

**CMORE/HOE-BOE-2c**  
**KM 1413**  
**EVENT LOG (ALL TIMES: HST)**

**TYPE CODE:** ST=Sed. Trap, MST=MacLane Sed. Trap, MP= MacLane Pumps, Net=Net, CTD=CTD, OP=Optics, HP=Hyperpro, GO=Go-Flo/Niskin, DP=Diaphragm Pump, VMP=VMP

| Event # | Date (HST) | Time Start | Time End | Latitude  | Longitude  | Type | Cast # | Cast Depth | Comments                           |
|---------|------------|------------|----------|-----------|------------|------|--------|------------|------------------------------------|
| 1       | 6/16/14    | 21:19      | 21:22    | 21 53.5   | 158 26.9   | ST   | 1      | -          | Recovery – lost array below floats |
| 2       | 6/16/14    | 03:04      | 04:10    | 22 47.635 | 158 02.967 | MST  | 1      | -          | DEPLOY                             |
| 3       | 6/17/14    | 03:06      | 04:34    | 22 49.065 | 158 00.352 | OP   | 1      | 200        |                                    |
| 4       | 6/17/14    | 05:15      | 06:15    | 22 47.756 | 158 02.358 | CTD  | 1      | 500        |                                    |
| 5       | 6/17/14    | 06:37      | 08:57    | 22 47.456 | 158 02.234 | VMP  | 1      | 380        |                                    |
| 6       | 6/17/14    | 09:25      | 10:01    | 22 46.877 | 158 01.414 | CTD  | 2      | 500        |                                    |
| 7       | 6/17/14    | 11:10      | 11:47    | 22 49.3   | 158 02.2   | NET  | 1      | -          |                                    |
| 8       | 6/17/14    | 12:12      | 13:26    | 22 49.5   | 158 01.8   | DP   | 1      | 50         | 74mins                             |
| 9       | 6/17/14    | 13:37      | 14:22    | 22 49.511 | 158 01.794 | CTD  | 3      | 1000       |                                    |
| 10      | 6/17/14    | 14:38      | 15:24    | 22 49.480 | 158 01.786 | VMP  | 2      | 350        |                                    |
| 11      | 6/17/14    | 15:43      | 16:16    | 22 49.679 | 158 01.334 | CTD  | 4      | 500        |                                    |
| 12      | 6/17/14    | 16:41      | 18:48    | 22 49.6   | 158 01.3   | MP   | 2      | -          |                                    |
| 13      | 6/17/14    | 19:15      | 19:59    | 22 48.845 | 158 01.101 | CTD  | 5      | 500        |                                    |
| 14      | 6/17/14    | 21:55      | 22:49    | 22 46.0   | 157 59.818 | CTD  | 6      | 500        |                                    |
| 15      | 6/17/14    | 23:33      | 00:05    | 22 42.3   | 157 59.9   | NET  | 2      | -          |                                    |
| 16      | 6/17/14    | 01:00      | 01:36    | 22 40.488 | 158 00.011 | CTD  | 7      | 500        |                                    |
| 17      | 6/18/14    | 02:10      | 02:54    | 22 40.472 | 158 00.007 | VMP  | 3      | 350        |                                    |
| 18      | 6/18/14    | 04:59      | 05:45    | 22 40.534 | 157 59.812 | CTD  | 8      | 500        |                                    |
| 19      | 6/18/14    | 06:00      | 07:53    | 22 40.522 | 157 59.807 | MP   | 1      | -          |                                    |
| 20      | 6/18/14    | 08:03      | 08:51    | 22 40.606 | 157 59.833 | VMP  | 4      | 350        |                                    |

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|---------|------------|------------|----------|-----------|------------|------|--------|------------|-----------------------------------|
| 21      | 6/18/14    | 09:09      | 09:45    | 22 40.472 | 157 59.454 | CTD  | 9      | 500        | S2C09                             |
| 22      | 6/18/14    | 10:43      | 11:41    | 22 46.727 | 158 04.237 | VMP  | 5      | 380        |                                   |
| 23      | 6/18/14    | 12:05      | 13:08    | 22 40.3   | 157 59.5   | DP   | 2      | 50         | 63mins                            |
| 24      | 6/18/14    | 13:22      | 14:10    | 22 40.197 | 157 59.479 | CTD  | 10     | 1000       | S2C10                             |
| 25      | 6/18/14    | 14:29      | 15:03    | 22 40.289 | 157 59.475 | HP   | 1      | -          |                                   |
| 26      | 6/18/14    | 15:10      | 16:00    | 22 40.308 | 157 59.150 | VMP  | 6      | 380        |                                   |
| 27      | 6/18/14    | 16:15      | 18:10    | 22 40.1   | 157 58.5   | MP   | 3      | -          |                                   |
| 28      | 6/18/14    | 18:19      | 18:53    | 22 40.001 | 157 58.498 | CTD  | 11     | 500        | S2C11                             |
| 29      | 6/18/14    | 20:15      | 21:43    | 22 40.5   | 158 00.3   | OP   | 2      | 200        |                                   |
| 30      | 6/18/14    | 22:02      | 22:42    | 22 40.431 | 158 00.309 | CTD  | 12     | 500        | S2C12                             |
| 31      | 6/19/14    | 01:00      | 01:35    | 22 40.415 | 158 00.330 | CTD  | 13     | 500        | S2C13 New Confile after this cast |
| 32      | 6/19/14    | 02:00      | 02:54    | 22 40.395 | 158 00.322 | VMP  | 7      | 380        |                                   |
| 33      | 6/19/14    | 03:06      | 04:38    | 22 40.418 | 157 59.919 | OP   | 3      | 200        |                                   |
| 34      | 6/19/14    | 04:57      | 05:28    | 22 40.267 | 157 59.827 | CTD  | 14     | 500        | S2C14                             |
| 35      | 6/19/14    | 06:20      | 08:42    | 22 40.366 | 158 00.132 | VMP  | 8      | 350        |                                   |
| 36      | 6/19/14    | 09:11      | 09:43    | 22 40.336 | 157 58.735 | CTD  | 15     | 500        | S2C15                             |
| 37      | 6/19/14    | 11:00      | 11:35    | 22 40.489 | 158 00.392 | NET  | 3      | -          |                                   |
| 38      | 6/19/14    | 12:02      | 12:57    | 22 40.5   | 158 00.5   | DP   | 3      | 50         | 56mins                            |
| 39      | 6/19/14    | 13:12      | 13:56    | 22 40.550 | 158 00.475 | CTD  | 16     | 1000       | S2C16                             |
| 40      | 6/19/14    | 14:57      | 15:49    | 22 40.536 | 158 00.466 | VMP  | 9      | 380        |                                   |

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|---------|------------|------------|----------|-----------|------------|------|--------|------------|------------------------------------|
| 41      | 6/19/14    | 16:04      | 18:04    | 22 40.648 | 158 00.028 | MP   | 4      | -          |                                    |
| 42      | 6/19/14    | 18:05      | 18:59    | 22 40.471 | 157 59.815 | CTD  | 17     | 500        | S2C17                              |
| 43      | 6/19/14    | 19:22      | 20:53    | 22 40.398 | 157 59.776 | OP   | 4      | 200        |                                    |
| 44      | 6/19/14    | 21:04      | 21:47    | 22 40.387 | 157 59.769 | CTD  | 18     | 500        | S2C18                              |
| 45      | 6/20/14    | 23:05      | 23:37    | 22 40.5   | 158 00.4   | NET  | 4      | -          |                                    |
| 46      | 6/20/14    | 01:00      | 01:37    | 22 40.583 | 158 00.380 | CTD  | 19     | 500        | S2C19 – Logged 100m of upcast only |
| 47      | 6/20/14    | 02:04      | 02:51    | 22 40.612 | 158 00.414 | VMP  | 10     | 380        |                                    |
| 48      | 6/20/14    | 03:07      | 04:37    | 22 40.788 | 158 00.069 | OP   | 5      | 200        |                                    |
| 49      | 6/20/14    | 04:57      | 05:26    | 22 40.733 | 158 00.004 | CTD  | 20     | 500        | S2C20                              |
| 50      | 6/20/14    | 05:59      | 08:03    | 22 40.720 | 157 59.988 | MP   | 5      |            |                                    |
| 51      | 6/20/14    | 08:12      | 09:06    | 22 40.756 | 158 00.045 | VMP  | 11     | 380        |                                    |
| 52      | 6/20/14    | 09:20      | 09:50    | 22 41.024 | 157 59.754 | CTD  | 21     | 500        | S2C21                              |
| 53      | 6/20/14    | 11:02      | 11:40    | 22 40.3   | 157 59.417 | VMP  | 12     | 380        |                                    |
| 54      | 6/20/14    | 12:00      | 13:00    | 22 40.3   | 157 59.1   | DP   | 4      | 50         | 60 mins                            |
| 55      | 6/20/14    | 13:12      | 14:00    | 22 40.268 | 157 59.156 | CTD  | 22     | 1000       | S2C22                              |
| 56      | 6/20/14    | 14:15      | 14:58    | 22 40.3   | 157 59.1   | HP   | 2      | -          |                                    |
| 57      | 6/20/14    | 15:10      | 16:04    | 22 40.566 | 157 58.846 | VMP  | 13     | 380        |                                    |
| 58      | 6/20/14    | 16:10      | 18:08    | 22 40.7   | 157 58.5   | MP   | 6      | -          |                                    |
| 59      | 6/20/14    | 18:27      | 19:10    | 22 40.599 | 157 58.371 | CTD  | 23     | 500        | S2C23                              |
| 60      | 6/20/14    | 19:23      | 20:30    | 22 40.549 | 157 58.332 | OP   | 6      | 200        |                                    |

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|---------|------------|------------|----------|-----------|-------------|------|--------|------------|--------------------|
| 61      | 6/20/14    | 21:19      | 22:27    | 22 40.489 | 158 00.039  | CTD  | 24     | 500        | S2C24              |
| 62      | 6/21/14    | 01:01      | 01:32    | 22 40.463 | 158 00.008  | CTD  | 25     | 500        | S2C25              |
| 63      | 6/21/14    | 02:02      | 02:53    | 22 40.471 | 158 00.020  | VMP  | 14     | 380        |                    |
| 64      | 6/21/14    | 03:00      | 04:29    | 22 40.829 | 157 59.805  | OP   | 7      | 200        |                    |
| 65      | 6/21/14    | 05:05      | 05:36    | 22 40.790 | 157 59.774  | CTD  | 26     | 500        | S2C26              |
| 66      | 6/21/14    | 05:53      | 08:42    | 22 40.752 | 157 59.739  | VMP  | 15     | 380        |                    |
| 67      | 6/21/14    | 09:05      | 09:39    | 22 41.531 | 157 58.741  | CTD  | 27     | 500        | S2C27              |
| 68      | 6/21/14    | 11:55      | 12:50    | 20 40.5   | 158 00.0    | DP   | 5      | 50         | 55mins             |
| 69      | 6/21/14    | 13:03      | 13:52    | 22 40.411 | 158 00.028  | CTD  | 28     | 1000       | S2C28              |
| 70      | 6/21/14    | 14:57      | 15:19    | 22 40.439 | 157 59.987  | VMP  | 16     | 380        |                    |
| 71      | 6/21/14    | 15:39      | 16:09    | 22 40.610 | 157 59.859  | CTD  | 29     | 500        | S2C29              |
| 72      | 6/21/14    | 16:21      | 18:25    | 22 40.5   | 157 59.59.8 | MP   | 7      | -          |                    |
| 73      | 6/21/14    | 18:41      | 19:24    | 22 40.480 | 157 59.795  | CTD  | 30     | 500        | S2C30              |
| 74      | 6/21/14    | 19:41      | 02:47    | 22 40.497 | 157 59.807  | OP   | 8      | 200        |                    |
| 75      | 6/21/14    | 22:06      | 22:24    | 22 40.419 | 158 00.065  | CTD  | 31     | 500        | S2C31              |
| 76      | 6/22/14    | 01:08      | 01:37    | 22 40.326 | 157 59.994  | CTD  | 32     | 500        | S2C32              |
| 77      | 6/22/14    | 02:53      | 03:58    | 22 40.343 | 158 00.020  | OP   | 9      | 200        |                    |
| 78      | 6/22/14    | 04:32      | 04:37    | 22 40.229 | 157 59.877  | Nisk | 1      | 25         |                    |
| 79      | 6/22/14    | 04:53      | 05:08    | 22 40.209 | 157 59.843  | VMP  | 17     | 380        |                    |
| 80      | 6/22/14    |            | 12:00    |           |             |      |        |            | MED EVAC - Haleiwa |

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|---------|------------|------------|----------|-----------|------------|--------|--------|------------|----------|
| 81      | 6/22/14    | 14:10      | 14:29    | 21 57.128 | 157 59.294 | CTD    | -      | 80         | S3C01    |
| 82      | 6/22/14    | 14:30      | 14:39    | 21 57.1   | 157 59.3   | bucket | 1      | -          |          |
| 83      | 6/22/14    |            | 17:09    | 22 13.8   | 157 55.3   | ST     | 1      | -          | RECOVERY |
| 84      | 6/22/14    | 20:00      | 21:29    | 22 41.0   | 157 59.9   | OP     | 10     | 200        |          |
| 85      | 6/22/14    | 21:41      | 22:18    | 22 41.020 | 157 59.991 | CTD    | 33     | 500        | S2C33    |
| 86      | 6/22/14    | 01:06      | 01:34    | 22 41.008 | 157 59.998 | CTD    | 34     | 500        | S2C34    |
| 87      | 6/22/14    | 03:00      | 04:30    | 22 41.009 | 158 00.022 | OP     | 11     | 200        |          |
| 88      | 6/22/14    | 05:00      | 05:34    | 22 40.867 | 157 59.948 | CTD    | 35     | 500        | S2C35    |
| 89      | 6/22/14    | 08:53      | 09:21    | 22 40.878 | 158 0.007  | CTD    | 36     | 500        | S2C36    |
| 90      | 6/22/14    | 10:30      | 11:01    | 22 40.839 | 157 59.986 | Net    | 5      | -          |          |
| 91      | 6/22/14    | 12:00      | 12:56    | 22 41.0   | 157 59.6   | DP     | 6      | 50         | 56mins   |
| 92      | 6/22/14    | 13:07      | 14:00    | 22 40.979 | 157 59.648 | CTD    | 37     | 1000       | S2C37    |
| 93      | 6/22/14    | 14:28      | 14:50    | 22 41.0   | 157 59.6   | HP     | 3      | -          |          |
| 94      | 6/22/14    | 16:21      | 18:25    | 22 39.5   | 158 00.1   | MP     | 8      | -          |          |
| 95      | 6/22/14    | 18:52      | 19:27    | 22 40.878 | 157 59.970 | CTD    | 38     | 500        | S2C38    |
| 96      | 6/22/14    | 19:47      | 21:16    | 22 40.881 | 158 59.978 | OP     | 12     | 200        |          |
| 97      | 6/22/14    | 21:30      | 22:04    | 22 40.899 | 158 00.026 | CTD    | 39     | 500        | S2C39    |
| 98      | 6/22/14    | 22:50      | 23:11    | 22 40.9   | 158 00.1   | Net    | 5      | -          |          |
| 99      | 6/24/14    | 01:08      | 01:42    | 22 40.867 | 157 59.984 | CTD    | 40     | 500        | S2C40    |
| 100     | 6/24/14    | 03:10      | 04:39    | 22 40.882 | 157 59.964 | OP     | 13     | 200        |          |

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|---------|------------|------------|----------|-----------|------------|------|--------|------------|----------|
| 101     | 6/24/14    | 05:00      | 05:32    | 22 40.830 | 157 59.915 | CTD  | 41     | 500        | S2C41    |
| 102     | 6/24/14    | 05:56      | 08:06    | 22 40.793 | 157 59.870 | MP   | 9      | -          |          |
| 103     | 6/24/14    | 09:09      | 09:47    | 22 40.850 | 157 59.927 | CTD  | 42     | 500        | S2C42    |
| 104     | 6/24/14    | 11:33      | 11:51    | 22 40.4   | 158 00.0   | Net  | 6      | -          |          |
| 105     | 6/24/14    | 12:06      | 13:01    | 22 40.5   | 158 00.0   | DP   | 7      | 50         | 55mins   |
| 106     | 6/24/14    | 12:53      | 12:57    | 22 40.5   | 158 00.0   | Nisk | 5      | 5          |          |
| 107     | 6/24/14    | 13:24      | 14:14    | 22 40.516 | 158 0.005  | CTD  | 43     | 1000       | S2C43    |
| 108     | 6/24/14    | 14:30      | 15:13    | 22 40.6   | 157 59.8   | HP   | 4      | -          |          |
| 109     | 6/24/14    | 16:01      | 18:05    | 22 39.9   | 158 00.0   | MP   | 10     | -          |          |
| 110     | 6/24/14    | 18:17      | 18:49    | 22 39.940 | 158 0.031  | CTD  | 44     | 500        | S2C44    |
| 111     | 6/24/14    | 19:10      | 20:40    | 22 40.0   | 158 00.1   | OP   | 14     | 200        |          |
| 112     | 6/24/14    | 21:08      | 21:43    | 22 39.902 | 157 59.992 | CTD  | 45     | 500        | S2C45    |
| 113     | 6/24/14    | 22:33      | 22:53    | 22 40.0   | 157 59.9   | Net  | 7      | -          |          |
| 114     | 6/25/14    | 00:54      | 01:29    | 22 40.332 | 157 59.975 | CTD  | 46     | 500        | S2C46    |
| 115     | 6/25/14    | 03:10      | 04:38    | 22 40.341 | 158 0.020  | OP   | 15     | 200        |          |
| 116     | 6/25/14    | 06:02      | 06:41    | 22 40.356 | 158 0.059  | CTD  | 47     | 500        | S2C47    |
| 117     | 6/25/14    | 08:57      | 09:33    | 22 40.452 | 158 0.078  | CTD  | 48     | 500        | S2C48    |
| 118     | 6/25/14    | 11:56      | 12:45    | 22 40.3   | 158 00.0   | DP   | 8      | 50         | 49 mins  |
| 119     | 6/25/14    | 13:00      | 14:08    | 22 40.283 | 157 59.969 | CTD  | 49     | 500        | S2C49    |
| 120     | 6/25/14    | 14:20      | 15:07    | 22 40.3   | 158 00.0   | HP   | 5      | -          |          |

