

# DAILY LOG BOOK

MISSION  
NUMBER

2005-05

DATE:

From: 8 JULY to: 23 JULY 2005

VESSEL:

CCGS "SIR WILFRID LAURIER"

PROJECT:

JWACS-2005

INSTITUTE OF OCEAN SCIENCES  
OCEAN SCIENCES AND PRODUCTIVITY DIVISION  
SIDNEY, BC, CANADA



## DAILY LOG

## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

| Month JULY |              |            |           | Year 2005 |               |              | Ship LAURIER |             |                |                       | Cruise ID 2005-05 |              |               |                |                                                                                |
|------------|--------------|------------|-----------|-----------|---------------|--------------|--------------|-------------|----------------|-----------------------|-------------------|--------------|---------------|----------------|--------------------------------------------------------------------------------|
| Day        | Station Name | Time (UTC) | Time Code | Cast Type | Firing Method | Event Number | Position     |             | Bottom Depth m | Max Depth             | Sample Numbers    | # of Bottles | Watch keepers | Trans. cleaned | Comments                                                                       |
|            |              |            |           |           |               |              | Latitude N   | Longitude W |                |                       |                   |              |               |                |                                                                                |
| 9          | KD-1         | 18:12      | BE        | CTD       | US            | 01           | 57 31.870    | 152 01.375  | 68             | 62                    | #1 @ BOT          | 12           |               |                | #11 Leaks, others fine<br>Sal off scale. Set to 21<br>#11 has nick in top seal |
| 9          | KD-2         | 18:55      | BE        | CTD       | US            | 02           | 57 30.273    | 151 56.893  | 100            | 95                    | #2 BOT            | 2            |               |                | SAL ONLY                                                                       |
| 9          | KD-3         | 19:35      | BE        | CTD       | US            | 03           | 57 28.386    | 151 50.992  | 75             | 68                    | #3 "              | 1            |               |                | SAL                                                                            |
| 9          | KD-4         | 20:22      | BE        | CTD       | US            | 04           | 57 25.872    | 151 42.588  | 67             | 62                    | <del>###</del>    | 0            |               |                | <del>###</del> forgot to trip 6.4H                                             |
| 9          | KD-5         | 21:12      | BE        | CTD       | US            | 05           | 57 23.216    | 151 33.514  | 70             | 65                    | #4 "              | 1            |               |                | SAL                                                                            |
| 9          | KD-6         | 22:04      | BE        | CTD       | US            | 06           | 57 20.570    | 151 24.710  | 141            | 136                   | #5 "              | 1            |               |                | SBE 1st parallel cast<br>SAL on Carousel pane                                  |
| 9          | KD-7         | 22:58      | BE        | CTD       | US            | 07           | 57 17.900    | 151 16.252  | 147            | 140                   | #6 & #7           | 1            |               |                | SBE 1st<br>Sal dupl BOT #1                                                     |
| 10         | KD-8         | 00:05      | BE        | CTD       | US            | 08           | 57 14.012    | 151 03.152  | 126            | <del>118</del><br>118 | #8                | 1            |               |                | SBE 1st<br>Sal BOT #1                                                          |
| 10         | KD-9         | 01:15      | BE        | CTD       | US            | 09           | 57 09.682    | 150 50.186  | 885            | 600                   | #9 & #10          | 1            |               |                | Sal + dupl BOT                                                                 |

## Cast type:

BOT = bottle cast, no CTD  
CTD = CTD without Rosette  
ROS = Rosette plus CTD

## USW = sea water loop

MOR = mooring  
NET = net haul  
DRF = drifter

## bottle firing method:

US = up / stop  
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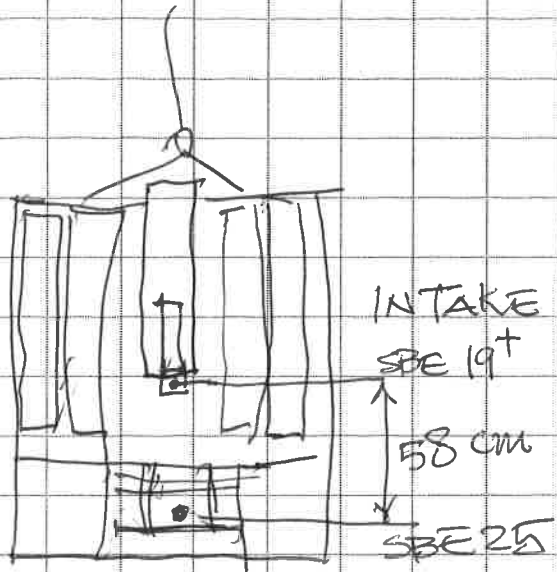
## Time Code

BE = beginning time of cast  
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Transmissometer to be cleaned for each cast, do not use Ammonia products

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| Day        | Station Name | Time (UTC) | Time Code | Cast Type | Firing Method | Event Number | Position     |             | Bottom Depth      | Max Depth | Sample Numbers    | # of Bottles | Watch keepers | Trans. cleaned | Comments                                                   |
|            |              |            |           |           |               |              | Latitude N   | Longitude W |                   |           |                   |              |               |                |                                                            |
| 11         | UN-8         | 21:01      | BE        | CTD       | US            | 10           | 53 38.357    | 163 47.955  | 1750 <sup>7</sup> | 602       | #11 #12 SAL BOT 1 | 12           |               |                | Grill old CON on ACCTD<br>SAL                              |
| 11         | UN-7         | 22:36      | BE        | CTD       | US            | 11           | 53 44.011    | 163 55.850  | 1338 <sup>7</sup> | 600       | #13 - SAL BOT 1   | 7            |               |                | CHL max = 17 m<br>new con incorrect!<br>600-75-50-23-6-5-1 |
| 11         | UN-6         | 23:50      | BE        | CTD       | US            | 12           | 53 48.459    | 164 03.719  | 90                | 85        | #14 SAL BOT 1     | 6            |               |                | 85-50-23-6-5-1                                             |
| 12         | UN-5         | 00:48      | BE        | CTD       | US            | 13           | 53 53.061    | 164 11.717  | 80                | 75        | #15 SAL BOT 1     | 6            |               |                | SAL                                                        |
| 12         | UN-4         | 01:45      | BE        | CTD       | US            | 14           | 53 57.475    | 164 19.851  | 109               | 103       | #16 SAL BOT 1     | 7            |               |                | SAL                                                        |
| 12         | UN-3         | 02:43      | BE        | CTD       | US            | 15           | 54 02.443    | 164 27.892  | 101               | 964       | #17 SAL BOT 1     | 7            |               |                | SAL part missing from valve BOT #8                         |
| 12         | UN-2         | 03:38      | BE        | CTD       | US            | 16           | 54 06.802    | 164 35.712  | 87                | 841       | #18 SAL BOT 1     | 6            |               |                | SAL                                                        |
| 12         | UN-1         | 04:29      | BE        | CTD       | US            | 17           | 54 11.289    | 164 43.752  | 69                | 643       | #19 SAL BOT #1    | 6            |               |                | vents and valves<br>SAL not all closed                     |
|            |              |            |           |           |               |              |              |             |                   |           |                   |              |               |                |                                                            |
|            |              |            |           |           |               |              |              |             |                   |           |                   |              |               |                |                                                            |
|            |              |            |           |           |               |              |              |             |                   |           |                   |              |               |                |                                                            |
|            |              |            |           |           |               |              |              |             |                   |           |                   |              |               |                |                                                            |
|            |              |            |           |           |               |              |              |             |                   |           |                   |              |               |                |                                                            |

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|--------------|-----------------|---------------|--------------|--------------|------------------|-----------------|--------------|-------------|---------------------|--------------|-----------------------------|-----------------|------------------|-------------------|------------------------------------------------------------|
| Day<br>(UTC) | Station<br>Name | Time<br>(UTC) | Time<br>Code | Cast<br>Type | Firing<br>Method | Event<br>Number | Position     |             | Bottom<br>Depth     | Max<br>Depth | Sample<br>Numbers           | # of<br>Bottles | Watch<br>keepers | Trans.<br>cleaned | Comments                                                   |
|              |                 |               |              |              |                  |                 | Latitude N   | Longitude W |                     |              |                             |                 |                  |                   |                                                            |
| 13           | BS-1            | 11:25         | BE           | CTD          | US               | 18              | 56 18.746    | 172 49.436  | 1700?               | 1000         | #20 (SAL BOT 1)             | 11              |                  |                   | pallet jack failed to boot press and SIMRAD does not work! |
| 13           | BS-2            | 12:53         | BE           | CTD          | US               | 19              | 56 25.130    | 172 47.626  | 1400?               | 600          | #21,22 (SAL BOT 1)          | 4               |                  |                   | (SAL > 33.5 for Jackie) 3 BOTTLES. SAL duplicate           |
| 13           | BS-3            | 13:54         | BE           | CTD          | US               | 20              | 56 28.577    | 172 46.806  | 790                 | 600          | #23 SAL BOT #1              | 11              |                  |                   | BOTTLES 2,3 did not trip                                   |
| 13           | BS-4            | 15:02         | BE           | CTD          | US               | 21              | 56 32.751    | 172 45.348  | 240 <sup>257?</sup> | 232          | #24 SAL BOT 1               | 3               |                  |                   | (trip 2,3 to test) - bottles 7,56 also came up tripped     |
| 13           | BS-5            | 15:56         | BE           | CTD          | US               | 22              | 56 38.764    | 172 43.846  | 133                 | 125          | #25-34 (SAL) 6 bottles 1-10 | 10              |                  |                   | SAL test for 10 bottles                                    |
| 14           | BS-6            | 07:42         | BE           | CTD          | US               | 23              | 59 19.226    | 173 29.956  | 109                 | 102          | #35 SAL BOT 2               | 12              |                  |                   |                                                            |
| 15           | SLIP-1          | 00:22         | BE           | CTD          | US               | 24              | 62 00.833    | 175 03.364  | 80                  | 75           | #36 SAL BOT 1               | 12              |                  |                   |                                                            |
| 15           | SLIP-2          | 02:44         | BE           | CTD          | US               | 25              | 62 03.017    | 175 12.313  | 83                  | 74           | #37 SAL BOT #2              | 12              |                  |                   | adduct 5m to tripline (lead ball was swinging)             |
| 15           | SLIP-3          | 07:00         | BE           | CTD          | US               | 26              | 62 23.606    | 174 34.224  | 73                  | 64           | #38 SAL BOT 1               | 11              |                  |                   |                                                            |

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| Day        | Station Name | Time (UTC) | Time Code | Cast Type | Firing Method | Event Number | Position     |            | Bottom Depth | Max Depth | Sample Numbers           | # of Bottles | Watch keepers | Trans. cleaned | Comments |
|            |              |            |           |           |               |              | Latitude     | Longitude  |              |           |                          |              |               |                |          |
| 15         | 04STL-1B     | 13:26      | BE        | CTD       | US            | 27           | 62 11.474    | 174 51.742 | 79           | 73        | <del>SAC #39</del> BOT 1 | 1            |               |                |          |
| 15         | 05BSF-8A     | 15:26      | BE        | CTD       | US            | 28           | 62 11.687    | 174 39.856 | 75           | 68        | #39 BOT 1                | 1            |               |                |          |
| 15         | SLIP-5       | 19:32      | BE        | CTD       | US            | 29           | 62 33.822    | 173 33.256 | 66           | 59        | #40 BOT 1                | 11           |               |                |          |
| 15         | SLIP-4       | 23:16      | BE        | CTD       | US            | 30           | 63 01.728    | 173 27.460 | 73           | 65        | #41 BOT 1                | 12           |               |                |          |
| 16         | BCS-6        | 07:48      | BE        | CTD       | US            | 31           | 64 01.973    | 171 49.951 | 53           | 46        | #42 BOT 1                | 11           |               |                |          |
| 16         | UT-BS5       | 14:10      | BE        | CTD       | US            | 32           | 64 39.994    | 169 55.347 | 48           | 42        | #43 BOT 1                | 9            |               |                |          |
| 16         | UT-BS2       | 17:30      | BE        | CTD       | US            | 33           | 64 40.935    | 169 05.986 | 45           | 38        | #44 BOT 1                | 9            |               |                |          |
| 16         | UT-BS4       | 21:18      | BE        | CTD       | US            | 34           | 64 57.534    | 169 53.112 | 49           | 42        | #45 BOT 1                | 9            |               |                |          |
| 17         | UT-BS1       | 00:36      | BE        | CTD       | US            | 35           | 64 59.507    | 169 08.132 | 49           | 42        | #46 BOT 1                | 10           |               |                |          |
|            |              |            |           |           |               |              |              |            |              |           |                          |              |               |                |          |
|            |              |            |           |           |               |              |              |            |              |           |                          |              |               |                |          |

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| Day        | Station Name | Time (UTC) | Time Code | Cast Type | Firing Method | Event Number | Position     |             | Bottom Depth | Max Depth | Sample Numbers    | # of Bottles | Watch keepers | Trans. cleaned | Comments                                                                                            |
|            |              |            |           |           |               |              | Latitude N   | Longitude W |              |           |                   |              |               |                |                                                                                                     |
| 17         | BRS-0        | 06:57      | BE        | CTD       | ✓             | 36           | 65 43.425    | 168 57.449  | 40           | 33        |                   |              |               |                | off little Dromedary winds to 39 knots                                                              |
| 17         | BRS-1        | 07:22      | BE        | CTD       | US            | 37           | 65 42.989    | 168 53.943  | 49           | 43        | <del>47-54</del>  | 9            |               |                |                                                                                                     |
| 17         | BRS-1a       | 07:57      | BE        | CTD       | *             | 38           | 65 42.572    | 168 50.343  | 51           | 46        |                   |              |               |                | winds ~ 25-28                                                                                       |
| 17         | BRS-1b       | 08:23      | BE        | CTD       | —             | 39           | 65 42.262    | 168 46.659  | 53           | 46        |                   |              |               |                | *GPS did not come up<br>→ used NO NMEA cor                                                          |
| 17         | BRS-2        | 08:43      | BE        | ROS       | US            | 40           | 65 42.012    | 168 42.977  | 52           | 45        | #55-62            | 9            |               |                |                                                                                                     |
| 17         | BRS-2a       | 09:15      | BE        | CTD       | —             | 41           | 65 41.426    | 168 38.659  | 53           | 46        |                   |              |               |                |                                                                                                     |
| 17         | BRS-3        | 09:41      | BE        | ROS       | US            | 42           | 65 40.933    | 168 34.039  | 53           | 47        | #63-71            | 10           |               |                |                                                                                                     |
| 17         | BRS-3a       | 10:31      | BE        | CTD       | —             | 43           | 65 40.422    | 168 28.893  | 55           | 48        |                   |              |               |                | NO GPS! →<br>Swap COM file<br>Swells to 3m,<br>NMEA failing →<br>GPS but then no data<br>— SPIKES — |
| 17         | BRS-4        | 10:56      | BE        | ROS       | US            | 44           | 65 40.127    | 168 24.068  | 53           | 47        | #72-80            | 10           |               |                |                                                                                                     |
| 17         | BRS-4a       | 11:29      | BE        | CTD       | —             | 45           | 65 39.695    | 168 20.192  | 50           | 45?       |                   |              |               |                | no NMEA -                                                                                           |

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| Day        | Station Name | Time (UTC) | Time Code | Cast Type | Firing Method | Event Number | Position  |              | Bottom Depth | Max Depth | Sample Numbers | # of Bottles      | Watch keepers | Trans. cleaned | Comments                                |
|            |              |            |           |           |               |              | Latitude  | Longitude    |              |           |                |                   |               |                |                                         |
| 17         | BRS-4b       | 11:51      | BE        | CTD       | —             | 46           | 65 39.412 | 168 16.363   | 46           | 417       |                |                   |               |                |                                         |
| 17         | BRS-5        | 12:11      | BE        | ROS       | US            | 47           | 65 39.113 | 168 12.990   | 41           | 35        | #81-87         | 8                 |               |                |                                         |
| 17         | BRS-5a       | 12:49      | BE        | CTD       | —             | 48           | 65 38.937 | 168 10.184   | 23           | 17        |                | —                 |               |                |                                         |
| 17         | A4           | 14:58      | BE        | CTD       | —             | 49           | 65 44.683 | 168 15.976   | 49           | 45        |                |                   |               |                | mooring site                            |
| 17         | A2           | 17:44      | BE        | ROS       | US            | 50           | 65 46.731 | 168 34.680   | 57           | 51        | #88 Sal BOT 1  | 2                 |               |                | nuts for Sarah Th. from BOT#1           |
| 18         | A3           | 01:54      | BE        | CTD       | US            | 51           | 66 19.509 | 168 57.764   | 58           | 51        |                |                   |               |                | NOTE BOT#4&5 ALSO CLOSED (WITHOUT TRIP) |
| 18         | a3-2         | 02:41      | BE        | CTD       | US            | 52           | 66 21.390 | 168 48.365   | 57           | 48        |                |                   |               |                |                                         |
| 18         | a3-3a        | 03:08      | BE        | CTD       | US            | 53           | 66 22.073 | 168 43.917   | 49           | 44        | #89 SAL BOT 1  | 1                 |               |                |                                         |
| 18         | a3-3b        | 03:35      | BE        | CTD       | US            | 54           | 66 22.975 | 168 39.669   | 58           | 50        |                |                   |               |                |                                         |
| 18         | a3-4         | 04:16      | BE        | CTD       | US            | 55           | 66 24.377 | 168 29.975   | 55           | 47        |                |                   |               |                |                                         |

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|            |              |            |           |           |               |              | Latitude     | Longitude  |              |           |                   |              |               |                |                                      |
| 18         | a3-5         | 04:57      | BE        | CTD       | US            | 56           | 66 26.100    | 168 18.544 | 48           | 42        | #90 SAL BOT 1     | 1            |               |                |                                      |
| 18         | a3-6         | 05:42      | BE        | CTD       | US            | 57           | 66 28.146    | 168 06.200 | 29           | 22        |                   |              |               |                |                                      |
| 18         | a3-7         | 06:15      | BE        | CTD       | US            | 58           | 66 29.721    | 167 56.911 | 24           | 18        |                   |              |               |                |                                      |
| 18         | a3-8         | 07:03      | BE        | CTD       | US            | 59           | 66 31.788    | 167 42.704 | 25           | 20        | #91 SAL BOT 1     | 1            |               |                |                                      |
| 18         | a3-9         | 08:00      | BE        | CTD       | US            | 60           | 66 34.737    | 167 25.316 | 30           | 25        |                   |              |               |                |                                      |
| 18         | a3-10        | 08:51      | BE        | CTD       | -             | 61           | 66 37.418    | 167 09.234 | 33           | 28        |                   |              |               |                |                                      |
| 18         | a3-11        | 09:45      | BE        | CTD       | -             | 62           | 66 40.022    | 166 51.466 | 34           | 29        |                   |              |               |                | (BOTH 4 TRIPPED WITHOUT BEING FIRED) |
| 18         | UTN-1        | 13:50      | BE        | ROS       | US            | 63           | 66 42.501    | 168 23.895 | 35           | 30        | #92 SAL BOT 1     | 7            |               |                | MUD STN PART PDT                     |
| 18         | UTN-2        | 17:30      | BE        | ROS       | US            | 64           | 67 03.019    | 168 43.885 | 47           | 42        | #93 SAL BOT 1     | 9            |               |                |                                      |
| 18         | UTN-3        | 20:28      | BE        | ROS       | US            | 65           | 67 20.061    | 169 00.003 | 50           | 43        | #94 SAL BOT 1     | 10           |               |                |                                      |

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| Day        | Station Name | Time (UTC) | Time Code | Cast Type             | Firing Method | Event Number | Position     |             | Bottom Depth | Max Depth | Sample Numbers                      | # of Bottles | Watch keepers | Trans. cleaned | Comments                                   |
|            |              |            |           |                       |               |              | Latitude     | Longitude   |              |           |                                     |              |               |                |                                            |
| 18         | UTN-4        | 22:28      | BE        | ROS                   | US            | 66           | 67° 30.065   | 168° 54.604 | 50           | 44        | #95 SAL BOT 1                       | 10           |               |                |                                            |
| 19         | UTN-5        | 00:32      | BE        | ROS                   | US            | 67           | 67 40.222    | 168 57.465  | 51           | 43        | #96 SAL BOT 1                       | 10           |               |                |                                            |
| 19         | UTN-6        | 02:58      | BE        | ROS                   | US            | 68           | 67 44.169    | 168 26.298  | 50           | 44        | #97 SAL BOT 1                       | 10           |               |                |                                            |
| 19         | UTN-7        | 05:53      | BE        | ROS                   | US            | 69           | 67 59.944    | 168 56.009  | 58           | 51        | #98 SAL BOT 1                       | 12           |               |                |                                            |
| 19         | ph-1         | 07:42      | BE        | CTD                   | -             | 70           | 68 02.617    | 168 39.487  | 60           | 55        | -                                   | 0            |               |                | Calm -                                     |
| 19         | ph-2         | 08:38      | BE        | CTD                   | -             | 71           | 68 05.208    | 168 21.617  | 60           | 55        | -                                   | 0            |               |                |                                            |
| 19         | ph-3         | 09:29      | BE        | <del>CTD</del><br>RED | <del>US</del> | 72           | 68 07.806    | 168 05.837  | 55           | 50        | <del>#99</del> <del>SAL BOT 1</del> | 0            |               |                |                                            |
| 19         | ph-4         | 10:21      | BE        | ROS                   | US            | 73           | 68 10.412    | 167 49.043  | 54           | 48        | #99 SAL BOT 1                       | 1            |               |                | Sal sample only                            |
| 19         | ph-5         | 11:12      | BE        | CTD                   | -             | 74           | 68 13.000    | 167 32.263  | 49           | 44        | -                                   | 0            |               |                |                                            |
| 19         | ph-6         | 12:02      | BE        | CTD                   | -             | 75           | 68 15.587    | 167 15.434  | 46           | 41        | -                                   | 0            |               |                | (Start data stream by on/off deck unit...) |

Cast type:

BOT = bottle cast, no CTD  
 CTD = CTD without Rosette  
 ROS = Rosette plus CTD

USW = sea water loop  
 MOR = mooring  
 NET = net haul  
 DRF = drifter

bottle firing method:

US = up / stop  
 UN = up / no stop  
 DN = down / no stop

Time Code

BE = beginning time of cast  
 BO = bottom time of cast  
 EN = end time of cast

DE = deployment time  
 MR = messenger release time  
 RE = recover mooring time

Transmissometer to be cleaned for each cast, do not use Ammonia products

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## DAILY LOG

## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

| Month |              | JULY       |           | Year      |               | 2005         |                  | Ship                 |               | LAURIER   |                | Cruise ID    |               | 2005-05        |                                 |
|-------|--------------|------------|-----------|-----------|---------------|--------------|------------------|----------------------|---------------|-----------|----------------|--------------|---------------|----------------|---------------------------------|
| Day   | Station Name | Time (UTC) | Time Code | Cast Type | Firing Method | Event Number | Position         |                      | Bottom Depth  | Max Depth | Sample Numbers | # of Bottles | Watch keepers | Trans. cleaned | Comments                        |
|       |              |            |           |           |               |              | Latitude         | Longitude            |               |           |                |              |               |                |                                 |
| 19    | ph-7         | 12:59      | BE        | ROS       | US            | 76           | 68 17.626        | 166 59.587           | 37            | 32        | #100 SAL BOT 1 | 1            |               |                |                                 |
| 19    | ph-8         | 13:21      | BE<br>EN  | CTD       | -             | 77           | 68 18.291<br>299 | 166 55.895<br>56.022 | 34            | 29        |                | 0            |               |                |                                 |
| 19    | cpl-0        | 17:41      | BE        | CTD       | -             | 78           | 68 53.126        | 166 15.532           | 18            | 16        |                | 0            |               |                | Shorter bottom wire (5m only)   |
| 19    | cpl-1        | 18:03      | BE        | CTD       | -             | 79           | 68 54.200        | 166 19.878           | 28            | 25        |                | 0            |               |                | weight swinging too much!       |
| 19    | cpl-2        | 18:27      | BE        | CTD       | -             | 80           | 68 55.869        | 166 26.226           | 34            | 29        |                | 0            |               |                | ↓<br>lengthen bottom wire -     |
| 19    | cpl-3        | 19:04      | BE        | CTD       | -             | 81           | 68 58.521        | 166 37.895           | 40            | 34        |                | 0            |               |                |                                 |
| 19    | cpl-4        | 19:46      | BE        | ROS       | US            | 82           | 69 01.518        | 166 51.105           | 45            | 39        | #101 SAL BOT 1 | 1            |               |                | tripped Bot 1, Bot 4 also fired |
| 19    | cpl-5        | 21:14      | BE        | CTD       | -             | 83           | 69 05.918        | 167 11.882           | 49            | 45        |                | 0            |               |                |                                 |
| 19    | cpl-6        | 22:41      | BE        | CTD       | -             | 84           | 69 12.950        | 167 42.075           | 51<br>↓<br>46 | 46        |                | 0            |               |                |                                 |
| 20    | BD-6         | 03:14      | BE        | ROS       | US            | 85           | 69 11.851        | 166 08.996           | 31            | 25        | #102 SAL BOT 1 | 6            |               |                |                                 |

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INSTITUTE OF OCEAN SCIENCES

[illegible]

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