

# R/V Thompson RCA-001 Cruise TN-407 - CTD Cast Log

Station: Slope Base Junction Box LJO1A

Cast #/Filename: R22082001ROV

Date (Local): 9 Aug 2022

Cable Rate Out m/min: \_\_\_\_\_

Start Time (Local/GMT): \_\_\_\_\_

End Time (Local/GMT): \_\_\_\_\_

Start Lat/Long: \_\_\_\_\_

End Lat/Long: \_\_\_\_\_

Surface Soak Time (mins @ m): \_\_\_\_\_

Max Cable Out (m): \_\_\_\_\_

Max Cast Depth (m): \_\_\_\_\_

Chlorophyll Max Depth (m): \_\_\_\_\_

Bottom Depth (m): \_\_\_\_\_

Sampling Start/End (Local): \_\_\_\_\_

| Niskin Bottle # | Target Depth (m) | Actual Depth (m)                          | Oxygen    | DIC | Nutrients | Salinity | Chlorophyll | Notes     |
|-----------------|------------------|---|-----------|-----|-----------|----------|-------------|-----------|
| 1               |                  |   | 361.36211 |     |           |          |             | PORT FORE |
| 2               |                  |   |           |     |           | 121      | 938         | PORT AFT  |
| 3               |                  |   |           |     |           |          |             |           |
| 4               |                  |   |           |     |           |          |             |           |
| 5               |                  |   |           |     |           |          |             |           |
| 6               |                  |   |           |     |           |          |             |           |
| 7               |                  |   |           |     |           |          |             |           |
| 8               |                  |   |           |     |           |          |             |           |
| 9               |                  |   |           |     |           |          |             |           |
| 10              |                  | port fore bottle leaking when vent opened |           |     |           |          |             |           |
| 11              |                  |   |           |     |           |          |             |           |
| 12              |                  |   |           |     |           |          |             |           |
| 13              |                  |   |           |     |           |          |             |           |
| 14              |                  |   |           |     |           |          |             |           |
| 15              |                  |   |           |     |           |          |             |           |
| 16              |                  |   |           |     |           |          |             |           |
| 17              |                  |   |           |     |           |          |             |           |
| 18              |                  |   |           |     |           |          |             |           |
| 19              |                  |   |           |     |           |          |             |           |
| 20              |                  |   |           |     |           |          |             |           |
| 21              |                  |   |           |     |           |          |             |           |
| 22              |                  |   |           |     |           |          |             |           |
| 23              |                  |   |           |     |           |          |             |           |
| 24              |                  |   |           |     |           |          |             |           |

COMMENTS:

# R/V Thompson RCA-OOI Cruise TN-407 - CTD Cast Log

Station: Oregon Off shore Shallow Perchlee - Per Recovery Cast #/Filename: R2204  
 Date (Local): Aug 10, 2022 Cable Rate Out m/min: \_\_\_\_\_  
 Start Time (Local/GMT): \_\_\_\_\_ End Time (Local/GMT): \_\_\_\_\_  
 Start Lat/Long: \_\_\_\_\_ End Lat/Long: \_\_\_\_\_  
 Surface Soak Time (mins @ m): \_\_\_\_\_ Max Cable Out (m): \_\_\_\_\_  
 Max Cast Depth (m): \_\_\_\_\_ Chlorophyll Max Depth (m): \_\_\_\_\_  
 Bottom Depth (m): \_\_\_\_\_ Sampling Start/End (Local): \_\_\_\_\_

| Niskin Bottle # | Target Depth (m) | Actual Depth (m) | Oxygen   | DIC   | Nutrients | Salinity | Chlorophyll | Notes               |
|-----------------|------------------|------------------|----------|-------|-----------|----------|-------------|---------------------|
| 1               |                  | 2899             | 363304.0 | 152.0 |           |          |             | port fore collected |
| 2               |                  | 2899             |          |       | 1344.0    | 122.0    | 034.0       | port aft -0022 1722 |
| 3               |                  |                  |          |       |           |          |             |                     |
| 4               |                  |                  |          |       |           |          |             |                     |
| 5               |                  |                  |          |       |           |          |             |                     |
| 6               |                  |                  |          |       |           |          |             |                     |
| 7               |                  |                  |          |       |           |          |             |                     |
| 8               |                  |                  |          |       |           |          |             |                     |
| 9               |                  |                  |          |       |           |          |             |                     |
| 10              |                  |                  |          |       |           |          |             |                     |
| 11              |                  |                  |          |       |           |          |             |                     |
| 12              |                  |                  |          |       |           |          |             |                     |
| 13              |                  |                  |          |       |           |          |             |                     |
| 14              |                  |                  |          |       |           |          |             |                     |
| 15              |                  |                  |          |       |           |          |             |                     |
| 16              |                  |                  |          |       |           |          |             |                     |
| 17              |                  |                  |          |       |           |          |             |                     |
| 18              |                  |                  |          |       |           |          |             |                     |
| 19              |                  |                  |          |       |           |          |             |                     |
| 20              |                  |                  |          |       |           |          |             |                     |
| 21              |                  |                  |          |       |           |          |             |                     |
| 22              |                  |                  |          |       |           |          |             |                     |
| 23              |                  |                  |          |       |           |          |             |                     |
| 24              |                  |                  |          |       |           |          |             |                     |

COMMENTS:

# R/V Thompson RCA-001 Cruise TN-407 - CTD Cast Log

Station: Axial Base Shallow Profiler - POST deploy

Cast #/Filename: CTD-001

Date (Local): 8-12-2022

Cable Rate Out m/min: <100m 30m/min 7100m 60m/min

Start Time (Local/GMT): 19:34:26 12:34:26

End Time (Local/GMT): 20:27 / 1:27

Start Lat/Long: 045.8265

End Lat/Long: 045.8265 / 129.7473

Surface Soak Time (mins @ m): -129.7473

Max Cable Out (m): 226

Max Cast Depth (m): 225m

Chlorophyll Max Depth (m):

Bottom Depth (m): 2623

Sampling Start/End (Local):

| Niskin Bottle # | Target Depth (m) | Actual Depth (m) | Oxygen   | DIC | Nutrients | Salinity | Chlorophyll | Notes             |
|-----------------|------------------|------------------|----------|-----|-----------|----------|-------------|-------------------|
| 1               | 220              | 220              | 372 384A | 156 | 1343      | 123      |             |                   |
| 2               | 220              | 220              |          |     |           |          |             |                   |
| 3               | 200              | 200              |          | 160 | 1342      |          | 039         |                   |
| 4               | 200              | 200              |          |     |           |          |             |                   |
| 5               | 180              | 180              | 366      | 164 | 1341      |          |             |                   |
| 6               | 180              | 180              |          |     |           |          |             |                   |
| 7               | 160              | 160              |          | 168 | 1340      | 124      | 030         |                   |
| 8               | 160              | 160              |          |     |           |          |             |                   |
| 9               | 140              | 140              |          |     |           |          |             | Failed to trigger |
| 10              | 140              | 140              | 371      | 167 | 1339      |          |             |                   |
| 11              | 120              | 120              |          | 172 | 1338      |          |             |                   |
| 12              | 120              | 120              |          |     |           |          |             |                   |
| 13              | 100              | 100              | 378A     | 151 | 1336      | 125      | 006         |                   |
| 14              | 100              | 100              |          |     |           |          |             |                   |
| 15              | 80               | 80               | 377      | 155 | 1334      |          | 24          |                   |
| 16              | 80               | 80               |          |     |           |          |             |                   |
| 17              | 60               | 60               | 383      | 159 | 1335      | 126      | 036         |                   |
| 18              | 60               | 60               |          |     |           |          |             |                   |
| 19              | 40               | 40               | 370      | 163 | 1332      |          | 8           |                   |
| 20              | 40               | 40               |          |     |           |          |             |                   |
| 21              | 20               | 20               |          |     |           |          |             | Leaking           |
| 22              | 20               | 20               | 376      | 171 | 1333      |          | 33          |                   |
| 23              | 10               | 10               | 382      | 150 | 1329      | 127      | 032         |                   |
| 24              | 10               | 10               |          |     |           |          |             |                   |

COMMENTS:

# R/V Thompson RCA-OOI Cruise TN-407 - CTD Cast Log

Station: Axial Seamount Central Caldera - 11503F

Cast #/Filename: ROV- 2212

Date (Local): Aug 13 2022

Cable Rate Out m/min:

Start Time (Local/GMT):

End Time (Local/GMT):

Start Lat/Long:

End Lat/Long:

Surface Soak Time (mins @ m):

Max Cable Out (m):

Max Cast Depth (m):

Chlorophyll Max Depth (m):

Bottom Depth (m):

Sampling Start/End (Local):

| Niskin Bottle # | Target Depth (m) | Actual Depth (m) | Oxygen | DIC | Nutrients | Salinity | Chlorophyll | Notes           |
|-----------------|------------------|------------------|--------|-----|-----------|----------|-------------|-----------------|
| 1               |                  | 1526             |        |     |           | SAC-128  |             | PORT 2FT @ 2250 |
| 2               |                  |                  |        |     |           |          |             |                 |
| 3               |                  |                  |        |     |           |          |             |                 |
| 4               |                  |                  |        |     |           |          |             |                 |
| 5               |                  |                  |        |     |           |          |             |                 |
| 6               |                  |                  |        |     |           |          |             |                 |
| 7               |                  |                  |        |     |           |          |             |                 |
| 8               |                  |                  |        |     |           |          |             |                 |
| 9               |                  |                  |        |     |           |          |             |                 |
| 10              |                  |                  |        |     |           |          |             |                 |
| 11              |                  |                  |        |     |           |          |             |                 |
| 12              |                  |                  |        |     |           |          |             |                 |
| 13              |                  |                  |        |     |           |          |             |                 |
| 14              |                  |                  |        |     |           |          |             |                 |
| 15              |                  |                  |        |     |           |          |             |                 |
| 16              |                  |                  |        |     |           |          |             |                 |
| 17              |                  |                  |        |     |           |          |             |                 |
| 18              |                  |                  |        |     |           |          |             |                 |
| 19              |                  |                  |        |     |           |          |             |                 |
| 20              |                  |                  |        |     |           |          |             |                 |
| 21              |                  |                  |        |     |           |          |             |                 |
| 22              |                  |                  |        |     |           |          |             |                 |
| 23              |                  |                  |        |     |           |          |             |                 |
| 24              |                  |                  |        |     |           |          |             |                 |

COMMENTS:

# R/V Thompson RCA-OOI Cruise TN-407 - CTD Cast Log

Station: Axial Seamount Eastern Caldera - N503E

Cast #/Filename: ROV-2215

Date (Local): Aug 14, 2022

Cable Rate Out m/min:

Start Time (Local/GMT):

End Time (Local/GMT):

Start Lat/Long:

End Lat/Long:

Surface Soak Time (mins @ m):

Max Cable Out (m):

Max Cast Depth (m):

Chlorophyll Max Depth (m):

Bottom Depth (m):

Sampling Start/End (Local):

| Niskin Bottle # | Target Depth (m) | Actual Depth (m) | Oxygen | DIC | Nutrients | Salinity | Chlorophyll | Notes           |
|-----------------|------------------|------------------|--------|-----|-----------|----------|-------------|-----------------|
| 1               |                  | 1514             |        |     |           | SAL-129  |             | port aft @ 2305 |
| 2               |                  |                  |        |     |           |          |             |                 |
| 3               |                  |                  |        |     |           |          |             |                 |
| 4               |                  |                  |        |     |           |          |             |                 |
| 5               |                  |                  |        |     |           |          |             |                 |
| 6               |                  |                  |        |     |           |          |             |                 |
| 7               |                  |                  |        |     |           |          |             |                 |
| 8               |                  |                  |        |     |           |          |             |                 |
| 9               |                  |                  |        |     |           |          |             |                 |
| 10              |                  |                  |        |     |           |          |             |                 |
| 11              |                  |                  |        |     |           |          |             |                 |
| 12              |                  |                  |        |     |           |          |             |                 |
| 13              |                  |                  |        |     |           |          |             |                 |
| 14              |                  |                  |        |     |           |          |             |                 |
| 15              |                  |                  |        |     |           |          |             |                 |
| 16              |                  |                  |        |     |           |          |             |                 |
| 17              |                  |                  |        |     |           |          |             |                 |
| 18              |                  |                  |        |     |           |          |             |                 |
| 19              |                  |                  |        |     |           |          |             |                 |
| 20              |                  |                  |        |     |           |          |             |                 |
| 21              |                  |                  |        |     |           |          |             |                 |
| 22              |                  |                  |        |     |           |          |             |                 |
| 23              |                  |                  |        |     |           |          |             |                 |
| 24              |                  |                  |        |     |           |          |             |                 |

COMMENTS:

# R/V Thompson RCA-OOI Cruise TN-407 - CTD Cast Log

|  |                                   |
|--|-----------------------------------|
| Station: <u>Asnos Vent Field - MJ03B</u> | Cast #/Filename: <u>ROV-2217</u>  |
| Date (Local): <u>Aug 15, 2022</u>        | Cable Rate Out m/min: _____       |
| Start Time (Local/GMT): _____            | End Time (Local/GMT): _____       |
| Start Lat/Long: _____                    | End Lat/Long: _____               |
| Surface Soak Time (mins @ m): _____      | Max Cable Out (m): _____          |
| Max Cast Depth (m): _____                | Chlorophyll Max Depth (m): _____  |
| Bottom Depth (m): _____                  | Sampling Start/End (Local): _____ |

| Niskin Bottle # | Target Depth (m) | Actual Depth (m) | Oxygen | DIC | Nutrients | Salinity | Chlorophyll | Notes           |
|-----------------|------------------|------------------|--------|-----|-----------|----------|-------------|-----------------|
| 1               |                  | 1536             |        |     |           | SAL-130  |             | collected 130.5 |
| 2               |                  |                  |        |     |           |          |             |                 |
| 3               |                  |                  |        |     |           |          |             |                 |
| 4               |                  |                  |        |     |           |          |             |                 |
| 5               |                  |                  |        |     |           |          |             |                 |
| 6               |                  |                  |        |     |           |          |             |                 |
| 7               |                  |                  |        |     |           |          |             |                 |
| 8               |                  |                  |        |     |           |          |             |                 |
| 9               |                  |                  |        |     |           |          |             |                 |
| 10              |                  |                  |        |     |           |          |             |                 |
| 11              |                  |                  |        |     |           |          |             |                 |
| 12              |                  |                  |        |     |           |          |             |                 |
| 13              |                  |                  |        |     |           |          |             |                 |
| 14              |                  |                  |        |     |           |          |             |                 |
| 15              |                  |                  |        |     |           |          |             |                 |
| 16              |                  |                  |        |     |           |          |             |                 |
| 17              |                  |                  |        |     |           |          |             |                 |
| 18              |                  |                  |        |     |           |          |             |                 |
| 19              |                  |                  |        |     |           |          |             |                 |
| 20              |                  |                  |        |     |           |          |             |                 |
| 21              |                  |                  |        |     |           |          |             |                 |
| 22              |                  |                  |        |     |           |          |             |                 |
| 23              |                  |                  |        |     |           |          |             |                 |
| 24              |                  |                  |        |     |           |          |             |                 |

COMMENTS:

# R/V Thompson RCA-OOI Cruise TN-407 - CTD Cast Log

Station: Oregon Shelf B&P - POST-DEPLOY

Cast #/Filename: ROV - R2218

Date (Local): Aug 18

Cable Rate Out m/min:

Start Time (Local/GMT):

End Time (Local/GMT):

Start Lat/Long:

End Lat/Long:

Surface Soak Time (mins @ m):

Max Cable Out (m):

Max Cast Depth (m):

Chlorophyll Max Depth (m):

Bottom Depth (m):

Sampling Start/End (Local): 1:45 - 2:01 PDT

| Niskin Bottle # | Target Depth (m) | Actual Depth (m) | Oxygen  | DIC     | Nutrients | Salinity | Chlorophyll | Notes            |
|-----------------|------------------|------------------|---------|---------|-----------|----------|-------------|------------------|
| 1 PA            | 80m              | 80m              | 368.368 |         |           | SA-0131  | CHL-023     | collected @ 0040 |
| 2 PF            | 80m              | 80m              | 367     | DIC-170 |           |          |             |                  |
| 3               |                  |                  |         |         |           |          |             |                  |
| 4               |                  |                  |         |         |           |          |             |                  |
| 5               |                  |                  |         |         |           |          |             |                  |
| 6               |                  |                  |         |         |           |          |             |                  |
| 7               |                  |                  |         |         |           |          |             |                  |
| 8               |                  |                  |         |         |           |          |             |                  |
| 9               |                  |                  |         |         |           |          |             |                  |
| 10              |                  |                  |         |         |           |          |             |                  |
| 11              |                  |                  |         |         |           |          |             |                  |
| 12              |                  |                  |         |         |           |          |             |                  |
| 13              |                  |                  |         |         |           |          |             |                  |
| 14              |                  |                  |         |         |           |          |             |                  |
| 15              |                  |                  |         |         |           |          |             |                  |
| 16              |                  |                  |         |         |           |          |             |                  |
| 17              |                  |                  |         |         |           |          |             |                  |
| 18              |                  |                  |         |         |           |          |             |                  |
| 19              |                  |                  |         |         |           |          |             |                  |
| 20              |                  |                  |         |         |           |          |             |                  |
| 21              |                  |                  |         |         |           |          |             |                  |
| 22              |                  |                  |         |         |           |          |             |                  |
| 23              |                  |                  |         |         |           |          |             |                  |
| 24              |                  |                  |         |         |           |          |             |                  |

COMMENTS:

Fri Aug 19

# R/V Thompson RCA-OOI Cruise TN-407 - CTD Cast Log

Station: Oregon Offshore BEP - POST-DEPLOY

Cast #/Filename: ROV-D2220

Date (Local): Aug 19

Cable Rate Out m/min: \_\_\_\_\_

Start Time (Local/GMT): \_\_\_\_\_

End Time (Local/GMT): \_\_\_\_\_

Start Lat/Long: \_\_\_\_\_

End Lat/Long: \_\_\_\_\_

Surface Soak Time (mins @ m): \_\_\_\_\_

Max Cable Out (m): \_\_\_\_\_

Max Cast Depth (m): \_\_\_\_\_

Chlorophyll Max Depth (m): \_\_\_\_\_

Bottom Depth (m): 600m

Sampling Start/End (Local): \_\_\_\_\_

| Niskin Bottle # | Target Depth (m) | Actual Depth (m) | Oxygen  | DIC     | Nutrients | Salinity | Chlorophyll | Notes |
|-----------------|------------------|------------------|---------|---------|-----------|----------|-------------|-------|
| 1 PF            | 600              |                  | 369/365 |         |           |          | CHL-036     |       |
| 2 PA            | 600              |                  |         | DIC-169 |           | SAL-0132 |             |       |
| 3               |                  |                  |         |         |           |          |             |       |
| 4               |                  |                  |         |         |           |          |             |       |
| 5               |                  |                  |         |         |           |          |             |       |
| 6               |                  |                  |         |         |           |          |             |       |
| 7               |                  |                  |         |         |           |          |             |       |
| 8               |                  |                  |         |         |           |          |             |       |
| 9               |                  |                  |         |         |           |          |             |       |
| 10              |                  |                  |         |         |           |          |             |       |
| 11              |                  |                  |         |         |           |          |             |       |
| 12              |                  |                  |         |         |           |          |             |       |
| 13              |                  |                  |         |         |           |          |             |       |
| 14              |                  |                  |         |         |           |          |             |       |
| 15              |                  |                  |         |         |           |          |             |       |
| 16              |                  |                  |         |         |           |          |             |       |
| 17              |                  |                  |         |         |           |          |             |       |
| 18              |                  |                  |         |         |           |          |             |       |
| 19              |                  |                  |         |         |           |          |             |       |
| 20              |                  |                  |         |         |           |          |             |       |
| 21              |                  |                  |         |         |           |          |             |       |
| 22              |                  |                  |         |         |           |          |             |       |
| 23              |                  |                  |         |         |           |          |             |       |
| 24              |                  |                  |         |         |           |          |             |       |

COMMENTS:



# R/V Thompson RCA-OOI Cruise TN-407 - CTD Cast Log

WP #3  
Leg 2

MJO1B

Station: Southern Hydrate Ridge  
 Date (Local): Aug 20  
 Start Time (Local/GMT): 23:33 / 06:33  
 Start Lat/Long: 44.5696 / -125.1466  
 Surface Soak Time (mins @ m): 5 min @ 10m  
 Max Cast Depth (m): 770  
 Bottom Depth (m): 775

Cast #/Filename: CTD-002  
 Cable Rate Out m/min: <100 m 30m/min; >100 60m/min  
 End Time (Local/GMT): 01:05 / 0805  
 End Lat/Long: 44.5696 / -125.1466  
 Max Cable Out (m): 770  
 Chlorophyll Max Depth (m):  
 Sampling Start/End (Local): 01:10 start / 01:33 finish

| Niskin Bottle # | Target Depth (m) | Actual Depth (m) | Oxygen     | DIC | Nutrients | Salinity | Chlorophyll | Notes                                   |
|-----------------|------------------|------------------|------------|-----|-----------|----------|-------------|---|
| 1               | 770              |                  | 361/364A.. |     |           | 134 ✓    | 023 ✓       | okayed                                  |
| 2               | 770              |                  |            |     |           |          |             |   |
| 3               | 700              |                  | 362        |     |           |          |             |   |
| 4               | 700              |                  |            |     |           |          |             |   |
| 5               | 600              |                  |            |     |           |          |             |   |
| 6               | 600              |                  |            |     |           |          |             |   |
| 7               | 500              |                  | 363        |     |           |          |             |   |
| 8               | 500              |                  |            |     |           |          |             |   |
| 9               | 400              |                  | 365        |     |           |          |             |   |
| 10 practice     | 400              |                  |            |     |           |          |             |   |
| 11              | 400              |                  |            |     |           |          |             |   |
| 12              | 250              |                  | 366A       |     |           |          |             |   |
| 13              | 200              |                  | 367        |     |           |          |             |   |
| 14              | 200              |                  |            |     |           |          |             |   |
| 15              | 150              |                  | 368        |     |           |          |             |   |
| 16              | 150              |                  |            |     |           |          |             |   |
| 17              | 100              |                  | 369        |     |           |          |             | Scanned late, time is actually 01:24:30 |
| 18              | 100              |                  |            |     |           |          |             |   |
| 19              | 50               |                  | 370        |     |           |          |             |   |
| 20              | 50               |                  |            |     |           |          |             |   |
| 21              | 20               |                  | 371        |     |           |          |             | leaking → not collected                 |
| 22              | 20               |                  |            |     |           |          |             | collecting from 22 instead              |
| 23              | 10               |                  | 372        |     |           |          |             |   |
| 24              | 10               |                  |            |     |           |          |             |   |

COMMENTS: 1min sit, 15 sec between duplicates

# R/V Thompson RCA-OOI Cruise TN-407 - CTD Cast Log

Station: Southern Hydrate Ridge MJO1B

Cast #/Filename: ROV - 2224

Date (Local): Sat Aug 28

Cable Rate Out m/min: \_\_\_\_\_

Start Time (Local/GMT): \_\_\_\_\_

End Time (Local/GMT): \_\_\_\_\_

Start Lat/Long: \_\_\_\_\_

End Lat/Long: \_\_\_\_\_

Surface Soak Time (mins @ m): \_\_\_\_\_

Max Cable Out (m): \_\_\_\_\_

Max Cast Depth (m): \_\_\_\_\_

Chlorophyll Max Depth (m): \_\_\_\_\_

Bottom Depth (m): \_\_\_\_\_

Sampling Start/End (Local): \_\_\_\_\_

| Niskin Bottle # | Target Depth (m) | Actual Depth (m) | Oxygen | DIC | Nutrients | Salinity | Chlorophyll | Notes            |
|-----------------|------------------|------------------|--------|-----|-----------|----------|-------------|------------------|
| 1               |                  | 773m             |        |     |           | SAL-133  |             | collected @ 2023 |
| 2               |                  |                  |        |     |           |          |             | by ROPOS         |
| 3               |                  |                  |        |     |           |          |             |                  |
| 4               |                  |                  |        |     |           |          |             |                  |
| 5               |                  |                  |        |     |           |          |             |                  |
| 6               |                  |                  |        |     |           |          |             |                  |
| 7               |                  |                  |        |     |           |          |             |                  |
| 8               |                  |                  |        |     |           |          |             |                  |
| 9               |                  |                  |        |     |           |          |             |                  |
| 10              |                  |                  |        |     |           |          |             |                  |
| 11              |                  |                  |        |     |           |          |             |                  |
| 12              |                  |                  |        |     |           |          |             |                  |
| 13              |                  |                  |        |     |           |          |             |                  |
| 14              |                  |                  |        |     |           |          |             |                  |
| 15              |                  |                  |        |     |           |          |             |                  |
| 16              |                  |                  |        |     |           |          |             |                  |
| 17              |                  |                  |        |     |           |          |             |                  |
| 18              |                  |                  |        |     |           |          |             |                  |
| 19              |                  |                  |        |     |           |          |             |                  |
| 20              |                  |                  |        |     |           |          |             |                  |
| 21              |                  |                  |        |     |           |          |             |                  |
| 22              |                  |                  |        |     |           |          |             |                  |
| 23              |                  |                  |        |     |           |          |             |                  |
| 24              |                  |                  |        |     |           |          |             |                  |

COMMENTS:

# R/V Thompson RCA-OOI Cruise TN-407 - CTD Cast Log 500 m down current of

Station: Slope Base Shallow Profiler

Date (Local): Aug 21

Start Time (Local/GMT): 10:52 / 1752

Start Lat/Long: 044.5151 / -125.3957

Surface Soak Time (mins @ m): 5 min @ 10m

Max Cast Depth (m): 2895

Bottom Depth (m): 2908

Cast #/Filename: CTD-003

Cable Rate Out m/min: <100m 30m/min >100m 60m/min

End Time (Local/GMT): 13:35 / 20:35

End Lat/Long: 44.5148 / -125.3962

Max Cable Out (m): 2900m

Chlorophyll Max Depth (m):

Sampling Start/End (Local): 1340 start 1440 finish

| Niskin Bottle # | Target Depth (m) | Actual Depth (m) | Oxygen | DIC | Nutrients | Salinity | Chlorophyll | Notes          |
|-----------------|------------------|------------------|--------|-----|-----------|----------|-------------|----------------|
| 1 ✓             | 2900             |                  | 373A   |     |           | 0135     | 036         | * HPIES 10gal  |
| 2 ✓             | 2900             |                  |        |     |           |          |             |                |
| 3 ✓             | 2750             |                  | 374    |     |           |          |             |                |
| 4 ✓             | 2750             |                  |        |     |           |          |             |                |
| 5 ✓             | 2750             |                  |        |     |           |          |             |                |
| 6 ✓             | 2500             |                  |        |     |           |          |             |                |
| 7 ✓             | 2000             |                  | 375    |     |           | 0136     | 010         |                |
| 8 ✓             | 2000             |                  |        |     |           |          |             |                |
| 9 ✓             | 1520             |                  |        |     |           |          |             | * mitch 8L     |
| 10 ✓            | 1520             |                  |        |     |           |          |             |                |
| 11 ✓            | 1000             |                  | 376    |     |           |          | 038         |                |
| 12 ✓            | 1000             |                  |        |     |           |          |             |                |
| 13 ✓            | 500              |                  | 377    |     |           | 0137     |             |                |
| 14 ✓            | 500              |                  |        |     |           |          |             |                |
| 15 ✓            | 250              |                  | 378A   | 158 | 1331      |          | 006         |                |
| 16 ✓            | 250              |                  |        |     |           |          |             |                |
| 17 ✓            | 100              |                  | 379    | 166 | 1330      | 0138     |             |                |
| 18 ✓            | 100              |                  |        |     |           |          |             |                |
| 19 ✓            | 50               |                  |        | 154 | 1337      |          |             |                |
| 20 ✓            | 50               |                  |        |     |           |          |             |                |
| 21 ✓            | 30               |                  |        |     |           |          |             | was leaky      |
| 22 ✓            | 30               |                  | 380    | 165 | 1321      |          | 031         |                |
| 23 ✓            | 10               |                  | 381    | 157 | 1322      | 0144     | 035         |                |
| 24 ✓            | 10               |                  |        |     |           |          |             | didn't trigger |

COMMENTS:

2 min sit at depth, 15 sec between samples at same depth

# R/V Thompson RCA-001 Cruise TN-407 - CTD Cast Log

377m E of EG SP mooring

Station: Oregon Offshore Deep Profiler - PRE-RECOVERY

Cast #/Filename: CTD-004

Date (Local): Aug 23

Cable Rate Out m/min:  $\leq 100m$  30m/min  $\geq 100m$  60m/min

Start Time (Local/GMT): 10:36:24 / 03:36:24

End Time (Local/GMT): 11:51:27 / 04:51:27

Start Lat/Long: 044.3739 / 124.9518

End Lat/Long: 44.3739 / 124.9517

Surface Soak Time (mins @ m): 5min @ 5m

Max Cable Out (m): 565

Max Cast Depth (m): 565m

Chlorophyll Max Depth (m)

Bottom Depth (m): 569m

Sampling Start/End (Local): 5:07 - 5:55

| Niskin Bottle # | Target Depth (m) | Actual Depth (m) | Oxygen    | DIC   | Nutrients | Salinity | Chlorophyll | Notes |
|-----------------|------------------|------------------|-----------|-------|-----------|----------|-------------|-------|
| 1 ✓             | 565              |                  | 361 .     |       |           | 0143 .   | 008 .       |       |
| 2 ✓             | 565              |                  |           |       |           |          |             |       |
| 3 ✓             | 550              |                  | 362 .     |       |           |          |             |       |
| 4 ✓             | 550              |                  |           |       |           |          |             |       |
| 5 ✓             | 500              |                  |           |       |           |          |             |       |
| 6 ✓             | 500              |                  |           |       |           |          |             |       |
| 7 ✓             | 400              |                  | 363 .     |       |           | 0139 .   | 011 .       |       |
| 8 ✓             | 400              |                  |           |       |           |          |             |       |
| 9 ✓             | 300              |                  |           |       |           |          |             |       |
| 10 ✓            | 300              |                  |           |       |           |          |             |       |
| 11 ✓            | 250              |                  | 364 .     | 149 . | 1323 .    |          | 037 .       |       |
| 12 ✓            | 250              |                  |           |       |           |          |             |       |
| 13 ✓            | 200              |                  | 365 .     | 101 . | 1327 .    | 0140 .   |             |       |
| 14 ✓            | 200              |                  |           |       |           |          |             |       |
| 15 ✓            | 150              |                  | 366 .     | 105 . | 1328 .    |          | 028 .       |       |
| 16 ✓            | 150              |                  |           |       |           |          |             |       |
| 17 ✓            | 100              |                  | 367 .     | 109 . | 1324 .    | 0141 .   |             |       |
| 18 ✓            | 100              |                  |           |       |           |          |             |       |
| 19 ✓            | 50               |                  |           |       | 1313 .    |          |             |       |
| 20 ✓            | 50               |                  |           |       |           |          |             |       |
| 21 ✓            | 20               |                  | 368 .     | 113 . | 1325 .    |          | 024 .       |       |
| 22 ✓            | 20               |                  |           |       |           |          |             |       |
| 23 ✓            | 10               |                  | 369/370 . | 117 . | 1326 .    | 0142 .   | 029 .       |       |
| 24 ✓            | 10               |                  |           |       |           |          |             |       |

COMMENTS:

## R/V Thompson RCA-OOI

## Cruise TN-407 - CTD Cast Log

SE

500m downcurrent from

Station: Oregon Offshore Deep Profile - POST DEPLOY

Cast #/Filename: CTD-005

DP mooring

Date (Local): Aug 26

Cable Rate Out m/min: &lt;100m 30m/min &gt;100m 60m/min

Start Time (Local/GMT): 06:52 / 13:52

End Time (Local/GMT): 759 / 1459

Start Lat/Long: 44°21.905573 / 124°56.896907

End Lat/Long: 44.3646 / -124.9482

Surface Soak Time (mins @ m): 5 min @ 5m

Max Cable Out (m): 578m

Max Cast Depth (m): 578m

Chlorophyll Max Depth (m)

Bottom Depth (m): 583m

Sampling Start/End (Local): 0816 / 0907

| Niskin Bottle # | Target Depth (m) | Actual Depth (m) | Oxygen    | DIC     | Nutrients | Salinity | Chlorophyll | Notes |
|-----------------|------------------|------------------|-----------|---------|-----------|----------|-------------|-------|
| 1 ✓             | 578              |                  | 361 ✓ 0.0 |         |           | 025 ✓ 0  | 006 ✓ 0     |       |
| 2 ✓             | 578              |                  |           |         |           |          |             |       |
| 3 ✓             | 550              |                  | 362 ✓ 0   |         |           |          |             |       |
| 4 ✓             | 550              |                  |           |         |           |          |             |       |
| 5 ✓             | 500              |                  |           |         |           |          |             |       |
| 6 ✓             | 500              |                  |           |         |           |          |             |       |
| 7 ✓             | 400              |                  | 363 ✓ 0   |         |           | 026 ✓ 0  | 029 ✓ 0     |       |
| 8 ✓             | 400              |                  |           |         |           |          |             |       |
| 9 ✓             | 300              |                  | 364 ✓     |         |           |          |             |       |
| 10 ✓            | 300              |                  |           |         |           |          |             |       |
| 11 ✓            | 250              |                  | 365 ✓ 0   | 121 ✓ 0 | 1315 ✓ 0  |          | 009 ✓ 0     |       |
| 12 ✓            | 250              |                  |           |         |           |          |             |       |
| 13 ✓            | 200              |                  | 366 ✓ 0   | 122 ✓ 0 | 1314 ✓ 0  | 027 ✓ 0  |             |       |
| 14 ✓            | 200              |                  |           |         |           |          |             |       |
| 15 ✓            | 150              |                  | 367 ✓ 0   | 123 ✓ 0 | 1317 ✓ 0  |          | 030 ✓ 0     |       |
| 16 ✓            | 150              |                  |           |         |           |          |             |       |
| 17 ✓            | 100              |                  | 368 ✓ 0   | 102 ✓ 0 | 1318 ✓ 0  | 028 ✓ 0  |             |       |
| 18 ✓            | 100              |                  |           |         |           |          |             |       |
| 19 ✓            | 50               |                  | 369 ✓     | 103 ✓ 0 | 1319 ✓ 0  |          |             |       |
| 20 ✓            | 50               |                  |           |         |           |          |             |       |
| 21 ✓            | 20               |                  | 370 ✓ 0   | 118 ✓ 0 | 1305 ✓ 0  |          | 039 ✓ 0     |       |
| 22 ✓            | 20               |                  |           |         |           |          |             |       |
| 23 ✓            | 10               |                  | 371 ✓ 0   | 114 ✓ 0 | 1320 ✓ 0  | 029 ✓ 0  | 028 ✓ 0     |       |
| 24 ✓            | 10               |                  |           |         |           |          |             |       |

## COMMENTS:

Hold at depth for 2min then 1min at depth 15 sec between Niskins

# R/V Thompson RCA-OOI Cruise TN-407 - CTD Cast Log

SE

500 m

down current

Station: Slope Base Deep Profiler - POST DEPLOY

Cast #/Filename: CTD-006 500m SE PD01A

Date (Local): Aug 27

Cable Rate Out m/min: <100m 30m/min >100m 60m/min

Start Time (Local/GMT): 00:29 / 07:29

End Time (Local/GMT): 0255 / 0955

Start Lat/Long: 44° 31.456' N / 125° 22.529' W

End Lat/Long: 44° 31.452' N / -125° 22.518

Surface Soak Time (mins @ m): 5 min @ 10 m

Max Cable Out (m): 2895

Max Cast Depth (m): 2895

Chlorophyll Max Depth (m)

Bottom Depth (m): 2901 m

Sampling Start/End (Local): 0305 - 0342

| Niskin Bottle # | Target Depth (m) | Actual Depth (m) | Oxygen     | DIC   | Nutrients | Salinity | Chlorophyll | Notes                          |
|-----------------|------------------|------------------|------------|-------|-----------|----------|-------------|--------------------------------|
| 1 ✓             | 2895             |                  | 373A •     |       |           | 030 •    | 031 •       |                                |
| 2 ✓             | 2895             |                  |            |       |           |          |             |                                |
| 3 ✓             | 2750             |                  | 374/376 •• |       |           |          |             |                                |
| 4 ✓             | 2750             |                  |            |       |           |          |             |                                |
| 5 ✓             | 2500             |                  |            |       |           |          |             |                                |
| 6 ✓             | 2500             |                  |            |       |           |          |             |                                |
| 7 ✓             | 2000             |                  | 375 •      |       |           | 031 •    | 038 •       |                                |
| 8 ✓             | 2000             |                  |            |       |           |          |             |                                |
| 9 ✓             | 1500             |                  |            |       |           |          |             | accidentally fire while moving |
| 10 ✓            | 1500             |                  |            |       |           |          |             |                                |
| 11 ✓            | 1000             |                  | 377 •      |       |           |          | 013 •       |                                |
| 12 ✓            | 1000             |                  |            |       |           |          |             |                                |
| 13 ✓            | 500              |                  | 378 •      |       |           | 032 •    |             |                                |
| 14 ✓            | 500              |                  |            |       |           |          |             |                                |
| 15 ✓            | 250              |                  | 379 •      | 110 • | 1306 •    |          | 032 •       |                                |
| 16 ✓            | 250              |                  |            |       |           |          |             |                                |
| 17 ✓            | 100              |                  | 380 •      | 119 • | 1307 •    | 033 •    |             |                                |
| 18 ✓            | 100              |                  |            |       |           |          |             |                                |
| 19 ✓            | 50               |                  |            | 115 • | 1308 •    |          |             |                                |
| 20 ✓            | 50               |                  |            |       |           |          |             |                                |
| 21 ✓            | 30               |                  | 381 •      | 111 • | 1297 •    |          | 010 •       |                                |
| 22 ✓            | 30               |                  |            |       |           |          |             |                                |
| 23              | 10               |                  | 382 •      | 107 • | 1298 •    | 034 •    | 003 •       |                                |
| 24              | 10               |                  |            |       |           |          |             | didn't fire                    |

COMMENTS: 2 min soak @ depth then ascent 1 min @ depth 15 sec between Niskins at same depth

# R/V Thompson RCA-OOI Cruise TN-407 - CTD Cast Log

500 m down current

Station: Axial Base Deep Profiler - Post Deploy

Cast #/Filename: CTD-007

Date (Local): Aug 28

Cable Rate Out m/min: <100m 30<sup>min</sup>, 7100 60 m/min

Start Time (Local/GMT): 1727 UTC 10:27 local

End Time (Local/GMT): 1230

Start Lat/Long: 45°50.065N 129°45.524W

End Lat/Long:

Surface Soak Time (mins @ m): 2 min @ 10 m

Max Cable Out (m):

Max Cast Depth (m): 2600

Chlorophyll Max Depth (m):

Bottom Depth (m): 2605

Sampling Start/End (Local): 1245/1310

| Niskin Bottle # | Target Depth (m) | Actual Depth (m) | Oxygen         | DIC     | Nutrients | Salinity | Chlorophyll | Notes                  |
|-----------------|------------------|------------------|----------------|---------|-----------|----------|-------------|------------------------|
| 1 ✓             | 2600             |                  | 241 ✓ •        |         |           | 036 ✓ •  | 037 ✓ •     | * Rest of water (2600) |
| 2 ✓             | 2600             |                  |                |         |           |          |             | * for HP1ES            |
| 3 ✓             | 2600             |                  |                |         |           |          |             | * "                    |
| 4 ✓             | 2400             |                  | 242 ✓ •        |         |           |          |             |                        |
| 5 ✓             | 2250             |                  |                |         |           |          |             |                        |
| 6 ✓             | 2250             |                  |                |         |           |          |             |                        |
| 7 ✓             | 2000             |                  | 243 ✓ •        |         |           | 040 ✓ •  | 041 ✓ •     |                        |
| 8 ✓             | 2000             |                  |                |         |           |          |             |                        |
| 9 ✓             | 1520             |                  |                |         |           |          |             | * Mitch for RASAPS     |
| 10 ✓            | 1526             |                  |                |         |           |          |             | * Mitch for RASAPS     |
| 11 ✓            | 1000             |                  | 244 ✓, 245 ✓ • |         |           |          | 044 ✓ •     |                        |
| 12 ✓            | 1000             |                  |                |         |           |          |             |                        |
| 13 ✓            | 500              |                  | 246 ✓ •        |         |           | 041 ✓ •  |             |                        |
| 14 ✓            | 500              |                  |                |         |           |          |             |                        |
| 15 ✓            | 250              |                  | 247 ✓ •        | 124 ✓ • | 1316 ✓ •  |          | 024 ✓ •     |                        |
| 16 ✓            | 250              |                  |                |         |           |          |             |                        |
| 17 ✓            | 100              |                  | 248 ✓ •        | 120 ✓ • | 1309 ✓ •  | 042 ✓ •  |             |                        |
| 18 ✓            | 100              |                  |                |         |           |          |             |                        |
| 19 ✓            | 50               |                  |                | 116 ✓ • | 1310 ✓ •  |          |             |                        |
| 20 ✓            | 50               |                  |                |         |           |          |             |                        |
| 21 ✓            | 30               |                  | 249 ✓ •        | 104 ✓ • | 1311 ✓ •  |          | 036 ✓ •     |                        |
| 22 ✓            | 30               |                  |                |         |           |          |             |                        |
| 23 ✓            | 10               |                  | 250 ✓ •        | 108 ✓ • | 1312 ✓ •  | 035 ✓ •  | 020 ✓ •     |                        |
| 24 ✓            | 10               |                  |                |         |           |          |             |                        |

COMMENTS: 2590

# R/V Thompson RCA-OOI Cruise TN-407 - CTD Cast Log

Station: Axial Base Seafloor Junction Box 4J03A

Cast #/Filename: ROV- R2238

Date (Local): Aug 29 2022

Cable Rate Out m/min: —

Start Time (Local/GMT): —

End Time (Local/GMT): —

Start Lat/Long: 45° 49.0075 N / 129° 45.2475 W

End Lat/Long: —

Surface Soak Time (mins @ m): —

Max Cable Out (m): —

Max Cast Depth (m): —

Chlorophyll Max Depth (m): —

Bottom Depth (m): 2600

Sampling Start/End (Local): —

| Niskin Bottle # | Target Depth (m) | Actual Depth (m)<br><i>local time</i><br>ROPOS collected | Oxygen    | DIC | Nutrients | Salinity | Chlorophyll | Notes |
|-----------------|------------------|--|-----------|-----|-----------|----------|-------------|-------|
| 1 PF            | 2604             | 0613:30  | 242.241 ° |     |           |          |             |       |
| 2 PA            | 2604             | 0614:00  |           |     |           | 0039 °   | 26 °        |       |
| 3               |                  |  |           |     |           |          |             |       |
| 4               |                  |  |           |     |           |          |             |       |
| 5               |                  |  |           |     |           |          |             |       |
| 6               |                  |  |           |     |           |          |             |       |
| 7               |                  |  |           |     |           |          |             |       |
| 8               |                  |  |           |     |           |          |             |       |
| 9               |                  |  |           |     |           |          |             |       |
| 10              |                  |  |           |     |           |          |             |       |
| 11              |                  |  |           |     |           |          |             |       |
| 12              |                  |  |           |     |           |          |             |       |
| 13              |                  |  |           |     |           |          |             |       |
| 14              |                  |  |           |     |           |          |             |       |
| 15              |                  |  |           |     |           |          |             |       |
| 16              |                  |  |           |     |           |          |             |       |
| 17              |                  |  |           |     |           |          |             |       |
| 18              |                  |  |           |     |           |          |             |       |
| 19              |                  |  |           |     |           |          |             |       |
| 20              |                  |  |           |     |           |          |             |       |
| 21              |                  |  |           |     |           |          |             |       |
| 22              |                  |  |           |     |           |          |             |       |
| 23              |                  |  |           |     |           |          |             |       |
| 24              |                  |  |           |     |           |          |             |       |

COMMENTS:



# R/V Thompson RCA-OOI Cruise TN-407 - CTD Cast Log

Chadwick CTD

Station: Axial Central Caldera

Cast #/Filename: ROV-R2242

Date (Local): Aug 30

Cable Rate Out m/min: —

Start Time (Local/GMT):

End Time (Local/GMT): —

Start Lat/Long: 45.9549 / -130.0087

End Lat/Long: —

Surface Soak Time (mins @ m):

Max Cable Out (m): —

Max Cast Depth (m):

Chlorophyll Max Depth (m): —

Bottom Depth (m): 1527

Sampling Start/End (Local): 1406-1410

| Niskin Bottle # | Target Depth (m) | Actual Depth (m) | Oxygen  | DIC | Nutrients | Salinity  | Chlorophyll | Notes              |
|-----------------|------------------|------------------|---------|-----|-----------|-----------|-------------|--------------------|
| 1PF             | 1525             |                  | 243/244 |     |           |           |             | collected by ROPOS |
| 2PA             | 1525             |                  |         |     |           | SAL-038 ✓ | CHL-039 ✓   | Ⓢ 12:39            |
| 3               |                  |                  |         |     |           |           |             |                    |
| 4               |                  |                  |         |     |           |           |             |                    |
| 5               |                  |                  |         |     |           |           |             |                    |
| 6               |                  |                  |         |     |           |           |             |                    |
| 7               |                  |                  |         |     |           |           |             |                    |
| 8               |                  |                  |         |     |           |           |             |                    |
| 9               |                  |                  |         |     |           |           |             |                    |
| 10              |                  |                  |         |     |           |           |             |                    |
| 11              |                  |                  |         |     |           |           |             |                    |
| 12              |                  |                  |         |     |           |           |             |                    |
| 13              |                  |                  |         |     |           |           |             |                    |
| 14              |                  |                  |         |     |           |           |             |                    |
| 15              |                  |                  |         |     |           |           |             |                    |
| 16              |                  |                  |         |     |           |           |             |                    |
| 17              |                  |                  |         |     |           |           |             |                    |
| 18              |                  |                  |         |     |           |           |             |                    |
| 19              |                  |                  |         |     |           |           |             |                    |
| 20              |                  |                  |         |     |           |           |             |                    |
| 21              |                  |                  |         |     |           |           |             |                    |
| 22              |                  |                  |         |     |           |           |             |                    |
| 23              |                  |                  |         |     |           |           |             |                    |
| 24              |                  |                  |         |     |           |           |             |                    |

COMMENTS:

# R/V Thompson RCA-OOI Cruise TN-407 - CTD Cast Log

500m NE of SP mooring

Station: Oregon Offshore SP

Cast #/Filename: CTD-008

Date (Local): Sept 3 2022

Cable Rate Out m/min: <100m 30m/min >100m 60m/min

Start Time (Local/GMT): 2022 local / 0322 GMT

End Time (Local/GMT): 2108 local / 0408 GMT

Start Lat/Long: 44° 22.6439N / 124° 57.1188W

End Lat/Long: 44° 22.632 124° 57.144 W

Surface Soak Time (mins @ m): 3 min @ 3.3m

Max Cable Out (m):

Max Cast Depth (m): 225 m

Chlorophyll Max Depth (m):

Bottom Depth (m): 571 m

Sampling Start/End (Local): 2115 - 2200

| Niskin Bottle # | Target Depth (m) | Actual Depth (m) | Oxygen        | DIC | Nutrients | Salinity | Chlorophyll | Notes |
|-----------------|------------------|------------------|---------------|-----|-----------|----------|-------------|-------|
| 1               | 220 ✓            |                  | 361 / 364A .. | 153 | 1304      | 037      |             |       |
| 2               | 220 ✓            |                  |               |     |           |          |             |       |
| 3               | 200 ✓            |                  |               | 161 | 1303      |          | 003         |       |
| 4               | 200 ✓            |                  |               |     |           |          |             |       |
| 5               | 180 ✓            |                  | 362           | 162 | 1302      |          |             |       |
| 6               | 180 ✓            |                  |               |     |           |          |             |       |
| 7               | 160 ✓            |                  |               | 106 | 1301      | 044      | 038         |       |
| 8               | 160 ✓            |                  |               |     |           |          |             |       |
| 9               | 140 ✓            |                  |               | 112 | 1300      |          |             |       |
| 10              | 140 ✓            |                  | 363           |     |           |          |             |       |
| 11              | 120 ✓            |                  |               | 130 | 1299      |          |             |       |
| 12              | 120 ✓            |                  |               |     |           |          |             |       |
| 13              | 100 ✓            |                  | 365           | 125 | 1296      | 043      | 020         |       |
| 14              | 100 ✓            |                  |               |     |           |          |             |       |
| 15              | 80 ✓             |                  | 366A          | 129 | 1295      |          | 006         |       |
| 16              | 80 ✓             |                  |               |     |           |          |             |       |
| 17              | 60 ✓             |                  | 367           | 133 | 1294      | 045      | 030         |       |
| 18              | 60 ✓             |                  |               |     |           |          |             |       |
| 19              | 40 ✓             |                  | 368           | 137 | 1293      |          | 010         |       |
| 20              | 40 ✓             |                  |               |     |           |          |             |       |
| 21              | 20 ✓             |                  | 369           | 141 | 1292      |          | 026         |       |
| 22              | 20 ✓             |                  |               |     |           |          |             |       |
| 23              | 10 ✓             |                  | 370           | 145 | 1291      | 046      | 037         |       |
| 24              | 10 ✓             |                  |               |     |           |          |             |       |

COMMENTS: @ Depth, soak 2 min + 1 min when ascending 15 sec between

# R/V Thompson RCA-OOI Cruise TN-407 - CTD Cast Log

500m NE of SB  
SP

Station: Slope Base Shallow Profile - POST-DEPLOY

Cast #/Filename: LTD-009

Date (Local): Sept 15

Cable Rate Out m/min:  $\leq 100m$  30m/min  $\geq 100m$  60m/min

Start Time (Local/GMT): 15:46 / 22:46

End Time (Local/GMT): 16:32 / 23:32

Start Lat/Long: 44° 31.8941 / 125° 23.005

End Lat/Long: 44° 31.879 / 125.22.997

Surface Soak Time (mins @ m): 5min @ 10m

Max Cable Out (m): 239m

Max Cast Depth (m): 220m

Chlorophyll Max Depth (m)

Bottom Depth (m): 2905

Sampling Start/End (Local): 17:02 17:30

| Niskin Bottle # | Target Depth (m) | Actual Depth (m) | Oxygen  | DIC   | Nutrients | Salinity | Chlorophyll | Notes                     |
|-----------------|------------------|------------------|---------|-------|-----------|----------|-------------|---------------------------|
| 1 ✓             | 220              |                  | *361    | 128 . | 1288 .    | 5457 .   |             | didn't get entered in ipd |
| 2 ✓             | 220              |                  | 362     |       |           |          |             |                           |
| 3 ✓             | 200              |                  | *363    | 132 . | 1287 .    |          | 026 .       | not needed                |
| 4 ✓             | 200              |                  | *364A   |       |           |          |             | not needed                |
| 5 ✓             | 180              |                  | 365 .   | 136 . | 1286 .    |          |             |                           |
| 6 ✓             | 180              |                  | *366A   |       |           |          |             | not needed                |
| 7 ✓             | 160              |                  |         | 140 . | 1285 .    | 5458 .   | 030 .       |                           |
| 8 ✓             | 160              |                  |         |       |           |          |             |                           |
| 9 ✓             | 140              |                  | 367 .   | 144 . | 1284 .    |          |             |                           |
| 10 ✓            | 140              |                  |         |       |           |          |             |                           |
| 11 ✓            | 120              |                  |         | 126 . | 1283 .    |          |             |                           |
| 12 ✓            | 120              |                  |         |       |           |          |             |                           |
| 13 ✓            | 100              |                  | 368/369 | 148 . | 1282 .    | 5459 .   | 006 .       |                           |
| 14 ✓            | 100              |                  |         |       |           |          |             |                           |
| 15 ✓            | 80               |                  | 370 .   | 127 . | 1281 .    |          | 010 .       |                           |
| 16 ✓            | 80               |                  |         |       |           |          |             |                           |
| 17 ✓            | 60               |                  | 371 .   | 135 . | 1290 .    | 5460 .   | 037 .       |                           |
| 18 ✓            | 60               |                  |         |       |           |          |             |                           |
| 19 ✓            | 40               |                  | 372 .   | 147 . | 1289 .    |          | 003 .       |                           |
| 20 ✓            | 40               |                  |         |       |           |          |             |                           |
| 21 ✓            | 20               |                  | 373A .  | 131 . | 1786 .    |          | 011 .       |                           |
| 22 ✓            | 20               |                  |         |       |           |          |             |                           |
| 23 ✓            | 10               |                  | 374 .   | 134 . | 1787 .    | 5461 .   | 036 .       |                           |
| 24 ✓            | 10               |                  |         |       |           |          | 2.          |                           |

COMMENTS: