82W        | W $\frac{3}{4}$ S             | 0.3                   | 402.8                         | 247.3                |
| “           | “           | “                             | 0.1                   | 402.9                         | 247.2                |
| “           | “           | “                             | 1.8                   | 404.7                         | 245.4                |



|                  | Seattle to Ketchikan                                                                 | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|------------------|--------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Seaforth Channel | Idol Pt. Lt.                                                                         | p.b.                            | $\frac{1}{4}$       |
|                  | Ivory Id. Lt.                                                                        | s.b.                            | $\frac{3}{4}$       |
|                  | Ivory Id. Lt., 2nd Time                                                              | s.b.                            | 1                   |
| Millbank Sound   | White Rk. Lt.                                                                        | p.b.                            | $1\frac{1}{2}$      |
|                  |  |                                 |                     |
|                  | Boulder Hd.                                                                          | s.b.                            | 1                   |
|                  |   |                                 |                     |
|                  | Vancouver Rk. Gas Buoy                                                               | s.b.                            | 1                   |
|                  | Van. Rk. Gas Buoy, 2nd Time<br>Head on Jorkins Pt. Lt.                               | s.b.                            | 1                   |

| True Course | Mag. Course | Mag. in Points            | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|---------------------------|-----------------------|-------------------------------|----------------------|
| N80W        | S73W        | $W \times S\frac{1}{2}S$  | 2.7                   | 407.4                         | 242.7                |
| N37W        | N64W        | $NW \times W\frac{3}{4}W$ | 5.0                   | 412.4                         | 237.7                |
| “           | “           | “                         | 0.7                   | 413.1                         | 235.0                |
| “           | “           | “                         | 3.0                   | 416.1                         | 234.0                |
| “           | “           | “                         | 1.5                   | 417.6                         | 232.5                |
| N18E        | N9W         | $N\frac{3}{4}W$           | 1.7                   | 419.3                         | 230.8                |
| “           | “           | “                         | 1.0                   | 420.3                         | 229.8                |

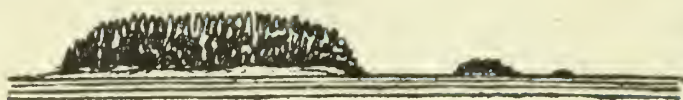
## Seattle to Ketchikan

Port  
or  
Starboard  
BeamDist. off.  
Miles

North Id.

s.b.

1



Jorkins Pt. Lt.

p.b.

 $\frac{5}{8}$ 

Inner Pt.

p.b.

 $\frac{5}{8}$ 

Center Cone Id.

p.b.

 $\frac{5}{8}$ 

North End Jane Id.

p.b.

 $\frac{1}{4}$ 

Danger Patch, 6 feet water, is 150  
yards North of Jane Id.

Boat Bluff Lt.

s.b.

 $\frac{1}{8}$ 

Separation Pt. Lt.

p.b.

 $\frac{3}{8}$ 

Favor Separation Pt.; a rock, bare at low  
water, lies 300 yds. from Sarah Id.  
NE'ly from Separation Pt.

Finlayson Channel

North Passage

Tolmie Channel



| True Course | Mag. Course | Mag. in Points            | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|---------------------------|-----------------------|-------------------------------|----------------------|
| N27E        | North       | North                     | 1.4                   | 421.7                         | 228.4                |
| N20E        | N8W         | $N\frac{3}{4}W$           | 3.7                   | 425.4                         | 224.7                |
| N10W        | N37W        | $NW\frac{3}{4}N$          | 2.6                   | 428.0                         | 222.1                |
| N15W        | N42W        | $NW\frac{1}{4}N$          | 6.0                   | 434.0                         | 216.1                |
| N74W        | S79W        | $W \times S$              | 4.0                   | 438.0                         | 212.1                |
| N4W         | N31W        | $NW \times N\frac{1}{4}N$ | 0.7                   | 438.7                         | 211.4                |
| N26W        | N53W        | $NW\frac{3}{4}W$          | 2.6                   | 441.3                         | 208.8                |

## Seattle to Ketchikan

Port  
or  
Starboard  
BeamDist. off.  
Miles

White Spot

s.b.

 $\frac{1}{4}$ 

Loop Id. Bn.

Tenas Id.

s.b.

 $\frac{1}{4}$ 

Doe Pt.

p.b.

 $\frac{3}{8}$ 

Mountain Gap

p.b.

 $\frac{1}{4}$ 

North End Sarah Id.

s.b.

 $\frac{1}{4}$ 

Tolmie Rk., 4 feet water, lies  $\frac{1}{2}$  mile S'ly  
from North end Id., 100 yards off shore.

Position

Dock Pt. p. b.

Green Inlet, South Pt.

s.b.

 $\frac{1}{4}$ 

Tolmie Channel

Graham Reach

| True Course | Mag. Course | Mag. in Points         | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|------------------------|-----------------------|-------------------------------|----------------------|
| N6W         | N33W        | NW × N                 | 0.8                   | 442.1                         | 208.0                |
| N6E         | N21W        | N × W $\frac{7}{8}$ W  | 1.0                   | 443.1                         | 207.0                |
| “           | “           | “                      | 1.0                   | 444.1                         | 206.0                |
| N25E        | N2W         | N $\frac{1}{4}$ W      | 9.2                   | 453.3                         | 196.8                |
| “           | “           | “                      | 0.8                   | 454.1                         | 196.0                |
| N6E         | N21W        | N × W $\frac{7}{8}$ W  | 0.7                   | 454.8                         | 195.3                |
| N5W         | N32W        | NW × N $\frac{1}{8}$ N | 1.0                   | 455.8                         | 194.3                |



## Seattle to Ketchikan

Port  
or  
Starboard  
BeamDist. off.  
Miles

Swanson Bay, North Pt.

s.b.

 $\frac{1}{4}$ 

South Inlet Spit

s.b.

 $\frac{1}{4}$ —

South Inlet.



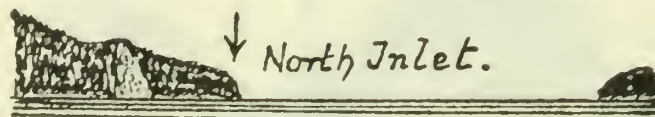
North Pt., South Inlet

s.b.

 $\frac{5}{8}$ —

North Pt., North Inlet

s.b.

 $\frac{3}{8}$ 

Tides meet here.

Red Cliff Pt.

p.b.

 $\frac{1}{4}$ —

Warke Id., S'ly End

s.b.

 $\frac{1}{4}$ —

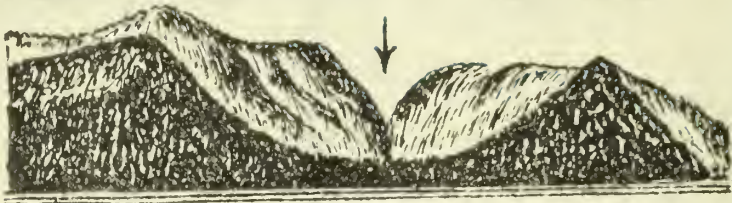
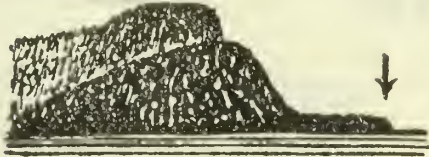
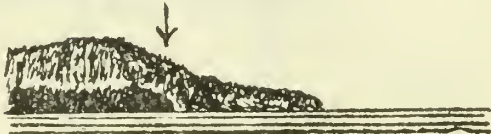
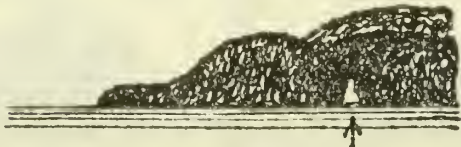
Head on Kingcombe Pt.

Waterfall

p.b.

 $\frac{5}{8}$ 

| True<br>Course | Mag.<br>Course | Mag.<br>in Points             | Dist. from<br>Pt. to Pt. | Dist.<br>from<br>Point of<br>Departure | Dist. to<br>Destination |
|----------------|----------------|-------------------------------|--------------------------|----------------------------------------|-------------------------|
| N17W           | N44W           | NW $\frac{1}{8}$ N            | 5.7                      | 461.5                                  | 188.6                   |
| “              | “              | “                             | 4.2                      | 465.7                                  | 184.4                   |
| “              | “              | “                             | 1.7                      | 467.4                                  | 182.7                   |
| N35W           | N64W           | NW $\times$ W $\frac{3}{4}$ W | 2.2                      | 469.6                                  | 180.5                   |
| N77W           | S74W           | W $\times$ S $\frac{3}{8}$ S  | 2.2                      | 471.8                                  | 178.3                   |
| N49W           | N78W           | W $\times$ N $\frac{1}{8}$ N  | 1.7                      | 473.5                                  | 176.6                   |
| “              | “              | “                             | 5.5                      | 479.0                                  | 171.1                   |

| Seattle to Ketchikan |                                                                                     | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|----------------------|-------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Fraser Reach         | Elephant Hd.                                                                        | p.b.                            | $\frac{3}{4}$       |
|                      |   |                                 |                     |
| McKay Reach          | Kingcombe Pt. Lt.                                                                   | p.b.                            | $\frac{1}{2}$       |
|                      | Trivet Pt.                                                                          | p.b.                            | $\frac{1}{2}$       |
|                      | Pt. Cumming                                                                         | s.b.                            | $\frac{1}{2}$       |
| Wright Sound         | Cape Farewell                                                                       | s.b.                            | 1                   |
|                      |  |                                 |                     |
|                      | Camp Pt.                                                                            | s.b.                            | $\frac{1}{2}$       |
|                      |  |                                 |                     |
|                      | Yolk Pt. Bn.                                                                        | p.b.                            | $\frac{1}{2}$       |
|                      |  |                                 |                     |



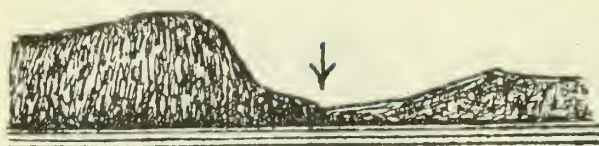
| True<br>Course | Mag.<br>Course | Mag.<br>in Points             | Dist. from<br>Pt. to Pt. | Dist.<br>from<br>Point of<br>Departure | Dist. to<br>Destination |
|----------------|----------------|-------------------------------|--------------------------|----------------------------------------|-------------------------|
| N37W           | N66W           | NW $\times$ W $\frac{7}{8}$ W | 2.7                      | 481.7                                  | 168.4                   |
| N82W           | S69W           | W $\times$ S $\frac{7}{8}$ S  | 3.3                      | 485.0                                  | 165.1                   |
| S80W           | S51W           | SW $\frac{1}{2}$ W            | 4.6                      | 489.6                                  | 160.5                   |
| N62W           | West           | West                          | 3.9                      | 493.5                                  | 156.6                   |
| “              | “              | “                             | 5.1                      | 498.6                                  | 151.5                   |
| “              | “              | “                             | 1.9                      | 500.5                                  | 149.6                   |
| N43W           | N72W           | W $\times$ N $\frac{5}{8}$ N  | 1.8                      | 502.3                                  | 147.8                   |

## Seattle to Ketchikan

Port  
or  
Starboard  
BeamDist. off.  
Miles

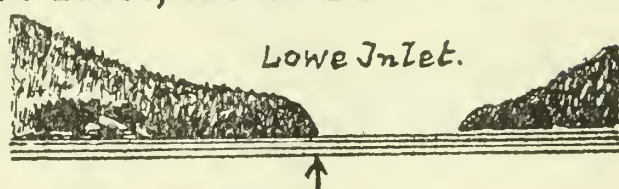
## Union Pass

p.b.

 $\frac{3}{4}$ 

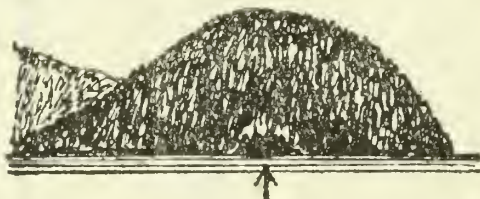
## Lowe Inlet, North Pt.

s.b.

 $\frac{1}{4}$ —

## Mountain Pt.

s.b.

 $\frac{1}{8}$ 

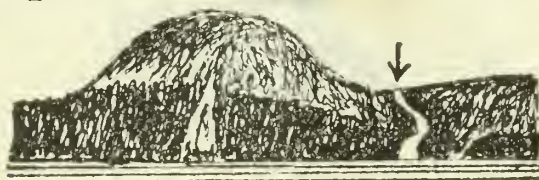
## Bushy Slide

p.b.

 $\frac{1}{8}$ 

## Serpent Waterfall

p.b.

 $\frac{1}{4}$ —

## Klewnuggit Lt.

s.b.

 $\frac{3}{8}$ 

Favor the West shore passing here.  
Tides meet here.

## Granite Cliff

s.b.

 $\frac{1}{2}$ 

Put Klewnuggit Lt. astern.

| True Course | Mag. Course | Mag. in Points               | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|------------------------------|-----------------------|-------------------------------|----------------------|
| N43W        | N72W        | $W \times N^{\frac{5}{8}}N$  | 4.4                   | 506.7                         | 143.4                |
| “           | “           | “                            | 9.3                   | 516.0                         | 134.1                |
| N39W        | N68W        | WNW                          | 2.2                   | 518.2                         | 131.9                |
| “           | “           | “                            | 3.2                   | 521.4                         | 128.7                |
| N35W        | N64W        | $NW \times W^{\frac{5}{8}}W$ | 0.3                   | 521.7                         | 128.4                |
| “           | “           | “                            | 3.5                   | 525.2                         | 124.9                |
| N40W        | N69W        | $W \times N^{\frac{7}{8}}N$  | 3.3                   | 528.5                         | 121.6                |



## Seattle to Ketchikan

Port  
or  
Starboard  
BeamDist. off.  
Miles

East Inlet, North Pt.

s.b.

 $\frac{1}{2}$ 

West Inlet, North Pt.

s.b.

1

Stuart Anch. Pt.

Head on Watson Rk. Lt.

p.b.

 $\frac{3}{8}$ 

Calvert Pt.

p.b.

 $\frac{1}{2}$ 

Watson Rk. Lt.

Head on NE end of White Cliff Id.

s.b.

 $\frac{1}{2}$ 

Herbert Reef Lt.

p.b.

 $\frac{3}{8}$ 

Northwest Slide

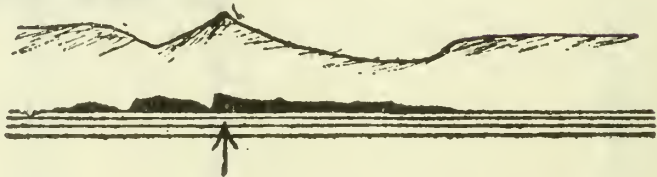
s.b.

 $\frac{3}{8}$ 

Grenville Channel

Arthur Passage

| True Course | Mag. Course | Mag. in Points              | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-----------------------------|-----------------------|-------------------------------|----------------------|
| N40W        | N69W        | $W \times N \frac{7}{8} N$  | 1.0                   | 529.5                         | 120.6                |
| “           | “           | “                           | 9.8                   | 539.3                         | 110.8                |
| N51W        | N80W        | $W \frac{7}{8} N$           | 2.0                   | 541.3                         | 108.8                |
| N61W        | West        | West                        | 3.0                   | 544.3                         | 105.8                |
| N15W        | N44W        | $NW \frac{1}{8} N$          | 3.1                   | 547.4                         | 102.7                |
| “           | “           | “                           | 5.8                   | 553.2                         | 96.9                 |
| N34W        | N63W        | $NW \times W \frac{5}{8} W$ | 0.7                   | 553.9                         | 96.2                 |

|                 | Seattle to Ketchikan                                                                                   | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-----------------|--------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Malacca Passage | White Cliff Id.                                                                                        | s.b.                            | $\frac{1}{4}$       |
|                 | Ouin Rks. Bn.                                                                                          | p.b.                            | $\frac{5}{8}$       |
|                 | East end Lawyers                                                                                       | s.b.                            | $\frac{3}{8}$       |
|                 | Lawyers Lt.                                                                                            | s.b.                            | $\frac{3}{4}$       |
| Chatham Sound   | Holland Id. Lt.<br> | s.b.                            | $2\frac{1}{4}$ —    |
|                 | Green Top Id.<br>  | s.b.                            | $\frac{7}{8}$       |
|                 | NW end Rachels                                                                                         | p.b.                            | $2\frac{1}{4}$      |



| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| N34W        | N63W        | NW $\times$ W $\frac{5}{8}$ W | 2.0                   | 555.9                         | 94.2                 |
| N57W        | N86W        | W $\frac{3}{8}$ N             | 1.4                   | 557.3                         | 92.8                 |
| “           | “           | “                             | 2.3                   | 559.6                         | 90.5                 |
| N34W        | N63W        | NW $\times$ W $\frac{5}{8}$ W | 0.8                   | 560.4                         | 89.7                 |
| “           | “           | “                             | 3.4                   | 563.8                         | 86.3                 |
| “           | “           | “                             | 1.2                   | 565.0                         | 85.1                 |
| “           | “           | “                             | 4.5                   | 569.5                         | 80.6                 |

|                   | Seattle to Ketckihan                                                                                 | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-------------------|------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Chatham Sound     | Lucy Id. Lt.<br>Head on Green Id. Lt.                                                                | p.b.                            | 1                   |
|                   | Hodgson Reef Gas Buoy                                                                                | s.b.                            | 2 $\frac{1}{2}$     |
|                   | Whitesand Id.<br> | p.b.                            | 2 $\frac{3}{8}$     |
| Holliday Passage  | Green Id. Lt.                                                                                        | s.b.                            | $\frac{1}{2}$       |
|                   | Holliday Id.<br>  | p.b.                            | $\frac{1}{2}$       |
| Oriflamme Passage | Lord Rk. Lt.<br>  | s.b.                            | 1 $\frac{5}{8}$     |
| Dixon Entrance    | Tree Pt. Lt.                                                                                         | s.b.                            | 1 $\frac{1}{2}$     |

| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| N15W        | N44W        | NW $\frac{1}{8}$ N            | 4.9                   | 574.4                         | 75.7                 |
| “           | “           | “                             | 4.5                   | 578.9                         | 71.2                 |
| N28W        | N57W        | NW $\times$ W                 | 9.5                   | 588.4                         | 61.7                 |
| N14W        | N43W        | NW $\frac{1}{4}$ N            | 2.7                   | 591.1                         | 59.0                 |
| N37W        | N66W        | NW $\times$ W $\frac{7}{8}$ W | 3.7                   | 594.8                         | 55.3                 |
| “           | “           | “                             | 6.4                   | 601.2                         | 48.9                 |
| N19W        | N48W        | NW $\frac{1}{4}$ W            | 6.3                   | 607.5                         | 42.6                 |



|                       | Seattle to Ketchikan                 | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-----------------------|--------------------------------------|---------------------------------|---------------------|
| Revillagidedo Channel | Black Rk. Lt.                        | s.b.                            | 1 $\frac{5}{8}$     |
|                       | Mary Id. Lt.                         | p.b.                            | 1                   |
|                       | Center of Twins<br>Head on Round Id. | p.b.                            | $\frac{5}{8}$       |
|                       | Hog Rks. Lt.<br>Head on Reef Pt.     | p.b.                            | $\frac{5}{8}$       |
|                       | Walker Id.                           | p.b.                            | $\frac{7}{8}$       |
|                       | Angle Pt. Bn.                        | s.b.                            | $\frac{1}{4}$       |
|                       | Spire Id. Reef Lt.                   | p.b.                            | $\frac{1}{2}$       |

| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| N19W        | N48W        | NW $\frac{1}{4}$ W            | 14.3                  | 621.8                         | 28.3                 |
| N31W        | N60W        | NW $\times$ W $\frac{3}{8}$ W | 5.7                   | 627.5                         | 22.6                 |
| N47W        | N76W        | W $\times$ N $\frac{1}{4}$ N  | 3.0                   | 630.5                         | 19.6                 |
| N62W        | S89W        | W $\frac{1}{8}$ S             | 3.3                   | 633.8                         | 16.3                 |
| “           | “           | “                             | 1.9                   | 635.7                         | 14.4                 |
| N42W        | N71W        | W $\times$ N $\frac{5}{8}$ N  | 4.4                   | 640.1                         | 10.0                 |
| N64W        | S87W        | W $\frac{1}{4}$ S             | 3.2                   | 643.3                         | 6.8                  |

|                       | Seattle to Ketchikan                         | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-----------------------|----------------------------------------------|---------------------------------|---------------------|
| Revillagidedo Channel | Cutter Rk. Bn.                               | s.b.                            | $\frac{1}{4}$       |
|                       | Mountain Pt. Bn.<br>Spire Id. Lt. astern.    | s.b.                            | $\frac{1}{8}$       |
|                       | Potter Rk. Gas Buoy                          | p.b.                            | $\frac{1}{16}$      |
|                       | SE end Pennock Id.                           | p.b.                            | $\frac{1}{4}$       |
| Tongass Narrows       | { California Rk. Buoy<br>Idaho Rk. Float Lt. | p.b.<br>s.b.                    | close<br>close      |
|                       | Fish Creek Bn.                               | s.b.                            | $\frac{1}{16}$      |
|                       | Ketchikan City Dock                          | s.b.                            | $\frac{1}{16}$      |
|                       |                                              |                                 |                     |



| True Course | Mag. Course | Mag. in Points           | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|--------------------------|-----------------------|-------------------------------|----------------------|
| N64W        | S87W        | $W\frac{1}{4}S$          | 1.4                   | 644.7                         | 5.4                  |
| N50W        | N79W        | $W \times N$             | 0.9                   | 645.6                         | 4.5                  |
| “           | “           | “                        | 1.1                   | 646.7                         | 3.4                  |
| “           | “           | “                        | 0.7                   | 647.4                         | 2.7                  |
| N47W        | N76W        | $W \times N\frac{1}{4}N$ | 0.6                   | 648.0                         | 2.1                  |
| “           | “           | “                        | 1.9                   | 649.9                         | 0.2                  |
|             |             |                          | 0.2                   | 650.1                         | 0.0                  |

| Ketchikan to Petersburg<br>Via Wrangell Narrows                     | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|---------------------------------------------------------------------|---------------------------------|---------------------|
| Ketchikan City Dock<br>Head on East Clump Lt.                       | s.b.                            | $\frac{1}{16}$      |
| NW end Pennock Id.                                                  | p.b.                            | $\frac{1}{4}$       |
| Red Nun No. 4                                                       | s.b.                            | $\frac{1}{8}$       |
| East Clump Lt.                                                      | p.b.                            | $\frac{1}{4}$       |
| West Clump Bn.<br>Channel Id. Lt. slightly on the starboard<br>bow. | p.b.                            | $\frac{1}{8}$       |
| Red Nun No. 6                                                       | s.b.                            | $\frac{1}{16}$      |
| Black Can No. 5                                                     | p.b.                            | $\frac{1}{16} +$    |

| True<br>Course | Mag.<br>Course | Mag.<br>in Points           | Dist. from<br>Pt. to Pt. | Dist.<br>from<br>Point of<br>Departure | Dist. to<br>Destination |
|----------------|----------------|-----------------------------|--------------------------|----------------------------------------|-------------------------|
| N79W           | S72W           | $W \times S^{\frac{5}{8}}S$ | 0.0                      | 0.0                                    | 115.7                   |
| “              | “              | “                           | 0.3                      | 0.3                                    | 115.4                   |
| N52W           | N81W           | $W^{\frac{3}{4}}N$          | 0.7                      | 1.0                                    | 114.7                   |
| “              | “              | “                           | 0.3                      | 1.3                                    | 114.4                   |
| N43W           | N73W           | $W \times N^{\frac{1}{2}}N$ | 0.6                      | 1.9                                    | 113.8                   |
| “              | “              | “                           | 0.2                      | 2.1                                    | 113.6                   |
| “              | “              | “                           | 0.8                      | 2.9                                    | 112.8                   |



|                 | Ketchikan to Petersburg                 | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-----------------|-----------------------------------------|---------------------------------|---------------------|
| Tongass Narrows | Red Nun No. 8                           | s.b.                            | $\frac{1}{16}$      |
|                 | Lewis Reef Lt.                          | p.b.                            | $\frac{1}{8}+$      |
|                 | Peninsula Pt. Bn.                       | s.b.                            | $\frac{3}{16}$      |
|                 | Channel Id. Lt.<br>Head on Pt. Higgins. | s.b.                            | $\frac{1}{16}$      |
|                 | Ohio Rk. Buoy                           | p.b.                            | $\frac{1}{8}$       |
|                 | Rosa Reef Lt.<br>Small Id. astern.      | p.b.                            | $\frac{3}{8}$       |
|                 | Pond Reef Buoy                          | s.b.                            | $\frac{3}{8}$       |

| True Course | Mag. Course | Mag. in Points            | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|---------------------------|-----------------------|-------------------------------|----------------------|
| N43W        | N73W        | $W \times N\frac{1}{2}N$  | 0.5                   | 3.4                           | 112.3                |
| “           | “           | “                         | 0.4                   | 3.8                           | 111.9                |
| “           | “           | “                         | 0.3                   | 4.1                           | 111.6                |
| N33W        | N63W        | $NW \times W\frac{5}{8}W$ | 1.2                   | 5.3                           | 110.4                |
| “           | “           | “                         | 0.2                   | 5.5                           | 110.2                |
| N47W        | N77W        | $W \times N\frac{1}{8}N$  | 1.5                   | 7.0                           | 108.7                |
| “           | “           | “                         | 1.2                   | 8.2                           | 107.5                |

|                 | Ketchikan to Petersburg                                                                              | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-----------------|------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Clarence Strait | Guard Id. Lt.                                                                                        | p.b.                            | $\frac{3}{4}$       |
|                 | Caamano Pt.<br>Guard Id. Lt. astern.                                                                 | s.b.                            | $\frac{3}{4}$       |
|                 | Niblack Hollow<br>Head on Narrow Pt. Lt.<br>There is a beacon on Niblack Pt.                         | s.b.                            | $\frac{7}{8}$       |
|                 | Ship Id. Lt.<br> | s.b.                            | $\frac{3}{4}$       |
|                 | Tolstoi Pt.                                                                                          | p.b.                            | $2\frac{1}{2}$      |
|                 | Narrow Pt. Lt.                                                                                       | p.b.                            | $1\frac{1}{8}$      |
|                 | Pt. Stanhope Buoy                                                                                    | s.b.                            | $1\frac{1}{2}$      |



| True Course | Mag. Course | Mag. in Points            | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|---------------------------|-----------------------|-------------------------------|----------------------|
| N67W        | S83W        | $W\frac{5}{8}S$           | 2.3                   | 10.5                          | 105.2                |
| N57W        | N87W        | $W\frac{1}{4}N$           | 4.8                   | 15.3                          | 100.4                |
| N37W        | N67W        | WNW                       | 7.0                   | 22.3                          | 93.4                 |
| N32W        | N62W        | $NW \times W\frac{1}{2}W$ | 3.0                   | 25.3                          | 90.4                 |
| “           | “           | “                         | 6.9                   | 32.2                          | 83.5                 |
| “           | “           | “                         | 7.5                   | 39.7                          | 76.0                 |
| “           | “           | “                         | 13.3                  | 53.0                          | 62.7                 |

|                 | Ketchikan to Petersburg                                                                                                        | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Clarence Strait | Pt. Stanhope                                                                                                                   | s.b.                            | 2 $\frac{1}{8}$     |
|                 | Lincoln Rk. Lt.<br>For Snow Passage, see page 236.                                                                             | s.b.                            | 1                   |
|                 | North End March Id.<br>↓ Steamer Cone.<br> | s.b.                            | 1                   |
|                 | Pt. Harrington<br>↓<br>                     | s.b.                            | 1                   |
|                 | Pt. Harrington Buoy                                                                                                            | s.b.                            | $\frac{1}{2}$       |
| Stikine Strait  | Stikine Strait Lt.                                                                                                             | s.b.                            | $\frac{3}{4}$       |
|                 | Island in Straits                                                                                                              | s.b.                            | $\frac{3}{8}$       |

| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| N32W        | N62W        | NW $\times$ W $\frac{1}{2}$ W | 0.5                   | 53.5                          | 62.2                 |
| N11W        | N41W        | NW $\frac{3}{8}$ N            | 3.9                   | 57.4                          | 58.3                 |
| N5W         | N35W        | NW $\frac{7}{8}$ N            | 4.2                   | 61.6                          | 54.1                 |
| N13E        | N17W        | N $\times$ W $\frac{1}{2}$ W  | 3.3                   | 64.9                          | 50.8                 |
| “           | “           | “                             | 0.4                   | 65.3                          | 50.4                 |
| N49E        | N19E        | N $\times$ E $\frac{3}{4}$ E  | 3.1                   | 68.4                          | 47.3                 |
| “           | “           | “                             | 1.3                   | 69.7                          | 46.0                 |

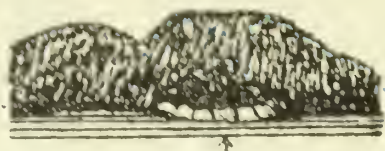


## Ketchikan to Petersburg

Port  
or  
Starboard  
BeamDist. off.  
Miles

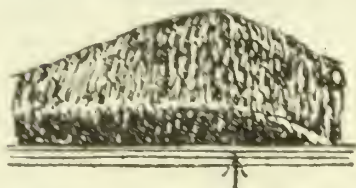
Round Pt.

p.b.

 $\frac{1}{2}$ 

South Craig Pt.

p.b.

 $\frac{3}{4}$ —

{ Bay Pt.  
{ Vank Id. Lt.

p.b.

 $\frac{7}{8}$ 

s.b.

 $\frac{7}{8}$ 

West end Vank Id.

s.b.

 $1\frac{1}{2}$ 

Pt. Craig Bn.

p.b.

 $\frac{3}{4}$ 

Station Id.

s.b.

1



Pt. Alexander Lt.

s.b.

 $\frac{7}{8}$ 

Stikine Strait

Sumner Strait

| True<br>Course | Mag.<br>Course | Mag.<br>in Points          | Dist. from<br>Pt. to Pt. | Dist.<br>from<br>Point of<br>Departure | Dist. to<br>Destination |
|----------------|----------------|----------------------------|--------------------------|----------------------------------------|-------------------------|
| N12E           | N18W           | $N \times W \frac{5}{8} W$ | 2.6                      | 72.3                                   | 43.4                    |
| N8W            | N38W           | $NW \frac{5}{8} N$         | 7.2                      | 79.5                                   | 36.2                    |
| N54W           | N84W           | $W \frac{1}{2} N$          | 2.7                      | 82.2                                   | 33.5                    |
| N79W           | S71W           | $W \times S \frac{5}{8} S$ | 3.0                      | 85.2                                   | 30.5                    |
| “              | “              | “                          | 1.7                      | 86.9                                   | 28.8                    |
| “              | “              | “                          | 1.6                      | 88.5                                   | 27.2                    |
| N9W            | N40W           | $NW \frac{1}{2} N$         | 6.1                      | 94.6                                   | 21.1                    |

|                  | Ketchikan to Petersburg     | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|------------------|-----------------------------|---------------------------------|---------------------|
| Wrangell Narrows | Pt. Alexander Lt., 2nd Time | s.b.                            | $\frac{1}{2}$       |
|                  | Midway Rk. Lt.              | s.b.                            | $\frac{3}{16}$      |
|                  | Deception Pt.               | p.b.                            | $\frac{3}{16}$      |
|                  | December Pt.                | s.b.                            | $\frac{1}{8}$       |
|                  | Pt. Lockwood                | p.b.                            | $\frac{1}{8}$       |
|                  | Pt. Lockwood Bn.            | p.b.                            | $\frac{1}{16} +$    |
|                  | Pt. Lockwood Rk. Float Lt.  | p.b.                            | close               |



| True Course | Mag. Course | Mag. in Points               | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|------------------------------|-----------------------|-------------------------------|----------------------|
| N9W         | N40W        | NW $\frac{1}{2}$ N           | 0.9                   | 95.5                          | 20.2                 |
| N12E        | N19W        | N $\times$ W $\frac{3}{4}$ W | 1.3                   | 96.8                          | 18.9                 |
| “           | “           | “                            | 0.5                   | 97.3                          | 18.4                 |
| “           | “           | “                            | 0.6                   | 97.9                          | 17.8                 |
| N19W        | N50W        | NW $\frac{1}{2}$ W           | 0.5                   | 98.4                          | 17.3                 |
| “           | “           | “                            | 0.4                   | 98.8                          | 16.9                 |
| N46W        | N77W        | W $\times$ N $\frac{1}{8}$ N | 0.2                   | 99.0                          | 16.7                 |

## Ketchikan to Petersburg

Port  
or  
Starboard  
BeamDist. off.  
MilesGreen Top Id.  
Or Little Battery Id.

s.b.

 $\frac{1}{8}$ 

Battery Id. Lt.

s.b.

 $\frac{1}{16}$ Boulder Flat  
Battery Id. Lt. astern.

p.b.

 $\frac{1}{16}$ No Thoroughfare Pt.  
Whitewashed Rk.

p.b.

 $\frac{1}{16}$ Kelp Flat  
Passing Spike Ledge Buoy H. S. S. close  
to port. This buoy marks S end of  
Spike Ledge, about S2E true 160 yards  
from light.

s.b.

 $\frac{1}{16}$ 

Spike Rk. Lt.

p.b.

 $\frac{1}{16}$ 

Position

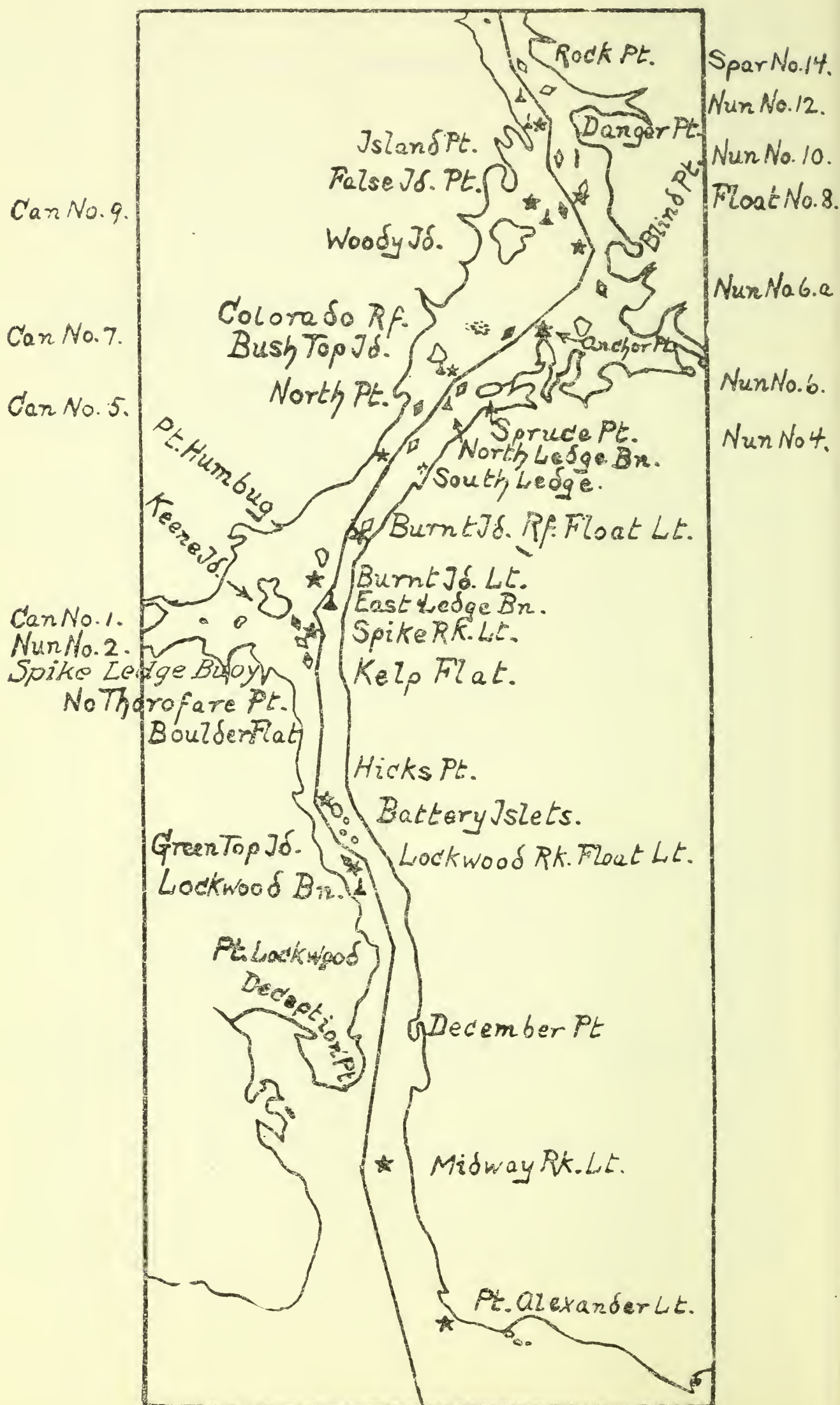
| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| N21W        | N52W        | NW $\frac{5}{8}$ W            | 0.3                   | 99.3                          | 16.4                 |
| N6E         | N25W        | NW $\times$ N $\frac{3}{4}$ N | 0.3                   | 99.6                          | 16.1                 |
| N2W         | N33W        | NW $\times$ N $\frac{1}{8}$ N | 0.4                   | 100.0                         | 15.7                 |
| “           | “           | “                             | 0.3                   | 100.3                         | 15.4                 |
| North       | N31W        | NW $\times$ N $\frac{1}{4}$ N | 0.3                   | 100.6                         | 15.1                 |
| N12W        | N43W        | NW $\frac{1}{4}$ N            | 0.3                   | 100.9                         | 14.8                 |
| N17E        | N14W        | N $\times$ W $\frac{1}{4}$ W  | 0.2                   | 101.1                         | 14.6                 |



| ET    | ET    | ET    | ET      | ET      | ET      |
|-------|-------|-------|---------|---------|---------|
| 6.01  | 10.00 | 10.00 | W - 100 | W - 100 | W - 100 |
| 7.01  | 10.00 | 10.00 | W - 100 | W - 100 | W - 100 |
| 8.01  | 10.00 | 10.00 | W - 100 | W - 100 | W - 100 |
| 9.01  | 10.00 | 10.00 | W - 100 | W - 100 | W - 100 |
| 10.01 | 10.00 | 10.00 | W - 100 | W - 100 | W - 100 |
| 11.01 | 10.00 | 10.00 | W - 100 | W - 100 | W - 100 |
| 12.01 | 10.00 | 10.00 | W - 100 | W - 100 | W - 100 |
| 13.01 | 10.00 | 10.00 | W - 100 | W - 100 | W - 100 |
| 14.01 | 10.00 | 10.00 | W - 100 | W - 100 | W - 100 |
| 15.01 | 10.00 | 10.00 | W - 100 | W - 100 | W - 100 |
| 16.01 | 10.00 | 10.00 | W - 100 | W - 100 | W - 100 |
| 17.01 | 10.00 | 10.00 | W - 100 | W - 100 | W - 100 |
| 18.01 | 10.00 | 10.00 | W - 100 | W - 100 | W - 100 |
| 19.01 | 10.00 | 10.00 | W - 100 | W - 100 | W - 100 |
| 20.01 | 10.00 | 10.00 | W - 100 | W - 100 | W - 100 |

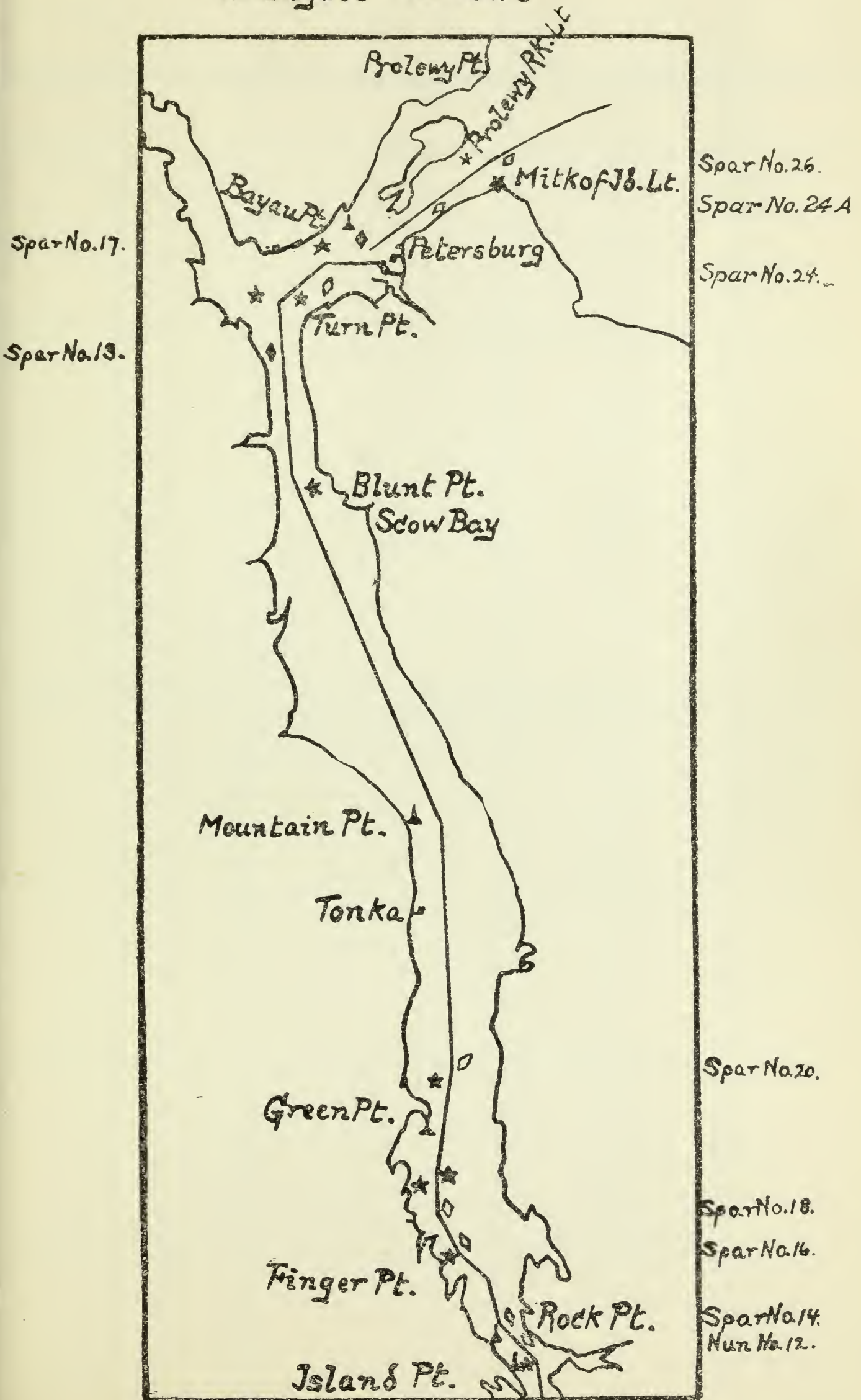


## Wrangell Narrows.





## Wrangell Narrows.





|  | Description of Property   | Value  | Date     | Owner    | Agent    |
|--|---------------------------|--------|----------|----------|----------|
|  | Lot 1, Block 1, Subdiv. 1 | 100.00 | 1/1/1900 | John Doe | John Doe |
|  | Lot 2, Block 1, Subdiv. 1 | 100.00 | 1/1/1900 | John Doe | John Doe |
|  | Lot 3, Block 1, Subdiv. 1 | 100.00 | 1/1/1900 | John Doe | John Doe |
|  | Lot 4, Block 1, Subdiv. 1 | 100.00 | 1/1/1900 | John Doe | John Doe |
|  | Lot 5, Block 1, Subdiv. 1 | 100.00 | 1/1/1900 | John Doe | John Doe |
|  | Lot 6, Block 1, Subdiv. 1 | 100.00 | 1/1/1900 | John Doe | John Doe |



## Ketchikan to Petersburg

Port  
or  
Starboard  
BeamDist. off.  
Miles

East Ledge Bn.

s.b.

 $\frac{1}{16}$ —

Burnt Id. Ledge Lt.

p.b.

 $\frac{1}{16}$ —

Burnt Id.

p.b.

 $\frac{1}{16}$ —

Burnt Id. Reef Float Lt.

Bush Top Id. and Burnt Id. Lt. in line.

s.b.

close

South Ledge Lt.

p.b.

 $\frac{1}{16}$ —

South Ledge Buoy No. 4

s.b.

close

North Pt. Buoy No. 5

p.b.

close

| True Course | Mag. Course | Mag. in Points             | Dist. from Pt. to Pt. | Dist. from point of Departure | Dist. to Destination |
|-------------|-------------|----------------------------|-----------------------|-------------------------------|----------------------|
| N17E        | N14W        | $N \times W \frac{1}{4} W$ | 0.1                   | 101.2                         | 14.5                 |
| “           | “           | “                          | 0.2                   | 101.4                         | 14.3                 |
| “           | “           | “                          | 0.1                   | 101.5                         | 14.2                 |
| N28E        | N3W         | $N \frac{1}{4} W$          | 0.2                   | 101.7                         | 14.0                 |
| N36E        | N5E         | $N \frac{1}{2} E$          | 0.7                   | 102.4                         | 13.3                 |
| N41E        | N10E        | $N \frac{7}{8} E$          | 0.2                   | 102.6                         | 13.1                 |
| N33E        | N2E         | $N \frac{1}{4} E$          | 0.3                   | 102.9                         | 12.8                 |

|                  | Ketchikan to Petersburg                | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles                |
|------------------|----------------------------------------|---------------------------------|------------------------------------|
| Wrangell Narrows | North Ledge Bn.                        | s.b.                            | close                              |
|                  | North Ledge Buoy No. 6                 | s.b.                            | close                              |
|                  | { Bush Top Id. Lt.<br>Bush Top Id. Bn. | p.b.<br>p.b.                    | $\frac{1}{16}$<br>$\frac{1}{16} +$ |
|                  | Colorado Reef Buoy No. 7               | p.b.                            | $\frac{1}{16}$                     |
|                  | Anchor Pt. Lt.                         | s.b.                            | $\frac{1}{16}$                     |
|                  | Blind Pt. Buoy No. 6a                  | s.b.                            | close                              |
|                  | Kildahles Saltery Lt.                  | p.b.                            | $\frac{1}{16}$                     |



| True Course | Mag. Course | Mag. in Points            | Dist. from Pt. to Pt. | Dist. from point of Departure | Dist. to Destination |
|-------------|-------------|---------------------------|-----------------------|-------------------------------|----------------------|
| N33E        | N2E         | $N\frac{1}{4}E$           | 0.2                   | 103.1                         | 12.6                 |
| N61E        | N30E        | $NE \times N\frac{3}{8}N$ | 0.1                   | 103.2                         | 12.5                 |
| “           | “           | “                         | 0.1                   | 103.3                         | 12.4                 |
| N33E        | N2E         | $N\frac{1}{4}E$           | 0.6                   | 103.9                         | 11.8                 |
| “           | “           | “                         | 0.1                   | 104.0                         | 11.7                 |
| N17E        | N14W        | $N \times W\frac{1}{4}W$  | 0.5                   | 104.5                         | 11.2                 |
| N33W        | N64W        | $NW \times W\frac{5}{8}W$ | 0.3                   | 104.8                         | 10.9                 |

## Ketchikan to Petersburg

Port  
or  
Starboard  
BeamDist. off.  
Miles

{ Danger Pt. Float Lt. No. 8  
 { Black Can No. 9  
 { Vexation Pt. Bn.

s.b. close  
 p.b. close  
 p.b.  $\frac{1}{16}$

{ Vexation Pt. Lt.  
 { Red Nun No. 10

p.b.  $\frac{1}{16}$   
 s.b.  $\frac{1}{16}$

{ South Green Rks. Lt.  
 { Green Rks., South Bn.

p.b.  $\frac{1}{16}$   
 p.b.  $\frac{1}{8}$

Red Nun No. 12

s.b. close

Green Rks., North Bn.

p.b.  $\frac{1}{16}$ 

Red Spar No. 14

Head on North Flat Lt.  
 Green Rks. North Bn. astern.

s.b. close

Finger Pt.

Tides meet here.

p.b.  $\frac{1}{8}$

| True Course | Mag. Course | Mag. in Points              | Dist. from Pt. to Pt. | Dist. from point of Departure | Dist to Destination |
|-------------|-------------|-----------------------------|-----------------------|-------------------------------|---------------------|
| N43W        | N74W        | $W \times N \frac{3}{8} N$  | 0.4                   | 105.2                         | 10.5                |
| North       | N31W        | $NW \times N \frac{1}{4} N$ | 0.2                   | 105.4                         | 10.3                |
| N39W        | N70W        | $W \times N \frac{3}{4} N$  | 0.5                   | 105.9                         | 9.8                 |
| “           | “           | “                           | 0.1                   | 106.0                         | 9.7                 |
| “           | “           | “                           | 0.1                   | 106.1                         | 9.6                 |
| N19W        | N50W        | $NW \frac{1}{2} W$          | 0.1                   | 106.2                         | 9.5                 |
| N26W        | N57W        | $NW \times W \frac{1}{8} W$ | 0.5                   | 106.7                         | 9.0                 |



|                  | Ketchikan to Petersburg                        | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|------------------|------------------------------------------------|---------------------------------|---------------------|
| Wrangell Narrows | South Flat Lt.                                 | p.b.                            | close               |
|                  | Red Spar No. 16                                | s.b.                            | close               |
|                  | Red Spar No. 18                                | s.b.                            | close               |
|                  | South Flat Middle Lt.                          | p.b.                            | close               |
|                  | North Flat Lt.<br>South Flat Middle Lt. astern | s.b.                            | close               |
|                  | Green Pt. Bn.                                  | p.b.                            | $\frac{3}{16}$      |
|                  | South Flat, North End Lt.                      | p.b.                            | $\frac{1}{16}$      |

| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| N22W        | N53W        | NW $\frac{3}{4}$ W            | 0.2                   | 106.9                         | 8.8                  |
| “           | “           | “                             | 0.1                   | 107.0                         | 8.7                  |
| N8W         | N39W        | NW $\frac{1}{2}$ N            | 0.4                   | 107.4                         | 8.3                  |
| “           | “           | “                             | 0.1                   | 107.5                         | 8.2                  |
| N10E        | N21W        | N $\times$ W $\frac{7}{8}$ W  | 0.1                   | 107.6                         | 8.1                  |
| “           | “           | “                             | 0.3                   | 107.9                         | 7.8                  |
| North       | N31W        | NW $\times$ N $\frac{1}{4}$ N | 0.2                   | 108.1                         | 7.6                  |

|                  | Ketchikan to Petersburg | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|------------------|-------------------------|---------------------------------|---------------------|
| Wrangell Narrows | Red Spar No. 20         | s.b.                            | $\frac{1}{16}$      |
|                  | Tonka Wharf             | p.b.                            | $\frac{3}{16}$      |
|                  | Mountain Pt. Bn.        | p.b.                            | $\frac{1}{4}$       |
|                  | Blunt Pt.               | s.b.                            | $\frac{1}{4}$       |
|                  | Blunt Pt. Reef Lt.      | s.b.                            | $\frac{1}{16}$      |
|                  | Black Spar No. 13       | p.b.                            | close               |
|                  | Turn Pt.                | s.b.                            | $\frac{3}{16}$      |



| True Course | Mag. Course | Mag. in Points         | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|------------------------|-----------------------|-------------------------------|----------------------|
| North       | N31W        | NW × N $\frac{1}{4}$ N | 0.1                   | 108.2                         | 7.5                  |
| “           | “           | “                      | 1.3                   | 109.5                         | 6.2                  |
| N22W        | N53W        | NW $\frac{3}{4}$ W     | 0.8                   | 110.3                         | 5.4                  |
| “           | “           | “                      | 2.5                   | 112.8                         | 2.9                  |
| N8W         | N39W        | NW $\frac{1}{2}$ N     | 0.2                   | 113.0                         | 2.7                  |
| “           | “           | “                      | 1.2                   | 114.2                         | 1.5                  |
| “           | “           | “                      | 0.2                   | 114.4                         | 1.3                  |

|                  | Ketchikan to Petersburg                                                                                                                                        | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Wrangell Narrows | Bayou Pt. Lt.                                                                                                                                                  | p.b.                            | $\frac{1}{16}$      |
|                  | Turn Pt. Shoal Lt.                                                                                                                                             | s.b.                            | $\frac{1}{16}$      |
|                  | { Red Spar No. 24<br>Middle Ground Lt.                                                                                                                         | s.b.                            | close               |
|                  |                                                                                                                                                                | p.b.                            | close               |
|                  | The bar is here, best depth 9 feet; shoalest place in Narrows.                                                                                                 |                                 |                     |
|                  | <b>Petersburg Wharf</b><br>Middle Ground Bn. is off the NW'ly shore abreast off Petersburg.<br>Black Spar No. 17 is 200 yards S43E true from Middle Ground Bn. |                                 |                     |
| <hr/>            |                                                                                                                                                                |                                 |                     |
|                  | Petersburg to Juneau                                                                                                                                           |                                 |                     |
| <hr/>            |                                                                                                                                                                |                                 |                     |
| Wrangell Narrows | <b>Petersburg City Dock</b><br>Turn Pt. Shoal Lt. astern.                                                                                                      | s.b.                            | $\frac{1}{8}$       |
|                  | <b>Mitkof Shoal Buoy No. 24a</b><br>Middle Ground Bn. astern.<br>Passing Prolewy Rks. Lt. to port, $\frac{1}{8}$ mile off.                                     | s.b.                            | close               |

| True Course | Mag. Course | Mag. in Points             | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|----------------------------|-----------------------|-------------------------------|----------------------|
| N44E        | N13E        | $N \times E \frac{1}{8} E$ | 0.2                   | 114.6                         | 1.1                  |
| “           | “           | “                          | 0.1                   | 114.7                         | 1.0                  |
| N83E        | N52E        | $NE \frac{5}{8} E$         | 0.5                   | 115.2                         | 0.5                  |
|             |             |                            | 0.5                   | 115.7                         | 0.0                  |
|             |             |                            |                       |                               |                      |
| N52E        | N21E        | $N \times E \frac{7}{8} E$ | 0.0                   | 0.0                           | 107.9                |
| N64E        | N33E        | $NE \times N$              | 0.6                   | 0.6                           | 107.3                |



## Petersburg to Juneau

Port  
or  
Starboard  
BeamDist. off.  
Miles

Wrangell Narrows

Mitkof Id. Lt.

s.b.

 $\frac{1}{8}$ 

Red Spar No. 26

s.b.

close

Go close to Spar, to clear 10-foot patch.

Position

Frederick Sound

Sukoi Id. Lt.

s.b.

 $\frac{1}{4}$ 

Beacon Pt. Bn.

p.b.

 $\frac{1}{2}$ 

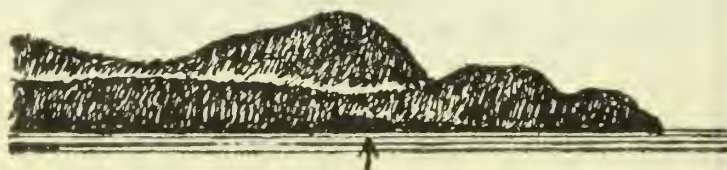
Cape Strait Lt.

p.b.

 $\frac{3}{4}$ 

Bay Pt.

s.b.

 $1\frac{1}{4}$ 

| True Course | Mag. Course | Mag. in Points        | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-----------------------|-----------------------|-------------------------------|----------------------|
| N64E        | N33E        | NE × N                | 0.2                   | 0.8                           | 107.1                |
| “           | “           | “                     | 0.2                   | 1.0                           | 106.9                |
| N19W        | N50W        | NW $\frac{1}{2}$ W    | 0.7                   | 1.7                           | 106.2                |
| “           | “           | “                     | 4.0                   | 5.7                           | 102.0                |
| N40W        | N71W        | W × N $\frac{3}{4}$ N | 3.1                   | 8.8                           | 99.1                 |
| N60W        | S89W        | W $\frac{1}{8}$ S     | 4.9                   | 13.7                          | 94.2                 |
| “           | “           | “                     | 9.7                   | 23.4                          | 84.5                 |

## Petersburg to Juneau

Port  
or  
Starboard  
BeamDist. off.  
Miles

Cape Fanshaw Lt.

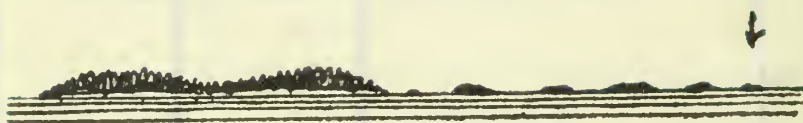
s.b.

1

Bird Rks.

s.b.

1



Southeast Five Finger Lt.

p.b.

1

Northwest Five Finger, North End

p.b.

1 1/8

Sail Id., North End

p.b.

2 5/8

McDonald Rk. Buoy

North end of the Twins abm.

s.b.

1 1/4

Pt. Hugh

p.b.

2 1/4





| True Course | Mag. Course | Mag. in Points               | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|------------------------------|-----------------------|-------------------------------|----------------------|
| N22W        | N53W        | NW $\frac{3}{4}$ W           | 10.0                  | 33.4                          | 74.5                 |
| N11E        | N20W        | N $\times$ W $\frac{3}{4}$ W | 2.1                   | 35.5                          | 72.4                 |
| N14W        | N46W        | NW $\frac{1}{8}$ W           | 4.0                   | 39.5                          | 68.4                 |
| "           | "           | "                            | 2.5                   | 42.0                          | 65.9                 |
| "           | "           | "                            | 3.2                   | 45.2                          | 62.7                 |
| "           | "           | "                            | 3.0                   | 48.2                          | 59.7                 |
| "           | "           | "                            | 10.4                  | 58.6                          | 49.3                 |

|                   | Petersburg to Juneau                                                                                                           | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Stephens Passage  | <p>Pt. Hugh Lt.</p> <p><i>Pt. Hugh.</i></p>  | p.b.                            | 1½                  |
|                   | <p>Midway Id. Lt.</p>                         | s.b.                            | 1½                  |
|                   | <p>Grave Pt. Lt.</p> <p>Taku Lt.</p>                                                                                           | s.b.                            | ¾                   |
|                   | <p>Bare Pt.</p> <p>Grave Pt. Lt. astern.</p>                                                                                   | p.b.                            | ¾                   |
|                   | <p>Pt. Arden Lt.</p> <p>Tides meet here.</p>                                                                                   | p.b.                            | ½                   |
| Gastineau Channel | <p>Marmion Id. Lt.</p>                                                                                                         | p.b.                            | ½+                  |
|                   | <p>Sheep Creek Lt.</p>                                                                                                         | s.b.                            | ¼-                  |

| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| N14W        | N46W        | NW $\frac{1}{8}$ W            | 2.8                   | 61.4                          | 46.5                 |
| N24W        | N56W        | NW $\times$ W                 | 12.8                  | 74.2                          | 33.7                 |
| “           | “           | “                             | 15.5                  | 89.7                          | 18.2                 |
| N31W        | N63W        | NW $\times$ W $\frac{5}{8}$ W | 2.8                   | 92.5                          | 15.4                 |
| N44W        | N76W        | W $\times$ N $\frac{1}{4}$ N  | 4.3                   | 96.8                          | 11.1                 |
| “           | “           | “                             | 3.5                   | 100.3                         | 7.6                  |
| “           | “           | “                             | 4.2                   | 104.5                         | 3.4                  |



|                   | Petersburg to Juneau | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-------------------|----------------------|---------------------------------|---------------------|
| Gastineau Channel | Juneau Id.           | p.b.                            | $\frac{1}{4}$ —     |
|                   | Juneau, City Dock    | s.b.                            | $\frac{1}{4}$       |
| Juneau to Yakutat |                      |                                 |                     |
| Gastineau Channel | Juneau, City Dock    | p.b.                            | $\frac{1}{4}$       |
|                   | Juneau Id.           | s.b.                            | $\frac{1}{4}$ —     |
|                   | Sheep Creek Lt.      | p.b.                            | $\frac{1}{4}$ —     |
|                   | Marmion Id. Lt.      | s.b.                            | $\frac{1}{2}$ +     |

| True Course | Mag. Course | Mag. in Points        | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-----------------------|-----------------------|-------------------------------|----------------------|
| N44W        | N76W        | W × N $\frac{1}{4}$ N | 2.0                   | 106.5                         | 1.4                  |
|             |             |                       | 1.4                   | 107.9                         | 0.0                  |
|             |             |                       |                       |                               |                      |
| S44E        | S76E        | E × S $\frac{1}{4}$ S | 0.0                   | 0.0                           | 247.7                |
| “           | “           | “                     | 1.4                   | 1.4                           | 246.3                |
| “           | “           | “                     | 2.0                   | 3.4                           | 244.3                |
| S53W        | S21W        | S × W $\frac{7}{8}$ W | 4.2                   | 7.6                           | 240.1                |

## Juneau to Yakutat

Port  
or  
Starboard  
BeamDist. off.  
Miles

Marmion Id. Lt., 2nd Time

s.b.

 $\frac{1}{2}+$ 

Iceberg Pt.

s.b.

 $\frac{5}{8}$ 

Pt. Hilda

s.b.

 $\frac{5}{8}$ 

Middle Pt.

s.b.

 $\frac{5}{8}$ 

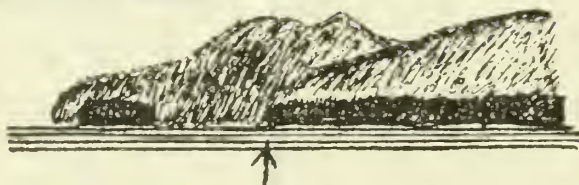
Middle Pt. Lt.

s.b.

 $\frac{5}{8}$ On Sandspit  
Head on Shelter Id. Lt.

Outer Pt.

s.b.

 $\frac{3}{4}$ 

SE end Portland Id.

s.b.

 $\frac{1}{2}$ 

Pt. Retreat Lt. and Outer Pt. in line.



| True Course | Mag. Course | Mag. in Points              | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-----------------------------|-----------------------|-------------------------------|----------------------|
| S53W        | S21W        | $S \times W \frac{7}{8} W$  | 1.0                   | 8.6                           | 239.1                |
| N77W        | S71W        | $W \times S \frac{5}{8} S$  | 1.1                   | 9.7                           | 238.0                |
| N73W        | S75W        | $W \times S \frac{1}{4} S$  | 7.6                   | 17.3                          | 230.4                |
| N50W        | N82W        | $W \frac{3}{4} N$           | 3.1                   | 20.4                          | 227.3                |
| N33W        | N65W        | $NW \times W \frac{3}{4} W$ | 1.8                   | 22.2                          | 225.5                |
| “           | “           | “                           | 3.8                   | 26.0                          | 221.7                |
| N52W        | N84W        | $W \frac{1}{2} N$           | 2.2                   | 28.2                          | 219.5                |

|                 | Juneau to Yakutat                                                                   | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-----------------|-------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Saginaw Channel | Shelter Id. Sandspit                                                                | s.b.                            | $\frac{3}{8}$       |
|                 |    |                                 |                     |
|                 | Favorite Reef Gas and Bell Buoy                                                     | s.b.                            | $\frac{1}{4}$       |
|                 | Barlow Id. Lt.                                                                      | p.b.                            | $\frac{1}{2}$       |
|                 |  |                                 |                     |
| Lynn Canal      | Faust Rk. Buoy                                                                      | s.b.                            | $\frac{1}{4}$       |
|                 | Pt. Retreat Lt.                                                                     | p.b.                            | $\frac{1}{2}$       |
|                 | Pt. Retreat Lt., 2nd Time                                                           | p.b.                            | $\frac{5}{8}$       |
|                 | False Retreat Bn.                                                                   | p.b.                            | $\frac{3}{4}$       |

| True Course | Mag. Course | Mag. in Points            | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|---------------------------|-----------------------|-------------------------------|----------------------|
| N52W        | N84W        | $W\frac{1}{2}N$           | 4.0                   | 32.2                          | 215.5                |
| N27W        | N59W        | $NW \times W\frac{1}{4}W$ | 1.0                   | 33.2                          | 214.5                |
| N63W        | S85W        | $W\frac{1}{2}S$           | 2.0                   | 35.2                          | 212.5                |
| “           | “           | “                         | 1.0                   | 36.2                          | 211.5                |
| S13W        | S19E        | $S \times E\frac{5}{8}E$  | 0.7                   | 36.9                          | 210.8                |
| “           | “           | “                         | 1.1                   | 38.0                          | 209.7                |
| S1W         | S31E        | $SE \times S\frac{1}{4}S$ | 2.6                   | 40.6                          | 207.1                |



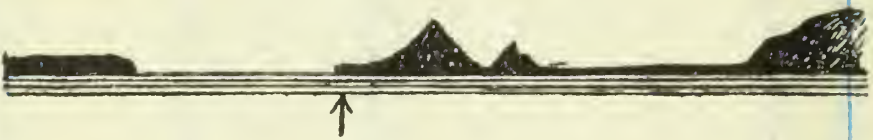
| Juneau to Yakutat |                                                                                                                | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-------------------|----------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Lynn Canal        | Naked Id. Lt                                                                                                   | p.b.                            | $1\frac{5}{8}$      |
|                   | Couverden Rk. Lt.                                                                                              | s.b.                            | 1                   |
|                   |  <p>Naked Id. Lt. astern.</p> |                                 |                     |
|                   | Rocky Id. Lt.                                                                                                  | s.b.                            | $\frac{1}{2}$       |
|                   | Rocky Id. Lt., 2nd Time                                                                                        | s.b.                            | $\frac{1}{2}$       |
| Icy Strait        | North end Sisters Id.                                                                                          | p.b.                            | $1\frac{1}{2}+$     |
|                   | Pt. Adolphus                                                                                                   | p.b.                            | 1                   |
|                   | Lemesurier Id. Lt.                                                                                             | p.b.                            | $\frac{3}{4}$       |
| North<br>Passage  |                                                                                                                |                                 |                     |

| True<br>Course | Mag.<br>Course | Mag.<br>in Points             | Dist. from<br>Pt. to Pt. | Dist.<br>from<br>Point of<br>Departure | Dist. to<br>Destination |
|----------------|----------------|-------------------------------|--------------------------|----------------------------------------|-------------------------|
| S1W            | S31E           | SE $\times$ S $\frac{1}{4}$ S | 7.0                      | 47.6                                   | 200.1                   |
| S31W           | South          | South                         | 2.8                      | 50.4                                   | 197.3                   |
| N71W           | S78W           | W $\times$ S                  | 2.5                      | 52.9                                   | 194.8                   |
| “              | “              | “                             | 0.7                      | 53.6                                   | 194.1                   |
| “              | “              | “                             | 6.1                      | 59.7                                   | 188.0                   |
| N78W           | S71W           | W $\times$ S $\frac{5}{8}$ S  | 18.0                     | 77.7                                   | 170.0                   |
| S76W           | S45W           | SW                            | 8.6                      | 86.3                                   | 161.4                   |

|                     | Juneau to Yakutat          | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|---------------------|----------------------------|---------------------------------|---------------------|
| North Inian<br>Pass | Dundas Hd.                 | s.b.                            | $\frac{7}{8}$       |
|                     | North Inian Pass Lt.       | p.b.                            | $\frac{5}{8}$       |
| Cross Sound         | Flat Id.                   | s.b.                            | 1—                  |
|                     | Cape Spencer Lt.           | s.b.                            | $1\frac{1}{2}$      |
|                     | Cape Spencer Lt., 2nd Time | s.b.                            | $1\frac{1}{2}$      |
| Gulf of Alaska      | Graves Rks.                | s.b.                            | $1\frac{1}{2}$      |
|                     | Icy Pt.                    | s.b.                            | $2\frac{7}{8}$      |



|  | True<br>Course | Mag.<br>Course | Mag.<br>in Points            | Dist. from<br>Pt. to Pt. | Dist.<br>from<br>Point of<br>Departure | Dist. to<br>Destination |
|--|----------------|----------------|------------------------------|--------------------------|----------------------------------------|-------------------------|
|  | S76W           | S45W           | SW                           | 7.6                      | 93.9                                   | 153.8                   |
|  | S46W           | S16W           | S $\times$ W $\frac{3}{8}$ W | 4.6                      | 98.5                                   | 149.2                   |
|  | “              | “              | “                            | 6.8                      | 105.3                                  | 142.4                   |
|  | N56W           | N86W           | W $\frac{3}{8}$ N            | 1.8                      | 107.1                                  | 140.6                   |
|  | “              | “              | “                            | 2.0                      | 109.1                                  | 138.6                   |
|  | “              | “              | “                            | 4.6                      | 113.7                                  | 134.0                   |
|  | “              | “              | “                            | 13.5                     | 127.2                                  | 120.5                   |

|  | Juneau to Yakutat                                                                  | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|--|------------------------------------------------------------------------------------|---------------------------------|---------------------|
|  | La Perouse Glacier, West side                                                      | s.b.                            | $3\frac{7}{8}$      |
|  | Harbor Pt.                                                                         | s.b.                            | 4                   |
|  |  |                                 |                     |
|  | Mt. Fairweather Peak                                                               | s.b.                            | 20                  |
|  | Cape Fairweather                                                                   | s.b.                            | $6\frac{7}{8}$      |
|  | Ocean Cape Lt.<br>Bearing $N\frac{3}{4}E$ mag.                                     | s.b.                            | 4                   |
|  | Ocean Cape Lt., 2nd time                                                           | s.b.                            | $2\frac{1}{2}$      |
|  | Ocean Cape Lt., 3rd time                                                           | s.b.                            | $1\frac{5}{8}$      |

Gulf of Alaska

Yakutat Bay

| True Course | Mag. Course | Mag. in Points            | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|---------------------------|-----------------------|-------------------------------|----------------------|
| N56W        | N86W        | $W\frac{3}{8}N$           | 8.5                   | 135.7                         | 112.0                |
| N52W        | N82W        | $W\frac{3}{4}N$           | 14.3                  | 150.0                         | 97.7                 |
| “           | “           | “                         | 8.0                   | 158.0                         | 89.7                 |
| “           | “           | “                         | 8.1                   | 166.1                         | 81.6                 |
| North       | N31W        | $NW \times N\frac{1}{4}N$ | 71.0                  | 237.1                         | 10.6                 |
| N48E        | N17E        | $N \times E\frac{1}{2}E$  | 3.1                   | 240.2                         | 7.5                  |
| “           | “           | “                         | 1.9                   | 242.1                         | 5.6                  |



|                    | Juneau to Yakutat                                     | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|--------------------|-------------------------------------------------------|---------------------------------|---------------------|
| Yakutat Bay        | Pt. Carew Lt.                                         | s.b.                            | 1                   |
|                    | Pt. Carew Lt., 2nd time                               | s.b.                            | $\frac{3}{4}$       |
| Monti Bay          | Pt. Turner Buoy<br>Yakutat Dk. and Pt. Carew in line. | p.b.                            | $\frac{1}{4}$       |
|                    | Yakutat Dock                                          |                                 |                     |
| Yakutat to Katalla |                                                       |                                 |                     |
| Monti Bay          | Yakutat Dock<br>Head on Pt. Carew; dock astern.       |                                 |                     |
|                    | Pt. Turner Buoy                                       | s.b.                            | $\frac{1}{4}$       |

| True Course | Mag. Course | Mag. in Points               | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|------------------------------|-----------------------|-------------------------------|----------------------|
| S54E        | S85E        | E $\frac{1}{2}$ S            | 1.2                   | 243.3                         | 4.4                  |
| “           | “           | “                            | 1.2                   | 244.5                         | 3.2                  |
| S80E        | N69E        | E $\times$ N $\frac{7}{8}$ N | 1.5                   | 246.0                         | 1.7                  |
|             |             |                              | 1.7                   | 247.7                         | 0.0                  |
| N80W        | S69W        | W $\times$ S $\frac{7}{8}$ S | 0.0                   | 0.0                           | 177.0                |
| N54W        | N85W        | W $\frac{1}{2}$ N            | 1.7                   | 1.7                           | 175.3                |

|                | Yakutat to Katalla                                                                         | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|----------------|--------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Yakutat Bay    | Pt. Carew Lt.                                                                              | p.b.                            | $\frac{3}{4}$       |
|                | Pt. Carew Lt., 2nd time                                                                    | p.b.                            | $\frac{3}{4}$       |
|                | Pt. Manby                                                                                  | s.b.                            | $6\frac{1}{2}$      |
| Gulf of Alaska | Icy Bay, West side                                                                         | s.b.                            | $15\frac{1}{4}$     |
|                | Cape St. Elias Gas & Whistling Buoy<br>Submarine Bell on Buoy.<br>Moored off Southeast Rk. | s.b.                            | $1\frac{1}{4}$ —    |
|                | Cape St. Elias Lt.                                                                         | s.b.                            | 4                   |
|                | Pinnacle Rk.                                                                               | s.b.                            | $3\frac{3}{4}$      |



| True Course | Mag. Course | Mag. in Points                       | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|--------------------------------------|-----------------------|-------------------------------|----------------------|
| N87W        | S63W        | SW × W <sup>5</sup> / <sub>8</sub> W | 1.5                   | 3.2                           | 173.8                |
| “           | “           | “                                    | 0.4                   | 3.6                           | 173.4                |
| “           | “           | “                                    | 15.0                  | 18.6                          | 158.4                |
| “           | “           | “                                    | 37.6                  | 56.2                          | 120.8                |
| “           | “           | “                                    | 91.4                  | 147.6                         | 29.4                 |
| “           | “           | “                                    | 0.6                   | 148.2                         | 28.8                 |
| “           | “           | “                                    | 0.1                   | 148.3                         | 28.7                 |

|  | Yakutat to Katalla            | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|--|-------------------------------|---------------------------------|---------------------|
|  | Position                      |                                 |                     |
|  | Gas Buoy, 2nd time            | s.b.                            | 2 $\frac{1}{2}$ —   |
|  | Pinnacle Rk., 2nd time        | s.b.                            | 1 $\frac{7}{8}$     |
|  | Cape St. Elias Lt., 2nd time  | s.b.                            | 2                   |
|  | Sea Ranger Reef, 4 fms. patch | s.b.                            | 1 $\frac{1}{2}$     |
|  | North end Wingham Id.         | s.b.                            | 5 $\frac{3}{8}$     |
|  | South end Martin Ids.         | p.b.                            | 2 $\frac{1}{4}$     |

Gulf of Alaska

Katalla Bay

| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| N1W         | N30W        | NW $\times$ N $\frac{3}{8}$ N | 1.7                   | 150.0                         | 27.0                 |
| "           | "           | "                             | 1.0                   | 151.0                         | 26.0                 |
| "           | "           | "                             | 2.5                   | 153.5                         | 23.5                 |
| "           | "           | "                             | 0.3                   | 153.8                         | 23.2                 |
| N13E        | N16W        | N $\times$ W $\frac{1}{2}$ W  | 3.6                   | 157.4                         | 19.6                 |
| "           | "           | "                             | 13.2                  | 170.6                         | 6.4                  |
| "           | "           | "                             | 5.2                   | 175.8                         | 1.2                  |



|                                                                                    | Yakutat to Katalla                                                                                 | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Katalla Bay                                                                        | <b>Katalla, off Palm Pt.</b><br>Anchorage, 7 fms. water.                                           | p.b.                            | 1 $\frac{1}{8}$     |
| <b>Katalla to Cordova</b><br>Via North Channel<br>For Odiak Channel, see page 174. |                                                                                                    |                                 |                     |
| Katalla Bay                                                                        | <b>Katalla Anchorage</b>                                                                           |                                 |                     |
|                                                                                    | <b>South end Martin Ids.</b>                                                                       | s.b.                            | 1 $\frac{1}{4}$     |
|                                                                                    | <b>Position</b><br>When round on course S end Martin Id.<br>should be abm. 2nd time, dist 2 miles. |                                 |                     |
| Gulf of Alaska                                                                     | <b>Cape Hinchinbrook Lt.</b>                                                                       | s.b.                            | 2                   |
|                                                                                    | <b>Cape Hinchinbrook Lt., 2nd time</b>                                                             | s.b.                            | 2                   |

| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
|             |             |                               | 1.2                   | 177.0                         | 0.0                  |
| S45W        | S16W        | S $\times$ W $\frac{1}{2}$ W  | 0.0                   | 0.0                           | 119.3                |
| "           | "           | "                             | 2.2                   | 2.2                           | 117.1                |
| N86W        | S65W        | SW $\times$ W $\frac{3}{4}$ W | 1.5                   | 3.7                           | 115.6                |
| N34W        | N63W        | NW $\times$ W $\frac{5}{8}$ W | 61.0                  | 64.7                          | 54.6                 |
| "           | "           | "                             | 1.8                   | 66.5                          | 52.8                 |

|                       | Katalla to Cordova      | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-----------------------|-------------------------|---------------------------------|---------------------|
| Hinchinbrook Entrance | Pt. Etches              | s.b.                            | 2                   |
|                       | Bear Cape               | s.b.                            | 1 $\frac{3}{8}$     |
| Prince William Sound  | Anchor Pt.              | s.b.                            | 1 $\frac{1}{4}$     |
|                       | Johnstone Pt. Lt.       | s.b.                            | 1 $\frac{1}{4}$     |
|                       | Middle Ground Bell Buoy | s.b.                            | 1 $\frac{1}{2}$     |
| Orca Bay              | Gravina Pt. Lt.         | p.b.                            | 2 $\frac{3}{4}$     |
|                       | Hanks Id. Buoy          | p.b.                            | 1 $\frac{1}{2}$ —   |



| True Course | Mag. Course | Mag. in Points                       | Dist. from Pt. to Pt. | Dist. from point of Departure | Dist. to Destination |
|-------------|-------------|--------------------------------------|-----------------------|-------------------------------|----------------------|
| N1W         | N30W        | NW × N <sup>3</sup> / <sub>8</sub> N | 3.5                   | 70.0                          | 49.3                 |
| “           | “           | “                                    | 4.4                   | 74.4                          | 44.9                 |
| N31E        | N2E         | N <sup>1</sup> / <sub>4</sub> E      | 3.2                   | 77.6                          | 41.7                 |
| N61E        | N32E        | NE × N <sup>1</sup> / <sub>8</sub> N | 7.3                   | 84.9                          | 34.4                 |
| N82E        | N53E        | NE <sup>3</sup> / <sub>4</sub> E     | 8.5                   | 93.4                          | 25.9                 |
| “           | “           | “                                    | 4.5                   | 97.9                          | 21.4                 |
| “           | “           | “                                    | 7.4                   | 105.3                         | 14.0                 |

|                           | Katalla to Cordova                                        | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|---------------------------|-----------------------------------------------------------|---------------------------------|---------------------|
| Orca Bay                  | Hanks Id.                                                 | p.b.                            | 1 $\frac{1}{4}$ —   |
|                           | Windy Bay Lt.                                             | s.b.                            | $\frac{3}{4}$       |
|                           | Bomb Pt.                                                  | p.b.                            | $\frac{7}{8}$       |
| The Narrows               | Channel Id. Buoy                                          | p.b.                            | $\frac{1}{4}$       |
|                           | Channel Id. Lt.                                           | p.b.                            | $\frac{1}{4}$ +     |
|                           | Salmo Pt.<br>If entering via Odiak Channel, see page 174. | s.b.                            | $\frac{1}{4}$ —     |
| Orca Inlet, North Channel | North Id., North end                                      | s.b.                            | $\frac{1}{4}$ —     |

| True<br>Course | Mag.<br>Course | Mag.<br>in Points             | Dist. from<br>Pt. to Pt. | Dist.<br>from<br>point of<br>Departure | Dist. to<br>Destination |
|----------------|----------------|-------------------------------|--------------------------|----------------------------------------|-------------------------|
| N82E           | N53E           | NE $\frac{3}{4}$ E            | 0.5                      | 105.8                                  | 13.5                    |
| “              | “              | “                             | 0.9                      | 106.7                                  | 12.6                    |
| “              | “              | “                             | 1.4                      | 108.1                                  | 11.2                    |
| N59E           | N30E           | NE $\times$ N $\frac{3}{8}$ N | 2.5                      | 110.6                                  | 8.7                     |
| “              | “              | “                             | 0.5                      | 111.1                                  | 8.2                     |
| “              | “              | “                             | 1.1                      | 112.2                                  | 7.1                     |
| “              | “              | “                             | 1.3                      | 113.5                                  | 5.8                     |



|                           | Katalla to Cordova                 | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|---------------------------|------------------------------------|---------------------------------|---------------------|
| Orca Inlet, North Channel | North Rk. Spindle                  | s.b.                            | $\frac{1}{4}$       |
|                           | North Rk. Shoal Gas Buoy<br>No. 2. | s.b.                            | $\frac{1}{8}$       |
|                           | Red Nun No. 4                      | s.b.                            | $\frac{1}{8}$       |
|                           | Orca Cannery                       | p.b.                            | $\frac{3}{8}$       |
|                           | Orca Inlet Gas Buoy<br>No. 6.      | s.b.                            | $\frac{1}{8}$       |
|                           | Cordova Dock                       |                                 |                     |

| True Course | Mag. Course | Mag. in Points    | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------|-----------------------|-------------------------------|----------------------|
| S59E        | S88E        | E $\frac{1}{4}$ S | 0.4                   | 113.9                         | 5.4                  |
| S18W        | S11E        | S×E               | 0.7                   | 114.6                         | 4.7                  |
| S32W        | S3W         | S $\frac{1}{4}$ W | 1.7                   | 116.3                         | 3.0                  |
| “           | “           | “                 | 1.1                   | 117.4                         | 1.9                  |
| S20W        | S9E         | S $\frac{3}{4}$ E | 1.2                   | 118.6                         | 0.7                  |
|             |             |                   | 0.7                   | 119.3                         | 0.0                  |

**Cordova to Valdez**  
Via North Channel, and East of  
Bligh Id. Reef

Port  
or  
Starboard  
Beam

Dist. off.  
Miles

Cordova Dock

Orca Inlet Gas Buoy  
No. 6.

p.b.  $\frac{1}{8}$

Orca Cannery

s.b.  $\frac{3}{8}$

Red Nun No. 4

p.b.  $\frac{1}{8}$

North Rk. Shoal Gas Buoy  
No. 2.

p.b.  $\frac{1}{8}$ —

North Rock Spindle

p.b.  $\frac{1}{4}$

North Id., North end

p.b.  $\frac{1}{4}$ —



| True Course | Mag. Course | Mag. in Points       | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|----------------------|-----------------------|-------------------------------|----------------------|
| N20E        | N9W         | N $\frac{3}{4}$ W    | 0.0                   | 0.0                           | 73.9                 |
| N32E        | N3E         | N $\frac{1}{4}$ E    | 0.7                   | 0.7                           | 73.2                 |
| “           | “           | “                    | 1.2                   | 1.9                           | 72.0                 |
| N18E        | N11W        | N×W                  | 1.1                   | 3.0                           | 70.9                 |
| N59W        | N88W        | W $\frac{1}{4}$ N    | 1.7                   | 4.7                           | 69.2                 |
| S59W        | S30W        | SW×S $\frac{1}{4}$ S | 0.7                   | 5.4                           | 68.5                 |
| “           | “           | “                    | 0.4                   | 5.8                           | 68.1                 |

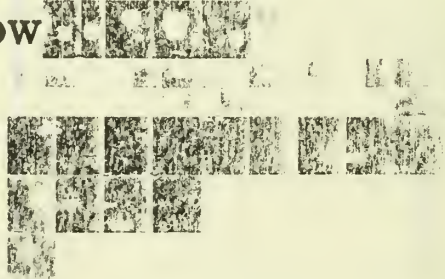
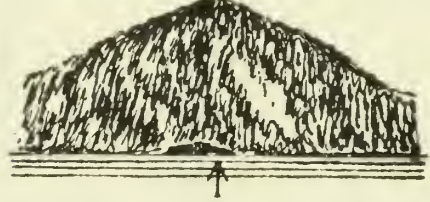
|             | Cordova to Valdez | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-------------|-------------------|---------------------------------|---------------------|
| The Narrows | Salmo Pt.         | p.b.                            | $\frac{1}{4}$ —     |
|             | Channel Id. Lt.   | p.b.                            | $\frac{1}{4}$ +     |
|             | Channel Id. Buoy  | s.b.                            | $\frac{1}{4}$       |
| Orca Bay    | Bomb Pt.          | s.b.                            | $\frac{7}{8}$       |
|             | Windy Bay Lt.     | p.b.                            | $\frac{3}{4}$       |
|             | Hanks Id.         | s.b.                            | $1\frac{1}{4}$ —    |
|             | Hanks Id. Buoy    | s.b.                            | $\frac{1}{2}$ —     |

| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| S59W        | S30W        | SW $\times$ S $\frac{1}{4}$ S | 1.3                   | 7.1                           | 66.8                 |
| “           | “           | “                             | 1.1                   | 8.2                           | 65.7                 |
| S82W        | S53W        | SW $\frac{3}{4}$ W            | 0.5                   | 8.7                           | 65.2                 |
| “           | “           | “                             | 2.5                   | 11.2                          | 62.7                 |
| “           | “           | “                             | 1.4                   | 12.6                          | 61.3                 |
| “           | “           | “                             | 0.9                   | 13.5                          | 60.4                 |
| N85W        | S66W        | SW $\times$ W $\frac{7}{8}$ W | 0.5                   | 14.0                          | 59.9                 |



Prince William Sound

Valdez Arm

| Cordova to Valdez                  |                                                                                     | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles           |
|------------------------------------|-------------------------------------------------------------------------------------|---------------------------------|-------------------------------|
| Gravina Pt. Lt.                    |                                                                                     | s.b.                            | 1                             |
| Gravina Id.                        |                                                                                     | s.b.                            | 1 <sup>5</sup> / <sub>8</sub> |
| Red Hd.                            |  | s.b.                            | 1 <sup>1</sup> / <sub>2</sub> |
| Knowles Hd.                        |  | s.b.                            | 1                             |
| Goose Id. Hollow<br>Center of Id.] |  | s.b.                            | 1                             |
| Bligh Id., SW Pt.                  |  | s.b.                            | <sup>3</sup> / <sub>4</sub>   |
| Reef Id. Reef Gas Buoy             |                                                                                     | s.b.                            | <sup>1</sup> / <sub>4</sub> — |

| True Course | Mag. Course | Mag. in Points         | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|------------------------|-----------------------|-------------------------------|----------------------|
| N72W        | S79W        | W × S                  | 7.9                   | 21.9                          | 52.0                 |
| “           | “           | “                      | 1.5                   | 23.4                          | 50.5                 |
| “           | “           | “                      | 6.2                   | 29.6                          | 44.3                 |
| N51W        | N80W        | W $\frac{7}{8}$ N      | 4.9                   | 34.5                          | 39.4                 |
| N21W        | N50W        | NW $\frac{1}{2}$ W     | 3.5                   | 38.0                          | 35.9                 |
| “           | “           | “                      | 6.7                   | 44.7                          | 29.2                 |
| N4E         | N25W        | NW × N $\frac{3}{4}$ N | 1.7                   | 46.4                          | 27.5                 |

|                | Cordova to Valdez                                                                                | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|----------------|--------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Valdez Arm     | Reef Id., SW Pt.                                                                                 | s.b.                            | $\frac{1}{2}$       |
|                | Busby Id. Lt.<br>Head on Middle Rk. Lt.                                                          | s.b.                            | $1\frac{1}{8}$      |
|                | Rocky Pt.<br> | s.b.                            | $\frac{3}{4}$       |
|                | Entrance Pt. Bn.                                                                                 | s.b.                            | $\frac{1}{4} +$     |
| Valdez Narrows | Middle Pt.                                                                                       | s.b.                            | $\frac{1}{4}$       |
|                | Middle Rk. Lt.                                                                                   | p.b.                            | $\frac{1}{4}$       |
|                | Entrance Id.<br>Heading on Valdez Dk.                                                            | s.b.                            | $\frac{3}{8}$       |



| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| N4E         | N25W        | NW $\times$ N $\frac{3}{4}$ N | 0.5                   | 46.9                          | 27.0                 |
| N28E        | N1W         | N $\frac{1}{8}$ W             | 3.3                   | 50.2                          | 23.7                 |
| “           | “           | “                             | 3.9                   | 54.1                          | 19.8                 |
| “           | “           | “                             | 7.4                   | 61.5                          | 12.4                 |
| N48E        | N19E        | N $\times$ E $\frac{3}{4}$ E  | 0.6                   | 62.1                          | 11.8                 |
| “           | “           | “                             | 0.6                   | 62.7                          | 11.2                 |
| N83E        | N54E        | NE $\frac{3}{4}$ E            | 1.1                   | 63.8                          | 10.1                 |

|                    | Cordova to Valdez                     | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|--------------------|---------------------------------------|---------------------------------|---------------------|
| Port Valdez        | Fort Liscum Dock                      | s.b.                            | 1 $\frac{1}{8}$     |
|                    | Valdez Dock                           |                                 |                     |
| Valdez to Latouche |                                       |                                 |                     |
| Port Valdez        | Valdez Dock<br>Put Valdez Dk. astern. |                                 |                     |
|                    | Fort Liscum Dock                      | p.b.                            | 1 $\frac{1}{8}$     |
|                    | Entrance Id.                          | p.b.                            | 3 $\frac{3}{8}$     |
| Valdez Narrows     | Middle Rk. Lt.                        | s.b.                            | 1 $\frac{1}{4}$     |

| True Course | Mag. Course | Mag. in Points               | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|------------------------------|-----------------------|-------------------------------|----------------------|
| N83E        | N54E        | NE $\frac{3}{4}$ E           | 7.3                   | 71.1                          | 2.8                  |
|             |             |                              | 2.8                   | 73.9                          | 0.0                  |
| S83W        | S54W        | SW $\frac{3}{4}$ W           | 0.0                   | 0.0                           | 84.1                 |
| "           | "           | "                            | 2.8                   | 2.8                           | 81.3                 |
| S48W        | S19W        | S $\times$ W $\frac{3}{4}$ W | 7.3                   | 10.1                          | 74.0                 |
| "           | "           | "                            | 1.1                   | 11.2                          | 72.9                 |



|                      | Valdez to Latouche                                            | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|----------------------|---------------------------------------------------------------|---------------------------------|---------------------|
| Valdez Narrows       | Middle Pt.                                                    | p.b.                            | $\frac{1}{4}$       |
|                      | Entrance Pt. Bn.                                              | p.b.                            | $\frac{1}{4}+$      |
|                      | Rocky Pt.                                                     | p.b.                            | $1\frac{3}{4}-$     |
| Valdez Arm           | Busby Id. Lt.                                                 | p.b.                            | $2\frac{1}{2}+$     |
|                      | Pt. Freemantle                                                | s.b.                            | $2\frac{1}{2}+$     |
|                      | South Peak Glacier Id.<br>$3\frac{1}{2}$ miles off the beach. | s.b.                            | 4                   |
| Prince William Sound | Peak on Naked Id.                                             | s.b.                            | $4\frac{1}{2}$      |

| True Course | Mag. Course | Mag. in Points    | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------|-----------------------|-------------------------------|----------------------|
| S36W        | S7W         | S $\frac{5}{8}$ W | 0.6                   | 11.8                          | 72.3                 |
| “           | “           | “                 | 0.6                   | 12.4                          | 71.7                 |
| “           | “           | “                 | 7.3                   | 19.7                          | 64.4                 |
| “           | “           | “                 | 3.6                   | 23.3                          | 60.8                 |
| “           | “           | “                 | 1.0                   | 24.3                          | 59.8                 |
| S22W        | S6E         | S $\frac{1}{2}$ E | 5.9                   | 30.2                          | 53.9                 |
| “           | “           | “                 | 13.5                  | 43.7                          | 40.4                 |

|                      | Valdez to Latouche                         | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|----------------------|--------------------------------------------|---------------------------------|---------------------|
| Prince William Sound | Smith Id. Lt.                              | s.b.                            | 1                   |
|                      | Seal Id. Buoy<br>Red Nun No. 2.            | p.b.                            | $\frac{3}{4}$ —     |
|                      | Seal Id. Lt.                               | p.b.                            | 1                   |
| Montague Strait      | Discovery Pt.                              | s.b.                            | $1\frac{3}{4}$      |
|                      | Pt. Helen Lt.                              | s.b.                            | 1                   |
|                      | Pt. Grace                                  | p.b.                            | $\frac{5}{8}+$      |
| Latouche Passage     | Position<br>East end of Hoodoo Id. astern. |                                 |                     |



| True Course | Mag. Course | Mag. in Points              | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-----------------------------|-----------------------|-------------------------------|----------------------|
| S43W        | S15W        | $S \times W^{\frac{3}{8}}W$ | 6.3                   | 50.0                          | 34.1                 |
| “           | “           | “                           | 5.6                   | 55.6                          | 28.5                 |
| S26W        | S2E         | $S^{\frac{1}{4}}E$          | 1.1                   | 56.7                          | 27.4                 |
| “           | “           | “                           | 13.8                  | 70.5                          | 13.6                 |
| S49W        | S21W        | $S \times W^{\frac{7}{8}}W$ | 6.0                   | 76.5                          | 7.6                  |
| “           | “           | “                           | 5.0                   | 81.5                          | 2.6                  |
| S7W         | S21E        | $S \times E^{\frac{7}{8}}E$ | 1.4                   | 82.9                          | 1.2                  |

|                   | Valdez to Latouche                                                       | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles             |
|-------------------|--------------------------------------------------------------------------|---------------------------------|---------------------------------|
|                   | Latouche Dock                                                            |                                 |                                 |
|                   | Latouche to Seward                                                       |                                 |                                 |
| Latouche Passage  | Latouche Dock                                                            |                                 |                                 |
|                   | Latouche Pt.                                                             | p.b.                            | $\frac{1}{8}+$                  |
|                   | Bettles Id., East end                                                    | s.b.                            | $\frac{3}{8}+$                  |
| Elrington Passage | { Turn Pt. No. 1<br>Elrington Pass Lt.<br>Put Elrington Pass Lt. astern. | p.b.<br>s.b.                    | $\frac{1}{4}$<br>$\frac{1}{4}-$ |
|                   | Turn Pt. No. 2                                                           | s.b.                            | $\frac{3}{8}-$                  |

| True Course | Mag. Course | Mag. in Points            | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|---------------------------|-----------------------|-------------------------------|----------------------|
|             |             |                           | 1.2                   | 84.1                          | 0.0                  |
|             |             |                           |                       |                               |                      |
| N53W        | N81W        | $W\frac{3}{4}N$           | 0.0                   | 0.0                           | 61.8                 |
| S72W        | S44W        | $SW\frac{1}{8}S$          | 0.1                   | 0.1                           | 61.7                 |
| S87W        | S59W        | $SW \times W\frac{1}{4}W$ | 2.4                   | 2.5                           | 59.3                 |
| S40W        | S12W        | $S \times W$              | 1.0                   | 3.5                           | 58.3                 |
| N77W        | S75W        | $W \times S\frac{1}{4}S$  | 4.9                   | 8.4                           | 53.4                 |



## Latouche to Seward

Port  
or  
Starboard  
BeamDist. off.  
Miles

Elrington Passage

Lone Tree Pt. Lt.

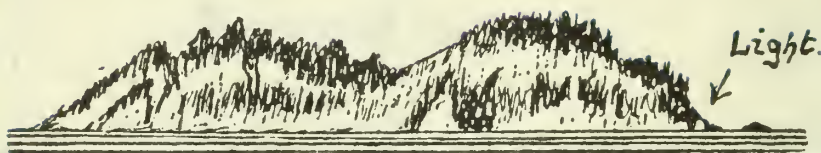
p.b.

 $\frac{3}{8}$ 

Pt. Elrington Lt.

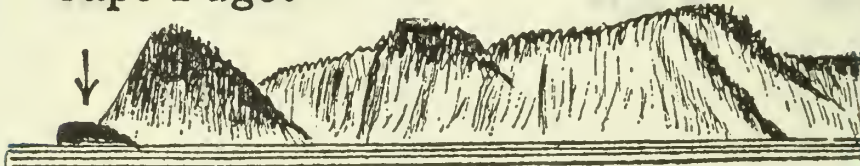
p.b.

2



Cape Puget

s.b.

 $1\frac{1}{2}$ 

Gulf of Alaska

Cape Junken  
Mummy Hd.

s.b.

 $1\frac{1}{2}$ 

Excelsior Glacier, West side

s.b.

4

Barwell Id.

s.b.

 $\frac{3}{4}$ 

Blying Sound

Barwell Id., 2nd time

s.b.

 $\frac{3}{4}$

| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| S60W        | S32W        | SW $\times$ S $\frac{1}{8}$ S | 2.6                   | 11.0                          | 50.8                 |
| “           | “           | “                             | 2.8                   | 13.8                          | 48.0                 |
| S71W        | S43W        | SW $\frac{1}{8}$ S            | 5.0                   | 18.8                          | 43.0                 |
| S84W        | S57W        | SW $\times$ W $\frac{1}{8}$ W | 6.3                   | 25.1                          | 36.7                 |
| “           | “           | “                             | 4.4                   | 29.5                          | 32.3                 |
| N39W        | N66W        | NW $\times$ W $\frac{7}{8}$ W | 15.4                  | 44.9                          | 16.9                 |
| “           | “           | “                             | 0.7                   | 45.6                          | 16.2                 |

## Latouche to Seward

Port  
or  
Starboard  
BeamDist. off.  
Miles

Hive Id. Ctr.

p.b.

 $\frac{1}{4} +$ 

Renard Hd.

s.b.

 $\frac{3}{8}$ 

Caines Hd. Lt.

Heading on Seward Dk.

p.b.

 $\frac{3}{4}$ 

Lowell Pt.

p.b.

 $\frac{1}{2}$ 

Seward Dk.

## Seward to Port Graham

Inside Pearl and Elizabeth Ids.

Seward Dk.



| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| N39W        | N66W        | NW $\times$ W $\frac{7}{8}$ W | 3.0                   | 48.6                          | 13.2                 |
| N6E         | N21W        | N $\times$ W $\frac{7}{8}$ W  | 1.0                   | 49.6                          | 12.2                 |
| N18W        | N45W        | NW                            | 4.9                   | 54.5                          | 7.3                  |
| “           | “           | “                             | 5.7                   | 60.2                          | 1.6                  |
|             |             |                               | 1.6                   | 61.8                          | 0.0                  |
| S18E        | S45E        | SE                            | 0.0                   | 0.0                           | 134.8                |

## Seward to Port Graham

Port  
or  
Starboard  
BeamDist. off.  
Miles

Lowell Pt.

s.b.

 $\frac{1}{2}$ 

Caines Hd. Lt.

Head on the small Id. to the right of  
Pilot Rk.

s.b.

 $\frac{3}{4}$ 

Hive Id. Ctr.

p.b.

1

Rugged Id., SW Pt.

p.b.

 $\frac{3}{4}$ 

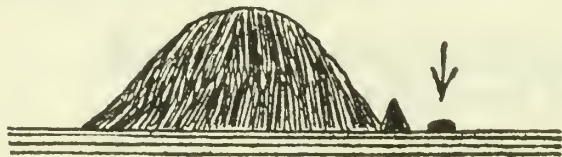
Pilot Rk. Lt.



s.b.

1

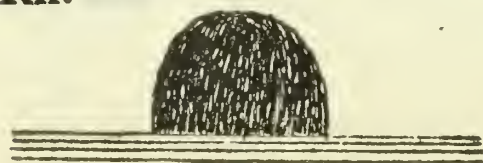
Chiswell Id., SE Rk.



s.b.

 $1\frac{1}{4}$ 

Lone Rk.



s.b.

1

Resurrection Bay

Blying Sound

Gulf of Alaska

| True Course | Mag. Course | Mag. in Points       | Dist. from Pt. to Pt. | Dist. from point of Departure | Dist. to Destination |
|-------------|-------------|----------------------|-----------------------|-------------------------------|----------------------|
| S18E        | S45E        | SE                   | 1.6                   | 1.6                           | 133.2                |
| S16W        | S11E        | S×E                  | 5.7                   | 7.3                           | 127.5                |
| “           | “           | “                    | 5.8                   | 13.1                          | 121.7                |
| S1W         | S26E        | SE×S $\frac{5}{8}$ S | 2.3                   | 15.4                          | 119.4                |
| S16W        | S11E        | S×E                  | 6.8                   | 22.2                          | 112.6                |
| S53W        | S26W        | SW×S $\frac{5}{8}$ S | 10.2                  | 32.4                          | 102.4                |
| “           | “           | “                    | 2.8                   | 35.2                          | 99.6                 |



## Seward to Port Graham

Port  
or  
Starboard  
BeamDist. off.  
Miles

Seal Rks. Lt.

p.b.

1



Pye Id.

s.b.

3½



Pye Id. Reef

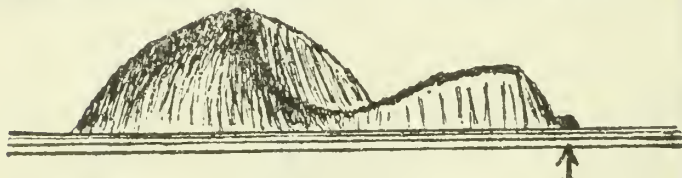
s.b.

2½

Pt. Gore

s.b.

3½



If going around Cape Elizabeth, see page 322.

Gore Rk.

s.b.

3½

*The sunken rock lies off this point.*

East Chugach Id. Lt.

s.b.

1

NE end Pearl Id.

p.b.

½

| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| S53W        | S26W        | SW $\times$ S $\frac{5}{8}$ S | 1.9                   | 37.1                          | 97.7                 |
| S64W        | S38W        | SW $\frac{5}{8}$ S            | 25.0                  | 62.1                          | 72.7                 |
| “           | “           | “                             | 2.1                   | 64.2                          | 70.6                 |
| “           | “           | “                             | 17.7                  | 81.9                          | 52.9                 |
| N88W        | S67W        | WSW                           | 8.7                   | 90.6                          | 44.2                 |
| N68W        | S87W        | W $\frac{1}{4}$ S             | 8.7                   | 99.3                          | 35.5                 |
| “           | “           | “                             | 6.2                   | 105.5                         | 29.3                 |

|                                 | Seward to Port Graham                                   | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|---------------------------------|---------------------------------------------------------|---------------------------------|---------------------|
| Inside Pearl and Elizabeth Ids. | <b>Blodgett Hd.</b><br>NW end Pearl Id.                 | p.b.                            | 1/2                 |
|                                 | { <b>Position</b><br><b>Nagahut Rks. should be abm.</b> | p.b.                            | 2 1/2               |
|                                 | <b>Sandspit</b><br>NE end Elizabeth Id.                 | p.b.                            | 1/2—                |
|                                 | <b>Black Rk.</b>                                        | p.b.                            | 3/8                 |
|                                 | <b>Yellow Bluff</b>                                     | s.b.                            | 1 1/2               |
| Cook Inlet                      | <b>Pt. Adam</b>                                         | s.b.                            | 1 1/2               |
|                                 | <b>Magnet Rk.</b><br>Heading on Anchor Pt. Lt.          | s.b.                            | 1 1/4               |



| True<br>Course | Mag.<br>Course | Mag.<br>in Points            | Dist. from<br>Pt. to Pt. | Dist.<br>from<br>Point of<br>Departure | Dist. to<br>Destination |
|----------------|----------------|------------------------------|--------------------------|----------------------------------------|-------------------------|
| N88W           | S67W           | WSW                          | 2.2                      | 107.7                                  | 27.1                    |
| N9W            | N34W           | NW $\times$ N                | 2.0                      | 109.7                                  | 25.1                    |
| N77W           | S78W           | W $\times$ S                 | 2.5                      | 112.2                                  | 22.6                    |
| “              | “              | “                            | 0.7                      | 112.9                                  | 21.9                    |
| N47W           | N72W           | W $\times$ N $\frac{5}{8}$ N | 4.6                      | 117.5                                  | 17.3                    |
| N12W           | N37W           | NW $\frac{3}{4}$ N           | 3.2                      | 120.7                                  | 14.1                    |
| N11E           | N14W           | N $\times$ W $\frac{1}{4}$ W | 4.2                      | 124.9                                  | 9.9                     |

|                 | Seward to Port Graham                              | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles    |
|-----------------|----------------------------------------------------|---------------------------------|------------------------|
| Cook Inlet      | Flat Id. Lt.<br>Head on False Danger Cape.         | s.b.                            | 1 $\frac{1}{4}$        |
|                 | English Bay Reef<br>Bare at low water.             | s.b.                            | 1 $\frac{1}{8}$        |
|                 | English Bay Reef, 2nd time                         | s.b.                            | 1 $\frac{1}{8}$        |
| Port Graham Bay | { Russian Pt.<br>Bird Reef                         | s.b.<br>p.b.                    | 1<br>5 $\frac{1}{8}$ + |
|                 | Port Graham Entrance Lt.<br>Head on Cannery Wharf. | s.b.                            | 1 $\frac{1}{8}$        |
|                 | East end Passage Id.                               | s.b.                            | 1 $\frac{1}{8}$ +      |
|                 | Sandspit<br>Point on North Shore astern.           | s.b.                            | 1 $\frac{1}{8}$ —      |
|                 |                                                    |                                 |                        |

| True Course | Mag. Course | Mag. in Points              | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-----------------------------|-----------------------|-------------------------------|----------------------|
| N42E        | N18E        | $N \times E^{\frac{5}{8}}E$ | 1.9                   | 126.8                         | 8.0                  |
| S86E        | N70E        | $E \times N^{\frac{3}{4}}N$ | 2.5                   | 129.3                         | 5.5                  |
| “           | “           | “                           | 1.0                   | 130.3                         | 4.5                  |
| “           | “           | “                           | 1.0                   | 131.3                         | 3.5                  |
| S52E        | S76E        | $E \times S^{\frac{1}{4}}S$ | 1.2                   | 132.5                         | 2.3                  |
| “           | “           | “                           | 0.3                   | 132.8                         | 2.0                  |
| S21E        | S45E        | SE                          | 0.2                   | 133.0                         | 1.8                  |



|                 | Seward to Port Graham                            | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-----------------|--------------------------------------------------|---------------------------------|---------------------|
| Port Graham     | Black Can No. 1                                  | p.b.                            | $\frac{1}{8}$       |
|                 | Port Graham Dk.                                  | s.b.                            | $\frac{1}{4}+$      |
|                 | Port Graham to Seldovia                          |                                 |                     |
| Port Graham Bay | Port Graham Dk.                                  | p.b.                            | $\frac{1}{4}+$      |
|                 | Black Can No. 1<br>Head on point on North shore. | s.b.                            | $\frac{1}{8}$       |
|                 | Sandspit                                         | p.b.                            | $\frac{1}{8}-$      |
|                 | East end Passage Id.                             | p.b.                            | $\frac{1}{8}+$      |

| True Course | Mag. Course | Mag. in Points               | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|------------------------------|-----------------------|-------------------------------|----------------------|
| S76E        | N80E        | E $\frac{7}{8}$ N            | 0.5                   | 133.5                         | 1.3                  |
|             |             |                              | 1.3                   | 134.8                         | 0.0                  |
|             |             |                              |                       |                               |                      |
| N76W        | S80W        | W $\frac{7}{8}$ S            | 0.0                   | 0.0                           | 16.0                 |
| N21W        | N45W        | NW                           | 1.3                   | 1.3                           | 14.7                 |
| N52W        | N76W        | W $\times$ N $\frac{1}{4}$ N | 0.5                   | 1.8                           | 14.2                 |
| "           | "           | "                            | 0.2                   | 2.0                           | 14.0                 |

|                 | Port Graham to Seldovia                           | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles             |
|-----------------|---------------------------------------------------|---------------------------------|---------------------------------|
| Port Graham Bay | Port Graham Entrance Lt.                          | p.b.                            | $\frac{1}{8}$                   |
|                 | { Bird Reef<br>Russian Pt.                        | s.b.<br>p.b.                    | $\frac{5}{8}+$<br>1             |
|                 | Bird Reef, 2nd time                               | s.b.                            | $\frac{5}{8}+$                  |
|                 | Dangerous Cape                                    | s.b.                            | $1\frac{1}{4}$                  |
| Cook Inlet      | { Dangerous Cape, 2nd time<br>Dangerous Cape Reef | s.b.<br>s.b.                    | $1\frac{1}{4}$<br>$\frac{3}{4}$ |
|                 | False Dangerous Cape                              | s.b.                            | 1                               |
|                 | False Dangerous Cape, 2nd time                    | s.b.                            | 1                               |



| True Course | Mag. Course | Mag. in Points              | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-----------------------------|-----------------------|-------------------------------|----------------------|
| N86W        | S70W        | $W \times S^{\frac{3}{4}}S$ | 0.3                   | 2.3                           | 13.7                 |
| N24W        | N48W        | $NW^{\frac{1}{4}}W$         | 1.2                   | 3.5                           | 12.5                 |
| "           | "           | "                           | 0.7                   | 4.2                           | 11.8                 |
| N31E        | N7E         | $N^{\frac{5}{8}}E$          | 0.4                   | 4.6                           | 11.4                 |
| "           | "           | "                           | 1.2                   | 5.8                           | 10.2                 |
| N69E        | N45E        | NE                          | 1.7                   | 7.5                           | 8.5                  |
| "           | "           | "                           | 0.7                   | 8.2                           | 7.8                  |

|              | Port Graham to Seldovia            | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|--------------|------------------------------------|---------------------------------|---------------------|
| Cook Inlet   | Pt. Naskowhak                      | s.b.                            | 1                   |
|              | Position<br>Head on Gray Cliff Lt. |                                 |                     |
| Seldovia Bay | Seldovia Pt.                       | p.b.                            | $\frac{7}{8}$       |
|              | Pt. Naskowhak, 2nd time            | s.b.                            | $\frac{1}{2}$ —     |
|              | Gray Cliff Lt.                     | p.b.                            | $\frac{1}{8}$ +     |
|              | Black Spar No. 1                   | p.b.                            | close               |
|              | Red Nun No. 2                      | s.b.                            | close               |

| True Course | Mag. Course | Mag. in Points | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|----------------|-----------------------|-------------------------------|----------------------|
| N69E        | N45E        | NE             | 4.8                   | 13.0                          | 3.0                  |
| S21E        | S45E        | SE             | 0.4                   | 13.4                          | 2.6                  |
| S9E         | S33E        | SE×S           | 0.5                   | 13.9                          | 2.1                  |
| “           | “           | “              | 0.6                   | 14.5                          | 1.5                  |
| “           | “           | “              | 0.2                   | 14.7                          | 1.3                  |
| “           | “           | “              | 0.2                   | 14.9                          | 1.1                  |
| S1W         | S23E        | SSE            | 0.2                   | 15.1                          | 0.9                  |



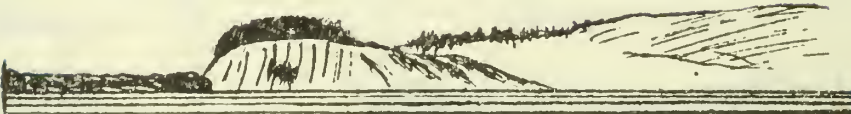
| Port Graham to Seldovia      |                                                                                                                                                            | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Seldovia Bay                 | <b>Watch Pt.</b><br>Passing to port, about 50 yards off Watch Pt. Shoal Spar Buoy No. 3 moored in 15 feet of water, about 175 yards southward of Watch Pt. | p.b.                            | $\frac{1}{16}$      |
|                              | <b>Seldovia Dk.</b><br>The channel has a depth of 18 feet at low water. Rise and fall of tides, 16 to 24 feet.                                             | p.b.                            | $\frac{1}{8}+$      |
| <b>Seldovia to Anchorage</b> |                                                                                                                                                            |                                 |                     |
| Seldovia Bay                 | <b>Seldovia Dk.</b><br>Passing Watch Pt. shoal Spar Buoy No. 3, about 50 yards to starboard.                                                               | s.b.                            | $\frac{1}{8}+$      |
|                              | <b>Watch Pt.</b>                                                                                                                                           | s.b.                            | $\frac{1}{16}$      |
|                              | <b>Red Nun Non 2</b>                                                                                                                                       | p.b.                            | close               |
|                              | <b>Black Spar No. 1</b>                                                                                                                                    | s.b.                            | close               |

| True Course | Mag. Course | Mag. in Points | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|----------------|-----------------------|-------------------------------|----------------------|
| S1W         | S23E        | SSE            | 0.2                   | 15.3                          | 0.7                  |
|             |             |                | 0.7                   | 16.0                          | 0.0                  |
|             |             |                |                       |                               |                      |
| N1E         | N23W        | NNW            | 0.0                   | 0.0                           | 138.3                |
| "           | "           | "              | 0.7                   | 0.7                           | 137.6                |
| N9W         | N33W        | NW × N         | 0.2                   | 0.9                           | 137.4                |
| "           | "           | "              | 0.2                   | 1.1                           | 137.2                |

|              | Seldovia to Anchorage                                                                                     | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|--------------|-----------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Seldovia Bay | Gray Cliff Lt.                                                                                            | s.b.                            | $\frac{1}{8}+$      |
|              | Pt. Naskowhak                                                                                             | p.b.                            | $\frac{1}{2}-$      |
|              | Seldovia Pt.                                                                                              | s.b.                            | $\frac{7}{8}$       |
| Cook Inlet   | Anchor Pt. Lt.<br>    | s.b.                            | 4                   |
|              | Anchor Pt. Lt., 2nd time<br>Strength of tidal currents, 1.9 to 2.8 knots.                                 | s.b.                            | 4                   |
|              | Cape Ninilchik                                                                                            | s.b.                            | 5                   |
|              | Ninilchik Village<br> | s.b.                            | $5\frac{3}{4}$      |
|              |                                                                                                           |                                 |                     |

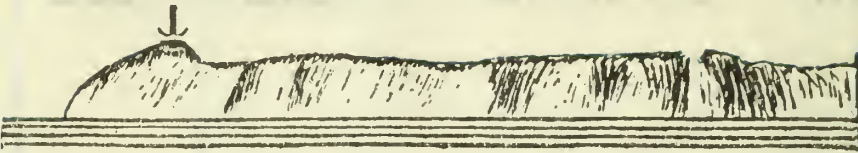


| True Course | Mag. Course | Mag. in Points               | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|------------------------------|-----------------------|-------------------------------|----------------------|
| N9W         | N33W        | NW $\times$ N                | 0.2                   | 1.3                           | 137.0                |
| “           | “           | “                            | 0.2                   | 1.5                           | 136.8                |
| N25W        | N50W        | NW $\frac{1}{2}$ W           | 0.6                   | 2.1                           | 136.2                |
| N13E        | N13W        | N $\times$ W $\frac{1}{8}$ W | 18.3                  | 20.4                          | 117.9                |
| “           | “           | “                            | 2.7                   | 23.1                          | 115.2                |
| “           | “           | “                            | 15.3                  | 38.4                          | 99.9                 |
| “           | “           | “                            | 2.5                   | 40.9                          | 97.4                 |

|            | Seldovia to Anchorage                                                                                 | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles            |
|------------|-------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------|
| Cook Inlet | South end Kalgin Id.                                                                                  | p.b.                            | 9 <sup>3</sup> / <sub>4</sub>  |
|            | Kalgin Id. Lt.                                                                                        | p.b.                            | 5                              |
|            | Kenai Village                                                                                         | s.b.                            | 10 <sup>1</sup> / <sub>4</sub> |
|            | East Foreland Lt.<br>Strength of tidal currents 3.3 to 5 knots;<br>possibly 8 knots.                  | s.b.                            | 4                              |
|            | East Foreland Lt., 2nd time                                                                           | s.b.                            | 4                              |
|            | Boulder Pt.<br>    | s.b.                            | 3 <sup>3</sup> / <sub>4</sub>  |
|            | 300 Foot Hill<br> | s.b.                            | 5 <sup>3</sup> / <sub>8</sub>  |

| True<br>Course | Mag.<br>Course | Mag.<br>in Points           | Dist. from<br>Pt. to Pt. | Dist.<br>from<br>Point of<br>Departure | Dist. to<br>Destination |
|----------------|----------------|-----------------------------|--------------------------|----------------------------------------|-------------------------|
| N13E           | N13W           | $N \times W \frac{1}{8} W$  | 14.3                     | 55.2                                   | 83.1                    |
| “              | “              | “                           | 10.1                     | 65.3                                   | 73.0                    |
| “              | “              | “                           | 7.5                      | 72.8                                   | 65.5                    |
| N57E           | N30E           | $NE \times N \frac{3}{8} N$ | 9.1                      | 81.9                                   | 56.4                    |
| “              | “              | “                           | 3.1                      | 85.0                                   | 53.3                    |
| “              | “              | “                           | 5.3                      | 90.3                                   | 48.0                    |
| “              | “              | “                           | 3.3                      | 93.6                                   | 44.7                    |



|            | Seldovia to Anchorage                                                                                    | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|------------|----------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Cook Inlet | <p>Pt. Possession</p>  | s.b.                            | 4½                  |
|            | <p>Fire Id. Lt.</p>                                                                                      | s.b.                            | 1½                  |
|            | <p>Race Pt. Lt.</p> <p>Keep course to Pt. Woronzof bears 4 pts.;<br/>will clear 18-foot patches.</p>     | s.b.                            | ½                   |
|            | <p>North end Fire Id.</p>                                                                                | s.b.                            | 1                   |
|            | <p>Pt. Campbell</p>                                                                                      | s.b.                            | 3½                  |
|            | <p>Position</p> <p>Pt. Woronzof on 4 points.<br/>Head on warehouse at wharf.</p>                         |                                 |                     |
|            | <p>Pt. Woronzof</p> <p>Strength of tidal currents, 4.5 to 5 knots.</p>                                   | s.b.                            | 7⁄8                 |

| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| N57E        | N30E        | NE $\times$ N $\frac{3}{8}$ N | 27.0                  | 120.6                         | 17.7                 |
| “           | “           | “                             | 5.0                   | 125.6                         | 12.7                 |
| “           | “           | “                             | 3.4                   | 129.0                         | 9.3                  |
| “           | “           | “                             | 1.2                   | 130.2                         | 8.1                  |
| “           | “           | “                             | 1.5                   | 131.7                         | 6.6                  |
| N82E        | N55E        | NE $\frac{7}{8}$ E            | 1.2                   | 132.9                         | 5.4                  |
| “           | “           | “                             | 2.5                   | 135.4                         | 2.9                  |

## Seldovia to Anchorage

Port  
or  
Starboard  
BeamDist. off  
Miles

Pt. Mackenzie

p.b.

1

Knik Arm

## Anchorage

Warehouse bearing N55E mag., dist.  $\frac{1}{4}$  mile.  
When anchoring, the stage of the tide must  
be kept in mind; on account of the great  
range of the tides.

## Anchorage to Kodiak

## Anchorage

Warehouse astern, dist.  $\frac{3}{4}$  mile.

Knik Arm

Pt. Mackenzie

s.b.

1

Pt. Woronzof

p.b.

 $\frac{7}{8}$ 

Strength of tidal currents, 4.5 to 5 knots.

Cook Inlet

## Position

Pt. Woronzof bearing S78E true.



| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| N82E        | N55E        | NE $\frac{7}{8}$ E            | 1.1                   | 136.5                         | 1.8                  |
|             |             |                               | 1.8                   | 138.3                         | 0.0                  |
|             |             |                               |                       |                               |                      |
| S82W        | S55W        | SW $\frac{7}{8}$ W            | 0.0                   | 0.0                           | 240.0                |
| “           | “           | “                             | 1.8                   | 1.8                           | 238.2                |
| “           | “           | “                             | 1.1                   | 2.9                           | 237.1                |
| S57W        | S30W        | SW $\times$ S $\frac{3}{8}$ S | 2.5                   | 5.4                           | 234.6                |

|            | Anchorage to Kodiak | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|------------|---------------------|---------------------------------|---------------------|
| Cook Inlet | Pt. Campbell        | p.b.                            | 3 $\frac{1}{2}$     |
|            | North end Fire Id.  | p.b.                            | 1                   |
|            | Race Pt. Lt.        | p.b.                            | $\frac{1}{2}$       |
|            | Fire Id. Lt.        | p.b.                            | 1 $\frac{1}{2}$     |
|            | Pt. Possession      | p.b.                            | 4 $\frac{1}{2}$     |
|            | 300 Foot Hill       | p.b.                            | 5 $\frac{3}{8}$     |
|            | Boulder Pt.         | p.b.                            | 3 $\frac{3}{4}$     |

| True<br>Course | Mag.<br>Course | Mag.<br>in Points             | Dist. from<br>Pt. to Pt. | Dist.<br>from<br>Point of<br>Departure | Dist. to<br>Destination |
|----------------|----------------|-------------------------------|--------------------------|----------------------------------------|-------------------------|
| S57W           | S30W           | SW $\times$ S $\frac{3}{8}$ S | 1.2                      | 6.6                                    | 233.4                   |
| “              | “              | “                             | 1.5                      | 8.1                                    | 231.9                   |
| “              | “              | “                             | 1.2                      | 9.3                                    | 230.7                   |
| “              | “              | “                             | 3.4                      | 12.7                                   | 227.3                   |
| “              | “              | “                             | 5.0                      | 17.7                                   | 222.3                   |
| “              | “              | “                             | 27.0                     | 44.7                                   | 195.3                   |
| “              | “              | “                             | 3.3                      | 48.0                                   | 192.0                   |



|            | Anchorage to Kodiak                                                                   | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles            |
|------------|---------------------------------------------------------------------------------------|---------------------------------|--------------------------------|
| Cook Inlet | East Foreland Lt.<br>Strength of tidal currents, 3.5 to 5 knots;<br>possibly 8 knots. | p.b.                            | 4                              |
|            | East Foreland Lt., 2nd time                                                           | p.b.                            | 4                              |
|            | Kenai Village                                                                         | p.b.                            | 10 <sup>1</sup> / <sub>4</sub> |
|            | Kalgin Id. Lt.                                                                        | s.b.                            | 5                              |
|            | South end Kalgin Id.                                                                  | s.b.                            | 9 <sup>3</sup> / <sub>4</sub>  |
|            | Ninilchik Village                                                                     | p.b.                            | 5 <sup>3</sup> / <sub>4</sub>  |
|            | Cape Ninilchik                                                                        | p.b.                            | 5                              |

| True Course | Mag. Course | Mag. in Points        | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-----------------------|-----------------------|-------------------------------|----------------------|
| S13W        | S13E        | S × E $\frac{1}{8}$ E | 5.3                   | 53.3                          | 186.7                |
| “           | “           | “                     | 3.1                   | 56.4                          | 183.6                |
| “           | “           | “                     | 9.1                   | 65.5                          | 174.5                |
| “           | “           | “                     | 7.5                   | 73.0                          | 167.0                |
| “           | “           | “                     | 10.1                  | 83.1                          | 156.9                |
| “           | “           | “                     | 14.3                  | 97.4                          | 142.6                |
| “           | “           | “                     | 2.5                   | 99.9                          | 140.1                |

|                     | Anchorage to Kodiak                                             | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles           |
|---------------------|-----------------------------------------------------------------|---------------------------------|-------------------------------|
| Cook Inlet          | Anchor Pt. Lt.<br>Strength of tidal currents, 1.9 to 2.8 knots. | p.b.                            | 4                             |
|                     | Anchor Pt. Lt., 2nd time                                        | p.b.                            | 4                             |
|                     | Flat Id. Lt.                                                    | p.b.                            | 2                             |
|                     | Magnet Rk.                                                      | p.b.                            | 1 <sup>3</sup> / <sub>4</sub> |
|                     | Nord Id., SE end                                                | s.b.                            | 1                             |
| Barren Ids. Passage | NE Pt. Ushagat Id.                                              | s.b.                            | 1 <sup>1</sup> / <sub>4</sub> |
|                     | West Amatuli, SW Pt.                                            | p.b.                            | 1 <sup>1</sup> / <sub>8</sub> |



| True<br>Course | Mag.<br>Course | Mag.<br>in Points                   | Dist. from<br>Pt. to Pt. | Dist.<br>from<br>Point of<br>Departure | Dist. to<br>Destination |
|----------------|----------------|-------------------------------------|--------------------------|----------------------------------------|-------------------------|
| S4W            | S20E           | S × E <sup>3</sup> / <sub>4</sub> E | 15.3                     | 115.2                                  | 124.8                   |
| “              | “              | “                                   | 0.6                      | 115.8                                  | 124.2                   |
| “              | “              | “                                   | 26.6                     | 142.4                                  | 97.6                    |
| “              | “              | “                                   | 1.4                      | 143.8                                  | 96.2                    |
| “              | “              | “                                   | 20.6                     | 164.4                                  | 75.6                    |
| “              | “              | “                                   | 1.3                      | 165.7                                  | 74.3                    |
| “              | “              | “                                   | 1.7                      | 167.4                                  | 72.6                    |

|                | Anchorage to Kodiak               | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|----------------|-----------------------------------|---------------------------------|---------------------|
| Gulf of Alaska | Sugarloaf Id.<br>Nord Id. astern. | p.b.                            | 2                   |
|                | Tonki Cape Lt.                    | s.b.                            | 2 $\frac{1}{8}$     |
| Marmot Strait  | Sealion Rks.                      | p.b.                            | 3 $\frac{1}{4}$     |
|                | North end Marmot Id.              | p.b.                            | 3                   |
|                | Middle Pt.                        | s.b.                            | 1 $\frac{3}{8}$     |
| Marmot Bay     | Pillar Cape                       | s.b.                            | 3                   |
|                | East Cape                         | s.b.                            | 3 $\frac{1}{8}$     |

| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| S11E        | S35E        | SE $\frac{7}{8}$ S            | 1.7                   | 169.1                         | 70.9                 |
| South       | S24E        | SE $\times$ S $\frac{7}{8}$ S | 32.5                  | 201.6                         | 38.4                 |
| “           | “           | “                             | 0.7                   | 202.3                         | 37.7                 |
| “           | “           | “                             | 4.4                   | 206.7                         | 33.3                 |
| S25W        | S1W         | S $\frac{1}{8}$ W             | 0.8                   | 207.5                         | 32.5                 |
| “           | “           | “                             | 8.3                   | 215.8                         | 24.2                 |
| “           | “           | “                             | 15.4                  | 231.2                         | 8.8                  |



|               | Anchorage to Kodiak                          | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|---------------|----------------------------------------------|---------------------------------|---------------------|
| Kodiak Harbor | Hutchinson Rf. Bell Buoy<br>Head on Bird Id. | s.b.                            | $\frac{1}{8}$       |
|               | Kodiak Entrance Buoy                         | p.b.                            | $\frac{1}{8}$       |
|               | Woody Id. Lt.                                | p.b.                            | $\frac{1}{4} +$     |
|               | Cyane Rk. Buoy                               | p.b.                            | close               |
|               | Potato Patch                                 | s.b.                            | close               |
|               | Kodiak Dock                                  | s.b.                            | close               |

| True Course | Mag. Course | Mag. in Points               | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|------------------------------|-----------------------|-------------------------------|----------------------|
| S43W        | S19W        | S $\times$ W $\frac{3}{4}$ W | 4.1                   | 235.3                         | 4.7                  |
| “           | “           | “                            | 1.4                   | 236.7                         | 3.3                  |
| S67W        | S43W        | SW $\frac{1}{8}$ S           | 1.2                   | 237.9                         | 2.1                  |
| S64W        | S30W        | SW $\frac{3}{8}$ S           | 1.6                   | 239.5                         | 0.5                  |
| “           | “           | “                            | 0.2                   | 239.7                         | 0.3                  |
|             |             |                              | 0.3                   | 240.0                         | 0.0                  |

|                | Turn Pt. Lt. to Gabriola Reef Lt.<br>Going around East Pt., see page 8. | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|----------------|-------------------------------------------------------------------------|---------------------------------|---------------------|
| Haro Strait    | Turn Pt. Lt.                                                            | s.b.                            | $\frac{5}{8}$       |
|                | Turn Pt. Lt., 2nd time<br>Head on Patos Id. Lt.                         | s.b.                            | $\frac{5}{8}$       |
|                | Saturna Id. Lt.<br>On East Pt.                                          | p.b.                            | 1                   |
|                | Saturna Id. Lt., 2nd time                                               | p.b.                            | 1                   |
|                | { Patos Id. Lt.<br>Rosenfels Rk. Buoy                                   | s.b.<br>p.b.                    | $1\frac{5}{8}$<br>1 |
| Georgia Strait | Rosenfels Rk. Buoy, 2nd time<br>Patos Id. Lt. right astern.             | p.b.                            | 1+                  |
|                | Active Pass Lt.                                                         | p.b.                            | $4\frac{3}{4}$      |

| True<br>Course | Mag.<br>Course | Mag.<br>in Points            | Dist. from<br>Pt. to Pt. | Dist.<br>from<br>point of<br>Departure | Dist. to<br>Destination |
|----------------|----------------|------------------------------|--------------------------|----------------------------------------|-------------------------|
| N63E           | N38E           | NE $\frac{5}{8}$ N           | 0.0                      | 0.0                                    | 45.5                    |
| “              | “              | “                            | 0.8                      | 0.8                                    | 44.7                    |
| N20E           | N5W            | N $\frac{1}{2}$ W            | 9.3                      | 10.1                                   | 35.4                    |
| “              | “              | “                            | 0.8                      | 10.9                                   | 34.6                    |
| N49W           | N75W           | W $\times$ N $\frac{3}{8}$ N | 1.3                      | 12.2                                   | 33.3                    |
| “              | “              | “                            | 1.1                      | 13.3                                   | 32.2                    |
| “              | “              | “                            | 10.4                     | 23.7                                   | 21.8                    |



|                                                             | Turn Pt. Lt. to Gabriola Reef Lt. | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-------------------------------------------------------------|-----------------------------------|---------------------------------|---------------------|
| Georgia Strait                                              | Portier Pass Lt.                  | p.b.                            | 6 $\frac{1}{8}$     |
|                                                             | Gabriola Reef Lt.<br>See page 12. | p.b.                            | 1 $\frac{1}{2}$     |
| <b>Cordova</b><br>To enter via Odiak Channel, see page 114. |                                   |                                 |                     |
| Orca Inlet                                                  | Salmo Pt.                         | s.b.                            | $\frac{1}{4}$ —     |
|                                                             | Salmo Pt., 2nd time               | s.b.                            | $\frac{1}{8}$ +     |
| Odiak Channel                                               | Knot Pt.                          | s.b.                            | $\frac{1}{8}$ +     |
|                                                             | Position<br>Put Knot Pt. astern.  |                                 |                     |

| True Course | Mag. Course | Mag. in Points               | Dist. from Pt. to Pt. | Dist. from point of Departure | Dist. to Destination |
|-------------|-------------|------------------------------|-----------------------|-------------------------------|----------------------|
| N49W        | N75W        | $W \times N^{\frac{3}{8}}N$  | 14.4                  | 38.1                          | 7.4                  |
| N61W        | N87W        | $W^{\frac{1}{4}}N$           | 7.4                   | 45.5                          | 0.0                  |
|             |             |                              |                       |                               |                      |
| S2W         | S27E        | $SE \times S^{\frac{5}{8}}S$ | 0.0                   | 0.0                           | 4.0                  |
| “           | “           | “                            | 0.3                   | 0.3                           | 3.7                  |
| “           | “           | “                            | 1.4                   | 1.7                           | 2.3                  |
| S13E        | S42E        | $SE^{\frac{1}{4}}S$          | 0.4                   | 2.1                           | 1.9                  |

|                   | <b>Cordova</b><br>To enter via Odiak Channel.                      | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-------------------|--------------------------------------------------------------------|---------------------------------|---------------------|
| <hr/>             | <b>Orca Inlet Gas Buoy</b><br>No. 6.                               | s.b.                            | close               |
|                   | <b>Cordova Dk.</b><br>The least depth in Odiak Channel is 18 feet. |                                 |                     |
| <hr/>             |                                                                    |                                 |                     |
|                   | <b>Juneau to Skagway</b>                                           |                                 |                     |
| <hr/>             |                                                                    |                                 |                     |
| Gastineau Channel | <b>Juneau, City Dk.</b>                                            | p.b.                            | $\frac{1}{4}$       |
|                   | <b>Juneau Id.</b>                                                  | s.b.                            | $\frac{1}{4}$ —     |
|                   | <b>Sheep Creek Lt.</b>                                             | p.b.                            | $\frac{1}{4}$ —     |
|                   | <b>Marmion Id. Lt.</b>                                             | s.b.                            | $\frac{1}{2}$ +     |

| True Course | Mag. Course | Mag. in Points             | Dist. from Pt. to Pt. | Dist. from point of Departure | Dist. to Destination |
|-------------|-------------|----------------------------|-----------------------|-------------------------------|----------------------|
| S15W        | S14E        | $S \times E \frac{1}{4} E$ | 1.1                   | 3.2                           | 0.8                  |
|             |             |                            | 0.8                   | 4.0                           | 0.0                  |
|             |             |                            |                       |                               |                      |
| S44E        | S76E        | $E \times S \frac{1}{4} S$ | 0.0                   | 0.0                           | 100.2                |
| "           | "           | "                          | 1.4                   | 1.4                           | 98.8                 |
| "           | "           | "                          | 2.0                   | 3.4                           | 96.8                 |
| S53W        | S21W        | $S \times W \frac{7}{8} W$ | 4.2                   | 7.6                           | 92.6                 |



|                  | Juneau to Skagway                                         | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|------------------|-----------------------------------------------------------|---------------------------------|---------------------|
|                  | Marmion Id. Lt., 2nd time                                 | s.b.                            | $\frac{1}{2}+$      |
|                  | Iceberg Pt.                                               | s.b.                            | $\frac{5}{8}$       |
|                  | Pt. Hilda                                                 | s.b.                            | $\frac{5}{8}$       |
| Stephens Passage | Middle Pt.                                                | s.b.                            | $\frac{5}{8}$       |
|                  | Middle Pt. Lt.<br>On Sandspit.<br>Head on Shelter Id. Lt. | s.b.                            | $\frac{5}{8}$       |
|                  | Outer Pt.                                                 | s.b.                            | $\frac{3}{4}$       |
|                  | SE end Portland Id.                                       | s.b.                            | $\frac{1}{2}$       |

| True Course | Mag. Course | Mag. in Points              | Dist. from Pt. to Pt. | Dist. from point of Departure | Dist. to Destination |
|-------------|-------------|-----------------------------|-----------------------|-------------------------------|----------------------|
| S53W        | S21W        | $S \times W \frac{7}{8} W$  | 1.0                   | 8.6                           | 91.6                 |
| N77W        | S71W        | $W \times S \frac{5}{8} S$  | 1.1                   | 9.7                           | 90.5                 |
| N73W        | S75W        | $W \times S \frac{1}{4} S$  | 7.6                   | 17.3                          | 82.9                 |
| N50W        | N82W        | $W \frac{3}{4} N$           | 3.1                   | 20.4                          | 79.8                 |
| N33W        | N65W        | $NW \times W \frac{3}{4} W$ | 1.8                   | 22.2                          | 78.0                 |
| “           | “           | “                           | 3.8                   | 26.0                          | 74.2                 |
| “           | “           | “                           | 2.2                   | 28.2                          | 72.0                 |

|                  | Juneau to Skagway                             | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|------------------|-----------------------------------------------|---------------------------------|---------------------|
| Stephens Passage | NW end Portland Id.                           | s.b.                            | $\frac{1}{2}$       |
|                  | Portland Id. Reef<br>Head on Sentinel Id. Lt. | s.b.                            | $\frac{1}{2}$       |
|                  | $2\frac{3}{4}$ fms. Patch                     | p.b.                            | $\frac{3}{8}$       |
| Favorite Channel | Shelter Id. Lt.                               | p.b.                            | $\frac{3}{8}+$      |
|                  | North end Aaron Id.                           | s.b.                            | $\frac{1}{2}-$      |
|                  | North end Shelter Id.                         | p.b.                            | $\frac{7}{8}$       |
|                  | North end Gull Id.                            | s.b.                            | $\frac{7}{8}-$      |

| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| N33W        | N65W        | NW $\times$ W $\frac{3}{4}$ W | 0.9                   | 29.1                          | 71.1                 |
| N21W        | N53W        | NW $\frac{3}{4}$ W            | 0.7                   | 29.8                          | 70.4                 |
| “           | “           | “                             | 1.4                   | 31.2                          | 69.0                 |
| “           | “           | “                             | 0.7                   | 31.9                          | 68.3                 |
| N24W        | N56W        | NW $\times$ W                 | 3.6                   | 35.5                          | 64.7                 |
| “           | “           | “                             | 3.9                   | 39.4                          | 60.8                 |
| “           | “           | “                             | 0.3                   | 39.7                          | 60.5                 |



|            | Juneau to Skagway                       | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|------------|-----------------------------------------|---------------------------------|---------------------|
| Lynn Canal | Poundstone Rk. Gas and Bell Buoy        | p.b.                            | $\frac{1}{4}+$      |
|            | Sentinel Id. Lt.                        | s.b.                            | $\frac{3}{8}$       |
|            | North end North Id.                     | s.b.                            | $\frac{3}{4}+$      |
|            | Vanderbilt Reef Buoy                    | p.b.                            | $1\frac{3}{8}-$     |
|            | Pt. Bridget                             | s.b.                            | $1\frac{5}{8}+$     |
|            | Pt. St. Mary                            | s.b.                            | 2                   |
|            | { Pt. Sherman Lt.<br>{ Sherman Rk. Buoy | s.b.<br>s.b.                    | $1\frac{1}{2}$<br>1 |

| True Course | Mag. Course | Mag. in Points | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|----------------|-----------------------|-------------------------------|----------------------|
| N24W        | N56W        | NW × W         | 2.2                   | 41.9                          | 58.3                 |
| “           | “           | “              | 0.8                   | 42.7                          | 57.5                 |
| “           | “           | “              | 1.9                   | 44.6                          | 55.6                 |
| “           | “           | “              | 1.7                   | 46.3                          | 53.9                 |
| “           | “           | “              | 4.5                   | 50.8                          | 49.4                 |
| “           | “           | “              | 3.4                   | 54.2                          | 46.0                 |
| N2W         | N34W        | NW × N         | 8.3                   | 62.5                          | 37.7                 |

|                | Juneau to Skagway                                                                                                 | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|----------------|-------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Lynn Canal     | Pt. Sherman Lt., 2nd time                                                                                         | s.b.                            | 1½                  |
|                | Eldred Rk. Lt.                                                                                                    | p.b.                            | ½                   |
|                | Seduction Id., East Pt.                                                                                           | p.b.                            | ½+                  |
|                | Little Chilkat Id. Bn.                                                                                            | p.b.                            | ½                   |
| Chilkoot Inlet | Flat Bay Pt.<br>When about 2 miles by, then keep well<br>towards the West shore, until clear of<br>Buoy off flat. | p.b.                            | ½+                  |
|                | Katzehin Ri. Flat Buoy                                                                                            | s.b.                            | ¼                   |
|                | Battery Pt. Lt.<br>Local attraction affects compasses.                                                            | p.b.                            | ¼                   |

| True<br>Course | Mag.<br>Course | Mag.<br>in Points  | Dist. from<br>Pt. to Pt. | Dist.<br>from<br>Point of<br>Departure | Dist. to<br>Destination |
|----------------|----------------|--------------------|--------------------------|----------------------------------------|-------------------------|
| N2W            | N34W           | NW × N             | 0.6                      | 63.1                                   | 37.1                    |
| N13W           | N45W           | NW                 | 7.2                      | 70.3                                   | 29.9                    |
| “              | “              | “                  | 2.9                      | 73.2                                   | 27.0                    |
| N21W           | N53W           | NW $\frac{3}{4}$ W | 3.9                      | 77.1                                   | 23.1                    |
| “              | “              | “                  | 4.7                      | 81.8                                   | 18.4                    |
| “              | “              | “                  | 2.6                      | 84.4                                   | 15.8                    |
| N15W           | N47W           | NW $\frac{1}{4}$ W | 1.1                      | 85.5                                   | 14.7                    |



|                     | Juneau to Skagway                                                                               | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|---------------------|-------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Chilkoot Inlet      | Low Pt. Lt.                                                                                     | s.b.                            | $\frac{3}{8}$       |
|                     | Indian Rk. Buoy                                                                                 | p.b.                            | $\frac{1}{4}$       |
|                     | Taiya Hd.                                                                                       | p.b.                            | $\frac{1}{2}$       |
| Taiya Inlet         | Position                                                                                        |                                 |                     |
|                     | Skagway Dk.                                                                                     |                                 |                     |
| Ellamar to Hobo Bay |                                                                                                 |                                 |                     |
| Virgin Bay          | Ellamar Dk. Inner Dk.<br>Large ships do seldom go to the inner<br>dock, but go to the ore-dock. |                                 |                     |

| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| N15W        | N47W        | NW $\frac{1}{4}$ W            | 3.2                   | 88.7                          | 11.5                 |
| N7E         | N25W        | NW $\times$ N $\frac{3}{4}$ N | 0.6                   | 89.3                          | 10.9                 |
| “           | “           | “                             | 0.9                   | 90.2                          | 10.0                 |
| N50E        | N18E        | N $\times$ E $\frac{5}{8}$ E  | 9.0                   | 99.2                          | 1.0                  |
|             |             |                               | 1.0                   | 100.2                         | 0.0                  |
| S89W        | S60W        | SW $\times$ W $\frac{3}{8}$ W | 0.0                   | 0.0                           | 57.0                 |

|                  | Ellamar to Hobo Bay                                                      | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles                                                       |
|------------------|--------------------------------------------------------------------------|---------------------------------|---------------------------------------------------------------------------|
| Tatitlek Narrows | <div><div></div><div>Red Nun No. 6</div><div>Black Can No. 1</div></div> | <div>p.b.</div> <div>s.b.</div> | <div><math>\frac{1}{16}</math></div> <div><math>\frac{1}{16}</math></div> |
|                  | Red Nun No. 4                                                            | p.b.                            | $\frac{1}{4}$ —                                                           |
|                  | Red Nun No. 2                                                            | p.b.                            | $\frac{1}{2}$                                                             |
|                  | Codfish Bluff<br>Head on Pt. Freemantle.                                 | s.b.                            | $\frac{1}{4}$                                                             |
|                  | NE Pt. Busby Id.                                                         | p.b.                            | $\frac{5}{8}$                                                             |
| Valdez Arm       | Busby Id. Lt.                                                            | p.b.                            | $1\frac{1}{8}$                                                            |
|                  | Busby Id. Lt., 2nd time                                                  | p.b.                            | $1\frac{1}{8}$                                                            |

| True Course | Mag. Course | Mag. in Points            | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|---------------------------|-----------------------|-------------------------------|----------------------|
| N53W        | N82W        | $W\frac{3}{4}N$           | 0.2                   | 0.2                           | 56.8                 |
| “           | “           | “                         | 0.2                   | 0.4                           | 56.6                 |
| “           | “           | “                         | 0.3                   | 0.7                           | 56.3                 |
| N77W        | S74W        | $W \times S\frac{3}{8}S$  | 0.5                   | 1.2                           | 55.8                 |
| “           | “           | “                         | 1.0                   | 2.2                           | 54.8                 |
| S57W        | S28W        | $SW \times S\frac{1}{2}S$ | 1.1                   | 3.3                           | 53.7                 |
| “           | “           | “                         | 0.8                   | 4.1                           | 52.9                 |



|                      | Ellamar to Hobo Bay                                                                                                     | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|----------------------|-------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Prince William Sound | <b>South Peak Glacier Id.</b><br>2 miles off beach.<br>Head on North end Lone Id.                                       | s.b.                            | $2\frac{1}{4}$      |
|                      | <b>East end Storey Id.</b>                                                                                              | p.b.                            | $1\frac{5}{8}$      |
|                      | <b>West end Storey Id.</b><br>Heading on peak on Perry Id.                                                              | p.b.                            | $1\frac{1}{4}$      |
|                      | <b>Lone Id., North end</b>                                                                                              | p.b.                            | $1\frac{7}{8}$      |
|                      | <b>South Rk. of Dutch Group</b>                                                                                         | s.b.                            | $\frac{7}{8}$       |
|                      | <b>Fool Id.</b><br>Passing $\frac{1}{2}$ mile off a rock, which lies 600 yards SSE'ly from Fool Id.; bare at low water. | s.b.                            | $\frac{3}{4}$       |
| <hr/>                | <b>Pt. Perry</b><br>Head on Pt. Pigot.                                                                                  | p.b.                            | $\frac{1}{2}$       |

| True Course | Mag. Course | Mag. in Points               | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|------------------------------|-----------------------|-------------------------------|----------------------|
| S67W        | S39W        | SW $\frac{1}{2}$ S           | 9.5                   | 13.6                          | 43.4                 |
| “           | “           | “                            | 9.3                   | 22.9                          | 34.1                 |
| S80W        | S52W        | SW $\frac{5}{8}$ W           | 2.8                   | 25.7                          | 31.3                 |
| “           | “           | “                            | 7.8                   | 33.5                          | 23.5                 |
| N61W        | N89W        | W $\frac{1}{8}$ N            | 2.0                   | 35.5                          | 21.5                 |
| “           | “           | “                            | 3.4                   | 38.9                          | 18.1                 |
| N75W        | S77W        | W $\times$ S $\frac{1}{8}$ S | 0.9                   | 39.8                          | 17.2                 |

|               | Ellamar to Hobo Bay                                                                              | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|---------------|--------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Wells Passage | <b>Esther Peak</b><br>$\frac{1}{2}$ mile off beach.                                              | s.b.                            | 1                   |
|               | <b>Esther Pt.</b>                                                                                | s.b.                            | $\frac{3}{4}$       |
|               | <b>Esther Rk.</b>                                                                                | s.b.                            | $\frac{3}{4}$       |
|               | <b>Esther Rk., 2nd time</b><br>The waters above Esther Rk. have not<br>been thoroughly surveyed. | s.b.                            | $\frac{3}{4}$       |
| Port Wells    | <b>Separation Hd.</b>                                                                            | p.b.                            | $\frac{3}{4}$       |
|               | <b>Entrance Pt.</b>                                                                              | s.b.                            | $\frac{1}{8}$       |
| Hobo Bay      | <b>Hobo Bay Dk.</b><br>Follow the North side of bay when<br>entering.                            |                                 |                     |

| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| N75W        | S77W        | W $\times$ S $\frac{1}{8}$ S  | 5.1                   | 44.9                          | 12.1                 |
| “           | “           | “                             | 0.8                   | 45.7                          | 11.3                 |
| N2W         | N30W        | NW $\times$ N $\frac{3}{8}$ N | 1.0                   | 46.7                          | 10.3                 |
| “           | “           | “                             | 0.9                   | 47.6                          | 9.4                  |
| N37W        | N65W        | NW $\times$ W $\frac{3}{4}$ W | 8.0                   | 55.6                          | 1.4                  |
| “           | “           | “                             | 0.7                   | 56.3                          | 0.7                  |
|             |             |                               | 0.7                   | 57.0                          | 0.0                  |



|               | Hobo Bay to Latouche | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|---------------|----------------------|---------------------------------|---------------------|
| Hobo Bay      | Hobo Bay Dk.         |                                 |                     |
|               | Entrance Pt.         | p.b.                            | $\frac{1}{8}$       |
| Port Wells    | Separation Hd.       | s.b.                            | $\frac{3}{4}$       |
|               | Esther Rk.           | p.b.                            | $\frac{3}{4}$       |
|               | Esther Rk., 2nd time | p.b.                            | $\frac{3}{4}$       |
| Wells Passage | Pt. Culross          | s.b.                            | $\frac{7}{8}$       |
|               | NE Pt. Culross Id.   | s.b.                            | $\frac{3}{4}$       |

| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| S37E        | S65E        | SE $\times$ E $\frac{3}{4}$ E | 0.0                   | 0.0                           | 58.9                 |
| “           | “           | “                             | 0.7                   | 0.7                           | 58.2                 |
| S2E         | S30E        | SE $\times$ S $\frac{3}{8}$ S | 0.7                   | 1.4                           | 57.5                 |
| S53E        | S81E        | E $\frac{3}{4}$ S             | 8.0                   | 9.4                           | 49.5                 |
| “           | “           | “                             | 0.7                   | 10.1                          | 48.8                 |
| “           | “           | “                             | 2.3                   | 12.4                          | 46.5                 |
| S24E        | S52E        | SE $\frac{5}{8}$ E            | 1.2                   | 13.6                          | 45.3                 |

|                    | Hobo Bay to Latouche                                                                                           | Port<br>or<br>Starboard<br>Beam | Dist. off<br>Miles |
|--------------------|----------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------|
| Perry Passage      | West Pt. Perry Id.                                                                                             | p.b.                            | $\frac{7}{8}$      |
|                    | South end Perry Id.                                                                                            | p.b.                            | 2                  |
|                    | Crafton Id.<br>Stern between Perry Id. and Dutch Group.                                                        | s.b.                            | $1\frac{1}{2}$     |
| Knight Id. Passage | Pt. Nowell<br>West side of Lone Id. and center of Pleiades<br>in line.                                         | s.b.                            | 1                  |
|                    | Channel Rk.                                                                                                    | p.b.                            | $1\frac{3}{8}$     |
|                    | Squirrel Id., West Pt.                                                                                         | p.b.                            | $1\frac{1}{2}$     |
|                    | New Year Id., South end<br> | p.b.                            | $1\frac{1}{2}$     |

| True Course | Mag. Course | Mag. in Points               | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|------------------------------|-----------------------|-------------------------------|----------------------|
| S24E        | S52E        | SE $\frac{5}{8}$ E           | 4.9                   | 18.5                          | 40.4                 |
| "           | "           | "                            | 2.6                   | 21.1                          | 37.8                 |
| S7W         | S21E        | S $\times$ E $\frac{7}{8}$ E | 8.2                   | 29.3                          | 29.6                 |
| S15W        | S13E        | S $\times$ E $\frac{1}{8}$ E | 5.0                   | 34.3                          | 24.6                 |
| "           | "           | "                            | 2.6                   | 36.9                          | 22.0                 |
| "           | "           | "                            | 3.1                   | 40.0                          | 18.9                 |
| "           | "           | "                            | 1.5                   | 41.5                          | 17.4                 |



|                    | Hobo Bay to Latouche                                                                     | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|--------------------|------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Knight Id. Passage | Chenega Pt.                                                                              | s.b.                            | 1                   |
|                    | Point of Rocks, Outer Rk.<br>This rock lies off the opening between the<br>two islands.  | p.b.                            | $\frac{5}{8}+$      |
|                    | North end Pleiades                                                                       | s.b.                            | $\frac{5}{8}$       |
|                    | Center Pleiades                                                                          | s.b.                            | $\frac{5}{8}+$      |
|                    | SE end Squire Id.<br>Passing $\frac{3}{4}$ mile off bare rocks, which lie<br>off the Id. | p.b.                            | 1                   |
| Latouche Passage   | Hayden Id., North end                                                                    | s.b.                            | 1                   |
|                    | Hayden Id., 2nd time<br>Heading on Latouche Pt.                                          | s.b.                            | 1                   |

| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| S1W         | S27E        | SE $\times$ S $\frac{5}{8}$ S | 2.8                   | 44.3                          | 14.6                 |
| “           | “           | “                             | 1.6                   | 45.9                          | 13.0                 |
| “           | “           | “                             | 0.5                   | 46.4                          | 12.5                 |
| S26E        | S54E        | SE $\frac{3}{4}$ E            | 0.3                   | 46.7                          | 12.2                 |
| S33E        | S61E        | SE $\times$ E $\frac{1}{2}$ E | 1.3                   | 48.0                          | 10.9                 |
| S23W        | S5E         | S $\frac{1}{2}$ E             | 6.2                   | 54.2                          | 4.7                  |
| “           | “           | “                             | 0.9                   | 55.1                          | 3.8                  |

|                                                                                 | Hobo Bay to Latouche | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|---------------------------------------------------------------------------------|----------------------|---------------------------------|---------------------|
| Latouche Passage                                                                | Bishop Rk.           | s.b.                            | $\frac{5}{8}$       |
|                                                                                 | Pt. Grace            | p.b.                            | 1                   |
|                                                                                 | Latouche Dk.         | p.b.                            | $\frac{1}{8}$       |
| <hr/> <b>Marrowstone Pt. to Gabriola Rf.</b><br>Via Rosario Strait, see page 6. |                      |                                 |                     |
| Admiralty Inlet                                                                 | Marrowstone Pt. Lt.  | p.b.                            | $\frac{3}{4}$       |
|                                                                                 | Admiralty Hd. Lt.    | s.b.                            | $1\frac{5}{8}$      |
|                                                                                 | Pt. Wilson Lt.       | p.b.                            | $1\frac{1}{2}$      |



| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| S23W        | S5E         | S $\frac{1}{2}$ E             | 0.8                   | 55.9                          | 3.0                  |
| "           | "           | "                             | 0.9                   | 56.8                          | 2.1                  |
|             |             |                               | 2.1                   | 58.9                          | 0.0                  |
| <hr/>       |             |                               |                       |                               |                      |
| N37W        | N62W        | NW $\times$ W $\frac{1}{2}$ W | 0.0                   | 0.0                           | 82.5                 |
| "           | "           | "                             | 2.8                   | 2.8                           | 79.7                 |
| "           | "           | "                             | 1.0                   | 3.8                           | 78.7                 |



Strait of Juan de Fuca

Rosario Strait

## Marrowstone Pt. to Gabriola Rf.

Port  
or  
Starboard  
BeamDist. off.  
Miles

Partridge Pt. Gas and Bell Buoy

s.b.

 $\frac{1}{4}$ 

Partridge Bank Buoy

p.b.

 $1\frac{3}{4}$ 

Smith Id. Lt.

p.b.

 $2\frac{7}{8}$ 

Minor Id. Lt.

Echo Board near light.

p.b.

2

Lawson Reef Bell Buoy

s.b.

 $1\frac{3}{8}$ 

Burrows Id. Lt.

If bound for Bellingham, see page 216, via  
Guemes Channel, page 220.

s.b.

 $\frac{3}{8}$ { Green Pt.  
Belle Rk. Buoy

s.b.

 $1\frac{1}{8}$ 

p.b.

 $\frac{7}{8}$

| True Course | Mag. Course | Mag. in Points             | Dist. from Pt. to Pt. | Dist. from point of Departure | Dist. to Destination |
|-------------|-------------|----------------------------|-----------------------|-------------------------------|----------------------|
| N12E        | N13W        | $N \times W \frac{1}{8} W$ | 5.1                   | 8.9                           | 73.6                 |
| "           | "           | "                          | 1.4                   | 10.3                          | 72.2                 |
| "           | "           | "                          | 3.5                   | 13.8                          | 68.7                 |
| "           | "           | "                          | 0.5                   | 14.3                          | 68.2                 |
| "           | "           | "                          | 5.4                   | 19.7                          | 62.8                 |
| N13W        | N38W        | $NW \frac{7}{8} N$         | 4.3                   | 24.0                          | 58.5                 |
| "           | "           | "                          | 1.1                   | 25.1                          | 57.4                 |

| Marrowstone Pt. to Gabriola Rf.                                      | Port<br>or<br>Starboard<br>Beam | Dist. off<br>Miles |
|----------------------------------------------------------------------|---------------------------------|--------------------|
| Reef Pt. Buoy                                                        | s.b.                            | $\frac{7}{8}$      |
| Reef Pt.                                                             | s.b.                            | $\frac{7}{8}$      |
| <b>Strawberry Id.</b><br>Foul to about $\frac{1}{8}$ mile off shore. | s.b.                            | $\frac{5}{8}$      |
| <b>Tide Pt.</b><br>East side of Blakely Id. astern.                  | s.b.                            | $\frac{3}{4}$      |
| Buckeye Shoal Buoy                                                   | s.b.                            | $\frac{1}{2}+$     |
| <b>Peapod Rk. Lt.</b><br>Tide Pt. astern.                            | p.b.                            | $\frac{1}{4}$      |
| Lawrence Pt.                                                         | p.b.                            | $\frac{1}{4}$      |

| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| N13W        | N38W        | NW $\frac{7}{8}$ N            | 2.2                   | 27.3                          | 55.2                 |
| "           | "           | "                             | 0.4                   | 27.7                          | 54.8                 |
| "           | "           | "                             | 1.3                   | 29.0                          | 53.5                 |
| N15E        | N10W        | N $\frac{7}{8}$ W             | 1.6                   | 30.6                          | 51.9                 |
| "           | "           | "                             | 2.6                   | 33.2                          | 49.3                 |
| N2E         | N23W        | NNW                           | 0.9                   | 34.1                          | 48.4                 |
| N7W         | N32W        | NW $\times$ N $\frac{1}{8}$ N | 1.2                   | 35.3                          | 47.2                 |



|                | Marrowstone Pt. to Gabriola Rf.                         | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|----------------|---------------------------------------------------------|---------------------------------|---------------------|
| Rosario Strait | Sisters Id.                                             | p.b.                            | 1½                  |
|                | North end Clark Id.<br>West side of Vendovi Id. astern. | p.b.                            | ¾                   |
|                | Puffin Id. Lt.<br>Lummi Mountain astern.                | p.b.                            | 1                   |
|                | Alden Bank Gas and Bell Buoy                            | s.b.                            | 1⅝                  |
| Georgia Strait | Clements Reef Buoy                                      | p.b.                            | 1                   |
|                | Patos Id. Lt.                                           | p.b.                            | 2½                  |
|                | Saturna Id. Lt.<br>On East Pt.                          | p.b.                            | 4½                  |

| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| N7W         | N32W        | NW $\times$ N $\frac{1}{8}$ N | 2.0                   | 37.3                          | 45.2                 |
| N41W        | N66W        | NW $\times$ W $\frac{7}{8}$ W | 1.1                   | 38.4                          | 44.1                 |
| N53W        | N78W        | W $\times$ N $\frac{1}{8}$ N  | 3.4                   | 41.8                          | 40.7                 |
| “           | “           | “                             | 2.4                   | 44.2                          | 38.3                 |
| “           | “           | “                             | 1.0                   | 45.2                          | 37.3                 |
| “           | “           | “                             | 3.0                   | 48.2                          | 34.3                 |
| “           | “           | “                             | 2.1                   | 50.3                          | 32.2                 |

| Marrowstone Pt. to Gabriola Rf.           | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-------------------------------------------|---------------------------------|---------------------|
| Pt. Roberts Lt.                           | s.b.                            | $3\frac{3}{8}$      |
| Active Pass Lt.                           | p.b.                            | $6\frac{1}{4}$      |
| Roberts Bank Buoy                         | s.b.                            | $2\frac{3}{8}$      |
| Roberts Bk. Gas and Whistle Buoy          | s.b.                            | $3\frac{1}{4}$      |
| Sand Hds. Lightship                       | s.b.                            | $4\frac{1}{2}$      |
| Portier Pass Lt.                          | p.b.                            | $6\frac{5}{8}$      |
| Gabriola Reef Lt.<br>Continue on page 12. | p.b.                            | $1\frac{1}{2}$      |

| True Course | Mag. Course | Mag. in Points             | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|----------------------------|-----------------------|-------------------------------|----------------------|
| N53W        | N78W        | $W \times N \frac{1}{8} N$ | 8.1                   | 58.4                          | 24.1                 |
| "           | "           | "                          | 3.0                   | 61.4                          | 21.1                 |
| "           | "           | "                          | 4.4                   | 65.8                          | 16.7                 |
| "           | "           | "                          | 3.8                   | 69.6                          | 12.9                 |
| "           | "           | "                          | 1.0                   | 70.6                          | 11.9                 |
| "           | "           | "                          | 5.2                   | 75.8                          | 6.7                  |
| N61W        | N87W        | $W \frac{1}{4} N$          | 6.7                   | 82.5                          | 0.0                  |



| Pt. Wilson to Swiftsure Lightship.<br>Continued from page 6.                                                                                                                                    | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Pt. Wilson Lt.                                                                                                                                                                                  | p.b.                            | $\frac{7}{8}$       |
| Pt. Wilson Lt., 2nd time<br>Heading for Race Rks. Lt.<br>If bound for New Dungeness Bay, see page 232.                                                                                          | p.b.                            | 1                   |
| Pt. Wilson Buoy                                                                                                                                                                                 | p.b.                            | $\frac{5}{8}$       |
| East end Protection Id.                                                                                                                                                                         | p.b.                            | $3\frac{1}{2}$      |
| New Dungeness Buoy                                                                                                                                                                              | p.b.                            | $1\frac{3}{4}+$     |
| New Dungeness Lt.<br>If bound for Port Angeles, round New Dungeness Lt.<br>at a distance of $2\frac{1}{2}$ —miles, steer S41W mag., head-<br>ing for Ediz Hook Lt., distance 11.9 miles nearly. | p.b.                            | $2\frac{1}{2}$ —    |
| Ediz Hook Lt.                                                                                                                                                                                   | p.b.                            | 6                   |

| True Course | Mag. Course | Mag. in Points        | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-----------------------|-----------------------|-------------------------------|----------------------|
| N76W        | S79W        | W × S                 | 0.0                   | 0.0                           | 94.0                 |
| “           | “           | “                     | 0.5                   | 0.5                           | 93.5                 |
| “           | “           | “                     | 0.6                   | 1.1                           | 92.9                 |
| “           | “           | “                     | 5.2                   | 6.3                           | 87.7                 |
| “           | “           | “                     | 8.2                   | 14.5                          | 79.5                 |
| N85W        | S70W        | W × S $\frac{3}{4}$ S | 0.7                   | 15.2                          | 78.8                 |
| “           | “           | “                     | 11.9                  | 27.1                          | 66.9                 |

| Pt. Wilson to Swiftsure Lightship                                                                                                                                                                   | Port<br>or<br>Starboard<br>Beam | Dist. off<br>Miles |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------|
| <b>Race Rks. Buoy</b><br>The S70W mag. course, if continued, will lead to<br>Clallam Bay, passing $1\frac{1}{4}$ miles off Slip Pt. Lt.; dist.<br>from Race Rks. Lt. to Slip Pt. Lt. is 28.4 miles. | s.b.                            | $2\frac{3}{4}-$    |
| <b>Race Rks. Lt.</b>                                                                                                                                                                                | s.b.                            | 3                  |
| <b>Beachy Hd.</b>                                                                                                                                                                                   | s.b.                            | $2\frac{1}{2}+$    |
| <b>Sheringham Pt. Lt.</b>                                                                                                                                                                           | s.b.                            | 3                  |
| <b>Pillar Pt.</b>                                                                                                                                                                                   | p.b.                            | $8\frac{1}{4}$     |
| <b>Slip Pt. Lt.</b>                                                                                                                                                                                 | p.b.                            | $7\frac{1}{4}$     |
| <b>San Juan Pt.</b>                                                                                                                                                                                 | s.b.                            | $5\frac{3}{4}$     |

| True Course | Mag. Course | Mag. in Points           | Dist. from Pt to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|--------------------------|----------------------|-------------------------------|----------------------|
| N85W        | S70W        | $W \times S\frac{3}{4}S$ | 5.6                  | 32.7                          | 61.3                 |
| N74W        | S81W        | $W\frac{3}{4}S$          | 0.5                  | 33.2                          | 60.8                 |
| “           | “           | “                        | 5.3                  | 38.5                          | 55.5                 |
| “           | “           | “                        | 11.5                 | 50.0                          | 44.0                 |
| “           | “           | “                        | 4.1                  | 54.1                          | 39.9                 |
| “           | “           | “                        | 6.6                  | 60.7                          | 33.3                 |
| “           | “           | “                        | 12.7                 | 73.4                          | 20.6                 |



|                         | Pt. Wilson to Swiftsure Lightship                                                                                                  | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Strait of Juan de Fuca. | San Juan Gas and Whistling Buoy                                                                                                    | s.b.                            | 5 $\frac{3}{4}$     |
|                         | Neah Bay Gas and Whistling Buoy                                                                                                    | p.b.                            | 3 $\frac{1}{2}$ —   |
|                         | Cape Flattery Lt.                                                                                                                  | p.b.                            | 5 $\frac{1}{8}$     |
| Pacific Ocean.          | Duntze Rk.<br>Sunken Rk., 3 $\frac{1}{2}$ fms. water. Lies 1 $\frac{1}{4}$ miles NW $\frac{5}{8}$ N<br>mag. from Cape Flattery Lt. | p.b.                            | 3 $\frac{7}{8}$     |
|                         | Bonilla Pt.<br>Foul to about $\frac{1}{2}$ mile off.                                                                               | s.b.                            | 5 $\frac{1}{2}$ +   |
|                         | Carmanah Lt.                                                                                                                       | s.b.                            | 7 $\frac{1}{2}$     |
|                         | Swiftsure Lightship                                                                                                                | s.b.                            | close               |

| True Course | Mag. Course | Mag. in Points    | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------|-----------------------|-------------------------------|----------------------|
| N74W        | S81W        | W $\frac{3}{4}$ S | 0.9                   | 74.3                          | 19.7                 |
| “           | “           | “                 | 2.3                   | 76.3                          | 17.4                 |
| “           | “           | “                 | 4.9                   | 81.5                          | 12.5                 |
| “           | “           | “                 | 0.7                   | 82.2                          | 11.8                 |
| “           | “           | “                 | 1.7                   | 83.9                          | 10.1                 |
| “           | “           | “                 | 1.9                   | 85.8                          | 8.2                  |
| “           | “           | “                 | 8.2                   | 94.0                          | 0.0                  |

**Burrows Id. Lt. to Bellingham**  
Via Bellingham Channel.  
Continued from page 202.

Port  
or  
Starboard  
Beam

Dist. off  
Miles

**Burrows Id. Lt.**

Bearings East true. Heading on SE end of Cypress Id. Cypress Id. Lt. slightly on the starboard bow.

s.b.

$\frac{3}{8}$

**Belle Rk. Buoy**

p.b.

$1\frac{3}{8}$

**Green Pt.**

Heading on Indian Village.

s.b.

$\frac{3}{8}$

**Shannon Pt.**

s.b.

$\frac{5}{8}$

**SE end Cypress Id.**

Burrows Id. Lt., Green Pt. and Clark Pt. in line.

p.b.

$\frac{3}{8}$ —

**Cypress Id. Lt.**

Head on SE end Sinclair Id.

p.b.

$\frac{1}{4}$

**Clark Pt.**

Clark Pt. is foul to about  $\frac{1}{8}$  mile to northward.

s.b.

$\frac{3}{8}$ +

Rosario Strait.

Bellingham Channel.

| True Course | Mag. Course | Mag. in Points           | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|--------------------------|-----------------------|-------------------------------|----------------------|
| N22E        | N3W         | $N\frac{1}{4}W$          | 0.0                   | 0.0                           | 19.1                 |
| “           | “           | “                        | 0.5                   | 0.5                           | 18.6                 |
| N29E        | N4E         | $N\frac{3}{8}E$          | 1.1                   | 1.6                           | 17.5                 |
| “           | “           | “                        | 0.8                   | 2.4                           | 16.7                 |
| N21E        | N4W         | $N\frac{3}{8}W$          | 1.9                   | 4.3                           | 14.8                 |
| N5E         | N20W        | $N \times W\frac{3}{4}W$ | 1.5                   | 5.8                           | 13.3                 |
| “           | “           | “                        | 1.4                   | 7.2                           | 11.9                 |



|                     | Burrows Id. Lt. to Bellingham<br>Via Bellingham Channel.                            | Port<br>or<br>Starboard<br>Beam | Dist. off<br>Miles |
|---------------------|-------------------------------------------------------------------------------------|---------------------------------|--------------------|
| Bellingham Channel. | <b>Cone Id. E'ly Id.</b><br>Head on South end Eliza Id., 1,480 foot peak<br>astern. | p.b.                            | $\frac{1}{2}+$     |
|                     | <b>Clark Pt., 2nd time</b><br>Foul to about $\frac{1}{8}$ mile off.                 | s.b.                            | $\frac{1}{2}$      |
|                     | <b>SE end Sinclair Id.</b>                                                          | p.b.                            | $\frac{5}{8}$      |
|                     | <b>Vendovi Id. Buoy</b><br>Red and black can moored in 27 feet of water.            | s.b.                            | $\frac{5}{8}$ —    |
|                     | <b>Vendovi Id., NW end</b><br>W'ly Cone Ids. astern.                                | s.b.                            | $\frac{3}{8}$      |
|                     | <b>Viti Rk. Lt.</b><br>Passing $\frac{1}{2}+$ mile of SE'ly rock.                   | p.b.                            | $\frac{3}{4}+$     |
|                     | <b>Eliza Rk.</b>                                                                    | p.b.                            | $\frac{3}{8}$      |

| True Course | Mag. Course | Mag. in Points               | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|------------------------------|-----------------------|-------------------------------|----------------------|
| N45E        | N20E        | $N \times E^{\frac{3}{4}}E$  | 0.1                   | 7.3                           | 11.8                 |
| “           | “           | “                            | 0.2                   | 7.5                           | 11.6                 |
| “           | “           | “                            | 0.7                   | 8.2                           | 10.9                 |
| “           | “           | “                            | 0.7                   | 8.9                           | 10.2                 |
| N58E        | N33E        | $NE \times N^{\frac{1}{8}}N$ | 0.7                   | 9.6                           | 9.5                  |
| “           | “           | “                            | 0.3                   | 9.9                           | 9.2                  |
| N17E        | N8W         | $N^{\frac{3}{4}}W$           | 2.0                   | 11.9                          | 7.2                  |

Bellingham Bay.

**Burrows Id. Lt. to Bellingham**  
Via Bellingham Channel.

Port  
or  
Starboard  
Beam

Dist. off  
Miles

**Post Pt. Gas and Bell Buoy**

Whatcom Waterway Lt. slightly on the starboard bow.  
Heading into the dredged channel.

s.b.

 $\frac{3}{8}+$ 

**Starr Rk. Buoy**

About 35 yards West of rock.

s.b.

 $\frac{1}{8}+$ 

**Whatcom Waterway Lt.**

A dredged channel with a depth of 26 feet leads to dock.  
Distance from Seattle to Bellingham, 78.1 miles.

s.b.

close

**Burrows Id. Lt. to Bellingham**  
Via Guemes Channel.  
Continued from page 202.

Rosario Strait.

**Burrows Id. Lt.**

Bearing East true. Heading on SE end Cypress  
Id., Cypress Id. Lt. slightly on the starboard bow.

s.b.

 $\frac{3}{8}$ 

**Belle Rk. Buoy**

p.b.

 $1\frac{3}{8}$ 

**Green Pt.**

Head on North part of Yellow Bluff, Cape St. Mary  
astern.

s.b.

 $\frac{3}{8}$



| True Course | Mag Course | Mag. in Points              | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|------------|-----------------------------|-----------------------|-------------------------------|----------------------|
| N44E        | N19E       | $N \times E^{\frac{3}{4}}E$ | 4.8                   | 16.7                          | 2.4                  |
| “           | “          | “                           | 1.7                   | 18.4                          | 0.7                  |
|             |            |                             | 0.7                   | 19.1                          | 0.0                  |
| <hr/>       |            |                             |                       |                               |                      |
| N22E        | N3W        | $N^{\frac{1}{4}}W$          | 0.0                   | 0.0                           | 21.6                 |
| “           | “          | “                           | 0.5                   | 0.5                           | 21.1                 |
| N48E        | N23E       | NNE                         | 1.1                   | 1.6                           | 20.0                 |



|                 | Burrows Id. Lt. to Bellingham<br>Via Guemes Channel.                                               | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-----------------|----------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Guemes Channel. | <b>Shannon Pt.</b><br>Head on SE end Guemes Id.                                                    | s.b.                            | $\frac{3}{8}$       |
|                 | <b>Shannon Pt. Buoy</b><br>Red Nun No. 2.                                                          | s.b.                            | $\frac{1}{4}$       |
|                 | <b>Yellow Bluff</b><br>West end Guemes Id.<br>Passing $\frac{1}{4}$ mile off South end Guemes Id.  | p.b.                            | $\frac{3}{4}$ —     |
|                 | <b>Anacortes, E'ly Dk.</b><br>Head on North end Hat Id.                                            | s.b.                            | $\frac{1}{8}$       |
| Padilla Bay.    | <b>SE end Guemes Id.</b>                                                                           | p.b.                            | $\frac{1}{8}$       |
|                 | <b>Huckleberry Id., SE Pt.</b>                                                                     | p.b.                            | $\frac{1}{8}$       |
|                 | <b>Saddlebag Id.</b><br>Heading on West side Eliza Id., March Pt. Lt.<br>slightly on port quarter. | s.b.                            | $\frac{1}{4}$ —     |
|                 | <b>William Pt. Lt.</b><br>Highest part of Guemes Id. slightly on port quarter.                     | s.b.                            | $\frac{5}{8}$       |

| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| N79E        | N54E        | NE $\frac{3}{4}$ E            | 1.1                   | 2.7                           | 18.9                 |
| "           | "           | "                             | 0.3                   | 3.0                           | 18.6                 |
| "           | "           | "                             | 1.3                   | 4.3                           | 17.3                 |
| N84E        | N59E        | NE $\times$ E $\frac{1}{4}$ E | 1.6                   | 5.9                           | 15.7                 |
| N34E        | N9E         | N $\frac{3}{4}$ E             | 1.5                   | 7.4                           | 14.2                 |
| N10W        | N35W        | NW $\frac{7}{8}$ N            | 0.6                   | 8.0                           | 13.6                 |
| N11E        | N14W        | N $\times$ W $\frac{1}{4}$ W  | 2.9                   | 10.9                          | 10.7                 |

|                     | Burrows Id. Lt. to Bellingham<br>Via Guemes Channel.                                                                   | Port<br>or<br>Starboard<br>Beam | Dist. off<br>Miles |
|---------------------|------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------|
| Bellingham Bay.     | Vendovi Id., East Pt.                                                                                                  | p.b.                            | 1 $\frac{1}{4}$ —  |
|                     | Eliza Rk.                                                                                                              | p.b.                            | $\frac{3}{4}$ +    |
|                     | Post Pt. Gas and Bell Buoy<br>Whatcom Waterway Lt. slightly on the starboard<br>bow. Heading into the dredged channel. | s.b.                            | $\frac{3}{8}$ +    |
|                     | Starr Rk. Buoy<br>About 35 yards west of rock.                                                                         | s.b.                            | $\frac{1}{8}$ +    |
|                     | Whatcom Waterway Lt.                                                                                                   | s.b.                            | close              |
| Seattle to Everett. |                                                                                                                        |                                 |                    |
| Elliott Bay.        | Seattle, Colman Dk.<br>Colman Dk. Lt. astern.                                                                          |                                 |                    |



| True Course | Mag. Course | Mag. in Points             | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|----------------------------|-----------------------|-------------------------------|----------------------|
| N11E        | N14W        | $N \times W \frac{1}{4} W$ | 1.3                   | 12.2                          | 9.4                  |
| “           | “           | “                          | 2.3                   | 14.5                          | 7.1                  |
| N44E        | N19E        | $N \times E \frac{3}{4} E$ | 4.7                   | 19.2                          | 2.4                  |
| “           | “           | “                          | 1.7                   | 20.9                          | 0.7                  |
|             |             |                            | 0.7                   | 21.6                          | 0.0                  |
| N66W        | West        | West                       | 0.0                   | 0.0                           | 28.6                 |



|                   | Seattle to Everett.                                                                          | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-------------------|----------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Elliott Bay.      | Four Mile Rk. Lt.                                                                            | s.b.                            | $\frac{3}{4}$       |
|                   | West Pt. Lt.<br>Passing $\frac{1}{2}$ mile off Spar Buoy.                                    | s.b.                            | $\frac{3}{4}$       |
| Puget Sound.      | Pt. Wells Dk.                                                                                | s.b.                            | 1—                  |
|                   | Pt. Edwards<br>Pt. Edwards is foul to southward, to nearly $\frac{3}{8}$ mile<br>from shore. | s.b.                            | $\frac{7}{8}$       |
|                   | Pt. Possession Buoy<br>Black Spar No. 1.                                                     | p.b.                            | 1—                  |
| Possession Sound. | Pt. Possession                                                                               | p.b.                            | $\frac{7}{8}$       |
|                   | Pt. Elliott Lt.                                                                              | s.b.                            | $\frac{3}{4}$       |

| True Course | Mag. Course | Mag. in Points        | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-----------------------|-----------------------|-------------------------------|----------------------|
| N32W        | N56W        | NW × W                | 3.8                   | 3.8                           | 24.8                 |
| N10E        | N14W        | N × W $\frac{1}{4}$ W | 2.1                   | 5.9                           | 22.7                 |
| “           | “           | “                     | 7.7                   | 13.6                          | 15.0                 |
| N23E        | N1W         | N $\frac{1}{8}$ W     | 1.3                   | 14.9                          | 13.7                 |
| “           | “           | “                     | 5.5                   | 20.4                          | 8.2                  |
| “           | “           | “                     | 0.6                   | 21.0                          | 7.6                  |
| N73E        | N49E        | NE $\frac{3}{8}$ E    | 3.7                   | 24.7                          | 3.9                  |

|                   | Seattle to Everett.                                           | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-------------------|---------------------------------------------------------------|---------------------------------|---------------------|
|                   | Everett, City Dk.                                             |                                 |                     |
|                   | Everett to Port Townsend.                                     |                                 |                     |
| Possession Sound. | Everett, City Dk.                                             |                                 |                     |
|                   | Pt. Elliot Lt.                                                | p.b.                            | $\frac{3}{4}$       |
|                   | Pt. Possession<br>Foul to southward about $\frac{1}{2}$ mile. | s.b.                            | $\frac{7}{8}$       |
| Puget Sound.      | Pt. Possession Spar Buoy<br>Head on Pt. No Pt. Lt.            | s.b.                            | 1—                  |
|                   | { Pt. Possession Spar Buoy, 2nd time                          | s.b.                            | $\frac{3}{4}$       |
|                   | { Pt. Possession, 2nd time                                    | s.b.                            | $1\frac{1}{4}$      |

| True Course | Mag. Course | Mag. in Points     | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|--------------------|-----------------------|-------------------------------|----------------------|
|             |             |                    | 3.9                   | 28.6                          | 0.0                  |
|             |             |                    |                       |                               |                      |
| S73W        | S49W        | SW $\frac{3}{8}$ W | 0.0                   | 0.0                           | 31.4                 |
| S23W        | S1E         | S $\frac{1}{8}$ E  | 3.9                   | 3.9                           | 27.5                 |
| “           | “           | “                  | 3.7                   | 7.6                           | 23.8                 |
| N74W        | S82W        | W $\frac{3}{4}$ S  | 0.6                   | 8.2                           | 23.2                 |
| “           | “           | “                  | 1.3                   | 9.5                           | 21.9                 |



|                  | Everett to Port Townsend.                                                                           | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|------------------|-----------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Puget Sound.     | Scatchet Hd., W'ly Hd.                                                                              | p.b.                            | 1 $\frac{1}{4}$     |
|                  | Pt. No Pt. Lt.                                                                                      | p.b.                            | 1 $\frac{1}{4}$ —   |
| Admiralty Inlet. | Double Bluff, S'ly Bluff<br>Passing $\frac{3}{4}$ miles off Spar Buoy. Head on Marrow-<br>stone Lt. | s.b.                            | 1                   |
|                  | Bush Pt. Lt.                                                                                        | s.b.                            | $\frac{3}{4}$       |
|                  | Marrowstone Pt. Lt.                                                                                 | p.b.                            | $\frac{3}{4}$       |
| Port Townsend.   | Marrowstone Pt. Lt., 2nd time                                                                       | p.b.                            | $\frac{3}{4}$       |
|                  | Port Townsend Dk.                                                                                   |                                 |                     |

| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| N54W        | N78W        | W $\times$ N $\frac{1}{8}$ N  | 2.2                   | 11.7                          | 19.7                 |
| “           | “           | “                             | 3.3                   | 15.0                          | 16.4                 |
| N30W        | N54W        | NW $\frac{3}{4}$ W            | 2.8                   | 17.8                          | 13.6                 |
| N21W        | N45W        | NW                            | 4.8                   | 22.6                          | 8.8                  |
| S89W        | S65W        | SW $\times$ W $\frac{3}{4}$ W | 5.2                   | 27.8                          | 3.6                  |
| “           | “           | “                             | 0.9                   | 28.7                          | 2.7                  |
|             |             |                               | 2.7                   | 31.4                          | 0.0                  |

## Port Townsend to New Dungeness Bay.

Port  
or  
Starboard  
BeamDist. off.  
Miles

Port Townsend.

Port Townsend Dk.

p.b.

 $\frac{1}{8}$ 

Pt. Hudson Lt.

p.b.

 $\frac{1}{4}$ —

Admiralty Inlet.

Pt. Hudson Spit Buoy

p.b.

 $\frac{1}{4}$ Red Spar No. 2.  
Walan Pt. astern.

Pt. Wilson Lt.

p.b.

 $\frac{3}{4}$ +

Pt. Wilson Lt., 2nd time

p.b.

1

Heading for New Dungeness Lt.  
Admiralty Hd. Lt. slightly in over stern.

Pt. Wilson Buoy

p.b.

 $\frac{5}{8}$ —

Red Nun No. 6.

Strait of Juan de Fuca.

Middle Pt. Buoy

p.b.

 $1\frac{1}{4}$ 

Red Nun No. 4.

| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| N55E        | N31E        | NE $\times$ N $\frac{1}{4}$ N | 0.0                   | 0.0                           | 18.1                 |
| "           | "           | "                             | 0.4                   | 0.4                           | 17.7                 |
| N7E         | N17W        | N $\times$ W $\frac{1}{2}$ W  | 0.3                   | 0.7                           | 17.4                 |
| N85W        | S70W        | W $\times$ S $\frac{3}{4}$ S  | 1.6                   | 2.3                           | 15.8                 |
| "           | "           | "                             | 1.4                   | 3.7                           | 14.4                 |
| "           | "           | "                             | 0.5                   | 4.2                           | 13.9                 |
| "           | "           | "                             | 3.0                   | 7.2                           | 10.9                 |



Strait of Juan de Fuca.

New Dungeness Bay.

## Port Townsend to New Dungeness Bay.

Port  
or  
Starboard  
BeamDist. off.  
Miles

East end Protection Id.

p.b.

2 $\frac{1}{2}$ +

## Position

New Dungeness Lt. right ahead, dist. 1 mile.

New Dungeness Buoy bearing N61W mag., dist.  $\frac{5}{8}$  mile.

New Dungeness Lt.

s.b.

5/8+

## New Dungeness Bay

Anchorage in 9 fms. water; sticky bottom.



Lincoln Rk. Lt. to Midway Id. Lt.  
Via Snow Passage and to the Eastward of The Brothers.  
For westward of The Brothers, see page 252.  
Continued from page 64.

Port  
or  
Starboard  
Beam

Dist. off.  
Miles

Lincoln Rk. Lt.  
Bearing N68E true. Head on East Pt. Shrubby Id.  
If going to the northward of Key Reef, see page 260.

s.b. 1

East Blashke Id.

p.b. 1½—

SE rock of Key Reef  
Covered at ¾ flood.

s.b. ½

Key Reef Lt.

s.b. ½

Bluff Id., North end

p.b. 5⁄8+

{ Nesbit Reef  
SE end Shrubby Id.

s.b. 1¼—  
p.b. ¾

{ Pt. on Shrubby Id.  
Pt. Nesbitt

p.b. 3⁄8+  
s.b. 1¼

Clarence Strait.

| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| N32W        | N62W        | NW $\times$ W $\frac{1}{2}$ W | 0.0                   | 0.0                           | 197.0                |
| “           | “           | “                             | 5.5                   | 5.5                           | 191.5                |
| “           | “           | “                             | 1.3                   | 6.8                           | 190.2                |
| N27W        | N57W        | NW $\times$ W $\frac{1}{8}$ W | 0.7                   | 7.5                           | 189.5                |
| “           | “           | “                             | 1.5                   | 9.0                           | 188.0                |
| “           | “           | “                             | 2.4                   | 11.4                          | 185.6                |
| “           | “           | “                             | 0.6                   | 12.0                          | 185.0                |



|                  | Lincoln Rk. Lt. to Midway Id. Lt.<br>Via Snow Passage.                                                                          | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Snow Passage.    | { Black Rks.                                                                                                                    | p.b.                            | $\frac{1}{4}+$      |
|                  | { Snow Passage Buoy                                                                                                             | s.b.                            | $\frac{1}{4}-$      |
|                  | Snow Passage Lt.                                                                                                                | p.b.                            | $\frac{1}{4}-$      |
|                  | { NE end Bushy Id.                                                                                                              | p.b.                            | $\frac{3}{8}-$      |
|                  | { Outer Rk.                                                                                                                     | p.b.                            | $\frac{1}{4}$       |
| Clarence Strait. | Tide Id.<br>Zarembo Id. shore is foul off here, a rock bare at low water, showing kelp lies about $\frac{1}{8}$ mile off shore. | p.b.                            | $1\frac{3}{4}-$     |
|                  | McNamara Pt.<br>A rock lies off this point.                                                                                     | s.b.                            | $\frac{5}{8}$       |
|                  | Rookery Id. Reef<br>26 feet of water at low water.                                                                              | p.b.                            | $\frac{3}{8}+$      |
|                  | Rookery Id., East Id.                                                                                                           | p.b.                            | $\frac{7}{8}$       |
|                  |                                                                                                                                 |                                 |                     |

| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| N27W        | N57W        | NW $\times$ W $\frac{1}{8}$ W | 3.1                   | 15.1                          | 181.9                |
| “           | “           | “                             | 0.6                   | 15.7                          | 181.3                |
| N57W        | N87W        | W $\frac{1}{4}$ N             | 0.3                   | 16.0                          | 181.0                |
| “           | “           | “                             | 2.9                   | 18.9                          | 178.1                |
| “           | “           | “                             | 1.7                   | 20.6                          | 176.4                |
| “           | “           | “                             | 0.3                   | 20.9                          | 176.1                |
| “           | “           | “                             | 0.4                   | 21.3                          | 175.7                |

|                | Lincoln Rk. Lt. to Midway Id. Lt.<br>Via Snow Passage.                                                                                                       | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles               |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------------------------------|
| Sumner Strait. | <b>Bay Pt. Rk.</b><br>Bare at low water.<br>Bay Pt. abm., dist. $1\frac{1}{2}$ miles.                                                                        | p.b.                            | $\frac{7}{8}$                     |
|                | <b>Pt. Colpoys</b><br>Foul to $\frac{1}{4}$ mile off.                                                                                                        | p.b.                            | $1\frac{1}{2}$                    |
|                | <b>Pt. Colpoys, 2nd time</b><br>Heading on Strait Id. Lt. This course passes over<br>a $5\frac{1}{2}$ fms. patch, $1\frac{1}{4}$ miles from Pt. Colpoys abm. | p.b.                            | $1\frac{1}{2}$                    |
|                | <b>The Eye Opener Lt.</b><br>A reef extends Southwestward from light, nearly<br>$\frac{1}{2}$ mile.                                                          | s.b.                            | $1\frac{1}{4}$                    |
|                | <b>Pt. Baker</b><br>A $3\frac{1}{2}$ fms. patch lies $\frac{1}{2}$ mile off.                                                                                 | p.b.                            | $1\frac{1}{2}$                    |
|                | <b>Helm Rk. Buoy</b>                                                                                                                                         | p.b.                            | $\frac{7}{8}$                     |
|                | { Helm Rk. Buoy, 2nd time<br>{ Strait Id. Lt.                                                                                                                | p.b.<br>s.b.                    | $\frac{7}{8}$<br>$1\frac{1}{4}$ — |

| True Course | Mag. Course | Mag. in Points            | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|---------------------------|-----------------------|-------------------------------|----------------------|
| N57W        | N87W        | $W\frac{1}{4}N$           | 2.3                   | 23.6                          | 173.4                |
| N84W        | S65W        | $SW \times W\frac{3}{4}W$ | 1.0                   | 24.6                          | 172.4                |
| "           | "           | "                         | 0.8                   | 25.4                          | 171.6                |
| "           | "           | "                         | 2.9                   | 28.3                          | 168.7                |
| "           | "           | "                         | 11.3                  | 39.6                          | 157.4                |
| S24W        | S7E         | $S\frac{5}{8}E$           | 0.7                   | 40.3                          | 156.7                |
| "           | "           | "                         | 1.1                   | 41.4                          | 155.6                |



| Lincoln Rk. Lt. to Midway Id. Lt.<br>Via Snow Passage.                                                          | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-----------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Strait Id. Reef<br>Bare at low water.                                                                           | s.b.                            | 1                   |
| Port Protection, South Pt.                                                                                      | p.b.                            | 1½—                 |
| Labouchere Id.                                                                                                  | p.b.                            | 1¾—                 |
| North Calder Rks.<br>Sunken Rks.                                                                                | p.b.                            | 1                   |
| { Beaulerc Id. Lt.<br>South Calder Rks.<br>Awash about ½ tide. Warren Peak and west side<br>Strait Id. in line. | s.b.<br>p.b.                    | 3—<br>1½+           |
| Barrier Id., North end                                                                                          | p.b.                            | 3¼+                 |
| { 4¾ fms. Patch<br>SE Id., off Pt. Amelius<br>Shakan Lt. abm. to port, distance off 5¼ miles.                   | s.b.<br>s.b.                    | 7⁄8+<br>2¾          |

| True Course | Mag. Course | Mag. in Points               | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|------------------------------|-----------------------|-------------------------------|----------------------|
| S24W        | S7E         | S $\frac{5}{8}$ E            | 0.3                   | 41.7                          | 155.3                |
| "           | "           | "                            | 2.1                   | 43.8                          | 153.2                |
| "           | "           | "                            | 2.2                   | 46.0                          | 151.0                |
| "           | "           | "                            | 2.6                   | 48.6                          | 148.4                |
| S12W        | S19E        | S $\times$ E $\frac{3}{4}$ E | 1.6                   | 50.2                          | 146.8                |
| "           | "           | "                            | 0.5                   | 50.7                          | 146.3                |
| "           | "           | "                            | 4.1                   | 54.8                          | 142.2                |

|                | Lincoln Rk. Lt. to Midway Id. Lt.<br>Via Snow Passage.                                                                                                                      | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
|                | Bluff Id.                                                                                                                                                                   | p.b.                            | 4 $\frac{1}{4}$     |
|                | { Pt. St. Albans Lt.                                                                                                                                                        | s.b.                            | 4 $\frac{1}{2}$ +   |
|                | { Pt. St. Albans Buoy                                                                                                                                                       | s.b.                            | 3 $\frac{1}{4}$     |
|                | <b>Position</b><br>Pt. St. Albans Lt. bearing W $\frac{1}{4}$ N mag., dist. 5<br>miles. Heading between Spanish Id. Lt. and Cape<br>Decision. The Nipples high peak astern. |                                 |                     |
| Sumner Strait. | Pt. St. Albans Lt., 2nd time                                                                                                                                                | s.b.                            | 4                   |
|                | <b>Fairway Id.</b><br>Passing 1 mile off reef.                                                                                                                              | s.b.                            | 17 $\frac{7}{8}$    |
|                | <b>Spanish Id. Lt.</b><br>Passing $\frac{3}{8}$ mile off outer rock.                                                                                                        | p.b.                            | 1 $\frac{1}{2}$ +   |
|                | <b>Cape Decision</b><br>If bound up towards Icy Strait, continue on page 276.                                                                                               | s.b.                            | 1 $\frac{1}{2}$ +   |

| True<br>Course | Mag.<br>Course | Mag.<br>in Points     | Dist. from<br>Pt. to Pt. | Dist.<br>from<br>Point of<br>Departure | Dist. to<br>Destinaiton |
|----------------|----------------|-----------------------|--------------------------|----------------------------------------|-------------------------|
| S12W           | S19E           | S × E $\frac{3}{4}$ E | 2.7                      | 57.5                                   | 139.5                   |
| “              | “              | “                     | 2.5                      | 60.0                                   | 137.0                   |
| S72W           | S41W           | SW $\frac{3}{8}$ S    | 2.0                      | 62.0                                   | 135.0                   |
| “              | “              | “                     | 3.0                      | 65.0                                   | 132.0                   |
| “              | “              | “                     | 4.0                      | 69.0                                   | 128.0                   |
| “              | “              | “                     | 2.6                      | 71.6                                   | 125.4                   |
| “              | “              | “                     | 0.8                      | 72.4                                   | 124.6                   |



| Lincoln Rk. Lt. to Midway Id. Lt.<br>Via Snow Passage.                                                                                                                                                                                                                                                                                        | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| <p><b>Position</b><br/>When round on course Cape Decision is abm. 2nd time, dist. <math>1\frac{1}{4}</math> miles. Heading for Port Armstrong Lt. South end large Spanish Id. astern.</p> <p>Pt. Howard</p> <p>{ Pt. Crowley Lt.<br/>Crowley Rk.</p> <p>Pt. Crowley Lt., 2nd time</p> <p>Pt. Harris</p> <p>Pt. Ellis</p> <p>Pt. Ellis Lt.</p> |                                 |                     |
|                                                                                                                                                                                                                                                                                                                                               | s.b.                            | $1\frac{1}{2}$      |
|                                                                                                                                                                                                                                                                                                                                               | s.b.                            | $2\frac{5}{8}$      |
|                                                                                                                                                                                                                                                                                                                                               | s.b.                            | $1\frac{3}{4}$      |
|                                                                                                                                                                                                                                                                                                                                               | s.b.                            | $2\frac{5}{8}$      |
|                                                                                                                                                                                                                                                                                                                                               | s.b.                            | $2\frac{5}{8}$      |
|                                                                                                                                                                                                                                                                                                                                               | s.b.                            | $4\frac{1}{8}$ —    |
|                                                                                                                                                                                                                                                                                                                                               | s.b.                            | $3\frac{3}{4}$      |

| True Course | Mag. Course | Mag. in Points           | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|--------------------------|-----------------------|-------------------------------|----------------------|
| N41W        | N71W        | $W \times N\frac{3}{4}N$ | 1.2                   | 73.6                          | 123.4                |
| “           | “           | “                        | 5.3                   | 78.9                          | 118.1                |
| N9W         | N39W        | $NW\frac{1}{2}N$         | 2.7                   | 81.6                          | 115.4                |
| “           | “           | “                        | 1.5                   | 83.1                          | 113.9                |
| N7W         | N37W        | $NW\frac{3}{4}N$         | 10.4                  | 93.5                          | 103.5                |
| “           | “           | “                        | 16.3                  | 109.8                         | 87.2                 |
| “           | “           | “                        | 0.6                   | 110.4                         | 86.6                 |

|                  | Lincoln Rk. Lt. to Midway Id. Lt.<br>Via Snow Passage.                                  | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|------------------|-----------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Chatham Strait.  | Washington Bay, North Pt.                                                               | s.b.                            | 2 $\frac{7}{8}$     |
|                  | Kingsmill Pt. Lt.<br>If going to the westward of The Brothers, continue<br>on page 252. | s.b.                            | 3                   |
|                  | Kingsmill Pt. Lt., 2nd time                                                             | s.b.                            | 3                   |
| Frederick Sound. | Cornwallis Pt.                                                                          | s.b.                            | 2 $\frac{1}{2}$ +   |
|                  | Pt. Macartney<br>Outer Id.                                                              | s.b.                            | 3 $\frac{7}{8}$     |
|                  | Turnabout Id. Rks.<br>SE'ly rock.                                                       | s.b.                            | 1—                  |
|                  | Turnabout Id. Lt.<br>If bound for Petersburg, see page 256.                             | s.b.                            | 1 $\frac{1}{4}$ —   |

| True Course | Mag. Course | Mag. in Points               | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|------------------------------|-----------------------|-------------------------------|----------------------|
| N7W         | N37W        | NW $\frac{3}{4}$ N           | 9.3                   | 119.7                         | 77.3                 |
| N44E        | N13E        | N $\times$ E $\frac{1}{8}$ E | 7.4                   | 127.1                         | 69.9                 |
| “           | “           | “                            | 2.6                   | 129.7                         | 67.3                 |
| “           | “           | “                            | 7.4                   | 137.1                         | 59.9                 |
| “           | “           | “                            | 8.6                   | 145.7                         | 51.3                 |
| “           | “           | “                            | 5.2                   | 150.9                         | 46.1                 |
| “           | “           | “                            | 1.2                   | 152.1                         | 44.9                 |



| Lincoln Rk. Lt. to Midway Id. Lt.<br>Via Snow Passage. |                            | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|--------------------------------------------------------|----------------------------|---------------------------------|---------------------|
| Stephens Passage.                                      | SW Brothers                | p.b.                            | 2—                  |
|                                                        | The Brothers Lt.           | p.b.                            | 1 $\frac{1}{8}$     |
|                                                        | The Brothers Lt., 2nd time | p.b.                            | 1                   |
|                                                        | Sail Id., North end        | s.b.                            | 1 $\frac{1}{4}$     |
|                                                        | Pt. Gambier Lt.            | p.b.                            | 2 $\frac{1}{2}$ +   |
|                                                        | Pt. Hugh                   | p.b.                            | 1 $\frac{1}{2}$ +   |
|                                                        | Pt. Hugh Lt.               | p.b.                            | 1 $\frac{1}{2}$     |

| True Course | Mag. Course | Mag. in Points              | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-----------------------------|-----------------------|-------------------------------|----------------------|
| N44E        | N13E        | $N \times E \frac{1}{8} E$  | 8.5                   | 160.6                         | 36.4                 |
| North       | N32W        | $NW \times N \frac{1}{8} N$ | 3.0                   | 163.6                         | 33.4                 |
| "           | "           | "                           | 0.8                   | 164.4                         | 32.6                 |
| "           | "           | "                           | 3.5                   | 167.9                         | 29.1                 |
| "           | "           | "                           | 4.9                   | 172.8                         | 24.2                 |
| "           | "           | "                           | 8.1                   | 180.9                         | 16.1                 |
| N14W        | N46W        | $NW \frac{1}{8} W$          | 3.1                   | 184.0                         | 13.0                 |

|                   | Lincoln Rk. Lt. to Midway Id. Lt.<br>Via Snow Passage.                                              | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-------------------|-----------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Stephens Passage. | Midway Id. Lt.<br>Continued on page 90.                                                             | s.b.                            | 1½                  |
|                   | Pt. Kingsmill Lt. to Midway Id. Lt.<br>To the westward of The Brothers.<br>Continued from page 248. |                                 |                     |
| Chatham Strait.   | Pt. Kingsmill Lt.<br>Bearing NE¾E mag.                                                              | s.b.                            | 3                   |
|                   | Pt. Kingsmill Lt., 2nd time                                                                         | s.b.                            | 3                   |
|                   | Pt. Cornwallis                                                                                      | s.b.                            | 3½                  |
| Frederick Sound.  | Turnabout Id. Lt.                                                                                   | s.b.                            | 4                   |
|                   | Spruce Id., North end                                                                               | p.b.                            | 1½+                 |



| True Course | Mag. Course | Mag. in Points    | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------|-----------------------|-------------------------------|----------------------|
| N24W        | N56W        | NW × W            | 13.0                  | 197.0                         | 0.0                  |
| N37E        | N6E         | N $\frac{1}{2}$ E | 0.0                   | 0.0                           | 67.5                 |
| “           | “           | “                 | 2.2                   | 2.2                           | 65.3                 |
| “           | “           | “                 | 7.4                   | 9.6                           | 57.9                 |
| “           | “           | “                 | 15.0                  | 24.6                          | 42.9                 |
| “           | “           | “                 | 2.0                   | 26.6                          | 40.9                 |



|                   | Pt. Kingsmill Lt. to Midway Id. Lt.<br>To the westward of The Brothers.                                                                                              | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles               |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------------------------------|
| Frederick Sound.  | Round Rk.<br>40 feet high.                                                                                                                                           | s.b.                            | $1\frac{1}{2}+$                   |
|                   | { Pt. Pybus<br>SW Brothers                                                                                                                                           | p.b.<br>s.b.                    | $1\frac{3}{4}-$<br>$1\frac{7}{8}$ |
| Stephens Passage. | NW Pt. Brothers                                                                                                                                                      | s.b.                            | 1—                                |
|                   | False Pt. Pybus<br>A rock lies close off this point. West side of Turn-<br>about Id. astern.                                                                         | p.b.                            | 1                                 |
|                   | Pt. Gambier Lt.<br>A rock, awash at low water, lies about $\frac{3}{8}$ mile SE<br>mag. from the light. 519 Foot Hill on The Bro-<br>thers astern, slightly to port. | p.b.                            | $1\frac{1}{2}$                    |
|                   | 15-Foot Patch<br>A rock, bare at low water, lies about $\frac{3}{8}$ mile west-<br>ward of this patch.                                                               | p.b.                            | $1\frac{1}{8}-$                   |
|                   | Pt. Hugh<br>The shore from Pt. Hugh to Pt. Hugh Lt. is foul<br>to about $\frac{1}{4}$ mile off.                                                                      | p.b.                            | $1\frac{1}{4}+$                   |

| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| N37E        | N6E         | N $\frac{1}{2}$ E             | 5.1                   | 31.7                          | 35.8                 |
| “           | “           | “                             | 1.8                   | 33.5                          | 34.0                 |
| “           | “           | “                             | 2.1                   | 35.6                          | 31.9                 |
| N18E        | N14W        | N $\times$ W $\frac{1}{4}$ W  | 2.0                   | 37.6                          | 29.9                 |
| N6E         | N26W        | NW $\times$ N $\frac{5}{8}$ N | 5.3                   | 42.9                          | 24.6                 |
| “           | “           | “                             | 1.8                   | 44.7                          | 22.8                 |
| “           | “           | “                             | 6.5                   | 51.2                          | 16.3                 |

|                                                              | Pt. Kingsmill Lt. to Midway Id. Lt.<br>To the westward of The Brothers. | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|--------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------|---------------------|
| Stephens Passage.                                            | Pt. Hugh Lt.                                                            | p.b.                            | 1½                  |
|                                                              | Midway Id. Lt.<br>Continued on page 90.                                 | s.b.                            | 1½                  |
| Turnabout Id. Lt. to Petersburg.<br>Continued from page 248. |                                                                         |                                 |                     |
| Frederick Sound.                                             | Turnabout Id. Lt.<br>Bearing ExS½S mag.                                 | s.b.                            | 1¼—                 |
|                                                              | Turnabout Id. Lt., 2nd time                                             | s.b.                            | 1¼—                 |
|                                                              | East end Turnabout Id.                                                  | s.b.                            | 1                   |
|                                                              | Cape Fanshaw Lt.                                                        | p.b.                            | 5⅝                  |



| True Course | Mag. Course | Mag. in Points               | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|------------------------------|-----------------------|-------------------------------|----------------------|
| N14W        | N46W        | NW $\frac{1}{8}$ W           | 3.2                   | 54.4                          | 13.1                 |
| N24W        | N56W        | NW $\times$ W                | 13.1                  | 67.5                          | 0.0                  |
|             |             |                              |                       |                               |                      |
| S74E        | N75E        | W $\times$ N $\frac{3}{8}$ N | 0.0                   | 0.0                           | 45.7                 |
| “           | “           | “                            | 1.1                   | 1.1                           | 44.6                 |
| “           | “           | “                            | 0.6                   | 1.7                           | 44.0                 |
| “           | “           | “                            | 11.7                  | 13.4                          | 32.3                 |



|                  | Turnabout Id. Lt. to Petersburg.          | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|------------------|-------------------------------------------|---------------------------------|---------------------|
|                  | Portage Id.                               | s.b.                            | 2—                  |
|                  | Boulder Pt.                               | s.b.                            | 1 $\frac{3}{4}$     |
|                  | Cape Strait Lt.                           | s.b.                            | $\frac{3}{4}$       |
| Frederick Sound. | Beacon Pt. Bn.                            | s.b.                            | $\frac{1}{2}$       |
|                  | Sukoi Id. Lt.                             | p.b.                            | $\frac{1}{4}$       |
|                  | Position<br>Heading for Middle Ground Bn. |                                 |                     |
|                  | Red Spar No. 26                           | p.b.                            | close               |

| True Course | Mag. Course | Mag. in Points              | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-----------------------------|-----------------------|-------------------------------|----------------------|
| S74E        | N75E        | $W \times N^{\frac{3}{8}}N$ | 9.8                   | 23.2                          | 22.5                 |
| “           | “           | “                           | 1.1                   | 24.3                          | 21.4                 |
| S40E        | S71E        | $E \times S^{\frac{3}{4}}S$ | 7.7                   | 32.0                          | 13.7                 |
| S19E        | S50E        | $SE^{\frac{1}{2}}E$         | 4.9                   | 36.9                          | 8.8                  |
| “           | “           | “                           | 3.1                   | 40.0                          | 5.7                  |
| S64W        | S33W        | $SW \times S$               | 4.0                   | 44.0                          | 1.7                  |
| “           | “           | “                           | 0.7                   | 44.7                          | 1.0                  |

|                                                                                                                         | Turnabout Id. Lt. to Petersburg.                                                                                                          | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Wrangell Narrows.                                                                                                       | Mitkof Id. Lt.                                                                                                                            | p.b.                            | $\frac{1}{8}$       |
|                                                                                                                         | Mitkof Shoal Buoy No. 24a<br>Head on Turn Pt. Shoal Lt.                                                                                   | p.b.                            | close               |
|                                                                                                                         | Petersburg, City Dk.                                                                                                                      | p.b.                            | $\frac{1}{8}$       |
| <hr/> <b>Lincoln Rk. Lt. to Wrangell Narrows.</b><br>Via Snow Passage and north of Key Reef.<br>Continued from page 64. |                                                                                                                                           |                                 |                     |
| Clarence Strait.                                                                                                        | Lincoln Rk. Lt.<br>Bearing N68E true.                                                                                                     | s.b.                            | 1                   |
|                                                                                                                         | North end March Id.<br>Steamer Cone abm. nearly. Head on Pt. Nesbit.<br>South end Abraham Id. astern. Lincoln Rk. Lt.<br>on port quarter. | s.b.                            | 1                   |
|                                                                                                                         | SE rock of Key Reef<br>Covered at $\frac{3}{4}$ flood.                                                                                    | p.b.                            | 1—                  |



| True Course | Mag. Course | Mag. in Points                       | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|--------------------------------------|-----------------------|-------------------------------|----------------------|
| S64W        | S33W        | SW × S                               | 0.2                   | 44.9                          | 0.8                  |
| S52W        | S21W        | S × W <sup>7</sup> / <sub>8</sub> W  | 0.2                   | 45.1                          | 0.6                  |
|             |             |                                      | 0.6                   | 45.7                          | 0.0                  |
|             |             |                                      |                       |                               |                      |
| N11W        | N41W        | NW <sup>3</sup> / <sub>8</sub> N     | 0.0                   | 0.0                           | 35.7                 |
| N30W        | N60W        | NW × W <sup>3</sup> / <sub>8</sub> W | 3.9                   | 3.9                           | 31.8                 |
| “           | “           | “                                    | 3.1                   | 7.0                           | 28.7                 |



|                  | Lincoln Rk. Lt. to Wrangell Narrows.<br>Via Snow Passage.                                                                                                                                   | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Clarence Strait. | <b>Key Reef Lt.</b><br>Head on highest part of Bushy Id.                                                                                                                                    | p.b.                            | 1                   |
|                  | <b>Nesbitt Reef</b><br>Bare at $\frac{1}{2}$ ebb. Small Id. to S'ard of Shrubby Id.<br>abm. to port, distance off $1\frac{1}{8}$ miles. Put Key Reef<br>Lt. astern.                         | s.b.                            | $\frac{7}{8}+$      |
|                  | { <b>Pt. Nesbitt</b>                                                                                                                                                                        | s.b.                            | 1                   |
|                  | { <b>Pt. on Shrubby Id.</b>                                                                                                                                                                 | p.b.                            | $\frac{5}{8}+$      |
| Snow Passage.    | { <b>Black Rks.</b>                                                                                                                                                                         | p.b.                            | $\frac{3}{8}-$      |
|                  | { <b>Snow Passage Buoy</b><br>Red Nun No. 2.<br>Kelp shows near buoy.                                                                                                                       | s.b.                            | $\frac{1}{8}+$      |
|                  | <b>Snow Passage Lt.</b>                                                                                                                                                                     | p.b.                            | $\frac{1}{4}-$      |
| Clarence Strait. | { <b>NE end Bushy Id.</b>                                                                                                                                                                   | p.b.                            | $\frac{3}{8}-$      |
|                  | { <b>Outer Rk.</b>                                                                                                                                                                          | p.b.                            | $\frac{1}{4}$       |
|                  | <b>Tide Id.</b><br>Zarembo Id. shore is foul off here, a rock bare at<br>low water, showing kelp, lies about $\frac{1}{8}$ mile off<br>shore; this course passes $\frac{3}{8}$ mile off it. | p.b.                            | $1\frac{3}{4}-$     |

| True Course | Mag. Course | Mag. in Points              | Dist. from Pt. to Pt. | Dist. from point of Departure | Dist. to Destination |
|-------------|-------------|-----------------------------|-----------------------|-------------------------------|----------------------|
| N47W        | N77W        | $W \times N \frac{1}{8} N$  | 0.8                   | 7.8                           | 27.9                 |
| N30W        | N60W        | $NW \times W \frac{3}{8} W$ | 3.7                   | 11.5                          | 24.2                 |
| “           | “           | “                           | 0.8                   | 12.3                          | 23.4                 |
| “           | “           | “                           | 3.1                   | 15.4                          | 20.3                 |
| “           | “           | “                           | 0.6                   | 16.0                          | 19.7                 |
| N57W        | N87W        | $W \frac{1}{4} N$           | 0.3                   | 16.3                          | 19.4                 |
| “           | “           | “                           | 2.9                   | 19.2                          | 16.5                 |

|                  | Lincoln Rk. Lt. to Wrangell Narrows.<br>Via Snow Passage.                                                                                                                                                                                                                                   | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Clarence Strait. | <b>McNamara Pt.</b><br>A rock lies off this point.                                                                                                                                                                                                                                          | s.b.                            | $\frac{5}{8}$       |
|                  | <b>Rookery Id. Reef</b><br>26 feet of water at low water.                                                                                                                                                                                                                                   | p.b.                            | $\frac{3}{8}+$      |
|                  | <b>Rookery Id., East Id.</b>                                                                                                                                                                                                                                                                | p.b.                            | $\frac{7}{8}$       |
|                  | <b>Position</b><br>Head on west side Level Id. East Rookery Id.<br>astern.                                                                                                                                                                                                                  |                                 |                     |
| Sumner Strait.   | <b>Pt. on Zarembo Id.</b><br>This point is foul to about $\frac{3}{4}$ mile off.                                                                                                                                                                                                            | s.b.                            | $1\frac{1}{2}$      |
|                  | <b>Vichnefski Rk. Lt.</b><br>Passing Level Id. to port, dist. 1 mile, a rock<br>with 18 feet over it lies $\frac{5}{8}$ mile eastward of Level Id.<br>towards Vichnefski Rk. Lt. Vichnefski Rk. Lt.<br>is foul to $\frac{3}{4}$ mile off. Head on Pt. Alexander Lt.,<br>Pt. Colpoys astern. | s.b.                            | $\frac{7}{8}+$      |
|                  | <b>White Rk.</b>                                                                                                                                                                                                                                                                            | p.b.                            | $\frac{7}{8}-$      |



| True Course | Mag. Course | Mag. in Points   | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|------------------|-----------------------|-------------------------------|----------------------|
| N57W        | N87W        | $W\frac{1}{4}N$  | 1.7                   | 20.9                          | 14.8                 |
| “           | “           | “                | 0.3                   | 21.2                          | 14.5                 |
| “           | “           | “                | 0.4                   | 21.6                          | 14.1                 |
| N5W         | N35W        | $NW\frac{7}{8}N$ | 0.7                   | 22.3                          | 13.4                 |
| N25E        | N5W         | $N\frac{1}{2}W$  | 1.7                   | 24.0                          | 11.7                 |
| N39E        | N9E         | $N\frac{3}{4}E$  | 5.6                   | 29.6                          | 6.1                  |
| “           | “           | “                | 1.7                   | 31.3                          | 4.4                  |



|                                                                | Lincoln Rk. Lt. to Wrangell Narrows.<br>Via Snow Passage.                                                                                | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Sumner Strait.                                                 | <b>Position</b><br>Pt. Alexander Lt. right ahead, dist. $\frac{3}{4}$ + mile.<br>Head on Midway Rk. Lt.<br>E. side Southerly Id. astern. |                                 |                     |
| Wrangell Narrows.                                              | <b>Pt. Alexander Lt.</b>                                                                                                                 | s.b.                            | $\frac{1}{2}$       |
|                                                                | <b>Midway Rk. Lt.</b><br>Continued on page 68.                                                                                           | s.b.                            | $\frac{3}{16}$      |
| <b>Lincoln Rk. Lt. to Wrangell.</b><br>Continued from page 64. |                                                                                                                                          |                                 |                     |
| Clarence Strait.                                               | <b>Lincoln Rk. Lt.</b><br>Bearing N68E true.                                                                                             | s.b.                            | 1                   |
|                                                                | <b>North end March Id.</b><br>Steamer Cone.                                                                                              | s.b.                            | 1                   |
|                                                                | <b>Pt. Harrington</b>                                                                                                                    | s.b.                            | 1                   |

| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| North       | N31W        | NW $\times$ N $\frac{1}{4}$ N | 2.4                   | 33.7                          | 2.0                  |
| N9W         | N40W        | NW $\frac{1}{2}$ N            | 0.7                   | 34.4                          | 1.3                  |
| N12E        | N19W        | N $\times$ W $\frac{3}{4}$ W  | 1.3                   | 35.7                          | 0.0                  |
|             |             |                               |                       |                               |                      |
| N11W        | N41W        | NW $\frac{3}{8}$ N            | 0.0                   | 0.0                           | 31.2                 |
| N5W         | N35W        | NW $\frac{7}{8}$ N            | 4.2                   | 4.2                           | 27.2                 |
| N13E        | N17W        | N $\times$ W $\frac{1}{2}$ W  | 3.3                   | 7.5                           | 23.7                 |

## Lincoln Rk. Lt. to Wrangell.

Stikine Strait.

Pt. Harrington Buoy

s.b.

 $\frac{1}{2}$ 

Stikine Strait Lt.

s.b.

 $\frac{3}{4}$ 

Island in Straits

s.b.

 $\frac{3}{8}$ 

Round Pt.

p.b.

 $\frac{1}{2}$ 

South Craig Pt.

Head on Five Mile Id.

p.b.

 $\frac{3}{4}$ —

Ancon Peak

Passing  $\frac{7}{8}$ +mile off beach.

s.b.

 $1\frac{7}{8}$ +

High Pt.

s.b.

 $\frac{7}{8}$ —

| True Course | Mag. Course | Mag. in Points             | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|----------------------------|-----------------------|-------------------------------|----------------------|
| N13E        | N17W        | $N \times W \frac{1}{2} W$ | 0.4                   | 7.9                           | 23.3                 |
| N49E        | N19E        | $N \times E \frac{3}{4} E$ | 3.1                   | 11.0                          | 20.2                 |
| “           | “           | “                          | 1.3                   | 12.3                          | 18.9                 |
| N12E        | N18W        | $N \times W \frac{5}{8} W$ | 2.6                   | 14.9                          | 16.3                 |
| N32E        | N2E         | $N \frac{1}{8} E$          | 7.2                   | 22.1                          | 9.1                  |
| “           | “           | “                          | 1.3                   | 23.4                          | 7.8                  |
| “           | “           | “                          | 0.3                   | 23.7                          | 7.5                  |



|                                    | Lincoln Rk. Lt. to Wrangell.                                                                                             | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Stikine Strait.                    | <b>Wedge Pt.</b><br>Vank Id. Lt. is nearly abm. to port, dist. 2 miles.                                                  | s.b.                            | $\frac{7}{8}$ —     |
| Zimovia Strait.                    | <b>Woronkofski Pt.</b><br>Five Mile Id. is nearly abm. to port, dist. $1\frac{1}{8}$ miles.<br><br><b>Wrangell Dk.</b>   | s.b.                            | $\frac{3}{4}$ +     |
| <b>Wrangell to The Eye Opener.</b> |                                                                                                                          |                                 |                     |
| Zimovia Strait.                    | <b>Wrangell Dk.</b><br><br><b>Woronkofski Pt.</b><br>Five Mile Id. nearly abm. to starboard, dist. $1\frac{1}{8}$ miles. | p.b.                            | $\frac{3}{4}$ +     |
| Stikine Strait.                    | <b>Vank Id. Lt.</b>                                                                                                      | s.b.                            | $\frac{7}{8}$       |

| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| N55E        | N25E        | NE $\times$ N $\frac{3}{4}$ N | 1.3                   | 25.0                          | 6.2                  |
| N73E        | N43E        | NE $\frac{1}{8}$ N            | 2.3                   | 27.3                          | 3.9                  |
|             |             |                               | 3.9                   | 31.2                          | 0.0                  |
| S73W        | S43W        | SW $\frac{1}{8}$ S            | 0.0                   | 0.0                           | 33.9                 |
| "           | "           | "                             | 3.9                   | 3.9                           | 30.0                 |
| N54W        | N84W        | W $\frac{1}{2}$ N             | 3.3                   | 7.2                           | 26.7                 |

|                 | Wrangell to The Eye Opener.                          | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-----------------|------------------------------------------------------|---------------------------------|---------------------|
| Stikine Strait. | Vank Id. Lt., 2nd time                               | s.b.                            | $\frac{7}{8}$       |
|                 | West end Vank Id.<br>Haul when Sokolof Id. opens up. | s.b.                            | $1\frac{1}{2}$      |
|                 | Pt. Craig Bn.<br>Head on North end Level Id.         | p.b.                            | $\frac{3}{4}$       |
| Sumner Strait.  | Station Id.                                          | s.b.                            | $1\frac{1}{4}$      |
|                 | { Low Pt.                                            | p.b.                            | $1\frac{1}{8}+$     |
|                 | { Pt. Alexander Lt.                                  | s.b.                            | $2\frac{1}{4}$      |
|                 | Low Pt., 2nd time                                    | p.b.                            | $1\frac{1}{8}+$     |
|                 | Northerly Id.                                        | p.b.                            | 1                   |

| True Course | Mag. Course | Mag. in Points            | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|---------------------------|-----------------------|-------------------------------|----------------------|
| N54W        | N84W        | $W\frac{1}{2}N$           | 0.8                   | 8.0                           | 25.9                 |
| N79W        | S71W        | $W \times S\frac{5}{8}S$  | 2.7                   | 10.7                          | 23.2                 |
| N89W        | S61W        | $SW \times W\frac{1}{2}W$ | 1.7                   | 12.4                          | 21.5                 |
| “           | “           | “                         | 1.3                   | 13.7                          | 20.2                 |
| S60W        | S30W        | $SW \times S\frac{3}{8}S$ | 6.2                   | 19.9                          | 14.0                 |
| “           | “           | “                         | 0.6                   | 20.5                          | 13.4                 |
| “           | “           | “                         | 0.8                   | 21.3                          | 12.6                 |



Sumner Strait.

| Wrangell to The Eye Opener.                                                                                                                                                                                                                                                           |  | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------|---------------------|
| <b>Vichnefski Rk. Lt.</b><br>Passing Level Id. to starboard, dist. 1 mile. A rock with 18 feet over it, lies $\frac{5}{8}$ mile eastward of Level Id. towards Vichnefski Rk. Lt. Vichnefski Rk. Lt. is foul to $\frac{3}{8}$ mile off. Head on Pt. Colpoys, Pt. Alexander Lt. astern. |  | p.b.                            | $\frac{7}{8}+$      |
| <b>McArthur Reef Buoy</b>                                                                                                                                                                                                                                                             |  | s.b.                            | $1\frac{5}{8}$      |
| <b>McNamara Pt.</b>                                                                                                                                                                                                                                                                   |  | p.b.                            | $3\frac{3}{4}-$     |
| <b>Position</b><br>Heading on Strait Id. Lt.                                                                                                                                                                                                                                          |  |                                 |                     |
| <b>Pt. Colpoys</b><br>Foul to $\frac{1}{4}$ mile off.                                                                                                                                                                                                                                 |  | p.b.                            | $1\frac{1}{2}$      |
| <b>The Eye Opener Lt.</b><br>A reef extends SW'ly from light nearly $\frac{1}{2}$ mile.<br>Continued on page 240.                                                                                                                                                                     |  | s.b.                            | $1\frac{1}{4}$      |

| True<br>Course | Mag.<br>Course | Mag.<br>in Points             | Dist. from<br>Pt. to Pt. | Dist.<br>from<br>Point of<br>Departure | Dist. to<br>Destination |
|----------------|----------------|-------------------------------|--------------------------|----------------------------------------|-------------------------|
| S39W           | S9W            | S $\frac{3}{4}$ W             | 1.7                      | 23.0                                   | 10.9                    |
| “              | “              | “                             | 5.5                      | 28.5                                   | 5.4                     |
| “              | “              | “                             | 0.8                      | 29.3                                   | 4.6                     |
| N84W           | S65W           | SW $\times$ W $\frac{3}{4}$ W | 0.7                      | 30.0                                   | 3.9                     |
| “              | “              | “                             | 1.0                      | 31.0                                   | 2.9                     |
| “              | “              | “                             | 2.9                      | 33.9                                   | 0.0                     |

|                 | Cape Decision to Cape Spencer.<br>Continued from page 244.                                                                                                               | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
|                 | Cape Decision                                                                                                                                                            | s.b.                            | $1\frac{1}{2}+$     |
|                 | Position<br>When round on course, Cape Decision is abm. 2nd<br>time; dist. $1\frac{1}{4}$ miles. Heading for Port Arm-<br>strong Lt. South end large Spanish Id. astern. |                                 |                     |
|                 | Pt. Howard                                                                                                                                                               | s.b.                            | $1\frac{1}{2}$      |
| Chatham Strait. | { Pt. Crowley Lt.                                                                                                                                                        | s.b.                            | $2\frac{5}{8}$      |
|                 | { Crowley Rk.<br>Bares 7 feet.                                                                                                                                           | s.b.                            | $1\frac{3}{4}$      |
|                 | Pt. Crowley Lt., 2nd time                                                                                                                                                | s.b.                            | $2\frac{5}{8}$      |
|                 | Pt. Harris.                                                                                                                                                              | s.b.                            | $3\frac{1}{4}$      |
|                 | Port Walter Lt.                                                                                                                                                          | p.b.                            | $7\frac{3}{8}$      |

| True Course | Mag. Course | Mag. in Points               | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|------------------------------|-----------------------|-------------------------------|----------------------|
| S72W        | S41W        | SW $\frac{3}{8}$ S           | 0.0                   | 0.0                           | 189.6                |
| N41W        | N71W        | W $\times$ N $\frac{3}{4}$ N | 1.2                   | 1.2                           | 188.4                |
| “           | “           | “                            | 5.3                   | 6.5                           | 183.1                |
| N12W        | N42W        | NW $\frac{1}{4}$ N           | 2.7                   | 9.2                           | 180.4                |
| “           | “           | “                            | 1.3                   | 10.5                          | 179.1                |
| “           | “           | “                            | 10.4                  | 20.9                          | 168.7                |
| “           | “           | “                            | 8.0                   | 28.9                          | 160.7                |



|                 | Cape Decision to Cape Spencer. | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-----------------|--------------------------------|---------------------------------|---------------------|
| Chatham Strait. | Pt. Ellis Lt.                  | s.b.                            | 5 $\frac{5}{8}$     |
|                 | Pt. Patterson                  | p.b.                            | 4 $\frac{1}{4}$     |
|                 | Gut Bay, South Pt.             | p.b.                            | 2 $\frac{1}{8}$     |
|                 | Hoggat Bay, North Pt.          | p.b.                            | 2 $\frac{1}{2}$ —   |
|                 | Pt. Kingsmill Lt.              | s.b.                            | 6 $\frac{1}{4}$     |
|                 | Red Bluff Bay Lt.              | p.b.                            | 3                   |
|                 | Nelson Bay, North Pt.          | p.b.                            | 2 $\frac{3}{8}$     |

| True Course | Mag. Course | Mag. in Points     | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|--------------------|-----------------------|-------------------------------|----------------------|
| N12W        | N42W        | NW $\frac{1}{4}$ N | 8.5                   | 37.4                          | 152.2                |
| “           | “           | “                  | 0.5                   | 37.9                          | 151.7                |
| “           | “           | “                  | 11.2                  | 49.1                          | 140.5                |
| “           | “           | “                  | 2.8                   | 51.9                          | 137.7                |
| “           | “           | “                  | 2.2                   | 54.1                          | 135.5                |
| “           | “           | “                  | 1.8                   | 55.9                          | 133.7                |
| “           | “           | “                  | 5.1                   | 61.0                          | 128.6                |

|                 | Cape Decision to Cape Spencer.                                                                                                                    | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Chatham Strait. | Yasha Id.                                                                                                                                         | s.b.                            | 3 $\frac{1}{4}$     |
|                 | Pt. Gardner Lt.                                                                                                                                   | s.b.                            | 2                   |
|                 | Warm Spring Bay Lt.                                                                                                                               | p.b.                            | 2 $\frac{3}{4}$ +   |
|                 | Pt. Wilson                                                                                                                                        | s.b.                            | 2                   |
|                 | Pt. Caution                                                                                                                                       | s.b.                            | 2 $\frac{5}{8}$     |
|                 | Pt. Lull                                                                                                                                          | p.b.                            | 2 $\frac{3}{4}$     |
|                 | <b>Pt. Thatcher.</b><br>Due allowance must be made for tide while crossing entrance to Peril Strait.<br>If bound for Sitka, continue on page 294. | p.b.                            | 2 $\frac{3}{4}$ +   |

| True Course | Mag. Course | Mag. in Points     | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|--------------------|-----------------------|-------------------------------|----------------------|
| N12W        | N42W        | NW $\frac{1}{4}$ N | 1.3                   | 62.3                          | 127.3                |
| N6W         | N37W        | NW $\frac{3}{4}$ N | 3.3                   | 65.6                          | 124.0                |
| “           | “           | “                  | 4.7                   | 70.3                          | 119.3                |
| “           | “           | “                  | 2.8                   | 73.1                          | 116.5                |
| “           | “           | “                  | 6.5                   | 79.6                          | 110.0                |
| “           | “           | “                  | 3.7                   | 83.3                          | 106.3                |
| “           | “           | “                  | 7.0                   | 90.3                          | 99.3                 |



|                 | Cape Decision to Cape Spencer. | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-----------------|--------------------------------|---------------------------------|---------------------|
| Chatham Strait. | Fairway Id., Old Lighthouse    | p.b.                            | $3\frac{7}{8}$      |
|                 | Morris Reef Gas and Bell Buoy  | p.b.                            | $1\frac{3}{4}$      |
|                 | Peninsular Pt.                 | p.b.                            | 2+                  |
|                 | Marble Bluffs                  | s.b.                            | $2\frac{3}{8}$      |
|                 | South Passage Pt. Lt.          | p.b.                            | 4                   |
|                 | North Passage Pt.              | p.b.                            | $3\frac{1}{2}$      |
|                 | False Bay Pt., North Pt.       | p.b.                            | $1\frac{1}{4}$      |

| True Course | Mag. Course | Mag. in Points     | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|--------------------|-----------------------|-------------------------------|----------------------|
| N6W         | N37W        | NW $\frac{3}{4}$ N | 1.8                   | 92.1                          | 97.5                 |
| "           | "           | "                  | 1.0                   | 93.1                          | 96.5                 |
| "           | "           | "                  | 2.7                   | 95.8                          | 93.8                 |
| "           | "           | "                  | 13.0                  | 108.8                         | 80.8                 |
| "           | "           | "                  | 2.7                   | 111.5                         | 78.1                 |
| N11W        | N42W        | NW $\frac{1}{4}$ N | 5.2                   | 116.7                         | 72.9                 |
| "           | "           | "                  | 7.7                   | 124.4                         | 65.2                 |

|                 | Cape Decision to Cape Spencer.                                                                                                                     | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Chatham Strait. | <b>Pt. Augusta Lt.</b><br>If bound up Lynn Canal, continue on page 288.                                                                            | p.b.                            | 1 $\frac{3}{4}$ —   |
|                 | <b>Pt. Augusta Lt., 2nd time</b>                                                                                                                   | p.b.                            | 1 $\frac{1}{8}$ +   |
|                 | <b>Hanus Reef Buoy</b><br>Buoy is placed about 100 yards NNE'ly mag. from<br>highest part of reef, which is bare at half tide.                     | s.b.                            | 3+                  |
| Icy Strait.     | <b>Inlet Pt.</b><br>The shore is foul to the westward; foul to $\frac{1}{4}$ mile off<br>at a point about 1 $\frac{1}{4}$ to westward of Inlet Pt. | p.b.                            | 1                   |
|                 | <b>Rocky Id. Lt.</b>                                                                                                                               | s.b.                            | 4 $\frac{3}{4}$     |
|                 | <b>Spasskaia Id.</b>                                                                                                                               | p.b.                            | 1 $\frac{1}{8}$     |
|                 | <b>The Sisters, South end</b>                                                                                                                      | s.b.                            | $\frac{7}{8}$       |

| True Course | Mag. Course | Mag. in Points    | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------|-----------------------|-------------------------------|----------------------|
| N60W        | S89W        | W $\frac{1}{8}$ S | 3.8                   | 128.2                         | 61.4                 |
| "           | "           | "                 | 1.2                   | 129.4                         | 60.2                 |
| "           | "           | "                 | 4.1                   | 133.5                         | 56.1                 |
| "           | "           | "                 | 1.0                   | 134.5                         | 55.1                 |
| "           | "           | "                 | 2.1                   | 136.6                         | 53.0                 |
| "           | "           | "                 | 4.5                   | 141.1                         | 48.5                 |
| "           | "           | "                 | 0.5                   | 141.6                         | 48.0                 |



|                   | Cape Decision to Cape Spencer. | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-------------------|--------------------------------|---------------------------------|---------------------|
| Icy Strait.       | Sisters Ledge                  | s.b.                            | $\frac{7}{8}$       |
|                   | Hooniah Id., West Pt.          | p.b.                            | $1\frac{3}{4}$ —    |
|                   | Eagle Pt.                      | p.b.                            | $1\frac{3}{4}$      |
|                   | Pt. Adolphus                   | p.b.                            | 1                   |
| North Passage.    | Lemesurier Id. Lt.             | p.b.                            | $\frac{3}{4}$       |
|                   | Dundas Hd.                     | s.b.                            | $\frac{7}{8}$       |
| North Inian Pass. | North Inian Pass Lt.           | p.b.                            | $\frac{5}{8}$       |

| True Course | Mag. Course | Mag. in Points           | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|--------------------------|-----------------------|-------------------------------|----------------------|
| N60W        | S89W        | $W\frac{1}{8}S$          | 1.6                   | 143.2                         | 46.4                 |
| “           | “           | “                        | 6.1                   | 149.3                         | 40.3                 |
| “           | “           | “                        | 5.3                   | 154.6                         | 35.0                 |
| N78W        | S71W        | $W \times S\frac{5}{8}S$ | 5.6                   | 160.2                         | 29.4                 |
| S76W        | S45W        | SW                       | 8.6                   | 168.8                         | 20.8                 |
| “           | “           | “                        | 7.6                   | 176.4                         | 13.2                 |
| S46W        | S16W        | $S \times W\frac{3}{8}W$ | 4.6                   | 181.0                         | 8.6                  |

|                                                                       | Cape Decision to Cape Spencer.                                                                                                                                                                                                                | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Cross Sound.                                                          | Flat Id.                                                                                                                                                                                                                                      | s.b.                            | 1—                  |
|                                                                       | <b>Cape Spencer Lt.</b><br>For Yakutat, continue on page 100. For Cape St. Elias 4 miles off, round Cape Spencer at a distance off $1\frac{1}{2}$ miles to the light bears N20E true, then steer N69W true, or S81W mag. for about 265 miles. | s.b.                            | $1\frac{1}{2}$      |
| <b>Pt. Augusta Lt. to Pt. Sherman Lt.</b><br>Continued from page 284. |                                                                                                                                                                                                                                               |                                 |                     |
| Chatham Strait.                                                       | Pt. Augusta Lt.                                                                                                                                                                                                                               | p.b.                            | $1\frac{3}{4}$ —    |
|                                                                       | Hawk Inlet Entrance Lt.                                                                                                                                                                                                                       | s.b.                            | $4\frac{1}{4}$      |
|                                                                       | <b>Hanus Reef Buoy</b><br>Buoy is 100 yards NNE'y mag. from the highest part of reef, which is bare at half tide.                                                                                                                             | p.b.                            | 2—                  |
|                                                                       | Rocky Id. Lt.                                                                                                                                                                                                                                 | p.b.                            | $3\frac{1}{4}$      |

| True Course | Mag. Course | Mag. in Points               | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|------------------------------|-----------------------|-------------------------------|----------------------|
| S46W        | S16W        | S $\times$ W $\frac{3}{8}$ W | 6.8                   | 187.8                         | 1.8                  |
| N56W        | N86W        | W $\frac{3}{8}$ N            | 1.8                   | 189.6                         | 0.0                  |
|             |             |                              |                       |                               |                      |
| N11W        | N43W        | NW $\frac{1}{4}$ N           | 0.0                   | 0.0                           | 49.6                 |
| “           | “           | “                            | 2.1                   | 2.1                           | 47.5                 |
| “           | “           | “                            | 3.8                   | 5.9                           | 43.7                 |
| “           | “           | “                            | 3.1                   | 9.0                           | 40.6                 |



|             | Pt. Augusta Lt. to Pt. Sherman Lt.           | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-------------|----------------------------------------------|---------------------------------|---------------------|
|             | Couverden Rk. Lt.                            | p.b.                            | 2+                  |
|             | Station Id.                                  | s.b.                            | 1 $\frac{3}{8}$     |
|             | Clear Pt. Lt.<br>Funter Bay, good anchorage. | s.b.                            | 1 $\frac{3}{4}$ —   |
| Lynn Canal. | Naked Id. Lt.                                | s.b.                            | 1                   |
|             | False Retreat Bn.                            | s.b.                            | 1 $\frac{1}{2}$ +   |
|             | Pt. Retreat Lt.                              | s.b.                            | 2 $\frac{1}{2}$     |
|             | Hump Id., North end                          | s.b.                            | 1 $\frac{7}{8}$     |

| True Course | Mag. Course | Mag. in Points     | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|--------------------|-----------------------|-------------------------------|----------------------|
| N11W        | N43W        | NW $\frac{1}{4}$ N | 2.0                   | 11.0                          | 38.6                 |
| "           | "           | "                  | 0.2                   | 11.2                          | 38.4                 |
| "           | "           | "                  | 0.8                   | 12.0                          | 37.6                 |
| "           | "           | "                  | 0.9                   | 12.9                          | 36.7                 |
| "           | "           | "                  | 6.8                   | 19.7                          | 29.9                 |
| "           | "           | "                  | 2.3                   | 22.0                          | 27.6                 |
| "           | "           | "                  | 3.4                   | 25.4                          | 24.2                 |

|             | Pt. Augusta Lt. to Pt. Sherman Lt.                                                                                       | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Lynn Canal. | Little Id. Lt.                                                                                                           | s.b.                            | 1 $\frac{1}{8}$     |
|             | { Pt. Widbey                                                                                                             | p.b.                            | 1 $\frac{1}{4}$ —   |
|             | { Vanderbilt Reef Buoy                                                                                                   | s.b.                            | 2 $\frac{1}{2}$     |
|             | Bay Pt.<br>North side of small bay.                                                                                      | p.b.                            | 7 $\frac{7}{8}$ —   |
|             | William Henry Bay, South Pt.<br>Good anchorage in 14 fms. water, off the second<br>waterfall on starboard beam entering. | p.b.                            | 2 $\frac{1}{2}$     |
|             | Endicott Ri. Flat<br>Outer edge of flat. Covered at $\frac{3}{4}$ flood.                                                 | p.b.                            | 2                   |
|             | { Pt. Sherman Lt.                                                                                                        | s.b.                            | 1 $\frac{1}{2}$     |
|             | { Sherman Rk. Buoy                                                                                                       | s.b.                            | 1                   |
|             | Pt. Sherman Lt., 2nd time<br>Continued on page 184.                                                                      | s.b.                            | 1 $\frac{1}{2}$     |

| True Course | Mag. Course | Mag. in Points     | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|--------------------|-----------------------|-------------------------------|----------------------|
| N11W        | N43W        | NW $\frac{1}{4}$ N | 4.9                   | 30.3                          | 19.3                 |
| “           | “           | “                  | 2.7                   | 33.0                          | 16.6                 |
| “           | “           | “                  | 2.3                   | 35.3                          | 14.3                 |
| “           | “           | “                  | 6.5                   | 41.8                          | 7.8                  |
| “           | “           | “                  | 4.0                   | 45.8                          | 3.8                  |
| N2W         | N34W        | NW $\times$ N      | 3.6                   | 49.4                          | 0.2                  |
| “           | “           | “                  | 0.2                   | 49.6                          | 0.0                  |



|                 | Pt. Thatcher to Sitka.<br>Continued from page 280.                                                                                                                                | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Chatham Strait. | <b>Pt. Thatcher</b><br>Bearing S84W true, or SW $\frac{1}{4}$ W mag. Head on Pt.<br>Craven Lt.                                                                                    | p.b.                            | 2 $\frac{3}{4}$ +   |
|                 | <b>Pt. Thatcher, 2nd time</b><br>Foul to about $\frac{1}{4}$ mile off.                                                                                                            | p.b.                            | 1 $\frac{3}{4}$     |
|                 | <b>Morris Reef Gas and Bell Buoy</b><br>South end Midway Reef abm. to port, dist. 1 $\frac{1}{2}$<br>miles.                                                                       | s.b.                            | 1                   |
|                 | <b>North end Midway Reef</b><br>Bare at low water.                                                                                                                                | p.b.                            | $\frac{3}{4}$       |
|                 | <b>Pt. Craven Lt.</b>                                                                                                                                                             | s.b.                            | 5 $\frac{5}{8}$ +   |
| Peril Strait.   | <b>Fairway Id., Old Lighthouse</b><br>A local attraction has been observed along the north<br>shore up to McClellan Rk., increasing the varia-<br>tion about $\frac{1}{4}$ point. | p.b.                            | 1 $\frac{1}{2}$ +   |
|                 | <b>McClellan Rk. Lt.</b><br>Heading for the point north of small bay. North<br>end South Eva Id. astern.                                                                          | s.b.                            | $\frac{1}{2}$       |

| True Course | Mag. Course | Mag. in Points           | Dist. from Pt. to Pt. | Dist. from point of Departure | Dist. to Destination |
|-------------|-------------|--------------------------|-----------------------|-------------------------------|----------------------|
| N55W        | N86W        | $W\frac{3}{8}N$          | 0.0                   | 0.0                           | 66.6                 |
| "           | "           | "                        | 2.2                   | 2.2                           | 64.4                 |
| "           | "           | "                        | 0.9                   | 3.1                           | 63.5                 |
| S85W        | S54W        | $SW\frac{3}{4}W$         | 0.6                   | 3.7                           | 62.9                 |
| "           | "           | "                        | 0.8                   | 4.5                           | 62.1                 |
| "           | "           | "                        | 0.2                   | 4.7                           | 61.9                 |
| N73W        | S76W        | $W \times S\frac{1}{4}S$ | 5.0                   | 9.7                           | 56.9                 |

|               | Pt. Thatcher to Sitka.                                                                                                                                                         | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Peril Strait. | <b>False Lindenberg Hd.</b><br>Foul to about $\frac{1}{8}$ mile off. Heading on northeast end Broad Id.                                                                        | s.b.                            | $\frac{5}{8}$       |
|               | <b>Saook Pt.</b>                                                                                                                                                               | p.b.                            | $1\frac{1}{8}$      |
|               | <b>Neck Pt.</b>                                                                                                                                                                | s.b.                            | 1                   |
|               | <b>False Id., South end</b>                                                                                                                                                    | s.b.                            | $\frac{7}{8}+$      |
|               | <b>Peschani Pt.</b><br>A flat covered at $\frac{3}{4}$ flood, surrounds this point to nearly $\frac{1}{4}$ mile off.                                                           | p.b.                            | 1—                  |
|               | <b>Landslide</b><br>Slide is overgrown. A flat extends out to westward of here, to about $\frac{1}{4}$ mile.                                                                   | s.b.                            | $\frac{3}{4}$ —     |
|               | <b>Position</b><br>North end Broad Id. bearing $W\frac{1}{4}N$ mag., dist. $1\frac{1}{4}$ miles. Head on Krugloi Id. open between Otstoia Id. and Elovai Id. Landslide astern. |                                 |                     |



| True Course | Mag. Course | Mag. in Points     | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|--------------------|-----------------------|-------------------------------|----------------------|
| N50W        | N81W        | W $\frac{3}{4}$ N  | 2.4                   | 12.1                          | 54.5                 |
| “           | “           | “                  | 1.7                   | 13.8                          | 52.8                 |
| “           | “           | “                  | 3.3                   | 17.1                          | 49.5                 |
| “           | “           | “                  | 0.7                   | 17.8                          | 48.8                 |
| “           | “           | “                  | 3.1                   | 20.9                          | 45.7                 |
| “           | “           | “                  | 1.6                   | 22.5                          | 44.1                 |
| S80W        | S49W        | SW $\frac{3}{8}$ W | 0.6                   | 23.1                          | 43.5                 |



|               | Pt. Thatcher to Sitka.                                                                                                                                                                     | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Peril Strait. | Broad Id., Center                                                                                                                                                                          | s.b.                            | $\frac{7}{8}+$      |
|               | Nismeni Pt. Reef<br>Bare at low water.                                                                                                                                                     | p.b.                            | $\frac{3}{8}-$      |
|               | Nismeni Pt.                                                                                                                                                                                | p.b.                            | $\frac{1}{4}+$      |
|               | Cozian Reef Buoy                                                                                                                                                                           | s.b.                            | $\frac{1}{16}$      |
|               | { Otstoia Id. Lt.                                                                                                                                                                          | s.b.                            | $\frac{1}{16}+$     |
|               | { Otstoia Id. Buoy<br>Favorite anchorage in Deadman Reach, about 1½<br>miles SW ward from Otstoia Id., 17 fms. water.                                                                      | p.b.                            | close               |
|               | Hoggatt Reefs, S'ly Rk.<br>A local attraction has been observed on the course<br>from Otstoia Id. to Povorotni Id., increasing the<br>variation from $\frac{1}{4}$ to $\frac{1}{2}$ point. | s.b.                            | $\frac{1}{2}+$      |
|               | Povorotni Id., North end<br>Passing $\frac{1}{8}$ mile of a 2 fms. spot, off end of island. There<br>is anchorage eastward of here in 22 fms. water,<br>sandy bottom.                      | p.b.                            | $\frac{1}{4}$       |

| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| S80W        | S49W        | SW $\frac{3}{8}$ W            | 0.9                   | 24.0                          | 42.6                 |
| "           | "           | "                             | 0.5                   | 24.5                          | 42.1                 |
| "           | "           | "                             | 0.4                   | 24.9                          | 41.7                 |
| S60W        | S29W        | SW $\times$ S $\frac{3}{8}$ S | 0.4                   | 25.3                          | 41.3                 |
| S55W        | S24W        | SW $\times$ S $\frac{7}{8}$ S | 0.8                   | 26.1                          | 40.5                 |
| "           | "           | "                             | 2.2                   | 28.3                          | 38.3                 |
| S24E        | S55E        | SE $\frac{7}{8}$ E            | 2.3                   | 30.6                          | 36.0                 |

|                | Pt. Thatcher to Sitka.                                                                                                                                                  | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Peril Strait.  | <b>North end Povorotni Id., 2nd time</b><br>Passing $\frac{1}{8}$ mile of $\frac{3}{4}$ fms. spot, which lies south of island, off gap between Pogibshi Pt. and island. | p.b.                            | $\frac{1}{4}$       |
|                | <b>Flat Pt.</b><br>A flat, bare at low water, fills the bight north of this point.                                                                                      | s.b.                            | $\frac{1}{4}$       |
|                | <b>Pt. on West shore</b><br>Head on center of Big Rose Id. Point on east shore astern.                                                                                  | s.b.                            | $\frac{1}{4}$       |
|                | <b>Nixon Shoal</b><br>Passing a $\frac{1}{4}$ +mile off shore; flat extends out about $\frac{1}{8}$ mile and is bare at low water. Put point on west shore astern.      | p.b.                            | $\frac{1}{4}$ —     |
|                | <b>NE end Big Rose Id.</b>                                                                                                                                              | s.b.                            | $\frac{1}{16}$ +    |
| Adams Channel. | <b>Rose Id. Rk. Buoy</b><br>Black Can No. 5. Head on south end Arthur Id.                                                                                               | s.b.                            | $\frac{1}{16}$ +    |
|                | <b>Yellow Pt. Rk. Bn.</b><br>Rapids Pt. abm. to starboard, dist. $\frac{1}{8}$ mile.                                                                                    | p.b.                            | $\frac{1}{8}$       |



| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| S24E        | S55E        | SE $\frac{7}{8}$ E            | 0.3                   | 30.9                          | 35.7                 |
| S16E        | S47E        | SE $\frac{1}{4}$ E            | 1.1                   | 32.0                          | 34.6                 |
| S1W         | S30E        | SE $\times$ S $\frac{3}{8}$ S | 1.0                   | 33.0                          | 33.6                 |
| S16E        | S47E        | SE $\frac{1}{4}$ E            | 0.7                   | 33.7                          | 32.9                 |
| S10W        | S21E        | S $\times$ E $\frac{7}{8}$ E  | 0.7                   | 34.4                          | 32.2                 |
| S78W        | S47W        | SW $\frac{1}{4}$ W            | 0.3                   | 34.7                          | 31.9                 |
| “           | “           | “                             | 0.5                   | 35.2                          | 31.4                 |



|               | Pt. Thatcher to Sitka.                                                                                                                                                 | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles             |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------------------|
| Peril Strait. | <b>Yellow Pt.</b><br>SE end of Big Id. little in over bow. Rapids<br>Pt. little in over stern.                                                                         | p.b.                            | $\frac{1}{8}$                   |
|               | <b>2<math>\frac{1}{4}</math> Fms. Ledge</b><br><b>South end Arthur Id.</b>                                                                                             | s.b.<br>s.b.                    | $\frac{1}{8}+$<br>$\frac{3}{8}$ |
|               | <b>Middle Pt. Rk. Bn.</b><br>Head on SW end Bear Id. East end Arthur<br>Id. astern.                                                                                    | p.b.                            | $\frac{1}{8}$                   |
|               | <b>Islet off SE end Big Id.</b><br>Head on Pinta Hd. Middle Pt. slightly in over<br>stern.                                                                             | s.b.                            | $\frac{3}{16}$                  |
|               | <b>Little Id.</b><br>Passing $\frac{1}{8}$ mile off outer rock. Deep Bay, NW<br>of Little Id. has anchorage for large vessels, in 10<br>to 12 fms. water, soft bottom. | s.b.                            | $\frac{1}{4}$                   |
|               | <b>Islet off Pt. Siroi</b><br>Anchorage for small vessels in Bear Bay, NE<br>of Pt. Siroi, in 14 to 16 fms. water, soft bottom.                                        | p.b.                            | $\frac{1}{4}-$                  |
|               | <b>Midway Rk.</b>                                                                                                                                                      | s.b.                            | $\frac{1}{8}$                   |

| True Course | Mag. Course | Mag. in Points    | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------|-----------------------|-------------------------------|----------------------|
| S40W        | S9W         | S $\frac{3}{4}$ W | 0.3                   | 35.5                          | 31.1                 |
| "           | "           | "                 | 0.5                   | 36.0                          | 30.6                 |
| S2E         | S33E        | SE $\times$ S     | 0.3                   | 36.3                          | 30.3                 |
| S38W        | S7W         | S $\frac{5}{8}$ W | 0.5                   | 36.8                          | 29.8                 |
| "           | "           | "                 | 0.6                   | 37.4                          | 29.2                 |
| "           | "           | "                 | 0.3                   | 37.7                          | 28.9                 |
| "           | "           | "                 | 0.5                   | 38.2                          | 28.4                 |

|                  | Pt. Thatcher to Sitka.                                                                                            | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|------------------|-------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
|                  | Liesnoi Shoal Buoy                                                                                                | s.b.                            | $\frac{1}{16}$      |
|                  | Mountain Hd.<br>Keep Sergius Pt. and Pt. Sinbad in line.                                                          | p.b.                            | $\frac{1}{8}$       |
|                  | Shoal Pt.                                                                                                         | s.b.                            | $\frac{1}{16} +$    |
| Peril Strait.    | Position                                                                                                          |                                 |                     |
| Sergius Narrows. | Prolewy Rk.<br>The edge of Wyanda Ledge is abm. to port, dist.<br>off 60 yards. Passing 65 yards off north shore. | p.b.                            | $\frac{1}{8}$       |
|                  | Sergius Pt. Bn.                                                                                                   | s.b.                            | $\frac{1}{16} —$    |
|                  | West Francis Rk. Buoy                                                                                             | p.b.                            | $\frac{1}{16} —$    |



| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| S38W        | S7W         | S $\frac{5}{8}$ W             | 0.2                   | 38.4                          | 28.2                 |
| S79W        | S48W        | SW $\frac{1}{4}$ W            | 0.1                   | 38.5                          | 28.1                 |
| "           | "           | "                             | 0.4                   | 38.9                          | 27.7                 |
| S67W        | S36W        | SW $\frac{3}{4}$ S            | 0.1                   | 39.0                          | 27.6                 |
| "           | "           | "                             | 0.2                   | 39.2                          | 27.4                 |
| "           | "           | "                             | 0.1                   | 39.3                          | 27.3                 |
| S7W         | S24E        | SE $\times$ S $\frac{7}{8}$ S | 0.2                   | 39.5                          | 27.1                 |



|                | Pt. Thatcher to Sitka.                                                                                                                      | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
|                | <b>Little Rapids Id.</b><br>Passing $\frac{1}{16}$ +mile off East Francis Rk., with 8 feet<br>water over it.                                | p.b.                            | $\frac{1}{4}$       |
|                | <b>Suloia Pt.</b><br>Head on west Pt. of Louise Cove. Fish Pt. astern.<br>Anchorage in Schulze Cove in 14 to 16 fms. water,<br>soft bottom. | s.b.                            | $\frac{1}{4}$       |
|                | <b>Range Pt., North Rk.</b><br>Put Schulze Hd. astern.                                                                                      | p.b.                            | $\frac{1}{4}$ —     |
| Peril Strait.  | <b>Channel Rks.</b><br>Head on islet west of Scraggy Pt.                                                                                    | p.b.                            | $\frac{1}{16}$ +    |
|                | <b>Brad Rk. Buoy</b>                                                                                                                        | s.b.                            | $\frac{1}{16}$ —    |
| Kakul Narrows. | <b>Round Id.</b>                                                                                                                            | s.b.                            | $\frac{1}{2}$ —     |
|                | <b>Kakul Rk. Buoy</b>                                                                                                                       | p.b.                            | $\frac{1}{8}$ —     |

| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| S7W         | S24E        | SE $\times$ S $\frac{7}{8}$ S | 0.2                   | 39.7                          | 26.9                 |
| S57W        | S26W        | SW $\times$ S $\frac{5}{8}$ S | 1.0                   | 40.7                          | 25.9                 |
| S76W        | S45W        | SW                            | 0.7                   | 41.4                          | 25.2                 |
| S34W        | S3W         | S $\frac{1}{4}$ W             | 0.8                   | 42.2                          | 24.4                 |
| “           | “           | “                             | 0.2                   | 42.4                          | 24.2                 |
| “           | “           | “                             | 0.7                   | 43.1                          | 23.5                 |
| “           | “           | “                             | 0.1                   | 43.2                          | 23.4                 |

|                  | Pt. Thatcher to Sitka.                                                                                                                                                           | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Salisbury Sound. | <b>Position</b><br>When round on course Pt. Kakul is abm. about in line with buoy, distance off buoy $\frac{3}{16}$ mile. Head in center of Kane Ids. West end Round Id. astern. |                                 |                     |
|                  | Scraggy Id., North end                                                                                                                                                           | s.b.                            | $\frac{1}{2}+$      |
|                  | <b>Pt. on NE shore</b><br>Head on a point on the NE shore of strait. North Goloi Id. astern.                                                                                     | p.b.                            | $\frac{1}{4}-$      |
|                  | <b>East end Kane Ids.</b><br>Head on a point on the south shore of strait.                                                                                                       | s.b.                            | $\frac{3}{16}-$     |
| Neva Strait.     | <b>Pt. on NE shore</b><br>Head on islet in San John Baptist Bay. West end Kane Ids. astern.                                                                                      | p.b.                            | $\frac{3}{16}-$     |
|                  | Gilmer Cove Pt.                                                                                                                                                                  | s.b.                            | $\frac{1}{4}+$      |
|                  | Pt. on South shore                                                                                                                                                               | s.b.                            | $\frac{3}{16}-$     |



| True Course | Mag. Course | Mag. in Points         | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|------------------------|-----------------------|-------------------------------|----------------------|
| S31E        | S62E        | SE × E $\frac{1}{2}$ E | 0.2                   | 43.4                          | 23.2                 |
| “           | “           | “                      | 0.9                   | 44.3                          | 22.3                 |
| S49E        | S80E        | E $\frac{7}{8}$ S      | 0.9                   | 45.2                          | 21.4                 |
| S39E        | S70E        | E × S $\frac{3}{4}$ S  | 0.8                   | 46.0                          | 20.6                 |
| S55E        | S86E        | E $\frac{3}{8}$ S      | 1.1                   | 47.1                          | 19.5                 |
| “           | “           | “                      | 0.3                   | 47.4                          | 19.2                 |
| S31E        | S62E        | SE × E $\frac{1}{2}$ E | 0.3                   | 47.7                          | 18.9                 |



| Pt. Thatcher to Sitka.                                                                                                                                                          | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| <b>Entrance Id.</b><br>Passing $\frac{1}{16}$ mile off a $2\frac{1}{2}$ fms. patch, which is nearly abm. to starboard.                                                          | p.b.                            | $\frac{1}{16} +$    |
| <b>Rk. off NE shore</b><br>Rock lies about 100 yards from northeast shore, covered at $\frac{3}{4}$ flood, showing kelp. A shoal extends out 150 yards from the opposite shore. | p.b.                            | $\frac{1}{16} +$    |
| { <b>Highwater Id. Shoal Buoy</b><br><b>North end Highwater Id.</b><br>The channel is about 175 yards wide. Pass in mid-channel.                                                | s.b.<br>p.b.                    | close<br>close      |
| <b>South end Highwater Id.</b>                                                                                                                                                  | p.b.                            | $\frac{1}{16} —$    |
| <b>Bare Rk. off NE shore</b>                                                                                                                                                    | p.b.                            | $\frac{1}{16}$      |
| <b>Manzanita Shoal Buoy</b><br>Red Nun No. 4. Marking SW'ly end of Wyvill Reef. Head on Whitestone Pt.                                                                          | p.b.                            | close               |
| <b>Bare Rk. off NE shore</b>                                                                                                                                                    | p.b.                            | $\frac{1}{16} +$    |

| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| S11E        | S42E        | SE $\frac{1}{4}$ S            | 0.9                   | 48.6                          | 18.0                 |
| S29E        | S60E        | SE $\times$ E $\frac{3}{8}$ E | 0.3                   | 48.9                          | 17.7                 |
| “           | “           | “                             | 0.4                   | 49.3                          | 17.3                 |
| S39E        | S70E        | E $\times$ S $\frac{3}{4}$ S  | 0.1                   | 49.4                          | 17.2                 |
| S15E        | S46E        | SE $\frac{1}{8}$ E            | 0.4                   | 49.8                          | 16.8                 |
| S32E        | S63E        | SE $\times$ E $\frac{5}{8}$ E | 0.2                   | 50.0                          | 16.6                 |
| “           | “           | “                             | 0.4                   | 50.4                          | 16.2                 |

## Pt. Thatcher to Sitka.

Port  
or  
Starboard  
BeamDist. off.  
MilesColumbine Rk. Bn.  
Spindle.

s.b.

 $\frac{1}{16}$ 

Whitestone Sandspit Buoy

Red Spar No. 2. Passing about 60 yards off. For  
East Channel, see page 320.

p.b.

close

West Channel Buoy No. 5

Black Spar. Passing West Channel Buoy Red Nun  
No. 2 close to port. The channel is about 100 feet  
wide, least depth at low water,  $3\frac{3}{4}$  fms.

s.b.

close

Whitestone Narrows Buoy No. 3

Black Spar.

s.b.

close

Whitestone Rk. Buoy No. 1

Black Can. Go close to this buoy, a  $2\frac{1}{4}$  fms. patch lies  
off the east shore, slightly northward from the buoy.

s.b.

close

Neva Pt. Reef Bn.

Spindle. Head on Halleck Pt.

p.b.

 $\frac{1}{8}$ 

Olga Pt.

s.b.

 $\frac{1}{8}$ Neva Strait.  
Whitestone Narrows, West Channel.Nakwasina  
Passage.



| True Course | Mag. Course | Mag. in Points                | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-------------------------------|-----------------------|-------------------------------|----------------------|
| S32E        | S63E        | SE $\times$ E $\frac{5}{8}$ E | 0.2                   | 50.6                          | 16.0                 |
| S25E        | S56E        | SE $\times$ E                 | 0.9                   | 51.5                          | 15.1                 |
| — “         | “           | “                             | 0.2                   | 51.7                          | 14.9                 |
| S12E        | S43E        | SE $\frac{1}{4}$ S            | 0.1                   | 51.8                          | 14.8                 |
| S27E        | S58E        | SE $\times$ E $\frac{1}{8}$ E | 0.3                   | 52.1                          | 14.5                 |
| S81E        | N68E        | ENE                           | 0.6                   | 52.7                          | 13.9                 |
| “           | “           | “                             | 0.6                   | 53.3                          | 13.3                 |



|                    | Pt. Thatcher to Sitka.                                                                                                                                        | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Olga Strait.       | Position                                                                                                                                                      |                                 |                     |
|                    | Creek Pt.                                                                                                                                                     | p.b.                            | $\frac{1}{16}$      |
|                    | Middle Shoal Buoy<br>Nun with red and black horizontal stripes. Head on southwest end Lisianski Peninsula. The creek east of Creek Pt. astern.                | s.b.                            | $\frac{1}{16}$ —    |
|                    | Pt. on NE shore<br>Passing about $\frac{1}{16}$ mile of a $2\frac{3}{4}$ fms. patch, which is nearly abm. to starboard. Heading into the bay south of Dog Pt. | p.b.                            | $\frac{1}{16}$ +    |
|                    | Eastern Pt.<br>Passing $\frac{1}{8}$ mile off two sunken rocks, which lies of the point. Passing Beehive Id. to port.                                         | s.b.                            | $\frac{3}{16}$      |
| Nakwasina Passage. | Dog Pt.                                                                                                                                                       | p.b.                            | $\frac{3}{8}$       |
| Sitka Sound.       | East Siginaka Id.                                                                                                                                             | s.b.                            | $\frac{3}{16}$      |

| True Course | Mag. Course | Mag. in Points              | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|-----------------------------|-----------------------|-------------------------------|----------------------|
| S41E        | S72E        | $E \times S \frac{5}{8} S$  | 0.2                   | 53.5                          | 13.1                 |
| S50E        | S81E        | $E \frac{3}{4} S$           | 1.2                   | 54.7                          | 11.9                 |
| S37E        | S68E        | ESE                         | 0.6                   | 55.3                          | 11.3                 |
| S45E        | S76E        | $E \times S \frac{1}{4} S$  | 1.6                   | 56.9                          | 9.7                  |
| S27E        | S58E        | $SE \times E \frac{1}{8} E$ | 0.8                   | 57.7                          | 8.9                  |
| "           | "           | "                           | 0.8                   | 58.5                          | 8.1                  |
| "           | "           | "                           | 0.3                   | 58.8                          | 7.8                  |

|              | Pt. Thatcher to Sitka.                                                                                                                                                           | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles                          |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------------------------------|
| Sitka Sound. | <b>Big Gavanski, NE end</b><br>Head on West Kasiana Id.                                                                                                                          | s.b.                            | $\frac{3}{16}$                               |
|              | <b>Old Sitka Rks. Bn.</b><br>Outer Rk. cover at highest tides. Passing $\frac{1}{4}$ + mile<br>off large rock. Head on west side East Kasiana<br>Id. SE end Big Gavanski astern. | p.b.                            | $\frac{3}{16}$                               |
|              | <b>Islet South of Halibut Pt.</b><br>A rock awash lies about $\frac{1}{16}$ mile off islet.                                                                                      | p.b.                            | $\frac{1}{4}$ +                              |
|              | <b>East end Kasiana Id.</b>                                                                                                                                                      | s.b.                            | $\frac{1}{4}$ —                              |
|              | <b>Rk., bare at low water</b><br>Passing $\frac{3}{16}$ mile off a ledge off the point which is<br>abm. to port.                                                                 | s.b.                            | $\frac{3}{8}$ +                              |
|              | { <b>Rocky Spur</b><br><b>North end Battery Id.</b>                                                                                                                              | p.b.<br>s.b.                    | $\frac{1}{16}$ +<br>$\frac{1}{2}$            |
|              | { <b>Channel Rk. Gas Buoy</b><br><b>Channel Rk. Spar No. 1</b><br><b>Channel Rk. Bn.</b>                                                                                         | s.b.<br>p.b.<br>s.b.            | close<br>$\frac{1}{16}$ —<br>$\frac{1}{8}$ + |



| True<br>Course | Mag.<br>Course | Mag.<br>in Points             | Dist. from<br>Pt. to Pt. | Dist.<br>from<br>Point of<br>Departure | Dist. to<br>Destination |
|----------------|----------------|-------------------------------|--------------------------|----------------------------------------|-------------------------|
| S7W            | S24E           | SE $\times$ S $\frac{7}{8}$ S | 1.4                      | 60.2                                   | 6.4                     |
| S13E           | S44E           | SE $\frac{1}{8}$ S            | 1.6                      | 61.8                                   | 4.8                     |
| S35E           | S66E           | SE $\times$ E $\frac{7}{8}$ E | 1.1                      | 62.9                                   | 3.7                     |
| “              | “              | “                             | 0.9                      | 63.8                                   | 2.8                     |
| “              | “              | “                             | 0.6                      | 64.4                                   | 2.2                     |
| “              | “              | “                             | 0.8                      | 65.2                                   | 1.4                     |
| S49E           | S80E           | E $\frac{7}{8}$ S             | 0.2                      | 65.4                                   | 1.2                     |



|               | Pt. Thatcher to Sitka.                                                                                                                                       | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Sitka Harbor. | <b>North Channel Buoy</b><br>Black Can No. 3. About 125 yards to next buoy.                                                                                  | p.b.                            | close               |
|               | <b>Harbor Rk. Shoal Buoy</b><br>Red Nun No. 4. About 85 yards to beacon.                                                                                     | s.b.                            | close               |
|               | <b>Harbor Rk. Bn.</b><br>Passing about 50 yards off. About 85 yards to<br>Pyramid Packing Companys wharf.                                                    | s.b.                            | close               |
|               | <b>Pyramid Packing Co's. Wharf</b><br>About 20 feet of water at wharf. Head on east end<br>Harbor Id. Pt on north shore astern. About<br>160 yards to wharf. | p.b.                            | close               |
|               | <b>Government Wharf</b><br>About 250 yards from here to the sunken rock.                                                                                     | s.b.                            | $\frac{1}{16}$ —    |
|               | <b>Sunken Rk.</b><br>16 feet of water over it. Passing about 55 yards of it.<br>about 80 yards to Indian Rk.                                                 | p.b.                            | close               |
|               | <b>Indian Rk.</b><br>5 feet of water over it. Passing about 75 yards off<br>it. About 200 yards to the wharf.                                                | p.b.                            | close               |

| True Course | Mag. Course | Mag. in Points               | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|------------------------------|-----------------------|-------------------------------|----------------------|
| S75E        | N74E        | $E \times N^{\frac{3}{8}}N$  | 0.7                   | 66.1                          | 0.5                  |
| S34E        | S65E        | $SE \times E^{\frac{3}{4}}E$ | —                     | —                             | —                    |
| “           | “           | “                            | —                     | —                             | —                    |
| S17E        | S48E        | $SE^{\frac{1}{4}}E$          | —                     | —                             | —                    |
| S39E        | S70E        | $E \times S^{\frac{3}{4}}S$  | 0.2                   | 66.3                          | 0.3                  |
| “           | “           | “                            | —                     | —                             | —                    |
| “           | “           | “                            | 0.2                   | 66.5                          | 0.1                  |

|                                     | Pt. Thatcher to Sitka.                                                                                                                                                      | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
|                                     | <b>Sitka Wharf</b><br>About 40 yards off it. There is a sunken rock 500 yards southeastward from the wharf, about in line with it.                                          | p.b.                            | close               |
|                                     | <b>Whitestone Narrows.</b><br><b>East Channel.</b><br>Continued from page 312.                                                                                              |                                 |                     |
| Whitestone Narrows<br>East Channel. | <b>Whitestone Sandspit Buoy</b><br>Red Spar No. 2. Passing about 60 yards off.                                                                                              | p.b.                            | close               |
|                                     | <b>Whitestone Narrows Buoy No. 5</b><br>Black can. Passing West Channel Buoy Red Nun No. 2 to starboard, distance off about 70 yards.                                       | s.b.                            | close               |
|                                     | <b>Whitestone Narrows Buoy No. 3</b><br>Black Spar.                                                                                                                         | s.b.                            | close               |
|                                     | <b>Whitestone Rk. Buoy No. 1</b><br>Black can. Go close to this buoy to be well clear of a $2\frac{1}{4}$ fms. patch, which lies off the East shore. Continued on page 312. | s.b.                            | close               |



| True<br>Course | Mag.<br>Course | Mag.<br>in Points         | Dist. from<br>Pt. to Pt. | Dist.<br>from<br>Point of<br>Departure | Dist. to<br>Destination |
|----------------|----------------|---------------------------|--------------------------|----------------------------------------|-------------------------|
|                |                |                           | 0.1                      | 66.6                                   | 0.0                     |
|                |                |                           |                          |                                        |                         |
| S45E           | S76E           | $E \times S\frac{1}{4}S$  | 0.0                      | 0.0                                    | 0.6                     |
| S7W            | S24E           | $SE \times S\frac{7}{8}S$ | 0.2                      | 0.2                                    | 0.4                     |
| S12E           | S43E           | $SE\frac{1}{4}S$          | 0.1                      | 0.3                                    | 0.3                     |
| S27E           | S58E           | $SE \times E\frac{1}{8}E$ | 0.3                      | 0.6                                    | 0.0                     |



|  | Pt. Gore to Anchor Pt. Lt.<br>Around Cape Elizabeth.<br>Continued from page 140.        | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|--|-----------------------------------------------------------------------------------------|---------------------------------|---------------------|
|  | Pt. Gore                                                                                | s.b.                            | 3½                  |
|  | Gore Rk.<br>Sunken rock, 8 feet of water.                                               | s.b.                            | 3½                  |
|  | East Chugach Id. Lt.                                                                    | s.b.                            | 2½—                 |
|  | SE end Pearl Id.<br>Passing 2½ miles off the small Id. which lies south of<br>Pearl Id. | s.b.                            | 3⅛                  |
|  | West end Pearl Id.                                                                      | s.b.                            | 3¾—                 |
|  | Nagahut Rks.                                                                            | s.b.                            | 3½—                 |
|  | Dora Reef<br>This reef lies about 1¼ miles SWxS mag. from Nagahut<br>Rks.               | s.b.                            | 3                   |

| True<br>Course | Mag.<br>Course | Mag.<br>in Points             | Dist. from<br>Pt. to Pt. | Dist.<br>from<br>Point of<br>Departure | Dist. to<br>Destination |
|----------------|----------------|-------------------------------|--------------------------|----------------------------------------|-------------------------|
| S64W           | S38W           | SW $\frac{5}{8}$ S            | 0.0                      | 0.0                                    | 76.5                    |
| S82W           | S57W           | SW $\times$ W $\frac{1}{8}$ W | 8.5                      | 8.5                                    | 68.0                    |
| “              | “              | “                             | 8.5                      | 17.0                                   | 59.5                    |
| “              | “              | “                             | 6.2                      | 23.2                                   | 53.3                    |
| “              | “              | “                             | 2.4                      | 25.6                                   | 50.9                    |
| “              | “              | “                             | 1.4                      | 27.0                                   | 49.5                    |
| “              | “              | “                             | 1.1                      | 28.1                                   | 48.4                    |

|             | Pt. Gore to Anchor Pt. Lt.                                                                                                  | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Cook Inlet. | <b>Cape Elizabeth</b><br>Due allowance must be made for the tide on this course. Ebb sets to the eastward.                  | s.b.                            | $6\frac{3}{4}$      |
|             | <b>Dora Reef, 2nd time</b><br>Nagahut Rks. are nearly abm., distance $3\frac{1}{4}+$ miles.                                 | s.b.                            | $2\frac{1}{2}+$     |
|             | <b>Cape Elizabeth, 2nd time</b><br>A reef extends out from here about $\frac{1}{2}$ mile.                                   | s.b.                            | 2                   |
|             | <b>Yellow Bluff</b>                                                                                                         | s.b.                            | $2\frac{7}{8}$      |
|             | <b>Pt. Adam</b><br>Several rocks lies to about a $\frac{1}{4}$ mile off this point.<br>East Pt. of East Amatuli Id. astern. | s.b.                            | 2                   |
|             | <b>Magnet Rk.</b>                                                                                                           | s.b.                            | $1\frac{1}{2}$      |
|             | <b>Flat Id. Lt.</b>                                                                                                         | s.b.                            | 2                   |

| True Course | Mag. Course | Mag. in Points               | Dist. from Pt. to Pt. | Dist. from Point of Departure | Dist. to Destination |
|-------------|-------------|------------------------------|-----------------------|-------------------------------|----------------------|
| N25W        | N50W        | NW $\frac{1}{2}$ W           | 2.0                   | 30.1                          | 46.4                 |
| “           | “           | “                            | 2.3                   | 32.4                          | 44.1                 |
| “           | “           | “                            | 4.4                   | 36.8                          | 39.7                 |
| “           | “           | “                            | 5.0                   | 41.8                          | 34.7                 |
| N8W         | N33W        | NW $\times$ N                | 2.2                   | 44.0                          | 32.5                 |
| “           | “           | “                            | 3.6                   | 47.6                          | 28.9                 |
| N4E         | N20W        | N $\times$ W $\frac{3}{4}$ W | 1.3                   | 48.9                          | 27.6                 |



|             | Pt. Gore to Anchor Pt. Lt.                         | Port<br>or<br>Starboard<br>Beam | Dist. off.<br>Miles |
|-------------|----------------------------------------------------|---------------------------------|---------------------|
|             | Flat Id Lt., 2nd time                              | s.b.                            | 2                   |
|             | Port Graham Entrance Lt.                           | s.b.                            | 5 $\frac{1}{4}$     |
|             | Gray Cliff Lt.                                     | s.b.                            | 9 $\frac{7}{8}$     |
| Cook Inlet. | Anchor Pt. Lt.                                     | s.b.                            | 4                   |
|             | Anchor Pt. Lt., 2nd time<br>Continued on page 154. | s.b.                            | 4                   |

| True<br>Course | Mag.<br>Course | Mag.<br>in Points           | Dist. from<br>Pt. to Pt. | Dist.<br>from<br>Point of<br>Departure | Dist. to<br>Destination |
|----------------|----------------|-----------------------------|--------------------------|----------------------------------------|-------------------------|
| N4E            | N20W           | $N \times W^{\frac{3}{4}}W$ | 0.4                      | 49.3                                   | 27.2                    |
| “              | “              | “                           | 2.7                      | 52.0                                   | 24.5                    |
| “              | “              | “                           | 5.2                      | 57.2                                   | 19.3                    |
| N13E           | N13W           | $N \times W^{\frac{1}{8}}W$ | 18.7                     | 75.9                                   | 0.6                     |
| “              | “              | “                           | 0.6                      | 76.5                                   | 0.0                     |



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| 170 | 12.05.1940 (1940) 12.05.1940 | 12.05.1940 | 12.05.1940 |
|-----|------------------------------|------------|------------|
| 171 | 12.05.1940 (1940) 12.05.1940 | 12.05.1940 | 12.05.1940 |
| 172 | 12.05.1940 (1940) 12.05.1940 | 12.05.1940 | 12.05.1940 |
| 173 | 12.05.1940 (1940) 12.05.1940 | 12.05.1940 | 12.05.1940 |
| 174 | 12.05.1940 (1940) 12.05.1940 | 12.05.1940 | 12.05.1940 |
| 175 | 12.05.1940 (1940) 12.05.1940 | 12.05.1940 | 12.05.1940 |
| 176 | 12.05.1940 (1940) 12.05.1940 | 12.05.1940 | 12.05.1940 |
| 177 | 12.05.1940 (1940) 12.05.1940 | 12.05.1940 | 12.05.1940 |
| 178 | 12.05.1940 (1940) 12.05.1940 | 12.05.1940 | 12.05.1940 |

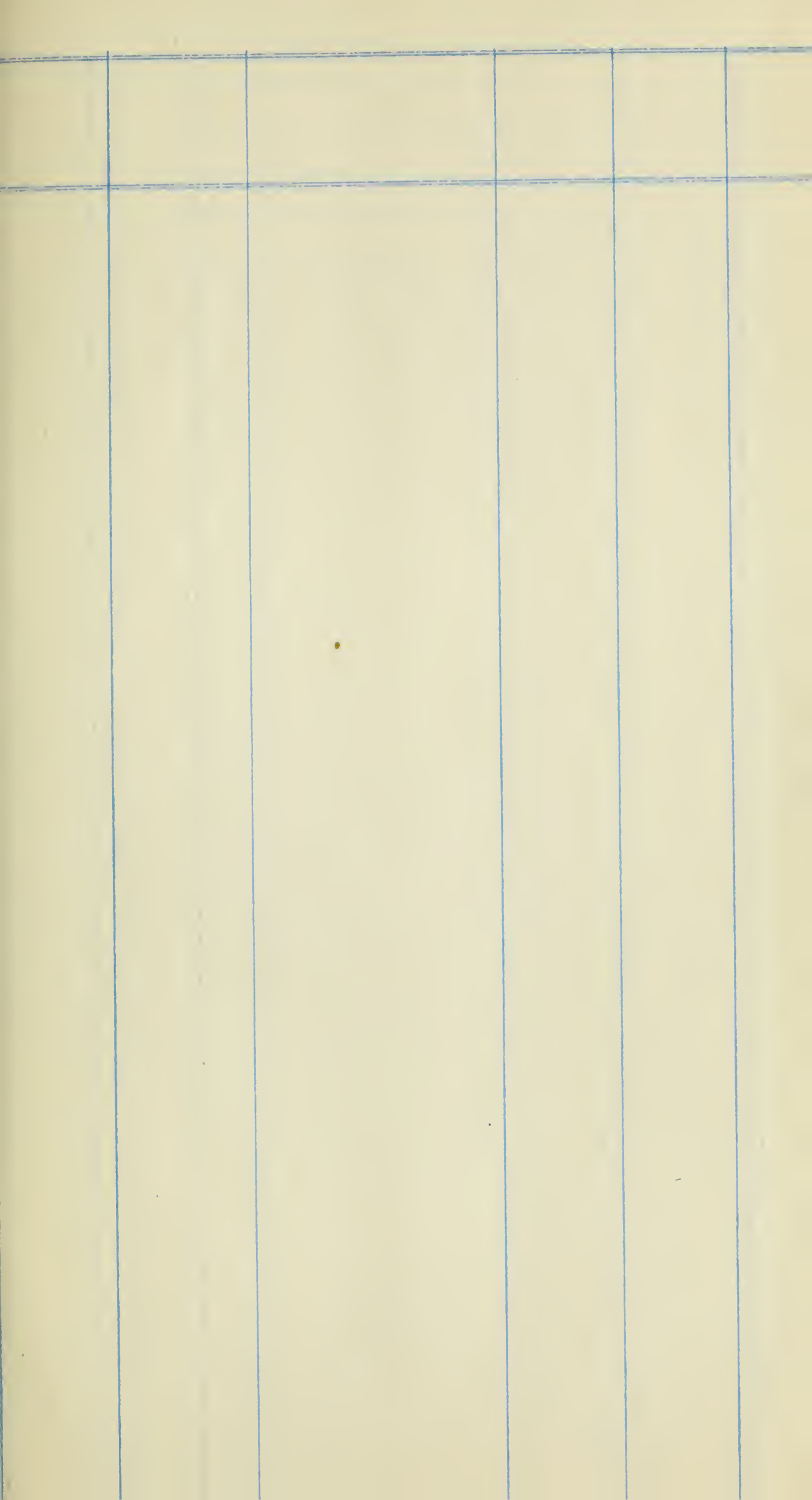
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