

201709  
311

OCEAN SCIENCES STRICKLAND CTD LOG

| DATE<br>(dd-mm) | TIME<br>(local)          | LAT. (N)   | LONG. (W)   | STN<br>NAME | BOTTOM<br>DEPTH<br>(m) | CAST<br>DEPTH<br>(m) | CTD File Name |
|-----------------|--------------------------|------------|-------------|-------------|------------------------|----------------------|---------------|
| 26 Sep          | 1050                     | 48 33.208  | 123 31.916  | S2          | 215                    | 200                  | 20170926-S2   |
| 26 Sep          | 1330                     | 48 35.476  | 123 29.976  | S3          | 220                    | 200                  | 20170926-S3   |
| 27 Sep          | <del>1000</del><br>09:50 | 48 37.885  | 123 15.365  | H3          | 180                    | 160                  | 20170927-H3   |
| 27 Sep          | 1246                     | 48° 42.895 | 123° 14.727 | H1          | 300                    | 280                  | 20170927-H1   |
| 28 Sep          | 10:15                    | 48° 37.207 | 123° 29.965 | S4          | 195                    | 186                  | 20170928-S4   |
| 28 Sep          | 14:45                    | 48° 44.0   | 123 32.8    | S11         | 130                    | 125                  | 20170928-S11  |
| 30 Sept.        | 9:15                     | 48° 41.475 | 123° 29.999 | S12a        | 85                     | 77                   | 20170930-S12a |
| 30 Sept.        | 10:42                    | 48 42.949  | 123 27.660  | S5          | 115                    | 100                  | 20170930-S5   |
| 30 Sept.        | 13:48                    | 48 40.849  | 123 16.612  | H2          | 150                    | 140                  | 20170930-H2   |
| 30 Sep          | 15:50                    | 48 44.498  | 123 18.092  | S6          | 115                    | 100                  | 20170930-S6   |
| 01 Oct          | 09:05                    | 48° 44.583 | 123° 23.617 | S8          | 85                     | 75                   | 20171001-S8   |
| 01 Oct          | 10:30                    | 48° 42.960 | 123° 27.619 | S5b         | 115                    | 105                  | 20171001-S5b  |

201709 EOS  
311

# OCEAN SCIENCES STRICKLAND CTD LOG

| DATE<br>(dd-<br>mmm) | TIME<br>(local) | LAT. (N)  | LONG. (W)  | STN<br>NAME | BOTTOM<br>DEPTH<br>(m) | CAST<br>DEPTH<br>(m) | CTD File Name |
|----------------------|-----------------|-----------|------------|-------------|------------------------|----------------------|---------------|
| 2<br>Oct             | 1046            | 48 51.528 | 123 35.070 | S9          | 190                    | 175                  | 20171002-S9   |
| 2<br>Oct             | 1300            | 48 47.985 | 123 32.697 | S10         | 140                    | 135                  | 20171002-S10  |
|                      |                 |           |            |             |                        |                      |               |
|                      |                 |           |            |             |                        |                      |               |
|                      |                 |           |            |             |                        |                      |               |
|                      |                 |           |            |             |                        |                      |               |
|                      |                 |           |            |             |                        |                      |               |
|                      |                 |           |            |             |                        |                      |               |
|                      |                 |           |            |             |                        |                      |               |
|                      |                 |           |            |             |                        |                      |               |
|                      |                 |           |            |             |                        |                      |               |
|                      |                 |           |            |             |                        |                      |               |
|                      |                 |           |            |             |                        |                      |               |

# UVIC OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland SALACIA

Nick B.  
Collected By: TAYLOR JOSEPHY

Date: 26/09/2017

Consecutive Stn #: 1

Station Name: 52

Notes: (temperature, wind, barometer, weather, sea-state, etc)

no wind, calm water, 21°C

Water very clear: 10m visibility

| EVENT NUMBER | EVENT TYPE | TIME (local, 24h format) | LATITUDE (N) (dd mm.mmm) | LONGITUDE (W) (ddd mm.mmm) | BOTTOM DEPTH (m) | CAST DEPTH (m) | NOTES (e.g. CTD file names, bottle depths, flow meter readings, problems, etc)                        |
|--------------|------------|--------------------------|--------------------------|----------------------------|------------------|----------------|-------------------------------------------------------------------------------------------------------|
| 1            | CTD        | 10:50                    | 48° 33.208' N            | 123° 31.916 W              | 215              | 200            | 20170926_52<br>File name 5                                                                            |
| 2            | ZOOP       | 11:05                    | 48° 33.203' N            | 123° 31.958 W              | 215              | 50             | Flow meter: 79330 start<br>89463 end                                                                  |
| 3            | ZOOP       | 11:48                    | 48° 33.166' N            | 123° 32.033 W              | 215              | 100            | flow meter: 79463 START<br>89830 END<br>larger zooplankton<br>larval shrimp 2 juvenile shrimp lobster |
| 4            | NISK       | 12:20                    | "                        | "                          | 215              | 200            | 75, 100, 125, 150, 200 m.                                                                             |
| 5            | NISK       | 12:50                    | "                        | "                          | 215              | 50             | 10 20 30 40 50 m<br>0m bucket                                                                         |

EVENT NUMBER = each "cast" of equipment is given a new number, sequential from the beginning of the cruise.

EVENT TYPE = CTD, NISK, ZOOP, PHYTO, GRAB

Bottom Depth = depth of water

Cast Depth = deepest depth the equipment reaches

# UVIC OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Collected By: \_\_\_\_\_

Date: 26 Sep 2017

Consecutive Stn #: 2

Station Name: S3

Notes: (temperature, wind, barometer, weather, sea-state, etc)

60% humidity

light breeze

22° C

slight ripples

sunny, slightly cloudy

| EVENT NUMBER | EVENT TYPE | TIME (local, 24h format) | LATITUDE (N) (dd mm.mmm) | LONGITUDE (W) (ddd mm.mmm) | BOTTOM DEPTH (m) | CAST DEPTH (m) | NOTES (e.g. CTD file names, bottle depths, flow meter readings, problems, etc) |
|--------------|------------|--------------------------|--------------------------|----------------------------|------------------|----------------|--------------------------------------------------------------------------------|
| 6            | CTD        | 13:30                    | 48.35.476                | 123.29.976                 | ~230             | 200            | 20170926-S3                                                                    |
| 7            | NISK       |                          | "                        | "                          | 230              | 200            | 50, 75, 100, 150, 200<br>100m bottle leaking                                   |
| 8            | NISK       | 1420                     | 48 35.269                | 123 30.049                 | 230              | 40             | 0, 10, 20, 30, 40, <del>50</del>                                               |
| 9            | ZOOP       | 1440                     | "                        | "                          |                  | 100m - 0m      | flow: 80832 - start<br>80332 - end<br>100m tow                                 |
| 10           | ZOOP       | 1500                     |                          |                            |                  | 50 - 0m        | Flow: 80332 - start<br>80565                                                   |

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EVENT TYPE = CTD, NISK, ZOOP, PHYTO, GRAB

Bottom Depth = depth of water

Cast Depth = deepest depth the equipment reaches

# UVIC OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland Salacia

Collected By: Kellie, Anna, Wylee, Colin

Date: Sept 27, 2017

Consecutive Stn #: 3

Station Name: H3

Notes: (temperature, wind, barometer, weather, sea-state, etc)  
slight wind, sunny, ~~100%~~ 5% cloud cover,  
17°C, fair, calm.

| EVENT NUMBER | EVENT TYPE  | TIME<br>(local, 24h format) | LATITUDE (N) (dd mm.mmm) | LONGITUDE (W) (ddd mm.mmm) | BOTTOM DEPTH (m) | CAST DEPTH (m) | NOTES (e.g. CTD file names, bottle depths, flow meter readings, problems, etc)            |
|--------------|-------------|-----------------------------|--------------------------|----------------------------|------------------|----------------|-------------------------------------------------------------------------------------------|
| 11           | CTD         | 09:51                       | 48°37'.835N              | 123°15.365W                | 180              | 160            | drifted to shallower waters.                                                              |
| 12           | NISKIN cast | 10:11                       | 48°37.884N               | 123°15.209W                | 180              | 150            | 150, <del>125</del> , 100, 75, 50m (bottle depths)<br>flow meter: 81565                   |
| 13           | NISKIN cast | 10:52                       | 48°37.695N               | 123°15.273W                | 180              | 40             | 40, 30, 20, 10, 5, 0m (bottle depths) very good visibility from down<br>flow meter: 81565 |
| 14           | Zoop        | 11:14                       | 48°37.639N               | 123°15.351W                | 180              | 100            | 100-0m<br>fm. After cast: 81131                                                           |
| 15           | Zoop        | 11:47                       | 48°37.518N               | 123°15.242W                | 180              | 50             | 50-0m . flow meter 81131<br>fm. After cast 81400                                          |

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EVENT TYPE = CTD, NISK, ZOOP, PHYTO, GRAB

Bottom Depth = depth of water

Cast Depth = deepest depth the equipment reaches

# UVIC OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland Salacia

Collected By: Victoria, Robin, Anna, Neil

Date: 9/27/17

Consecutive Stn #: 4

Station Name: H1

Notes: (temperature, wind, barometer, weather, sea-state, etc)  
slight breeze, clear sky, good visibility (kms), calm water

| EVENT NUMBER | EVENT TYPE          | TIME (local, 24h format) | LATITUDE (N) (dd mm.mmm)  | LONGITUDE (W) (ddd mm.mmm)                            | BOTTOM DEPTH (m) | CAST DEPTH (m) | NOTES (e.g. CTD file names, bottle depths, flow meter readings, problems, etc) |
|--------------|---------------------|--------------------------|---------------------------|-------------------------------------------------------|------------------|----------------|--------------------------------------------------------------------------------|
| 16           | CTD                 | 12:46                    | 48° 42.695' N<br>(.687)   | 123° 14.710' W<br>(.761)                              | 300              | 250            | Boat was moving in circular-ish motions                                        |
| 17           | Niskin Deep Cast    | 13:10                    | N 48° 42.895' N<br>(.945) | N <del>48° 42.815</del><br>W 123° 14.727' W<br>(.948) | 300              | 200            | 200, 150, 100, 75, 50 bottle depth<br>hand touched open top                    |
| 18           | Niskin Shallow Cast | 13:49                    | N 48° 42.745' N<br>(.530) | 123° 14.961' W<br>(15.179)                            | 300              | 40             | 40, 30, 20, 10, 5m depths                                                      |
| 19           | Zoop                | 14:18                    | N 48° 42.447' N<br>(.433) | 123° 15.311' W<br>(.351)                              | 300              | 100            | 100-0m FM: 71400<br>FM after: 82090                                            |
| 20           | Zoop                | 14:58                    | N 48° 42.149' N<br>(.124) | W 123° 15.600' W<br>(.627)                            | 300              | 50             | 50-0m FM before: 82090<br>FM after: 82280                                      |

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EVENT TYPE = CTD, NISK, ZOOP, PHYTO, GRAB

Bottom Depth = depth of water

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# UVIC OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Salacia  
Strickland

Collected By: Suzy Christoffe

Date: Sept. 28, 2017

Consecutive Stn #: ~~145~~ 5

Station Name: SA

Notes: (temperature, wind, barometer, weather, sea-state, etc)

Clear skies  
Calm seas  
little - no wind

| EVENT NUMBER  | EVENT TYPE              | TIME (local, 24h format) | LATITUDE (N) (dd mm.mmm) | LONGITUDE (W) (ddd mm.mmm) | BOTTOM DEPTH (m) | CAST DEPTH (m) | NOTES (e.g. CTD file names, bottle depths, flow meter readings, problems, etc)           |
|---------------|-------------------------|--------------------------|--------------------------|----------------------------|------------------|----------------|------------------------------------------------------------------------------------------|
| <del>21</del> | CTD                     | 10:15                    | 48° 37.207'              | 123° 29.965'               | 195              | 186            | 20170928-54                                                                              |
| 22            | NISK                    | 10:38                    | 48° 37.131'              | 123° 29.964'               | 195              | 175            | <del>213, 150, 100, 75, 50</del><br>175, 150, 125, 100, 75                               |
| 23            | NISK<br><del>zoop</del> | 11:12                    | 48° 36.964'              | 123° 29.976'               | 195              | 40             | 40, 30, 20, 10, 0                                                                        |
| 24            | zoop                    | 11:42                    | 48° 36.808'              | 123° 29.952'               | 195              | 100            | Flowmeter start = 82380<br>Flowmeter finish = 82790<br>reading in jar says 72790 (wrong) |
| 25            | zoop                    | 12:25                    | 48° 37.045'              | 123° 29.955'               | 195              | 50             | Flowmeter start = 82790<br>Flowmeter finish = 83070                                      |

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EVENT TYPE = CTD, NISK, ZOOP, PHYTO, GRAB

Bottom Depth = depth of water

Cast Depth = deepest depth the equipment reaches

# UVIC OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Collected By: Megan Macdonald

Date: Sept. 28/2017

Natasha J-O, Jing Cai, Emily F.

Consecutive Stn #: 6

Station Name: S11

Notes: (temperature, wind, barometer, weather, sea-state, etc)

Sun, clear skies  
little wind/no wind  
calm water

| EVENT NUMBER | EVENT TYPE | TIME (local, 24h format) | LATITUDE (N) (dd mm.mmm) | LONGITUDE (W) (ddd mm.mmm) | BOTTOM DEPTH (m) | CAST DEPTH (m) | NOTES (e.g. CTD file names, bottle depths, flow meter readings, problems, etc) |
|--------------|------------|--------------------------|--------------------------|----------------------------|------------------|----------------|--------------------------------------------------------------------------------|
| 26           | CTD        | 13h35                    | 48°44.058'               | 123°32.776'                | 130              | 115            | 20170928-S11                                                                   |
| 27           | NISK       | 14h02                    | 48°43.973'               | 123°32.819'                | 130              | 115            | 115, 100, 75, 50                                                               |
| 28           | NISK       | 14h21                    | 48°44.025'               | 123°32.837'                | 130              | 40             | 40, 30, 20, 10, 0                                                              |
| 29           | ZOOP       | 14h46                    | 48°44.104'               | 123°32.902'                | 130              | 100            | Flow meter start: 83070<br>" Finish: 83680                                     |
| 30           | ZOOP       | 15h26                    | (close to 9)             | (close to 9)               | 130              | 50             | Flowmeter start: 83680<br>Finish: 84950<br>*missed coordinates of tow.*        |

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EVENT TYPE = CTD, NISK, ZOOP, PHYTO, GRAB

Bottom Depth = depth of water

Cast Depth = deepest depth the equipment reaches

# UVIC OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland Salacia

Date: Sep 30, 2017

Collected By: Bruce Harvey, Christina

Kari Grant, Sam, Hannah, Beka, Natalie

Consecutive Stn #: S12 7

Station Name: S12a

Notes: (temperature, wind, barometer, weather, sea-state, etc)

Sunny some clouds B.S. ~ 1

| EVENT NUMBER | EVENT TYPE      | TIME (local, 24h format)    | LATITUDE (N) (dd mm.mmm) | LONGITUDE (W) (ddd mm.mmm) | BOTTOM DEPTH (m) | CAST DEPTH (m) | NOTES (e.g. CTD file names, bottle depths, flow meter readings, problems, etc)     |
|--------------|-----------------|-----------------------------|--------------------------|----------------------------|------------------|----------------|------------------------------------------------------------------------------------|
| 31           | CTD             | <del>9:15am</del><br>9:15am | 48°41.475                | 123°29.999                 | 85               | 77             | <del>SEA</del><br>Some drift.                                                      |
| 32           | Deep Nisk'n     | 9:27                        | 48°41.444                | 123°30.000                 | 85               | 79             | Zero bottle 1: 2 end: 77 (75m)<br>Zero bottle 2: 27 (50m)                          |
| 33           | Shallow Nisk'n  | 9:41                        | 48°41.450                | 123°29.813                 | 85               | 43             | 0, 10, 20, 30, 40m casts<br>Zero bottle 1: 1 bottle 2: 9 bottle 3: 19 bottle 4: 29 |
| 34           | Zooplankton tow | 10:03                       | 48°41.476                | 123°29.959                 | 85               | 50m            | Start flow m: 85 83951<br>end flow m: 84205                                        |
| <u>S5</u> 35 | CTD             | 10:42                       | 48°42.949                | 123°27.660                 | 145m             | 100m           | Some drift<br>20170930-S5                                                          |

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EVENT TYPE = CTD, NISK, ZOOP, PHYTO, GRAB

Bottom Depth = depth of water

Cast Depth = deepest depth the equipment reaches

84681

## UVIC OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Collected By: \_\_\_\_\_

Date: Sept 30/17Consecutive Stn #: 8Station Name: S5a

Notes: (temperature, wind, barometer, weather, sea-state, etc)

*slightly windy*

| EVENT NUMBER          | EVENT TYPE        | TIME<br>(local, 24h format) | LATITUDE (N) (dd mm.mmm) | LONGITUDE (W) (ddd mm.mmm) | BOTTOM DEPTH (m) | CAST DEPTH (m)     | NOTES (e.g. CTD file names, bottle depths, flow meter readings, problems, etc) |
|-----------------------|-------------------|-----------------------------|--------------------------|----------------------------|------------------|--------------------|--------------------------------------------------------------------------------|
| <del>36</del> 36      | Deep Nis          | 10:57                       | 48° 42.976'              | 123° 27.558'               | 115              | <del>300</del> 150 | #1 (50) 52<br>#2 (75) 27 <i>set length</i><br>#3 (100) 2                       |
| 37                    | Shallow Nis       | 11:15                       | 48° 42.971'              | 123° 27.635'               | 115              | 45                 | #1 (40) 2<br>#2 (30) 12<br>#3 (20) 22 <i>set length</i><br>#4 (10) 32          |
| 38                    | Deep Zoopl tow    | 11:25                       | 48° 42.967'              | 123° 27.597'               | 115              | 100                | 84681 - Flow meter after tow                                                   |
| 39                    | Shallow Zoopl tow | 11:40                       | 48° 42.925'              | 123° 27.690'               | 115              | 50                 | 84681 - before tow flow meter.<br>84976 - after tow                            |
| CTD on previous page. |                   |                             |                          |                            |                  |                    |                                                                                |

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# UVIC OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Collected By: Justin S.

Date: Sept 30, 2017

Consecutive Stn #: 9

Station Name: H2

Notes: (temperature, wind, barometer, weather, sea-state, etc)

Slight wind, overcast, rain had just stopped when #40 began

| EVENT NUMBER | EVENT TYPE     | TIME (local, 24h format) | LATITUDE (N) (dd mm.mmm) | LONGITUDE (W) (ddd mm.mmm) | BOTTOM DEPTH (m) | CAST DEPTH (m) | NOTES (e.g. CTD file names, bottle depths, flow meter readings, problems, etc) |
|--------------|----------------|--------------------------|--------------------------|----------------------------|------------------|----------------|--------------------------------------------------------------------------------|
| 40           | CTD            | 13:48                    | 48° 40.549               | 123° 16.612                | 150              | 140            | 20170930_H2                                                                    |
| 41           | Niskin Deep    | 14:08                    | 48° 40.556               | 123° 16.695                | 150              | 125            | Bottle depths: 125, 100, 75, 50 (m)<br>Niskin # (1) (2) (3)                    |
| 42           | Niskin Shallow | 14:30                    | 48° 40.653               | 123° 16.692                | 150              | 40             | 40. m, 20. 10. 0. (m)                                                          |
| 43           | Zoop. Deep     | 14:50                    | 48° 40.684               | 123° 16.544                | 150              | 100            | 85012 flow meter start<br>85550                                                |
| 44           | Zoop. Shallow  | 14:57<br>15:02           | 48° 40.720               | 123° 16.444                | 150              | 50             | 85550 - flow start<br>85818 - flow end                                         |

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EVENT TYPE = CTD, NISK, ZOOP, PHYTO, GRAB

Bottom Depth = depth of water

Cast Depth = deepest depth the equipment reaches

\* Note all H2 NITS were left in fridge over night. on boat.

# UVIC OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Collected By: Micah Quindazzi

Date: Sept-30-2017

Consecutive Stn #: 10

Station Name: S6

Notes: (temperature, wind, barometer, weather, sea-state, etc)

Slight wind, overcast, some rain. 12°C.

| EVENT NUMBER | EVENT TYPE   | TIME (local, 24h format) | LATITUDE (N) (dd mm.mmm) | LONGITUDE (W) (ddd mm.mmm) | BOTTOM DEPTH (m) | CAST DEPTH (m) | NOTES (e.g. CTD file names, bottle depths, flow meter readings, problems, etc) |
|--------------|--------------|--------------------------|--------------------------|----------------------------|------------------|----------------|--------------------------------------------------------------------------------|
| 45           | CTD          | 15:50                    | 48°44.998                | 123°18.092                 | 115              | 105            | 20170930_S6                                                                    |
| 46           | Deep NISK    | 16:01                    | 48°44.975                | 123°18.081                 | 115              | 100            | 100, 75, 50                                                                    |
| 47           | Shallow NISK | 16:15                    | 48°44.914                | 123°18.095                 | 115              | 40             | 40, 30, 20, 10, 0                                                              |
| 48           | Deep ZOOP    | 16:38                    | 48°44.889                | 123°18.126                 | 115              | 100            | 85818 Flow start<br>86342 Flow end                                             |
| 49           |              |                          |                          |                            |                  |                |                                                                                |

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EVENT TYPE = CTD, NISK, ZOOP, PHYTO, GRAB

Bottom Depth = depth of water

Cast Depth = deepest depth the equipment reaches

# UVIC OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: ~~Strickland~~ Solara

Collected By: \_\_\_\_\_

Date: 2017/10/01

Consecutive Stn #: 11

Station Name: 58

Notes: (temperature, wind, barometer, weather, sea-state, etc)

~12°C, not too windy, sunny w some clouds,  
seas calm (except waves from ferry)

| EVENT<br>NUMBER | EVENT<br>TYPE | TIME<br>(local, 24h<br>format) | LATITUDE (N) (dd<br>mm.mmm) | LONGITUDE (W)<br>(ddd mm.mmm) | BOTTOM<br>DEPTH (m) | CAST<br>DEPTH<br>(m) | NOTES (e.g. CTD file names, bottle<br>depths, flow meter readings, problems, etc) |
|-----------------|---------------|--------------------------------|-----------------------------|-------------------------------|---------------------|----------------------|-----------------------------------------------------------------------------------|
| 49              | CTD           | 9:05                           | 48°44.583                   | 123°23.617                    | 85                  | 75                   |                                                                                   |
| 50              | nisk          | 9:10                           | 48°44.594                   | 123°23.708                    | 85                  | 75                   | 0m, 10, 20, 30, 40, 50, 75m<br>depths<br>depth readings ~2m off                   |
| 51              | zoop<br>tow   | 9:35                           | 48°44.599                   | 123°23.722                    | 85                  | 50 →<br>surf.        | flow meter before = 86338<br>flow meter after = 86615                             |
|                 |               |                                |                             |                               |                     |                      |                                                                                   |
|                 |               |                                |                             |                               |                     |                      |                                                                                   |

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EVENT TYPE = CTD, NISK, ZOOP, PHYTO, GRAB

Bottom Depth = depth of water

Cast Depth = deepest depth the equipment reaches

# UVIC OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Collected By: Dawson, Ross, Jesslynn, Alicia

Date: Oct 1, 2017

Consecutive Stn #: 12

Station Name: 55b

Notes: (temperature, wind, barometer, weather, sea-state, etc)

*Sea was calm, sun was out, cloud cover present  
mild temperature*

| EVENT NUMBER | EVENT TYPE | TIME (local, 24h format) | LATITUDE (N) (dd mm.mmm) | LONGITUDE (W) (ddd mm.mmm) | BOTTOM DEPTH (m) | CAST DEPTH (m) | NOTES (e.g. CTD file names, bottle depths, flow meter readings, problems, etc)            |
|--------------|------------|--------------------------|--------------------------|----------------------------|------------------|----------------|-------------------------------------------------------------------------------------------|
| 52           | CTD        | 10:30                    | 48° 42.960 (N)           | 123° 27.619 (W)            | 115              | 105            | calm water                                                                                |
| 53           | NISK       | 10:50                    | 48° 42.959 (N)           | 123° 27.584 (W)            | 115              | 100            | 100, 75, 50                                                                               |
| 54           | NISKin     | 11:10                    | 48° 42.968 (N)           | 123° 27.704 (W)            | 115              | 40             | 40, 30, 20, 10, 0<br>calm water                                                           |
| 55           | net        | 11:25                    | 48° 42.987 (N)           | 123° 27.657 (W)            | 115 (334g)       | 100-0          | Flowmeter start: 8.66 10 some sample spilled,<br>Flowmeter Fin: 8.71 20 (freezing sample) |
| 56           | net        | 11:49                    | 48° 42.951 (N)           | 123° 27.922 (W)            | 115              | 50-0           | Flowmeter start: 8.71 20 Freezer<br>Flowmeter Fin: 8.73 80 biomass spat ~ 10m             |

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EVENT TYPE = CTD, NISK, ZOOP, PHYTO, GRAB

Bottom Depth = depth of water

Cast Depth = deepest depth the equipment reaches

↳ 2 jars part A + B

# UVIC OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland Salacia

Collected By: Elisabeth, Hannah, Kelley

Date: Oct. 1, 2017

Consecutive Stn #: 13

Station Name: S4.5

Notes: (temperature, wind, barometer, weather, sea-state, etc)

13°C, partly cloudy, ~10 km/hr wind, calm water

| EVENT NUMBER | EVENT TYPE   | TIME (local, 24h format) | LATITUDE (N) (dd mm.mmm)       | LONGITUDE (W) (ddd mm.mmm)      | BOTTOM DEPTH (m) | CAST DEPTH (m) | NOTES (e.g. CTD file names, bottle depths, flow meter readings, problems, etc)    |
|--------------|--------------|--------------------------|--------------------------------|---------------------------------|------------------|----------------|-----------------------------------------------------------------------------------|
| 57           | CTD          | 14:09                    | 48° 40.215'                    | 123° 29.981'                    | 135m             | 125m           | no issues                                                                         |
| 58           | Nisk deep    | 14:31                    | 48° 40.127'                    | 123° 30.017'                    | 135m             | 125m           | 125, 100, 75, 50 (bottles 25m apart)                                              |
| 59           | Nisk shallow | 14:44                    | 48° 40.127'                    | 123° 30.017'                    | 135m             | 40m            | 40, 30, 20, 10, 0 (bottles 10m apart)                                             |
| 60           | zoop 100-0   | 15:04                    | 48° <del>40.127'</del> 40.054' | 123° <del>30.017'</del> 29.964' | 135m             | 100m           | Flowmeter reading <del>1</del> : 8,7,3,82<br>(before)<br>flowmeter (after): 87947 |
| 61           | zoop 50-0    | 15:21                    | 48° 39.968'                    | 123° 29.946'                    | 135m             | 50m            | flowmeter (start): 87947<br>flowmeter (end): 88225                                |

EVENT NUMBER = each "cast" of equipment is given a new number, sequential from the beginning of the cruise.

EVENT TYPE = CTD, NISK, ZOOP, PHYTO, GRAB

Bottom Depth = depth of water

Cast Depth = deepest depth the equipment reaches

# UVIC OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Collected By: Randi, Sarah, Julia

Date: Oct. 1 2017

Consecutive Stn #: 14

Station Name: S12B

Notes: (temperature, wind, barometer, weather, sea-state, etc)  
calm waters, 14°

| EVENT NUMBER | EVENT TYPE     | TIME (local, 24h format) | LATITUDE (N) (dd mm.mmm) | LONGITUDE (W) (ddd mm.mmm) | BOTTOM DEPTH (m) | CAST DEPTH (m) | NOTES (e.g. CTD file names, bottle depths, flow meter readings, problems, etc) |
|--------------|----------------|--------------------------|--------------------------|----------------------------|------------------|----------------|--------------------------------------------------------------------------------|
| 62           | CTD            | 15:51                    | 48° 41.430'              | 123° 29.913'               | 85m              | 75m            | no issues                                                                      |
| 63           | Niskin bottles | 15:58                    | 48° 41.427'              | 123° 29.902'               | 85m              | 75m            | 75, 50, 40, 30, 20, 10, 0 m bottle depths                                      |
| 64           | Zoopl. 50-0m   | 16:36                    | 48° 41.241°              | 123° 29.729                | 85m              | 50m            | Flow meter: 88220 before<br>Flow meter after: 88480                            |
|              |                |                          |                          |                            |                  |                |                                                                                |
|              |                |                          |                          |                            |                  |                |                                                                                |

EVENT NUMBER = each "cast" of equipment is given a new number, sequential from the beginning of the cruise.

EVENT TYPE = CTD, NISK, ZOOP, PHYTO, GRAB

Bottom Depth = depth of water

Cast Depth = deepest depth the equipment reaches

# UVIC OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: <sup>Salacia</sup> Strickland

Collected By: Bronwyn, Brynni, Joel, Deva

Date: Oct 7, 2017

Consecutive Stn #: 15

Station Name: S9

Notes: (temperature, wind, barometer, weather, sea-state, etc)

clear sunny  
not windy ~15°C

| EVENT NUMBER | EVENT TYPE | TIME (local, 24h format) | LATITUDE (N) (dd mm.mmm) | LONGITUDE (W) (ddd mm.mmm) | BOTTOM DEPTH (m) | CAST DEPTH (m) | NOTES (e.g. CTD file names, bottle depths, flow meter readings, problems, etc) |
|--------------|------------|--------------------------|--------------------------|----------------------------|------------------|----------------|--------------------------------------------------------------------------------|
| 65           | CTD        | 10:46                    | 48° 51.528               | 123° 35.070                | 190              | 175            | stopped at 165 then continued down to 175                                      |
| 66           | NISK       | 11:14                    | 48° 51.515               | 123° 35.155                | 190              | 150            | 50, 75, 100, 125, 150                                                          |
| 67           | NISK       | 11:43                    | 48° 51.293               | 123° 35.143                | 190              | 40             | 0, 10, 20, 30, 40 m                                                            |
| 68           | Zoop       | 11:58                    | 48° 51.443               | 123° 35.111                | 190              | 100            | Flow meter: 88478 - start.<br>89055 - End                                      |
| 69           | ZOOP       | 12:17                    | 48° 51.313               | 123° 35.131                | 190              | 50             | Flow meter: start - 89055<br>End - 89275                                       |

EVENT NUMBER = each "cast" of equipment is given a new number, sequential from the beginning of the cruise.

EVENT TYPE = CTD, NISK, ZOOP, PHYTO, GRAB

Bottom Depth = depth of water

Cast Depth = deepest depth the equipment reaches

# UVIC OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland Salacia

Collected By: Jess Reid, Georgie Lind

Date: Oct. 2 / 2017

Consecutive Stn #: 16

Station Name: S10

Notes: (temperature, wind, barometer, weather, sea-state, etc)

North wind, drifted quite far.

| EVENT NUMBER | EVENT TYPE | TIME (local, 24h format) | LATITUDE (N) (dd mm.mmm) | LONGITUDE (W) (ddd mm.mmm) | BOTTOM DEPTH (m) | CAST DEPTH (m) | NOTES (e.g. CTD file names, bottle depths, flow meter readings, problems, etc) |
|--------------|------------|--------------------------|--------------------------|----------------------------|------------------|----------------|--------------------------------------------------------------------------------|
| 70           | CTD        | 1300                     | 48° 47.985               | -123° 32.697               | 140m             | 135m           | 13:20 time of sample                                                           |
| 71           | NISK       | 1320                     | 48° 47.885               | -123° 32.507               | 140              | 125            | 50, 75, 100, 125                                                               |
| 72           | NISK       | 1340                     | 48° 47.792               | -123° 32.829               | 140              | 40             | 0, 10, 20, 30, 40                                                              |
| 73           | Zoop       | 1400                     | 48° 47.916               | -123° 32.831               | 140              | 100            | Flow start : 89265<br>end : 89672                                              |
| 74           | Zoop       | 1425                     | 48° 47.746               | -123° 32.717               | 140              | 50             | Flow start : 89672<br>end : 09872<br>* Goopy<br>Hard to Clean                  |

EVENT NUMBER = each "cast" of equipment is given a new number, sequential from the beginning of the cruise.

EVENT TYPE = CTD, NISK, ZOOP, PHYTO, GRAB

Bottom Depth = depth of water

Cast Depth = deepest depth the equipment reaches

→ Bag sample: lost ~ 20 mL

## University of Victoria

Cruise Name: 2017/09

Date: 26/09/17

Station Name: 52

Time: \_\_\_\_\_

Consecutive Station#: 1.

Sampler Names: \_\_\_\_\_

Event Number: 41

Alis,

✓ when sampled

| Niskin Bottle | Desired Depth (m) | Green NO3 | Blue PO4 | Yellow SiO4 | CHL | CHL vol filtered (ml) |
|---------------|-------------------|-----------|----------|-------------|-----|-----------------------|
| 8             |                   |           |          |             |     |                       |
| 7             |                   |           |          |             |     |                       |
| 6             |                   |           |          |             |     |                       |
| 5             | 15m               | ✓         | ✓        | ✓           |     |                       |
| 4             | 100m              | ✓         | ✓        | ✓           |     |                       |
| 3             | 125m              | ✓         | ✓        | ✓           |     |                       |
| 2             | 150m              | ✓         | ✓        | ✓           |     |                       |
| 1             | 200m              | ✓         | ✓        | ✓           |     |                       |

NOTES:

## University of Victoria

Cruise Name: 307-7109

Date: 26/09/17

Station Name: S2

Time: \_\_\_\_\_

Consecutive Station#: 1

Sampler Names: \_\_\_\_\_

Event Number: 45

\_\_\_\_\_

✓ when sampled

| Niskin Bottle   | Desired Depth (m) | Green NO3 | Blue PO4 | Yellow SiO4 | CHL | CHL vol filtered(ml) |
|-----------------|-------------------|-----------|----------|-------------|-----|----------------------|
| 8               |                   |           |          |             |     |                      |
| 7               |                   |           |          |             |     |                      |
| Bucket sample 6 | 0m                | ✓         | ✓        | ✓           | ✓   | 250                  |
| 5               | 50                | ✓         | ✓        | ✓           | ✓   | 250                  |
| 4               | 40                | ✓         | ✓        | ✓           | ✓   | 250                  |
| 3               | 30                | ✓         | ✓        | ✓           | ✓   | 250                  |
| 2               | 20                | ✓         | ✓        | ✓           | ✓   | 250                  |
| 1               | 10                | ✓         | ✓        | ✓           | ✓   | 250                  |

**NOTES:**

NOTES: *Om. 1st 4th*

|               |               |               |               |               |
|---------------|---------------|---------------|---------------|---------------|
| $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ |
|---------------|---------------|---------------|---------------|---------------|

*850*

Water Chemistry Sampling  
University of Victoria

Cruise Name: 201709

Date: 26/9/2017

Station Name: S3

Time: 14:15

Consecutive Station#: 2

Sampler Names: Francheska V.

Event Number: 7

Taylor J., Nick B., Alexa D.

✓ when sampled

| Niskin Bottle | Desired Depth (m) | G<br>NO3 | B<br>PO4 | Y<br>SiO4 | CHL | CHL vol<br>filtered(ml) |
|---------------|-------------------|----------|----------|-----------|-----|-------------------------|
| <del>8</del>  | <del>/</del>      | X        | X        | X         | X   | X                       |
| <del>7</del>  | <del>/</del>      | X        | X        | X         | X   | X                       |
| <del>6</del>  | <del>/</del>      | X        | X        | X         | X   | X                       |
| 5             | 50                | ✓        | ✓        | ✓         | X   | X                       |
| 4             | 75                | ✓        | ✓        | ✓         | X   | X                       |
| 3             | 100               | ✓        | ✓        | ✓         | X   | X                       |
| 2             | 150               | ✓        | ✓        | ✓         | X   | X                       |
| 1             | 200               | ✓        | ✓        | ✓         | X   | X                       |

NOTES: double sampled

Water Chemistry Sampling  
University of Victoria

Cruise Name: 201709

Date: 26/9/2017

Station Name: S3

Time: 14:25

Consecutive Station#: 2

Sampler Names: Francheska V.

Event Number: 8

Taylor J., Alexa D., Nick B.

✓ when sampled

| Niskin Bottle | Desired Depth (m) | G<br>NO3 | B<br>PO4 | Y<br>SiO4 | CHL | CHL vol<br>filtered(ml) |
|---------------|-------------------|----------|----------|-----------|-----|-------------------------|
| 8             | /                 | X        | X        | X         | X   | X                       |
| 7             | /                 | X        | X        | X         | X   | X                       |
| 6             | /                 | X        | X        | X         | X   | X                       |
| 5             | 40                | ✓        | ✓        | ✓         | ✓   | 250                     |
| 4             | 30                | ✓        | ✓        | ✓         | ✓   | 250                     |
| 3             | 20                | ✓        | ✓        | ✓         | ✓   | 250                     |
| 2             | 10                | ✓        | ✓        | ✓         | ✓   | 250                     |
| 1             | 0                 | ✓        | ✓        | ✓         | ✓   | 250                     |

NOTES: Double sampled  
(except CHL)

Water Chemistry Sampling  
University of Victoria

Cruise Name: Solacia Date: 4/27/17  
Station Name: H3 Time: 10:52  
Consecutive Station#: 3 Sampler Names: NO<sub>3</sub>, PO<sub>4</sub>, Si, CHL  
Event Number: 13

✓ when sampled

| Niskin Bottle | Desired Depth (m) | NO <sub>3</sub> | PO <sub>4</sub> | SiO <sub>4</sub> | CHL | CHL vol filtered(ml) |
|---------------|-------------------|-----------------|-----------------|------------------|-----|----------------------|
| 8             |                   |                 |                 |                  |     |                      |
| 7             |                   |                 |                 |                  |     |                      |
| 6             | 40                | /               | /               | /                | /   | 250ml                |
| 5             | 30                | /               | /               | /                | /   | 250ml                |
| 4             | 20                | /               | /               | /                | /   | 250ml                |
| 3             | 10                | /               | /               | /                | /   | 250ml                |
| 2             | 5                 | X               | X               | X                | X   | X                    |
| 1             | 0                 | /               | /               | /                | /   | 250ml                |

NOTES:

kt

5 smoke eng<sup>re</sup> only did 1 chl sample  
5 molting

Water Chemistry Sampling  
University of Victoria

Cruise Name: Solacia Date: 4/27/17  
Station Name: H3 Time: 10:52  
Consecutive Station#: 3 Sampler Names: NO<sub>3</sub>, PO<sub>4</sub>, Si, CHL  
Event Number: 13

✓ when sampled

| Niskin Bottle | Desired Depth (m) | NO <sub>3</sub> | PO <sub>4</sub> | SiO <sub>4</sub> | CHL | CHL vol filtered(ml) |
|---------------|-------------------|-----------------|-----------------|------------------|-----|----------------------|
| 8             |                   |                 |                 |                  |     |                      |
| 7             |                   |                 |                 |                  |     |                      |
| 6             | 40                | /               | /               | /                | /   |                      |
| 5             | 30                | /               | /               | /                | /   |                      |
| 4             | 20                | /               | /               | /                | /   |                      |
| 3             | 10                | /               | /               | /                | /   |                      |
| 2             | 5                 | X               | X               | X                | X   |                      |
| 1             | 0                 | /               | /               | /                | /   |                      |

NOTES:

engine smoked

2nd Replicate

Water Chemistry Sampling  
University of Victoria

Cruise Name: Salacia Date: 9/27/17  
Station Name: H3 Time: 10:11  
Consecutive Station#: 3 Sampler Names: NO<sub>3</sub>  
Event Number: 12 S<sub>i</sub>, PO<sub>4</sub>

✓ when sampled

| Niskin Bottle | Desired Depth (m) | NO <sub>3</sub> | PO <sub>4</sub> | SiO <sub>4</sub> | CHL | CHL vol filtered(ml) |
|---------------|-------------------|-----------------|-----------------|------------------|-----|----------------------|
| 8             | 50                | /               | /               | /                |     |                      |
| 7             | 75                | /               | /               | /                |     |                      |
| 6             | 100               | /               | /               | /                |     |                      |
| 5             | 125               | /               | /               | /                |     |                      |
| 4             | 150               | /               | /               | /                |     |                      |
| 3             |                   |                 |                 |                  |     |                      |
| 2             |                   |                 |                 |                  |     |                      |
| 1             |                   |                 |                 |                  |     |                      |

NOTES:

1st

engine  
not smoking  
too much

Victoria  
Acad  
Rohr  
Neil

Water Chemistry Sampling  
University of Victoria

Cruise Name: Salacia Date: 4/27/13  
Station Name: H3 Time: 10:11  
Consecutive Station#: 3 Sampler Names: NO<sub>3</sub>  
Event Number: 12 PO<sub>4</sub>, Si

✓ when sampled

| Niskin Bottle | Desired Depth (m) | NO <sub>3</sub> | PO <sub>4</sub> | SiO <sub>4</sub> | CHL | CHL vol filtered(ml) |
|---------------|-------------------|-----------------|-----------------|------------------|-----|----------------------|
| 8             | 50                | /               | /               | /                |     |                      |
| 7             | 75                | /               | /               | /                |     |                      |
| 6             | 100               | /               | /               | /                |     |                      |
| 5             | 125               | /               | /               | /                |     |                      |
| 4             | 150               | /               | /               | /                |     |                      |
| 3             |                   |                 |                 |                  |     |                      |
| 2             |                   |                 |                 |                  |     |                      |
| 1             |                   |                 |                 |                  |     |                      |

NOTES:

2nd Replicate

duplicates

Water Chemistry Sampling  
University of Victoria

Cruise Name: salacia

Date: 27/09/17

Station Name: H1

Time: \_\_\_\_\_

Consecutive Station#: 4

Sampler Names: Anne,

Event Number: 17

Kellie, Wylee, Colina

✓ when sampled

| Niskin Bottle | Desired Depth (m) | NO3 | PO4 | SiO4 | CHL | CHL vol filtered(ml) |
|---------------|-------------------|-----|-----|------|-----|----------------------|
| 8             | /                 |     |     |      |     |                      |
| 7             | /                 |     |     |      |     |                      |
| 6             | /                 |     |     |      |     |                      |
| 5             | 50                | ✓   | ✓   | ✓    |     |                      |
| 4             | 75                | ✓   | ✓   | ✓    |     |                      |
| 3             | 100               | ✓   | ✓   | ✓    |     |                      |
| 2             | 150               | ✓   | ✓   | ✓    |     |                      |
| 1             | 200               | ✓   | ✓   | ✓    |     |                      |

NOTES:

Water Chemistry Sampling  
University of Victoria

Cruise Name: Salacia

Date: 27/09/17

Station Name: H1

Time: \_\_\_\_\_

Consecutive Station#: \_\_\_\_\_

Sampler Names: Anne,

Event Number: 18

Kellie, Wylee, Colin

✓ when sampled

| Niskin Bottle | Desired Depth (m) | NO3 | PO4 | SiO4 | CHL | CHL vol filtered(ml) |
|---------------|-------------------|-----|-----|------|-----|----------------------|
| 8             | /                 |     |     |      |     |                      |
| 7             | /                 |     |     |      |     |                      |
| 6             | /                 |     |     |      |     |                      |
| 5             | 0                 | ✓   | ✓   | ✓    | ✓   | 250 x 2<br>500       |
| 4             | 10                | ✓   | ✓   | ✓    | ✓   | 250 + 160<br>410     |
| 3             | 20                | ✓   | ✓   | ✓    | ✓   | 250 + 170<br>420     |
| 2             | 30                | ✓   | ✓   | ✓    | ✓   | 250 + 145<br>395     |
| 1             | 40                | ✓   | ✓   | ✓    | ✓   | 250 + 50<br>300      |

NOTES:

Water Chemistry Sampling  
University of Victoria

Cruise Name: 201709B

Date: Sept. 28 / 17

Station Name: SH

Time: 10:50 am

Consecutive Station#: 5

Sampler Names: Emily Fulton

Event Number: 22

Megan Macdonald, Jing Cai,  
Natacha Jackson-Drew

✓ when sampled

| Niskin Bottle | Desired Depth (m) | green NO3 | blue PO4 | yellow SiO4 | CHL | CHL vol filtered(ml) |
|---------------|-------------------|-----------|----------|-------------|-----|----------------------|
| 8             |                   |           |          |             |     |                      |
| 7             |                   |           |          |             |     |                      |
| 6             |                   |           |          |             |     |                      |
| 5             | 175 m             | ✓✓        | ✓✓       | ✓✓          |     |                      |
| 4             | 150 m             | ✓✓        | ✓✓       | ✓✓          |     |                      |
| 3             | 125 m             | ✓✓        | ✓✓       | ✓✓          |     |                      |
| 2             | 100 m             | ✓✓        | ✓✓       | ✓✓          |     |                      |
| 1             | 75 m              | ✓✓        | ✓✓       | ✓✓          |     |                      |

NOTES:

order sampled : blue, yellow, green

75, 100, 125, 150, 175

Niskin @ 125m smelled like sulfur (others did not)

Water Chemistry Sampling  
University of Victoria

Cruise Name: 201709B

Date: Sept 28 / 17

Station Name: 54

Time: 11:27 am

Consecutive Station#: \_\_\_\_\_

Sampler Names: N. Jackson-D

Event Number: 23

Megan Macdonald, Jing Cai,  
Emily Fulton

✓ when sampled

| Niskin Bottle | Desired Depth (m) | green NO3 | blue PO4 | yellow SiO4 | CHL | CHL vol filtered(ml) |
|---------------|-------------------|-----------|----------|-------------|-----|----------------------|
| 8             |                   |           |          |             |     |                      |
| 7             |                   |           |          |             |     |                      |
| 6             |                   |           |          |             |     |                      |
| 5             | 40                | ✓✓        | ✓✓       | ✓✓          | ✓   | 250 **               |
| 4             | 30                | ✓✓        | ✓✓       | ✓✓          | ✓   | 250 **               |
| 3             | <del>20</del> 20  | ✓✓        | ✓✓       | ✓✓          | ✓   | 250 *                |
| 2             | 10                | ✓✓        | ✓✓       | ✓✓          | ✓   | 250 *                |
| 1             | 0                 | ✓✓        | ✓✓       | ✓✓          | ✓   | 250 *                |

NOTES:

blue, yellow, green, Chlorophyll

(2) 10m Niskin bottle

↳ spout dripping water (litre)

(5) 40m Niskin

↳ dripping "

\* 0, 10 ? 30m

↳ filtered incorrectly: filter paper was  
set into receptical, rather than placed  
under. 250 ml filtered. →

Water Chemistry Sampling  
University of Victoria

Cruise Name: Salacia Date: Sept 28 2017  
Station Name: S11 Time: 2:10  
Consecutive Station#: 26 Sampler Names: Kirstyn Nygren  
Event Number: 27

✓ when sampled

| Niskin Bottle | Desired Depth (m) | G<br>NO3 | B<br>PO4 | Y<br>SiO4 | CHL | CHL vol filtered(ml) |
|---------------|-------------------|----------|----------|-----------|-----|----------------------|
| 8             | 50                | ✓        | ✓        | ✓         |     |                      |
| 7             | 75                | ✓        | ✓        | ✓         |     |                      |
| 6             | 100               | ✓        | ✓        | ✓         |     |                      |
| 5             | 115               | ✓        | ✓        | ✓         |     |                      |
| 4             |                   |          |          |           |     |                      |
| 3             |                   |          |          |           |     |                      |
| 2             |                   |          |          |           |     |                      |
| 1             |                   |          |          |           |     |                      |

NOTES:

Water Chemistry Sampling  
University of Victoria

Cruise Name: Salacia Date: Sept 28 2017  
Station Name: S11 Time: \_\_\_\_\_  
Consecutive Station#: 26 Sampler Names: Kirstyn Nygren  
Event Number: 28

✓ when sampled

| Niskin Bottle | Desired Depth (m) | G<br>NO3 | B<br>PO4 | Y<br>SiO4 | CHL | CHL vol filtered(ml) |
|---------------|-------------------|----------|----------|-----------|-----|----------------------|
| 8             | 0                 | ✓        | ✓        | ✓         | ✓   | 270ml                |
| 7             | 10                | ✓        | ✓        | ✓         | ✓   | 250ml                |
| 6             | 20                | ✓        | ✓        | ✓         | ✓   | 250ml                |
| 5             | 30                | ✓        | ✓        | ✓         | ✓   | 265ml                |
| 4             | 40                | ✓        | ✓        | ✓         | ✓   | 226ml                |
| 3             |                   |          |          |           |     |                      |
| 2             |                   |          |          |           |     |                      |
| 1             |                   |          |          |           |     |                      |

NOTES:

Water Chemistry Sampling  
University of Victoria

Cruise Name: Salacia Date: Sept. 30, 2017  
Station Name: S12 Time: \_\_\_\_\_  
Consecutive Station#: 7 Sampler Names: Brittany  
Event Number: 32 Kai, Grant.

✓ when sampled

| Niskin Bottle | Desired Depth (m) | G<br>NO3 | B<br>PO4 | Y<br>SiO4 | CHL | CHL vol filtered(ml) |
|---------------|-------------------|----------|----------|-----------|-----|----------------------|
| 8             |                   |          |          |           |     |                      |
| 7             |                   |          |          |           |     |                      |
| 6             |                   |          |          |           |     |                      |
| 5             |                   |          |          |           |     |                      |
| 4             |                   |          |          |           |     |                      |
| 3             |                   |          |          |           |     |                      |
| 2             | 50                | ✓        | ✓        | ✓         |     |                      |
| 1             | 75                | ✓        | ✓        | ✓         |     |                      |

NOTES:  
Deep - 50m, 75m  
NO CHL.

Water Chemistry Sampling  
University of Victoria

Cruise Name: Salacia Date: Sept 30  
Station Name: S12 Time: 955  
Consecutive Station#: 7 Sampler Names: Brittany  
Event Number: 33 Kai, Grant

✓ when sampled

| Niskin Bottle | Desired Depth (m) | G<br>NO3 | B<br>PO4 | Y<br>SiO4 | CHL | CHL vol filtered(ml)      |
|---------------|-------------------|----------|----------|-----------|-----|---------------------------|
| / 8           |                   |          |          |           |     |                           |
| 7             |                   |          |          |           |     |                           |
| 6             |                   |          |          |           |     |                           |
| 5             | 0                 | ✓        | ✓        | ✓         |     | <sup>250 212</sup><br>472 |
| 4             | 10                | ✓        | ✓        | ✓         |     | <sup>465</sup><br>465     |
| 3             | 20                | ✓        | ✓        | ✓         |     | <sup>450</sup><br>450     |
| 2             | 30                | ✓        | ✓        | ✓         |     | <del>454</del><br>454     |
| 1             | 40                | ✓        | ✓        | ✓         |     | 451                       |

NOTES:  
Shallow - 0m, 10m, 20m, 30m, 40m

Water Chemistry Sampling  
University of Victoria

Cruise Name: Sabacia

Date: Sept 30/17

Station Name: S5a

Time: 10:57

Consecutive Station#: 8

Sampler Names: \_\_\_\_\_

Event Number: 36

✓ when sampled

| Niskin Bottle | Desired Depth (m) | NO3 | PO4 | SiO4 | CHL | CHL vol filtered(ml) |
|---------------|-------------------|-----|-----|------|-----|----------------------|
| 8             |                   |     |     |      |     |                      |
| 7             |                   |     |     |      |     |                      |
| 6             |                   |     |     |      |     |                      |
| 5             |                   |     |     |      |     |                      |
| 4             |                   |     |     |      |     |                      |
| 3             | 50                | ✓   | ✓   | ✓    |     |                      |
| 2             | 75                | ✓   | ✓   | ✓    |     |                      |
| 1             | 100               | ✓   | ✓   | ✓    |     |                      |

NOTES:



Water Chemistry Sampling  
University of Victoria

Cruise Name: Sabacia

Date: Sept 30/17

Station Name: S5a

Time: 11:25

Consecutive Station#: 8

Sampler Names: \_\_\_\_\_

Event Number: 37

✓ when sampled ✓

| Niskin Bottle | Desired Depth (m) | NO3 | PO4 | SiO4 | CHL | CHL vol filtered(ml) |
|---------------|-------------------|-----|-----|------|-----|----------------------|
| 8             |                   |     |     |      |     |                      |
| 7             |                   |     |     |      |     |                      |
| 6             |                   |     |     |      |     |                      |
| 5             | 0                 | ✓   | ✓   | ✓    | ✓   | 250                  |
| 4             | 10                | ✓   | ✓   | ✓    | ✓   | ↓                    |
| 3             | 20                | ✓   | ✓   | ✓    | ✓   |                      |
| 2             | 30                | ✓   | ✓   | ✓    | ✓   |                      |
| 1             | 40                | ✓   | ✓   | ✓    | ✓   |                      |

NOTES:

Water Chemistry Sampling  
University of Victoria

Cruise Name: Salacia Date: Sept. 30 2017  
Station Name: H2 Time: \_\_\_\_\_  
Consecutive Station#: 9 Sampler Names: \_\_\_\_\_  
Event Number: 41

✓ when sampled

| Niskin Bottle | Desired Depth (m) | NO3 | PO4 | SiO4 | CHL | CHL vol filtered(ml) |
|---------------|-------------------|-----|-----|------|-----|----------------------|
| 8             |                   |     |     |      |     |                      |
| 7             |                   |     |     |      |     |                      |
| 6             |                   |     |     |      |     |                      |
| 5             |                   |     |     |      |     |                      |
| 4             | 50                | ✓✓  | ✓✓  | ✓✓   |     |                      |
| 3             | 75                | ✓✓  | ✓✓  | ✓✓   |     |                      |
| 2             | 100               | ✓✓  | ✓✓  | ✓✓   |     |                      |
| 1             | 125               | ✓✓  | ✓✓  | ✓✓   |     |                      |

NOTES:

Water Chemistry Sampling  
University of Victoria

Cruise Name: Salacia Date: Sept. 30, 2017  
Station Name: H2 Time: \_\_\_\_\_  
Consecutive Station#: 9 Sampler Names: \_\_\_\_\_  
Event Number: 42

✓ when sampled

| Niskin Bottle | Desired Depth (m) | NO3 | PO4 | SiO4 | CHL | CHL vol filtered(ml) |
|---------------|-------------------|-----|-----|------|-----|----------------------|
| 8             |                   |     |     |      |     |                      |
| 7             |                   |     |     |      |     |                      |
| 6             |                   |     |     |      |     |                      |
| 5             | 0                 | ✓✓  | ✓✓  | ✓✓   | ✓   | 250 mL               |
| 4             | 10                | ✓✓  | ✓✓  | ✓✓   | ✓   | 250 mL               |
| 3             | 20                | ✓✓  | ✓✓  | ✓✓   | ✓   | 250 mL               |
| 2             | 30                | ✓✓  | ✓✓  | ✓✓   | ✓   | 250 mL               |
| 1             | 40                | ✓✓  | ✓✓  | ✓✓   | ✓   | 250 mL               |

NOTES:

Water Chemistry Sampling  
University of Victoria

Cruise Name: Salacia Date: 30/09/17  
Station Name: S6 Time: \_\_\_\_\_  
Consecutive Station#: 10 Sampler Names: \_\_\_\_\_  
Event Number: 46

√ when sampled

| Niskin Bottle | Desired Depth (m) | NO3 | PO4 | SiO4 | CHL | CHL vol filtered(ml) |
|---------------|-------------------|-----|-----|------|-----|----------------------|
| 8             |                   |     |     |      |     |                      |
| 7             |                   |     |     |      |     |                      |
| 6             |                   |     |     |      |     |                      |
| 5             |                   |     |     |      |     |                      |
| 4             |                   |     |     |      |     |                      |
| 3             | 50                | ✓   | ✓   | ✓    |     |                      |
| 2             | 75                | ✓   | ✓   | ✓    |     |                      |
| 1             | 100               | ✓   | ✓   | ✓    |     |                      |

NOTES:

Water Chemistry Sampling  
University of Victoria

Cruise Name: \_\_\_\_\_ Date: \_\_\_\_\_  
Station Name: \_\_\_\_\_ Time: \_\_\_\_\_  
Consecutive Station#: 10 Sampler Names: \_\_\_\_\_  
Event Number: 47

√ when sampled

| Niskin Bottle | Desired Depth (m) | NO3 | PO4 | SiO4 | CHL | CHL vol filtered(ml) |
|---------------|-------------------|-----|-----|------|-----|----------------------|
| 8             |                   |     |     |      |     |                      |
| 7             |                   |     |     |      |     |                      |
| 6             |                   |     |     |      |     |                      |
| 5             | 0                 | ✓   | ✓   | ✓    | ✓   | 475                  |
| 4             | 10                | ✓   | ✓   | ✓    | ✓   | 450                  |
| 3             | 20                | ✓   | ✓   | ✓    | ✓   | 415                  |
| 2             | 30                | ✓   | ✓   | ✓    | ✓   | 480                  |
| 1             | 40                | ✓   | ✓   | ✓    | ✓   | 435                  |

NOTES:

Water Chemistry Sampling  
University of Victoria

Cruise Name: Salacia

Date: October 1<sup>st</sup> 2017

Station Name: 88

Time: 9:10 am

Consecutive Station#: 11

Sampler Names: Jesslyn

Event Number: 50

✓ when sampled

| Niskin Bottle | Desired Depth (m) | G<br>NO3 | B<br>PO4 | Y<br>SiO4 | CHL | CHL vol filtered(ml) |
|---------------|-------------------|----------|----------|-----------|-----|----------------------|
| 8             | 0                 | ✓        | ✓        | ✓         | ✓   | 401                  |
| 7             | 10                | ✓        | ✓        | ✓         | ✓   | 525                  |
| 6             | 20                | ✓        | ✓        | ✓         | ✓   | 430                  |
| 5             | 30                | ✓        | ✓        | ✓         | ✓   | 450                  |
| 4             | 40                | ✓        | ✓        | ✓         | ✓   | 320                  |
| 3             | 50                | ✓        | ✓        | ✓         | ✓   |                      |
| 2             | 75                | ✓        | ✓        | ✓         | ✓   |                      |
| 1             |                   |          |          |           |     |                      |

NOTES:

Water Chemistry Sampling  
University of Victoria

Cruise Name: \_\_\_\_\_

Date: \_\_\_\_\_

Station Name: \_\_\_\_\_

Time: \_\_\_\_\_

Consecutive Station#: \_\_\_\_\_

Sampler Names: \_\_\_\_\_

Event Number: \_\_\_\_\_

✓ when sampled

| Niskin Bottle | Desired Depth (m) | NO3 | PO4 | SiO4 | CHL | CHL vol filtered(ml) |
|---------------|-------------------|-----|-----|------|-----|----------------------|
| 8             |                   |     |     |      |     |                      |
| 7             |                   |     |     |      |     |                      |
| 6             |                   |     |     |      |     |                      |
| 5             |                   |     |     |      |     |                      |
| 4             |                   |     |     |      |     |                      |
| 3             |                   |     |     |      |     |                      |
| 2             |                   |     |     |      |     |                      |
| 1             |                   |     |     |      |     |                      |

NOTES:

Water Chemistry Sampling  
University of Victoria

Cruise Name: Salacia Date: Oct. 1, 2017  
Station Name: 55 Time: 10:50  
Consecutive Station#: 12 Sampler Names: Jones,  
Event Number: 53 Michelle, Braonair, Laurer

✓ when sampled

| Niskin Bottle | Desired Depth (m) | NO3 | PO4 | SiO4 | CHL | CHL vol filtered(ml) |
|---------------|-------------------|-----|-----|------|-----|----------------------|
| 8             | 50                | ✓   | ✓   | ✓    |     |                      |
| 7             | 75                | ✓   | ✓   | ✓    |     |                      |
| 6             | 100               | ✓   | ✓   | ✓    |     |                      |
| 5             |                   |     |     |      |     |                      |
| 4             |                   |     |     |      |     |                      |
| 3             |                   |     |     |      |     |                      |
| 2             |                   |     |     |      |     |                      |
| 1             |                   |     |     |      |     |                      |
| NOTES:        |                   |     |     |      |     |                      |

Water Chemistry Sampling  
University of Victoria

Cruise Name: Salacia Date: Oct. 1, 2017  
Station Name: 55 Time: 11:10  
Consecutive Station#: \_\_\_\_\_ Sampler Names: Jones,  
Event Number: 54 Michelle, Braonair, Laurer

blue ✓ when sampled

| Niskin Bottle | Desired Depth (m) | NO3 | PO4 | SiO4 | CHL | CHL vol filtered(ml) |
|---------------|-------------------|-----|-----|------|-----|----------------------|
| ✓ 8           | 0                 | ✓   | ✓   | ✓    | ✓   | 500                  |
| ✓ 7           | 10                | ✓   | ✓   | ✓    | ✓   | 500                  |
| ✓ 6           | 20                | ✓   | ✓   | ✓    | ✓   | 500                  |
| ✓ 5           | 30                | ✓   | ✓   | ✓    | ✓   | 500                  |
| ✓ 4           | 40                | ✓   | ✓   | ✓    | ✓   | 500                  |
| 3             |                   |     |     |      |     |                      |
| 2             |                   |     |     |      |     |                      |
| 1             |                   |     |     |      |     |                      |
| NOTES:        |                   |     |     |      |     |                      |

Water Chemistry Sampling  
University of Victoria

Cruise Name: Salacia Date: Oct 1, 2017  
Station Name: S4.5 Time: 14:31  
Consecutive Station#: 13 Sampler Names: Julia  
Event Number: 57 Sarah Randy

✓ when sampled

| Niskin Bottle | Desired Depth (m) | NO3 | PO4 | SiO4 | CHL | CHL vol filtered(ml) |
|---------------|-------------------|-----|-----|------|-----|----------------------|
| 8             |                   |     |     |      |     |                      |
| 7             |                   |     |     |      |     |                      |
| 6             |                   |     |     |      |     |                      |
| 5             |                   |     |     |      |     |                      |
| 4             | 125               | ✓   | ✓   | ✓    |     |                      |
| 3             | 100               | ✓   | ✓   | ✓    |     |                      |
| 2             | 75                | ✓   | ✓   | ✓    |     |                      |
| 1             | 50                | ✓   | ✓   | ✓    |     |                      |

NOTES: Took duplicates

Water Chemistry Sampling  
University of Victoria

Cruise Name: Salacia Date: Oct 1, 2017  
Station Name: S4.5 Time: 14:21  
Consecutive Station#: 13 Sampler Names: Julia  
Event Number: 58 Sarah Randy

✓ when sampled

| Niskin Bottle | Desired Depth (m) | NO3 | PO4 | SiO4 | CHL | CHL vol filtered(ml) |
|---------------|-------------------|-----|-----|------|-----|----------------------|
| 8             |                   |     |     |      |     |                      |
| 7             |                   |     |     |      |     |                      |
| 6             |                   |     |     |      |     |                      |
| 5             | 0                 | ✓   | ✓   | ✓    | ✓   | 464 mL               |
| 4             | 10                | ✓   | ✓   | ✓    | ✓   | 420 mL               |
| 3             | 20                | ✓   | ✓   | ✓    | ✓   | 415 mL               |
| 2             | 30                | ✓   | ✓   | ✓    | ✓   | 445 mL               |
| 1             | 40                | ✓   | ✓   | ✓    | ✓   | 470 mL               |

NOTES: Took duplicates for nutrients, not chl

Water Chemistry Sampling  
University of Victoria

Cruise Name: 2017096

Date: Oct. 7, 2017

Station Name: S12b

Time: 15:58

Consecutive Station#: 14

Sampler Names: Shelby, Liz,

Event Number: 63

Kelly, Hannah

✓ when sampled

| Niskin Bottle | Desired Depth (m) | green NO3 | blue PO4 | yellow SiO4 | CHL | CHL vol filtered(ml) |
|---------------|-------------------|-----------|----------|-------------|-----|----------------------|
| 8             | 0                 | ✓         | ✓        | ✓           | ✓   | 500                  |
| 7             | 10                | ✓         | ✓        | ✓           | ✓   | 500                  |
| 6             | 20                | ✓         | ✓        | ✓           | ✓   | 500                  |
| 5             | 30                | ✓         | ✓        | ✓           | ✓   | 455                  |
| 4             | 40                | ✓         | ✓        | ✓           | ✓   | 500                  |
| 3             | 50                | ✓         | ✓        | ✓           |     |                      |
| 2             | 75                | ✓         | ✓        | ✓           |     |                      |
| 1             |                   |           |          |             |     |                      |

NOTES:

Water Chemistry Sampling  
University of Victoria

Cruise Name: \_\_\_\_\_

Date: \_\_\_\_\_

Station Name: \_\_\_\_\_

Time: \_\_\_\_\_

Consecutive Station#: \_\_\_\_\_

Sampler Names: \_\_\_\_\_

Event Number: \_\_\_\_\_

✓ when sampled

| Niskin Bottle | Desired Depth (m) | NO3 | PO4 | SiO4 | CHL | CHL vol filtered(ml) |
|---------------|-------------------|-----|-----|------|-----|----------------------|
| 8             |                   |     |     |      |     |                      |
| 7             |                   |     |     |      |     |                      |
| 6             |                   |     |     |      |     |                      |
| 5             |                   |     |     |      |     |                      |
| 4             |                   |     |     |      |     |                      |
| 3             |                   |     |     |      |     |                      |
| 2             |                   |     |     |      |     |                      |
| 1             |                   |     |     |      |     |                      |

NOTES:

Water Chemistry Sampling  
University of Victoria

Cruise Name: 2017-09 Date: Oct. 20, 2017  
Station Name: S9 Time: 12pm  
Consecutive Station#: 1 Sampler Names: Jess,  
Event Number: 66 Reid, George,

✓ when sampled

| Niskin Bottle | Desired Depth (m) | NO3 | PO4 | SiO4 | CHL | CHL vol filtered(ml) |
|---------------|-------------------|-----|-----|------|-----|----------------------|
| 8             |                   |     |     |      |     |                      |
| 7             |                   |     |     |      |     |                      |
| 6             |                   |     |     |      |     |                      |
| 5             | 50                | ✓   | ✓   | ✓    |     |                      |
| 4             | 75                | ✓   | ✓   | ✓    |     |                      |
| 3             | 100               | ✓   | ✓   | ✓    |     |                      |
| 2             | 125               | ✓   | ✓   | ✓    |     |                      |
| 1             | 150               | ✓   | ✓   | ✓    |     |                      |

NOTES:

Water Chemistry Sampling  
University of Victoria

Cruise Name: 2017-09 Date: Oct  
Station Name: S9 Time: 12pm  
Consecutive Station#: 1 Sampler Names: Jess,  
Event Number: 67 Reid, George,

✓ when sampled

| Niskin Bottle | Desired Depth (m) | NO3 | PO4 | SiO4 | CHL | CHL vol filtered(ml) |
|---------------|-------------------|-----|-----|------|-----|----------------------|
| 8             |                   |     |     |      |     |                      |
| 7             |                   |     |     |      |     |                      |
| 6             |                   |     |     |      |     |                      |
| 5             | 0                 | ✓   | ✓   | ✓    | ✓   | 490                  |
| 4             | 10                | ✓   | ✓   | ✓    | ✓   | 500                  |
| 3             | 20                | ✓   | ✓   | ✓    | ✓   | 430                  |
| 2             | 30                | ✓   | ✓   | ✓    | ✓   | 455                  |
| 1             | 40                | ✓   | ✓   | ✓    | ✓   | 475                  |

NOTES:

Water Chemistry Sampling  
University of Victoria

Cruise Name: Salacia

Date: Oct 2, 2017

Station Name: 510

Time: 13:20

Consecutive Station#: 10

Sampler Names: Bryttni,

Event Number: 71

Devon, Joel, Bronwyn

✓ when sampled

| Niskin Bottle | Desired Depth (m) | G<br>NO3 | B<br>PO4 | Y<br>SiO4 | CHL | CHL vol filtered(ml) |
|---------------|-------------------|----------|----------|-----------|-----|----------------------|
| 8             |                   |          |          |           |     |                      |
| 7             |                   |          |          |           |     |                      |
| 6             |                   |          |          |           |     |                      |
| 5             | 50                | ✓        | ✓        | ✓         | ✓   |                      |
| 4             | 75                | ✓        | ✓        | ✓         | ✓   |                      |
| 3             | 100               | ✓        | ✓        | ✓         | ✓   |                      |
| 2             | 125               | ✓        | ✓        | ✓         | ✓   |                      |
| 1             | 150               |          |          |           |     |                      |

NOTES:

Water Chemistry Sampling  
University of Victoria

Cruise Name: Salacia

Date: Oct 2, 2017

Station Name: 510

Time: 13:50

Consecutive Station#: 16

Sampler Names: Bryttni,

Event Number: 72

Devon, Joel, Bronwyn

✓ when sampled

| Niskin Bottle | Desired Depth (m) | G<br>NO3 | B<br>PO4 | Y<br>SiO4 | CHL | CHL vol filtered(ml) |
|---------------|-------------------|----------|----------|-----------|-----|----------------------|
| 8             |                   |          |          |           |     |                      |
| 7             |                   |          |          |           |     |                      |
| 6             |                   |          |          |           |     |                      |
| 5             | 0                 | ✓        | ✓        | ✓         | ✓   | 498 ml               |
| 4             | 10                | ✓        | ✓        | ✓         | ✓   | 500 ml               |
| 3             | 20                | ✓        | ✓        | ✓         | ✓   | 501 ml               |
| 2             | 30                | ✓        | ✓        | ✓         | ✓   | 494 ml               |
| 1             | 40                | ✓        | ✓        | ✓         | ✓   | 495 ml               |

NOTES: