

# DAILY SCIENCE LOG BOOK

MISSION  
NUMBER

2016-09



May  
23-26  
2016

From:

2

to:

Salacia

PROJECT(S):

Strait of Georgia Zooplankton

Water Properties Group  
Fisheries and Oceans Canada  
Institute of Ocean Sciences  
Ocean Sciences Division  
North Saanich, BC, Canada

[WaterProperties.ca](http://WaterProperties.ca)



Steve

SB225 Cast

## DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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| Month <u>May</u> |              | Year <u>2016</u> |              | Ship <u>Salvador</u> |                  | Cruise ID <u>2016-09</u> |                        |            |                 |              |                   |                 |                  |                   |                                               |
|------------------|--------------|------------------|--------------|----------------------|------------------|--------------------------|------------------------|------------|-----------------|--------------|-------------------|-----------------|------------------|-------------------|-----------------------------------------------|
| Day              | Station Name | Time<br>(UTC)    | Time<br>Code | Cast<br>Type         | Firing<br>Method | Event<br>Number          | Positional Information |            | Bottom<br>Depth | Max<br>Depth | Sample<br>Numbers | # of<br>Bottles | Watch<br>Keepers | Trans.<br>Cleaned | Comments                                      |
|                  |              |                  |              |                      |                  |                          | Latitude               | Longitude  |                 |              |                   |                 |                  |                   |                                               |
| 23               | SC04         | 0945             | BE           | CTD                  |                  | 116                      | 48 43.504              | 123 24.891 | 90              | 90           | 42-43             | 2               | SN               | X                 |                                               |
|                  |              | 0948             | BO           |                      |                  |                          | 48 43.507              | 123 24.871 |                 |              |                   |                 | (51)             |                   |                                               |
|                  |              | 0953             | EN           |                      |                  |                          | 48 43.495              | 123 24.830 |                 |              |                   |                 |                  |                   |                                               |
| 23               | SC04         | 1000             | BO           | NET                  |                  | 117                      | 48 43.485              | 123 25.026 | 90              | 90           | -                 | -               | SN               |                   |                                               |
|                  | 59           | 1103             | BE           | CTD                  |                  | 118                      | 48 37.495              | 123 14.213 | 225             | 215          | -                 | -               | (53)             |                   | Scrawled up,<br>forgot to ash -<br>reset - 52 |
|                  |              | 1117             | BO           |                      |                  |                          | 48 37.291              | 123 14.080 |                 |              |                   |                 |                  |                   |                                               |
|                  |              | 1120             | EN           |                      |                  |                          | 48 37.071              | 123 13.913 |                 |              |                   |                 |                  |                   |                                               |
| 23               | 59           | 1141             | BO           | NET                  |                  | 119                      | 48 37.630              | 123 14.609 | 225             | 215          | -                 | -               |                  |                   |                                               |
|                  | 46           | 1350             | BE           | CTD                  |                  | 120                      | 48 51.435              | 123 10.756 | 176             | 166          | -                 | -               | (54)             | X                 |                                               |
|                  |              | 1354             | BO           |                      |                  |                          | 48 51.455              | 123 10.787 |                 |              |                   |                 |                  |                   |                                               |
|                  |              | 1400             | EN           |                      |                  |                          | 48 51.484              | 123 10.761 |                 |              |                   |                 |                  |                   |                                               |
| 27               | 46           | 1414             | BO           | NET                  |                  | 121                      | 48 51.569              | 123 10.744 | 176             | 166          |                   |                 |                  |                   |                                               |
|                  | 41           | 1548             | BE           | CTD                  |                  | 122                      | 49 03.309              | 123 22.483 | 245             | 235          | 44-46             | 2               | (55)             |                   | 44, 45 - 5.0m<br>46 - Salt + 23A m            |
|                  |              | 1552             | BO           |                      |                  |                          | 49 03.319              | 123 22.572 |                 |              |                   |                 |                  |                   | (Salt 2m above)                               |
|                  |              | 1556             | EN           |                      |                  |                          | 49 03.351              | 123 22.612 |                 |              |                   |                 |                  |                   |                                               |
| 23               | 41           | 1620             | BO           | NET                  |                  | 123                      | 49 03.368              | 123 22.320 | 245             | 235          |                   |                 |                  |                   |                                               |
| 23               | GEO2         | 1833             | BE           | CTD                  |                  | 124                      | 49 15.053              | 123 44.501 | 400             | 350          | 47-48             | 2               | (56)             |                   |                                               |
|                  |              | 1842             | BO           |                      |                  |                          | 49 15.124              | 123 44.949 |                 |              |                   |                 |                  |                   |                                               |
|                  |              | 1852             | EN           |                      |                  |                          | 49 15.226              | 123 45.002 |                 |              |                   |                 |                  |                   |                                               |

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\_\_\_ =

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Transmissometer &amp; Fluorometer are to be cleaned before each cast

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 Version: 7 July 2014

- All choto samples 140 ml Filtered to get colour on GFF
- Nothing to clear flows lense
- Wind slowed down, partial stalls on deeper casts (300+m)
- In on Thursday p.m.



W 00-20  
T 07-17  
V 0630-1800  
R 08-

# DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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| Month <u>May</u> |              |            |           | Year <u>2016</u> |               |              | Ship <u>Salcedo</u>    |            |              |           | Cruise ID <u>2016-09</u> |              |               |                |                |
|------------------|--------------|------------|-----------|------------------|---------------|--------------|------------------------|------------|--------------|-----------|--------------------------|--------------|---------------|----------------|----------------|
| Day              | Station Name | Time (UTC) | Time Code | Cast Type        | Firing Method | Event Number | Positional Information |            | Bottom Depth | Max Depth | Sample Numbers           | # of Bottles | Watch Keepers | Trans. Cleaned | Comments       |
|                  |              |            |           |                  |               |              | Latitude               | Longitude  |              |           |                          |              |               |                |                |
| 23               | 6202         | 1912       | BO        | NET              |               | 125          | 49 14.975              | 123 45.021 | 400          | 390       |                          |              | SN            |                |                |
| 24               | CPF2         | 0819       | BE        | CTD              |               | 126          | 49 22.055              | 124 05.207 | 245          | 235       |                          | (57)         |               |                |                |
|                  |              | 0824       | BO        |                  |               |              | 49 22.042              | 124 05.195 |              |           |                          |              |               |                |                |
|                  |              | 0834       | EN        |                  |               |              | 49 22.028              | 124 05.113 |              | 235       |                          |              |               |                |                |
| 24               | CPF2         | 0840       | BO        | NET              |               | 127          | 49 22.013              | 124 05.034 |              | 235       |                          |              |               |                |                |
| 24               | CPF2         | 1045       | BE        | CTD              |               | 128          | 49 27.944              | 124 29.867 | 325          | 315       | 49                       | 1(58)        |               |                | Sal @ 312m x 2 |
|                  |              | 1052       | BO        |                  |               |              | 49 27.903              | 124 29.865 |              |           |                          |              |               |                |                |
|                  |              | 1100       | EN        |                  |               |              | 49 28.045              | 124 30.059 |              |           |                          |              |               |                |                |
| 24               | CPF2         | 1119       | BO        | NET              |               | 129          | 49 28.009              | 124 30.071 | 325          | 315       |                          |              |               |                |                |
| 24               | BS11         | 1241       | BE        | CTD              |               | 130          | 49 29.028              | 124 46.069 |              |           |                          | (59)         |               |                |                |
|                  |              | 1244       | BO        |                  |               |              | 49 29.023              | 124 46.038 |              |           |                          |              |               |                |                |
|                  |              | 1245       | EN        |                  |               |              | 49 29.017              | 124 46.106 |              |           |                          |              |               |                |                |
| 24               | BS11         | 1249       | BO        | NET              |               | 131          | 49 29.013              | 124 46.099 | 58           | 48        |                          |              |               |                |                |
| 24               | "            | 1455       | BE        | CTD              |               | 132          | 49 42.455              | 124 43.329 | 290          | 280       | 50-51                    | 2(60)        |               |                |                |
|                  |              | 1501       | BO        |                  |               |              | 49 42.451              | 124 43.325 |              |           |                          |              |               |                |                |
|                  |              | 1515       | EN        |                  |               |              | 49 42.442              | 124 43.296 |              |           |                          |              |               |                |                |
| 24               | "            | 1522       | BO        | NET              |               | 133          | 49 42.438              | 124 43.287 | 290          | 280       |                          |              |               |                |                |
|                  |              |            |           |                  |               |              |                        |            |              |           |                          |              |               |                |                |
|                  |              |            |           |                  |               |              |                        |            |              |           |                          |              |               |                |                |

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| Month <u>May</u> |              |            |           | Year <u>2016</u> |               |              | Ship <u>Salvador</u>   |            |              | Cruise ID <u>2016-05</u> |                |              |               |                |                  |
|------------------|--------------|------------|-----------|------------------|---------------|--------------|------------------------|------------|--------------|--------------------------|----------------|--------------|---------------|----------------|------------------|
| Day              | Station Name | Time (UTC) | Time Code | Cast Type        | Firing Method | Event Number | Positional Information |            | Bottom Depth | Max Depth                | Sample Numbers | # of Bottles | Watch Keepers | Trans. Cleaned | Comments         |
|                  |              |            |           |                  |               |              | Latitude               | Longitude  |              |                          |                |              |               |                |                  |
| 25               | 22           | 0818       | BE        | CTD              | RE            | 134          | 49 40.261              | 124 16.436 | 353          | 343                      | 52             | 1            | (61)          |                | SalC 341m        |
|                  |              | 0825       | BO        |                  | BO            |              | 49 40.260              | 124 16.442 |              |                          |                |              |               |                |                  |
|                  |              | 0836       | EN        |                  | EN            |              | 49 40.281              | 124 16.407 |              |                          |                |              |               |                |                  |
| 25               | 22           | 0850       | BO        | NET              | BO            | 135          | 49 40.266              | 124 16.386 | 353          | 343                      |                |              |               |                |                  |
| 25               | 24           | 1026       | BE        | CTD              |               | 136          | 49 30.333              | 124 06.051 | 425          | 415                      | —              |              | (62)          |                |                  |
|                  |              | 1033       | BO        |                  |               |              | 49 30.283              | 124 06.109 |              |                          |                |              |               |                |                  |
|                  |              | 1047       | EN        |                  |               |              | 49 30.192              | 124 06.225 |              |                          |                |              |               |                |                  |
| 25               | 24           | 1055       | BO        | NET              |               | 137          | 49 30.228              | 124 06.076 | 425          | 415                      |                |              |               |                |                  |
| 25               | 28           | 1248       | BE        | CTD              |               | 138          | 49 24.145              | 123 45.290 | 134          | 124                      |                |              | (63)          |                |                  |
|                  |              | 1250       | BO        |                  |               |              | 49 24.134              | 123 45.267 |              |                          |                |              |               |                |                  |
|                  |              | 1355       | EN        |                  |               |              | 49 24.115              | 123 45.215 |              |                          |                |              |               |                |                  |
| 25               | 28           | 1259       | BO        | NET              |               | 139          | 49 24.106              | 123 45.137 | 134          | 124                      |                |              |               |                |                  |
| 25               | Halibut      | 1337       | MR        | BOT              |               | 140          | 49 20.362              | 123 43.722 |              |                          | 53-54          | 2            |               |                | skipped split in |
| 25               | 33           | 1507       | BE        | CTD              |               | 141          | 49 12.035              | 123 26.452 | 296          | 286                      |                |              | (64)          |                | 5m bottle        |
|                  |              | 1514       | BO        |                  |               |              | 49 12.130              | 123 26.543 |              |                          |                |              |               |                |                  |
|                  |              | 1524       | EN        |                  |               |              | 49 12.281              | 123 26.598 |              |                          |                |              |               |                |                  |
| 25               | 38           | 1533       | BO        | NET              |               | 142          | 49 12.350              | 123 26.536 | 296          | 286                      |                |              |               |                |                  |
|                  |              |            |           |                  |               |              |                        |            |              |                          |                |              |               |                |                  |
|                  |              |            |           |                  |               |              |                        |            |              |                          |                |              |               |                |                  |

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| Month <u>Mar</u> |              | Year <u>2016</u> |           | Ship <u>Salween</u> |               |              |                        | Cruise ID <u>2016-05</u> |              |           |                |              |               |                |                                       |
|------------------|--------------|------------------|-----------|---------------------|---------------|--------------|------------------------|--------------------------|--------------|-----------|----------------|--------------|---------------|----------------|---------------------------------------|
| Day              | Station Name | Time (UTC)       | Time Code | Cast Type           | Firing Method | Event Number | Positional Information |                          | Bottom Depth | Max Depth | Sample Numbers | # of Bottles | Watch Keepers | Trans. Cleaned | Comments                              |
|                  |              |                  |           |                     |               |              | Latitude               | Longitude                |              |           |                |              |               |                |                                       |
| 25               | 40           | 1643             | BE        | CTD                 |               | 143          | 49 08.639              | 123 36.872               | 146          | 136       | —              | (65)         | 32            | X              | (65) copy                             |
|                  |              | 1646             | BO        |                     |               |              | 49 08.670              | 123 36.903               |              |           |                |              |               |                |                                       |
|                  |              | 1651             | EN        |                     |               |              | 49 08.728              | 123 36.956               |              |           |                |              |               |                |                                       |
| 25               | 40           | 1655             | BO        | NET                 |               | 144          | 49 08.780              | 123 36.981               | 146          | 136       | —              |              |               |                |                                       |
| 26               | CBE2         | 0957             | BE        | CTD                 |               | 145          | 48 44.255              | 123 34.398               | 65           | 55        | —              | (66)         |               |                |                                       |
|                  |              | 0958             | BO        |                     |               |              | 48 44.253              | 123 34.391               |              |           |                |              |               |                |                                       |
|                  |              | 1007             | EN        |                     |               |              | 48 44.250              | 123 34.367               |              |           |                |              |               |                |                                       |
| 26               | CBE2         | 1006             | BO        | NET                 |               | 146          | 48 44.248              | 123 34.354               | 65           | 55        | —              |              |               |                |                                       |
| 26               | 6101         | 1127             | BE        | CTD                 |               | 147          | 48 45.857              | 123 20.576               | 65           | 55        | —              | (67)         |               |                |                                       |
|                  |              | 1128             | BO        |                     |               |              | 48 45.835              | 123 20.550               |              | 55        |                |              |               |                |                                       |
|                  |              | 1130             | EN        |                     |               |              | 48 45.923              | 123 20.598               |              |           |                |              |               |                |                                       |
| 26               | 6101         | 1133             | BO        | NET                 |               | 148          | 48 45.784              | 123 20.603               | 65           | 55        | —              |              |               |                |                                       |
|                  |              |                  |           |                     |               |              |                        |                          |              |           |                |              |               |                | No Sals today - stations too shallow. |
|                  |              |                  |           |                     |               |              |                        |                          |              |           |                |              |               |                |                                       |
|                  |              |                  |           |                     |               |              |                        |                          |              |           |                |              |               |                |                                       |
|                  |              |                  |           |                     |               |              |                        |                          |              |           |                |              |               |                |                                       |
|                  |              |                  |           |                     |               |              |                        |                          |              |           |                |              |               |                |                                       |
|                  |              |                  |           |                     |               |              |                        |                          |              |           |                |              |               |                |                                       |
|                  |              |                  |           |                     |               |              |                        |                          |              |           |                |              |               |                |                                       |
|                  |              |                  |           |                     |               |              |                        |                          |              |           |                |              |               |                |                                       |
|                  |              |                  |           |                     |               |              |                        |                          |              |           |                |              |               |                |                                       |
|                  |              |                  |           |                     |               |              |                        |                          |              |           |                |              |               |                |                                       |
|                  |              |                  |           |                     |               |              |                        |                          |              |           |                |              |               |                |                                       |

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