

4) Height Ratio (Worksheet 2)

- 4.1) Enter the times and heights of the tide at the reference station in columns 1 and 2 of Worksheet 2. If the first tide in the day is a low tide, start on the first row of the worksheet; if the first tide is a high tide, begin on the second row.
- 4.2) In the *Secondary Tide Stations* table, find the time difference for high water. Enter this difference in the HW rows of column 3 of worksheet 2.
- 4.3) Find the time difference for low water, following the same process as in 4.2, and enter the difference in the LW rows of column 3.
- 4.4) Find the height ratio for high water in the *Secondary Tide Stations* table and enter this ratio in the HW rows of column 4.
- 4.5) Find the height ratio for low water in the *Secondary Tide Stations* table and enter this ratio in the LW rows of column 4.
- 4.6) Add or (subtract) the time difference in column 3 to (or from) the time in column 1. Write your answer on the same row in column 5. Continue until all the rows are complete.
- 4.7) Multiply the height in column 2 by the height ratio in column 4. Write your answer on the same row in column 6. Continue until all the rows are complete.
- 5) Columns 5 and 6 are now the time and height of tide for the secondary station. Transfer this information to today's page in the Daily Record.

Secondary Tides Calculation (Height ratio) (US)

Reference Station:

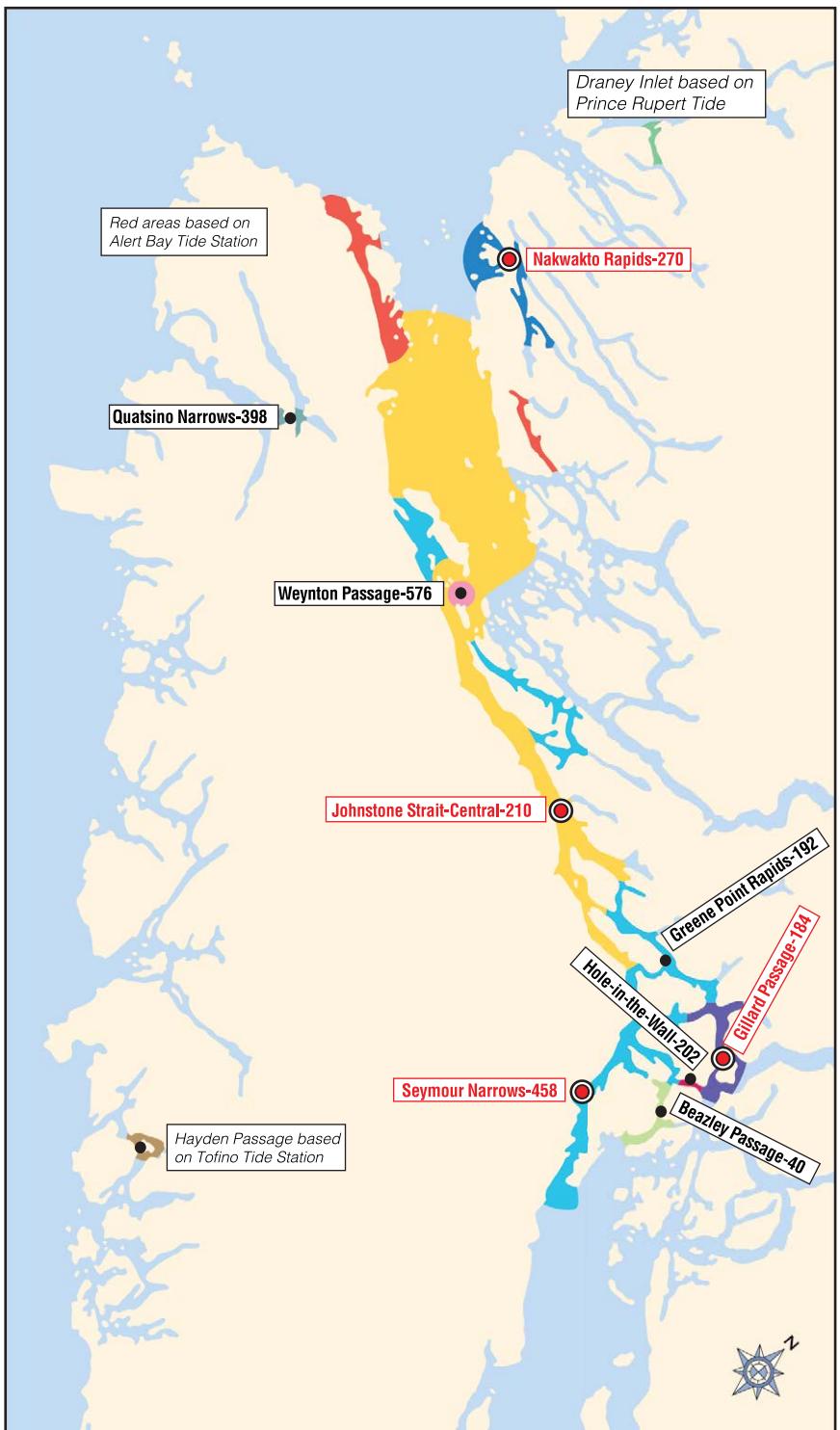
Date:

Secondary Station:

Worksheet 2

| | Reference Station | | Corrections | | Secondary Station | |
|----|--------------------------|--|---|------------------------------------|--------------------------|--|
| | Time <i>Column 1</i> | Height ft / metres <i>Column 2</i> | Time difference hr min <i>Column 3</i> | Height ratio <i>Column 4</i> | Time <i>Column 5</i> | Height ft / metres <i>Column 6</i> |
| LW | | | + - - | x | = | = |
| HW | | | + - - | x | = | = |
| LW | | | + - - | x | = | = |
| HW | | | + - - | x | = | = |
| LW | | | + - - | x | = | = |

OVERVIEW CHART 2 CURRENTS

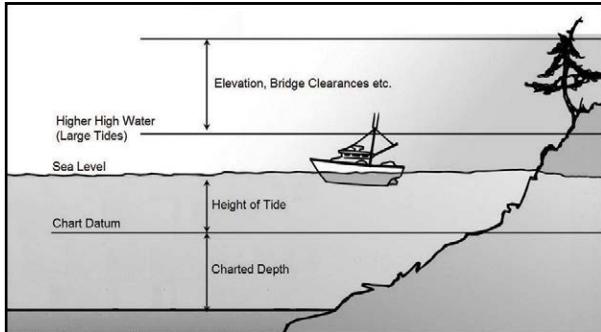


How to Read the Tables

Reading Tide Tables

H Since the level of the sea surface rises and falls on a regular basis, hydrographers have established a reference plane by which all tidal heights can be measured. This reference plane is the chart (or tidal) datum and is represented on charts as the zero tide level. Depths are measured below the chart datum; the height of tides and intertidal objects, such as rocks and shoals, are measured above it. More information on chart datum can be found on page xxvi.

T The height of tide is the vertical distance between the surface of the sea and chart datum. For example, at a place where the chart shows the depth to be 1m (3.3 ft.) and the predicted low water is 0.6m (2.1 ft.) above chart datum, the actual depth at Low Water would be 1.6m (5.4 ft.).



Reading Current Tables

T The shaded column (titled SLK) gives the time of slack current (the time the current turns from ebb to flood or vice versa). At this time, the speed of the current is minimal and there is usually no horizontal movement of surface water. The next column (MAX) displays the time at which the maximum flood or ebb can be expected. The F/E column gives the speed of the current in knots and is labelled either positive (flood) or negative (ebb). You will find the direction of flood in a text box on the map page of every current station.

| May | | | |
|------------|--------|------|-----|
| DAY | TIME | FT | M |
| 1 | 4:31a | 16.7 | 4.8 |
| | 11:52a | 1.6 | 0.5 |
| Sat | 6:20p | 12.8 | 3.9 |
| | 11:24p | 7.5 | 2.3 |

| June | | | |
|-------------|--------|-------|------|
| DAY | SLK | MAX | F/E |
| 1 | 5:41a | 1:47a | -4.0 |
| | 9:46a | 7:42a | +1.3 |
| Mon | 4:18p | 1:17p | -3.0 |
| | 11:22p | 7:54p | +4.2 |

Special Codes in Current Tables

T There are rare occasions (eg. North Inian Pass page 296) when the period of maximum current extends for up to two and a half hours. In those cases, **PORTS AND PASSES** assigns the time of maximum to the beginning of the period of strongest flow and identifies such an occasion with a black border.

| DAY | SLK | MAX | F/E |
|-----|--------|-------|------|
| 1 | 5:00p | 6:36p | +0.8 |
| Fri | 10:36p | | |

North Inian Pass

| DAY | SLK | MAX | F/E |
|-----|-------|--------|------|
| 8 | 4:06p | 10:36p | -2.2 |
| Wed | 3:30p | 6:12p | +0.8 |

Juan de Fuca West

Where the time is indicated by asterisks (**), this indicates that the time of slack (or minimum flow) is indeterminate.

Secondary Tide Stations

| Secondary Port | Position | | Time and Height Differences | | | | | | Range | | |
|---|---------------------------|-----------|-----------------------------|---|---------------|-----------|--------------|---------------|------------|-------------|------|
| | | | High Water | | | Low Water | | | | | |
| | Lat N | Long W | Time | Mean Tide | Large Tide | Time | Mean Tide | Large Tide | Mn Tide | Lrg Tide | |
| P O I N T A T K I N S O N | o / | o / | h min | feet | feet | h min | feet | feet | feet | feet | |
| | Sechelt Inlet | | | | | | | | | | |
| | Egmont | 49 45 | 123 56 | +0 03 | +0.7 | +0.7 | +0 01 | 0.0 | -0.3 | 11.2 | 17.1 |
| | Storm Bay | 49 40 | 123 50 | +2 38 | -6.2 | -6.6 | +2 01 | -2.3 | -0.7 | 6.6 | 10.2 |
| | Porpoise Bay | 49 29 | 123 46 | +2 49 | -6.2 | -6.9 | +1 58 | -2.0 | -0.3 | 6.6 | 8.9 |
| | Strait of Georgia East | | | | | | | | | | |
| | Blind Bay | 49 43 | 124 11 | +0 05 | +1.0 | +1.3 | +0 01 | +0.3 | +0.3 | 11.5 | 17.4 |
| | Saltery Bay | 49 47 | 124 11 | +0 02 | +1.0 | +1.0 | +0 04 | +0.3 | 0.0 | 11.2 | 17.1 |
| | Powell River | 49 52 | 124 33 | +0 04 | +1.0 | +1.3 | +0 08 | +0.3 | 0.0 | 11.5 | 17.4 |
| | Lund | 49 59 | 124 46 | +0 07 | +1.3 | +1.3 | +0 09 | +0.3 | 0.0 | 11.5 | 17.4 |
| | Twin Islands | 50 02 | 124 56 | +0 06 | +0.7 | +1.3 | +0 12 | 0.0 | -0.3 | 11.5 | 17.4 |
| | Mitenatch Island | 49 57 | 125 00 | +0 05 | +0.3 | +0.7 | +0 12 | 0.0 | 0.0 | 10.8 | 16.7 |
| | Strait of Georgia West | | | | | | | | | | |
| | Harmac | 49 08 | 123 51 | +0 04 | -0.3 | -0.3 | +0 04 | -0.3 | -0.3 | 10.8 | 16.1 |
| | Nanaimo | 49 10 | 123 56 | See pages 282-287 for daily predictions at Nanaimo | | | | | | | |
| | Nanoose Bay | 49 16 | 124 08 | +0 04 | +0.7 | +0.7 | +0 04 | +0.3 | 0.0 | 10.8 | 16.4 |
| | Winchelsea Islands | 49 18 | 124 05 | +0 05 | +0.3 | +0.3 | +0 04 | 0.0 | 0.0 | 10.8 | 16.4 |
| | Northwest Bay | 49 18 | 124 12 | +0 03 | +0.7 | +0.7 | +0 03 | +0.3 | +0.3 | 10.8 | 16.4 |
| | French Creek | 49 21 | 124 22 | +0 04 | +0.3 | +0.3 | +0 05 | -0.3 | -0.3 | 11.2 | 16.7 |
| | Little River | 49 44 | 124 55 | +0 04 | +0.7 | +1.0 | +0 07 | 0.0 | -0.3 | 11.2 | 17.1 |
| | Hornby Island | 49 30 | 124 41 | +0 12 | +0.7 | +0.7 | +0 16 | +0.3 | 0.0 | 10.8 | 16.7 |
| | Denman Island | 49 32 | 124 49 | +0 07 | +0.7 | +0.7 | +0 07 | 0.0 | +0.3 | 11.2 | 16.4 |
| | Comox | 49 40 | 124 56 | See pages 104-109 for daily predictions at Comox | | | | | | | |
| N | Lasqueti & Texada | | | | | | | | | | |
| | False Bay | 49 29 | 124 21 | +0 03 | +0.7 | +1.0 | +0 05 | 0.0 | -0.3 | 11.2 | 17.1 |
| | Skerry Bay | 49 30 | 124 14 | +0 11 | 0.0 | 0.0 | +0 09 | 0.0 | -0.3 | 10.5 | 16.4 |
| | Welcome Bay | 49 42 | 124 33 | +0 05 | +0.7 | +1.0 | +0 06 | -0.3 | 0.0 | 11.5 | 17.1 |
| | Blubber Bay | 49 48 | 124 37 | +0 09 | +1.0 | +1.0 | +0 10 | +0.3 | +0.3 | 11.2 | 16.7 |
| D | Desolation Sound | | | | | | | | | | |
| | Okeover Inlet | 49 59 | 124 42 | +0 13 | +1.6 | +1.6 | +0 20 | +0.7 | +0.3 | 11.5 | 17.7 |
| | Prideaux Haven | 50 09 | 124 40 | See pages 120-125 for daily predictions at Desolation Sound | | | | | | | |
| | Channel Island | 50 19 | 124 45 | +0 07 | +1.3 | +1.3 | +0 12 | +0.3 | 0.0 | 11.5 | 17.4 |
| | Redonda Bay | 50 16 | 124 57 | +0 10 | +0.7 | +1.0 | +0 12 | +0.3 | +0.3 | 11.2 | 16.7 |
| | Heriot Bay | 50 06 | 125 13 | +0 09 | +0.7 | +1.0 | +0 11 | +0.7 | +0.7 | 10.8 | 16.4 |
| | Gorge Harbour | 50 06 | 124 59 | +0 17 | +1.6 | +2.3 | +0 08 | +1.0 | +0.7 | 11.5 | 17.7 |
| | Whaletown Bay | 50 06 | 125 03 | +0 07 | +1.0 | +1.0 | +0 09 | +0.3 | 0.0 | 11.2 | 17.1 |
| | Surge Narrows | 50 14 | 125 07 | +0 11 | +0.7 | +1.0 | +0 07 | 0.0 | +0.3 | 11.2 | 16.7 |
| | Bute Inlet | | | | | | | | | | |
| W | Orford Bay | 50 36 | 124 52 | +0 10 | +1.3 | +1.3 | +0 14 | +0.3 | 0.0 | 11.5 | 17.4 |
| | Waddington Harbour | 50 52 | 124 50 | +0 10 | +0.3 | +0.3 | +0 16 | -0.7 | -1.0 | 11.5 | 17.4 |



Secondary Current Stations

| Current Station | Dir. of Flood | Position | | Time Differences | | | | Speed Ratio | | Avg Speed | |
|-------------------------------|---------------------|----------|-----------|------------------|------------|---------------|------------|----------------|-----|--------------|------------|
| | | Lat N | Long W | Trn to Fld | Max Fld | Trn to Ebb | Max Ebb | Fld | Ebb | Max Fld | Max Ebb |
| Peril Strait | °True | ° / | ° / | h min | h min | h min | h min | | | kn | kn |
| Kakul Narrows | 025 | 57 22 | 135 42 | +0 55 | +1 05 | +0 12 | +0 18 | 0.1 | 0.3 | 0.9 | 1.3 |
| Point Siroi | 059 | 57 25 | 135 35 | +0 31 | +0 11 | +0 23 | +0 15 | 0.3 | 0.4 | 1.7 | 1.9 |
| Middle Point | 010 | 57 26 | 135 35 | -0 09 | -0 37 | -0 35 | -0 06 | 0.2 | 0.4 | 1.4 | 2.1 |
| Big Rose Is (0.2 mi SE) | 042 | 57 27 | 135 32 | +0 02 | +0 11 | -0 02 | -0 24 | 0.3 | 0.4 | 1.9 | 2.2 |
| Povorotni Is (0.23 mi WSW) | 323 | 58 31 | 135 34 | -0 17 | +0 15 | +0 09 | -0 37 | 0.2 | 0.2 | 0.9 | 1.1 |
| Tlevak Strait | | | | | | | | | | | |
| Lively Islands W * | 175 | 55 14 | 133 06 | -0 07 | -0 21 | -0 14 | -0 20 | 0.5 | 0.7 | 3.2 | 3.2 |
| Tlevak Narrows, Turn Pt E | 120 | 55 16 | 133 07 | -0 18 | -0 31 | -0 34 | -0 37 | 0.6 | 1.1 | 3.6 | 5.6 |

* NE of the Lively Islands, it is reported that the current sets constantly to the NW, being stronger when the main stream west of the island sets to the NW.

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Mount Edgecumbe, Alaska, as seen from Baranof Island.



Courtesy Alaska Volcano Observatory, US Geological Survey

Aleksandr Baranov

Born in St. Peterburg, Russia, to a merchant family, Baranov was appointed manager of the Shelikov Fur Trading Company on Kodiak Island. During his tenure, he was shipwrecked on Attu Island and, where previous expeditions had perished, he and his men prospered. He became the manager of the Russian-America Company in 1799, effectively becoming the governor of Alaska. Under his leadership, settlements were established at Kodiak (Pavlovskaya) in Prince William Sound, Yakutat Bay, Sitka (New Archangel) and even Fort Ross in northern California. Though his tenure featured conflict with natives and Russians alike, he is remembered as the founder of Russian America. Baranov died at sea in 1819 during his return to retirement in Russia.



Caption: The only known likeness of Aleksandr Baranov, by Mikhail Tikhonov, 1818.

Secondary Current Stations

| Current Station | Dir. of Flood | Position | | Time Differences | | | | Max Rate | | % Ref Rate | |
|-----------------------|---------------|----------|--------|----------------------|---------|----------------------|---------|----------|-----|------------|-----|
| | | Lat N | Long W | Trn to Fld | Max Fld | Trn to Ebb | Max Ebb | Fld | Ebb | Fld | Ebb |
| Gorge-Tillicum Bridge | °True | o / | o / | h min LW +3 15 | h min | h min HW +1 15 | - | kn | kn | % | % |
| | 290 | 48 27 | 123 24 | | | | | 5.0 | 7.0 | - | - |

Secondary Tide Stations

| Secondary Port | Position | | Time and Height Differences | | | | | | Range | |
|----------------|----------|--------|-----------------------------|-----------|------------|-----------|-----------|------------|---------|----------|
| | | | High Water | | | Low Water | | | | |
| | Lat N | Long W | Time | Mean Tide | Large Tide | Time | Mean Tide | Large Tide | Mn Tide | Lrg Tide |
| Pedder Bay | o / | o / | h min | feet | feet | h min | feet | feet | feet | feet |
| 48 20 | 123 33 | -0 20 | -0.3 | 0.0 | -0.16 | -0.3 | 0.0 | 0.0 | 5.9 | 10.5 |
| William Head | 48 20 | 123 32 | -0 05 | -0.3 | -0.7 | -0 08 | 0.0 | +0.7 | 5.6 | 9.5 |
| Esquimalt | 48 26 | 123 27 | +0 03 | 0.0 | 0.0 | +0 04 | 0.0 | 0.0 | 5.9 | 10.5 |
| Clover Point | 48 24 | 123 21 | +0 19 | 0.0 | 0.0 | +0 01 | 0.0 | 0.0 | 6.2 | 10.5 |
| Portage Inlet | 48 27 | 123 25 | +1 36* | -4.9 | -5.2 | +2 51* | -1.6 | 0.0 | 3.0 | 4.9 |
| Oak Bay | 48 25 | 123 18 | +0 58 | +0.7 | +0.3 | +0 18 | 0.0 | 0.0 | 6.6 | 10.8 |

* **PORTRAGE INLET:** There is a great variation in the time differences with Victoria. A long stand at high water is followed by a small drop to the next low water. The low water occurs at or near 6.0 feet on the rising tide at Victoria. The range of tide is about 50% of that at Victoria.

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Secondary Current Stations

| Current Station | Dir. of Flood | Position | | Time Differences | | | | Speed Ratio | | Avg Speed | |
|---|---------------------|----------|-----------|--|------------|---------------|------------|----------------|-----|--------------|------------|
| | | Lat N | Long W | Trn to Fld | Max Fld | Trn to Ebb | Max Ebb | Fld | Ebb | Max Fld | Max Ebb |
| Ernest Sound | °True | ° / | ° / | h min | h min | h min | h min | | | kn | kn |
| McHenry Ledge (1mi N) | 045 | 55 48 | 132 18 | -0 09 | -0 17 | -0 27 | +0 04 | 0.6 | 1.0 | 2.0 | 2.0 |
| Blanche Rock | 035 | 56 05 | 132 05 | +0 11 | +0 03 | -0 07 | +0 24 | 0.6 | 1.0 | 2.0 | 2.0 |
| Point Warde | 045 | 56 11 | 131 58 | +0 16 | +0 08 | -0 02 | +0 29 | 0.6 | 1.0 | 2.0 | 2.0 |
| Blake Channel | | | | | | | | | | | |
| Blake Island | 330 | 56 13 | 131 55 | +0 21 | +0 13 | +0 03 | +0 34 | 0.8 | 1.2 | 2.5 | 2.5 |
| The Narrows | 225 | 56 22 | 132 06 | +0 31 | +0 23 | +0 13 | +0 44 | 0.9 | 1.4 | 3.0 | 3.0 |
| Channel Island, North | 140 | 56 23 | 132 10 | +0 31 | +0 23 | +0 13 | +0 44 | 0.6 | 1.0 | 2.0 | 2.0 |
| Point Highfield | 095 | 56 30 | 132 23 | +0 06 | -0 02 | -0 12 | +0 19 | 0.5 | 0.7 | 1.5 | 1.5 |
| Zimovia Strait | | | | | | | | | | | |
| No Name Is., near | 330 | 56 09 | 132 09 | +0 16 | +0 08 | -0 02 | +0 29 | 0.5 | 0.8 | 1.6 | 1.6 |
| Thoms Place | | | | | | | | | | | |
| Village Islands | 315 | 56 13 | 132 19 | +0 16 | +0 08 | -0 02 | +0 29 | 0.5 | 0.7 | 1.5 | 1.5 |
| East Point, East of | 010 | 56 23 | 132 24 | +0 06 | -0 02 | -0 12 | +0 19 | 0.5 | 0.8 | 1.7 | 1.7 |
| Cordova Bay | | | | | | | | | | | |
| Dewey Rocks (2mi W) | 005 | 54 45 | 132 32 | -0 34 | -0 42 | -0 52 | -0 21 | 0.3 | 0.5 | 1.0 | 1.0 |
| Webster Point (1mi W) | 005 | 54 58 | 132 38 | -0 29 | -0 37 | -0 47 | -0 16 | 0.5 | 0.8 | 1.7 | 1.7 |
| Mellen Rock (1mi E) | 010 | 55 02 | 132 39 | -0 24 | -0 32 | -0 42 | -0 11 | 0.6 | 1.0 | 2.0 | 2.0 |
| Tlevak Strait | | | | | | | | | | | |
| McFarland Islands | 340 | 55 04 | 132 57 | -0 19 | -0 27 | -0 37 | -0 06 | 0.5 | 0.8 | 1.7 | 1.7 |
| Sukkwan Narrows | 323 | 55 12 | 132 49 | -0 29 | -0 45 | -0 20 | -0 09 | 0.4 | 0.6 | 1.4 | 1.2 |
| The Sentinels (1mi W) | 335 | 55 11 | 133 01 | -0 19 | -0 27 | -0 37 | -0 06 | 0.5 | 0.8 | 1.6 | 1.6 |
| Ulloa Channel | | | | | | | | | | | |
| Waterfall Cannery | 155 | 55 18 | 133 15 | -0 19 | -0 27 | -0 37 | -0 06 | 0.6 | 1.0 | 2.0 | 2.0 |
| Meares Passage | | | | | | | | | | | |
| Meares Island, S of | 090 | 55 15 | 133 11 | -0 19 | -0 27 | -0 37 | -0 06 | 0.7 | 1.0 | 2.1 | 2.1 |
| Millar Rocks | 030 | 55 12 | 133 15 | -0 29 | -0 37 | -0 47 | -0 16 | 0.4 | 0.6 | 1.2 | 1.2 |
| Bucarelli Bay to | | | | | | | | | | | |
| Davidson Inlet | | | | | | | | | | | |
| Point Arboleda (1mi W) | 020 | 55 19 | 133 29 | -0 24 | -0 32 | -0 42 | -0 11 | 0.4 | 0.7 | 1.4 | 1.4 |
| Craig Cannery | 010 | 55 29 | 133 09 | -0 14 | -0 22 | -0 32 | -0 01 | 0.3 | 0.5 | 1.0 | 1.0 |
| Klawock Narrows, N of | 100 | 55 30 | 133 11 | -0 18 | -0 36 | +0 14 | +0 02 | 0.2 | 0.4 | 0.5 | 0.8 |
| Fish Egg Is. | | | | | | | | | | | |
| Saint Nicholas Ch (S end) | 022 | 55 27 | 133 38 | -1 47 | -1 48 | -1 27 | -1 35 | 0.5 | 0.7 | 1.4 | 1.4 |
| Portillo Channel | 345 | 55 30 | 133 26 | -4 41 | -4 06 | -3 56 | -4 16 | 0.1 | 0.2 | 0.4 | 0.3 |
| Saint Nicholas Chan N | 016 | 55 32 | 133 34 | -2 09 | -1 51 | -1 49 | -2 02 | 0.2 | 0.2 | 0.6 | 0.5 |
| San Christoval Rock | 308 | 55 34 | 133 18 | -4 36 | -4 58 | -4 38 | -4 23 | 0.4 | 0.6 | 1.4 | 1.3 |
| Arraga Passage (W end) | 062 | 55 34 | 133 44 | +0 09 | -0 33 | -0 08 | +0 17 | 0.2 | 0.3 | 0.7 | 0.7 |
| San Christoval Chan, Larz light (0.25mi N) | 315 | 55 35 | 133 20 | -4 34 | -5 02 | -4 07 | -4 19 | 0.2 | 0.2 | 0.7 | 0.5 |
| Boca De Finas | 125 | 55 42 | 133 35 | See www.portsandpasses.com/updates.html | | | | | | | |
| Dead Tree Point | 154 | 55 45 | 133 40 | +4 00 | +3 34 | +3 30 | +3 46 | 0.2 | 0.4 | 0.4 | 0.4 |
| Whale Rock (1.0mi SE) | 080 | 55 50 | 133 41 | +0 18 | -0 39 | -0 07 | +0 17 | 0.1 | 0.3 | 0.4 | 0.6 |
| Tonowek Narrows | 037 | 55 46 | 133 20 | -1 34 | -2 06 | -1 29 | -1 40 | 0.8 | 1.1 | 2.5 | 2.3 |
| Karheen Passage, W of Cob Is. | 161 | 55 48 | 133 19 | +0 36 | +0 01 | +0 32 | +0 30 | 0.4 | 0.8 | 1.3 | 1.6 |



Secondary Current Stations

| Current Station | Dir. of Flood | Position | | Time Differences | | | | Speed Ratio | | Avg Speed | | |
|---|---------------------|----------|-----------|------------------|------------|---------------|------------|----------------|-----|--------------|------------|-----|
| | | Lat N | Long W | Trn to Fld | Max Fld | Trn to Ebb | Max Ebb | Fld | Ebb | Max Fld | Max Ebb | |
| Tuxekan Passage (0.2mi S of Tuxekan) | °True | 323 | 55 53 | 133 15 | -3 34 | -3 32 | -1 42 | -3 05 | 0.3 | 0.2 | 0.8 | 0.4 |
| Tokeen Bay | | 064 | 56 00 | 133 27 | -0 22 | -0 09 | -0 09 | -0 24 | 0.2 | 0.2 | 0.6 | 0.5 |
| El Capitan Passage | | 025 | 55 55 | 133 19 | -0 06 | -0 19 | -0 11 | +0 03 | 0.7 | 1.0 | 2.2 | 2.1 |
| Skookumchuck Pass | | 065 | 56 10 | 133 20 | +4 57 | +5 37 | +5 54 | +5 37 | 0.2 | 0.1 | 0.5 | 0.3 |
| The Narrows, West of Aneskett Point | | 073 | 56 09 | 133 27 | -0 17 | -0 28 | +0 05 | +0 05 | 0.3 | 0.4 | 0.9 | 0.9 |
| El Capitan Strait, NW entrance | | | | | | | | | | | | |
| Sumner Strait | | | | | | | | | | | | |
| Warren Channel | | 349 | 55 56 | 133 50 | -1 33 | -2 00 | -1 36 | -1 11 | 0.6 | 1.3 | 2.0 | 2.7 |
| Decision Passage | | 055 | 56 00 | 134 07 | +0 08 | -0 24 | -0 24 | -0 08 | 0.3 | 0.6 | 0.9 | 1.2 |
| Shakan Strait, W end | | 152 | 56 08 | 133 35 | -0 31 | -0 44 | -0 19 | -0 13 | 0.3 | 0.4 | 0.9 | 0.9 |
| Shakan Strait Rock | | 062 | 56 08 | 133 30 | -0 12 | -0 20 | -0 14 | -0 14 | 0.1 | 0.2 | 0.4 | 0.4 |
| Dry Pass | | 115 | 56 10 | 133 24 | +3 29 | +2 31 | +2 34 | +4 03 | 0.1 | 0.1 | 0.3 | 0.2 |
| Beauclerc Is Lt (1mi E) | | 070 | 56 15 | 133 49 | +0 09 | -0 41 | -1 30 | -1 28 | 0.1 | 0.4 | 0.4 | 0.9 |
| Helm Rock | | 074 | 56 23 | 133 40 | -0 54 | -2 27 | -2 44 | -1 16 | 0.5 | 1.4 | 1.6 | 3.0 |
| Sumner Island, East | | 352 | 56 24 | 133 45 | -1 40 | -0 38 | -0 39 | -0 56 | 0.4 | 0.5 | 1.3 | 1.1 |
| The Eye Opener | | 103 | 56 23 | 133 15 | +0 21 | -0 35 | -1 35 | -0 47 | 0.2 | 1.0 | 0.7 | 2.2 |
| Vichnefski Rock Light | | 050 | 56 27 | 133 01 | -0 32 | -0 58 | -1 00 | -0 47 | 0.6 | 1.1 | 1.9 | 2.2 |
| Blaquiere Pt (1mi SSW) | | 045 | 56 33 | 132 34 | -0 08 | +0 23 | -0 20 | +0 23 | 0.3 | 0.5 | 1.1 | 1.0 |
| Keku Strait (Rocky Pass) | | | | | | | | | | | | |
| South entr Keku Strait | | 005 | 56 34 | 133 43 | +0 57 | +0 13 | -0 25 | -0 32 | 0.3 | 0.6 | 0.9 | 1.2 |
| Eagle Island (0.5mi SE) | | 000 | 56 36 | 133 41 | -0 04 | -0 24 | -0 49 | +0 43 | 0.5 | 1.0 | 1.6 | 2.0 |
| Devils Elbow | | 285 | 56 38 | 133 41 | -0 18 | -0 09 | -0 41 | +0 13 | 0.8 | 0.8 | 2.4 | 1.8 |
| Summit Island, West of Cucumber Reef (0.2mi NW) | | 185 | 56 41 | 133 44 | +1 48 | +1 43 | +2 10 | +1 46 | 0.7 | 1.2 | 2.2 | 2.6 |
| | | 110 | 56 47 | 133 46 | +0 11 | +0 16 | +0 04 | +0 11 | 0.4 | 0.8 | 1.4 | 1.9 |
| Wrangell Narrows | | | | | | | | | | | | |
| Point Lockwood | | 000 | 56 33 | 132 58 | +0 06 | -0 02 | -0 12 | +0 19 | 0.9 | 1.4 | 3.0 | 3.0 |
| Spike Rock | | 005 | 56 36 | 132 59 | +0 06 | -0 02 | -0 12 | +0 19 | 1.5 | 2.1 | 4.7 | 4.3 |
| South Ledge | | 037 | 56 37 | 132 58 | +0 07 | -0 30 | -0 05 | +0 27 | 0.5 | 1.4 | 1.7 | 2.9 |
| Rock Point | | 335 | 56 41 | 132 56 | +0 06 | -0 02 | -0 12 | +0 19 | 0.3 | 0.5 | 1.0 | 1.0 |
| Blunt Point | | 160 | 56 47 | 132 59 | +0 31 | +0 23 | +0 13 | +0 44 | 1.1 | 1.6 | 3.6 | 3.4 |
| Turn Point | | 220 | 56 48 | 132 59 | +0 31 | +0 23 | +0 13 | +0 44 | 1.4 | 1.8 | 4.3 | 3.8 |
| Prolewy Rocks | | 240 | 56 49 | 132 57 | +0 31 | +0 23 | +0 13 | +0 44 | 1.1 | 1.6 | 3.6 | 3.4 |
| Frederick Sound * | | | | | | | | | | | | |
| Cosmos Pt (0.5mi E) | | 180 | 56 40 | 132 36 | +1 55 | +1 15 | +0 25 | +0 42 | 0.1 | 0.2 | 0.4 | 0.5 |
| Turnabout Island | | 080 | 57 07 | 133 55 | -1 01 | -0 59 | -0 47 | -0 51 | 0.4 | 0.5 | 1.4 | 0.9 |
| Stephens Passage | | | | | | | | | | | | |
| The Brothers (2mi E) | | 025 | 57 18 | 133 43 | +0 11 | +0 03 | -0 07 | +0 24 | 0.3 | 0.5 | 1.0 | 1.0 |
| Tracy Arm Bar | | 060 | 57 47 | 133 38 | +0 26 | -0 17 | -0 12 | +0 32 | 0.3 | 1.2 | 1.0 | 2.4 |
| Midway Island | | 335 | 57 50 | 133 50 | +0 21 | +0 13 | +0 03 | +0 34 | 0.3 | 0.5 | 1.0 | 1.0 |
| Point Arden | | 355 | 58 09 | 134 08 | +0 26 | +0 18 | +0 08 | +0 39 | 0.3 | 0.5 | 1.0 | 1.0 |
| Taku Inlet (0.2mi off Flat Point) | | 039 | 58 20 | 134 03 | +0 48 | +0 11 | -0 12 | +0 07 | 0.2 | 0.5 | 0.7 | 1.0 |

* Observations in Frederick Sound during the summer months indicate that the current usually flows to the NW, the speed varying with the tide. The current flows to these only on large tides.



Secondary Current Stations

| Current Station | Dir. of Flood | Position | | Time Differences | | | | Speed Ratio | | Avg Speed | |
|--|---------------------|----------|-----------|------------------|------------|---------------|------------|----------------|-----|--------------|------------|
| | | Lat N | Long W | Trn to Fld | Max Fld | Trn to Ebb | Max Ebb | Fld | Ebb | Max Fld | Max Ebb |
| Gastineau Channel | °True | ° / | ° / | h min | h min | h min | h min | | | kn | kn |
| Point Salisbury, West | 318 | 58 13 | 134 15 | +0 22 | +0 43 | +0 44 | +0 18 | 0.1 | 0.1 | 0.3 | 0.3 |
| Juneau Harbor, N of | 319 | 58 18 | 134 25 | +0 11 | +0 22 | -0 04 | -0 04 | 0.2 | 0.5 | 0.5 | 1.0 |
| Point Young | 308 | 58 13 | 134 34 | -0 12 | +0 15 | +1 56 | +0 51 | 0.1 | 0.2 | 0.3 | 0.4 |
| Piling Point, East of | 140 | 58 20 | 134 47 | -0 33 | -0 26 | +0 15 | +0 11 | 0.1 | 0.2 | 0.4 | 0.3 |
| Chatham Strait | | | | | | | | | | | |
| Cape Ommaney Lt (5mi E) | 005 | 56 10 | 134 31 | -0 14 | -0 22 | -0 32 | -0 01 | 0.3 | 0.5 | 1.0 | 1.0 |
| Point Ellis (4mi W) | 350 | 56 34 | 134 27 | -0 04 | -0 12 | -0 22 | +0 09 | 0.5 | 0.7 | 1.5 | 1.5 |
| Kingsmill Pt Lt (3mi W) | 355 | 56 50 | 134 31 | +0 01 | -0 07 | -0 17 | +0 14 | 0.6 | 1.0 | 2.0 | 2.0 |
| Point Gardner Lt (2mi W) | 350 | 57 01 | 134 40 | +0 06 | -0 02 | -0 12 | +0 19 | 0.6 | 1.0 | 2.0 | 2.0 |
| Danger Pt Lt (3mi W) | 350 | 57 31 | 134 42 | +0 16 | +0 08 | -0 02 | +0 29 | 0.5 | 0.7 | 1.5 | 1.5 |
| Kootznahoo Inlet | | | | | | | | | | | |
| Turn Pt, Kootznahoo Inlet | 105 | 57 30 | 134 35 | +0 56 | +0 48 | +0 38 | +1 09 | 2.2 | 2.9 | 6.9 | 6.1 |
| S Passage Pt (3mi E) | 175 | 57 46 | 134 50 | +0 16 | +0 08 | -0 02 | +0 29 | 0.5 | 0.7 | 1.5 | 1.5 |
| Point Augusta, ESE | 344 | 58 02 | 134 52 | -0 02 | -0 04 | +0 01 | +0 54 | 0.2 | 0.3 | 0.5 | 0.6 |
| Hawk Inlet, Hawk Point | 355 | 58 06 | 134 47 | +0 18 | -0 20 | -0 17 | +0 28 | 0.2 | 0.9 | 0.8 | 1.9 |
| Sitka Sound | | | | | | | | | | | |
| Biorka Channel | 045 | 56 50 | 135 30 | +0 47 | +0 20 | +0 15 | +0 13 | 0.1 | 0.2 | 0.4 | 0.4 |
| Western Channel | 029 | 57 03 | 135 24 | +0 10 | -0 20 | -0 09 | +0 09 | 0.1 | 0.2 | 0.3 | 0.4 |
| Sitka Harbor, channel off Harbor Island | 333 | 57 03 | 135 20 | -0 58 | -1 17 | -2 02 | -1 16 | 0.1 | 0.2 | 0.3 | 0.4 |
| Krestof Sound | | | | | | | | | | | |
| West Channel (narrows) | 242 | 57 09 | 135 35 | -0 43 | -0 51 | -1 01 | -0 30 | 0.4 | 0.5 | 1.3 | 1.1 |
| East Channel (narrows) | 051 | 57 10 | 135 33 | -0 30 | -0 32 | -0 48 | -0 23 | 0.4 | 0.7 | 1.3 | 1.4 |
| Olga Strait | | | | | | | | | | | |
| Creek Point (0.44miSE) | 319 | 57 13 | 135 30 | +0 12 | -0 24 | +0 02 | +0 27 | 0.4 | 0.6 | 1.3 | 1.2 |
| Neva Strait | | | | | | | | | | | |
| Whitestone Narrows, S of Whitestone Pt | 161 | 57 15 | 135 34 | -0 24 | -0 30 | -0 07 | -0 04 | 0.4 | 0.4 | 1.0 | 0.8 |
| Wyvill Reef | 150 | 57 16 | 135 35 | -0 27 | -0 30 | -0 04 | -0 13 | 0.5 | 0.7 | 1.6 | 1.4 |
| Salisbury Sound | | | | | | | | | | | |
| Sinitsin Island | 095 | 57 21 | 135 46 | -0 19 | -0 27 | -0 37 | -0 06 | 0.5 | 0.7 | 1.5 | 1.5 |
| Peril Strait | | | | | | | | | | | |
| Otstioa Is Lt (1mi N) | 280 | 57 35 | 135 27 | +0 06 | -0 02 | -0 12 | +0 19 | 0.6 | 1.0 | 2.0 | 2.0 |
| Point Benham (1mi E) | 310 | 57 29 | 135 11 | +0 06 | -0 02 | -0 12 | +0 19 | 0.6 | 1.0 | 2.0 | 2.0 |
| Lindenberg Head | 280 | 57 27 | 135 02 | +0 06 | -0 02 | -0 12 | +0 19 | 0.6 | 1.0 | 2.0 | 2.0 |
| Fairway Island | 265 | 57 27 | 134 53 | +0 11 | +0 03 | -0 07 | +0 24 | 0.6 | 1.0 | 2.0 | 2.0 |
| Khaz Bay to Cape Cross | | | | | | | | | | | |
| Ebow Passage, S of Klag Island | 042 | 57 37 | 136 06 | +0 29 | +0 08 | +0 44 | +0 54 | 0.5 | 0.4 | 1.7 | 0.9 |
| Point Hogan, S Passage | 058 | 57 41 | 136 15 | +0 09 | -0 45 | +0 33 | +0 55 | 0.1 | 0.2 | 0.4 | 0.5 |

