

Rosette Log for IOS Cruise ID 2013-05

Cast # 1      UTC Date (ddmmmyyyy) 14072013      In Air pressure 0.3      Water Depth(below hull) 75. m  
Station SLIP-1      UTC Time 04:05      Lat (N) 62 0.6      Lon (W) 175 3.570  
CTD File 2013-05-SLIP-1      Ship SWL      Watchkeepers      Start scan 6:00      Transmissometer cleaned ✓

| Samp # | Depth(m)     | Niskin # | Bottle Integrity | DIC/Alk | NUTS | SAL | O18 | Ba | Grebme/er - Chl | Grebme/er - Nuts + O-18 | Varela | Varela | Amro Acrib | Grason Oil | CDOM | Chl | SPM |  |  |  | Comments                                                       |
|--------|--------------|----------|------------------|---------|------|-----|-----|----|-----------------|-------------------------|--------|--------|------------|------------|------|-----|-----|--|--|--|----------------------------------------------------------------|
| 1      | ✓ bot-5 75.6 | 1        | ✓✓               |         | xx   | x   | x   | x  |                 |                         |        |        |            | x          | +    | +   | +   |  |  |  |                                                                |
| 2      | ✓ bot-5      | 2        | ✓✓               |         |      |     |     |    |                 |                         |        |        |            |            |      |     |     |  |  |  |                                                                |
| 3      | ✓ bot-5      | 3        | ✓✓               |         |      |     |     |    |                 |                         |        |        |            |            |      |     |     |  |  |  |                                                                |
| 4      | ✓ bot-5      | 4        | ✓✓               |         |      |     |     |    |                 |                         |        |        |            |            |      |     |     |  |  |  |                                                                |
| 5      | ✓ 75         | 5        | ✓✓               |         | xx   | xx  | x   | xx | x               | x                       |        |        |            | x          | +    | +   | +   |  |  |  |                                                                |
| 6      | ✓ 50         | (6)      | ✓✓               |         | xx   | x   | xx  | x  | x               | x                       |        |        |            | x          | +    | +   | +   |  |  |  | bottle nozzle full of mud!                                     |
| 7      | ✓ 35         | (7)      | ✓✓               |         | xx   | x   | x   | x  | x               | x                       | *      |        | x          | x          | +    | +   | +   |  |  |  |                                                                |
| 8      | ✓ 25         | (8)      | ✓✓               |         | xx   | x   | x   | x  | x               | x                       |        |        |            | x          | +    | +   | +   |  |  |  |                                                                |
| 9      | ✓ 15         | 9        | ✓✓               |         | xx   | x   | x   | x  | x               | x                       |        |        |            | x          | +    | +   | +   |  |  |  |                                                                |
| 10     | ✓ 5          | (10)     | ✓✓               |         | xx   | x   | x   | x  | x               | x                       | x      |        |            | x          | +    | +   | +   |  |  |  | Bottles 6, 7, & 8? bottles clogged with sample. Old pump hose? |
|        |              | 11       |                  |         |      |     |     |    |                 |                         |        |        |            |            |      |     |     |  |  |  |                                                                |
|        |              | 12       |                  |         |      |     |     |    |                 |                         |        |        |            |            |      |     |     |  |  |  |                                                                |
|        |              | 13       |                  |         |      |     |     |    |                 |                         |        |        |            |            |      |     |     |  |  |  |                                                                |
|        |              | 14       |                  |         |      |     |     |    |                 |                         |        |        |            |            |      |     |     |  |  |  |                                                                |
|        |              | 15       |                  |         |      |     |     |    |                 |                         |        |        |            |            |      |     |     |  |  |  |                                                                |
|        |              | 16       |                  |         |      |     |     |    |                 |                         |        |        |            |            |      |     |     |  |  |  |                                                                |
|        |              | 17       |                  |         |      |     |     |    |                 |                         |        |        |            |            |      |     |     |  |  |  |                                                                |
|        |              | 18       |                  |         |      |     |     |    |                 |                         |        |        |            |            |      |     |     |  |  |  |                                                                |
|        |              | 19       |                  |         |      |     |     |    |                 |                         |        |        |            |            |      |     |     |  |  |  |                                                                |
|        |              | 20       |                  |         |      |     |     |    |                 |                         |        |        |            |            |      |     |     |  |  |  |                                                                |
|        |              | 21       |                  |         |      |     |     |    |                 |                         |        |        |            |            |      |     |     |  |  |  |                                                                |
|        |              | 22       |                  |         |      |     |     |    |                 |                         |        |        |            |            |      |     |     |  |  |  |                                                                |
|        |              | 23       |                  |         |      |     |     |    |                 |                         |        |        |            |            |      |     |     |  |  |  |                                                                |
|        |              | 24       |                  |         |      |     |     |    |                 |                         |        |        |            |            |      |     |     |  |  |  |                                                                |

Comments:

# Rosette Log for IOS Cruise ID 2013-05

Cast # 2 UTC Date (ddmmmyyyy) 14072010 In Air pressure 0.2 Water Depth(below hull) 88 m  
 Station SLIP-2 UTC Time 06:04 Lat (N) 62 3.010 Lon (W) 175°12.593  
 CTD File 2013-05-02-SLIP-2 Ship SWL \_\_\_\_\_ Watchkeepers \_\_\_\_\_ Start scan 12500 Transmissometer cleaned ✓

| Samp # | Depth(m)            | Niskin # | Bottle Integrity | DIC/AIK | NUTS | SAL | O18 | Ba | Grebner - Chl | Grebner - Nuts | Varela | Photo-ID | Varela |   |   |   |  |  |  | Comments |
|--------|---------------------|----------|------------------|---------|------|-----|-----|----|---------------|----------------|--------|----------|--------|---|---|---|--|--|--|----------|
| 11     | bot-5 <sup>76</sup> | 1        | ✓✓               | X       | xx   | x   | x   | x  | X             | X              |        |          |        |   |   |   |  |  |  |          |
| 12     | 75 ✓                | 2        | ✓✓               |         | xx   | xx  | x   | xx | X             | X              |        |          |        | + | + | + |  |  |  |          |
| 13     | 50 ✓                | 3        | ✓✓               |         | xx   | x   | xx  | x  | X             | X              |        |          |        | + | + | + |  |  |  |          |
| 14     | 35 ✓                | 4        | ✓✓               |         | xx   | x   | x   | x  | X             | X              | X      |          |        | + | + | + |  |  |  |          |
| 15     | 25 ✓                | 5        | ✓✓               |         | xx   | x   | x   | x  | X             | X              |        |          |        | + | + | + |  |  |  |          |
| 16     | 15 ✓                | 6        | ✓✓               |         | xx   | x   | x   | x  | X             | X              |        |          |        | + | + | + |  |  |  |          |
| 17     | 5 ✓                 | 7        | ✓✓               | X       | xx   | x   | x   | x  | X             | X              | X      |          |        | + | + | + |  |  |  |          |
|        |                     | 8        |                  |         |      |     |     |    |               |                |        |          |        |   |   |   |  |  |  |          |
|        |                     | 9        |                  |         |      |     |     |    |               |                |        |          |        |   |   |   |  |  |  |          |
|        |                     | 10       |                  |         |      |     |     |    |               |                |        |          |        |   |   |   |  |  |  |          |
|        |                     | 11       |                  |         |      |     |     |    |               |                |        |          |        |   |   |   |  |  |  |          |
|        |                     | 12       |                  |         |      |     |     |    |               |                |        |          |        |   |   |   |  |  |  |          |
|        |                     | 13       |                  |         |      |     |     |    |               |                |        |          |        |   |   |   |  |  |  |          |
|        |                     | 14       |                  |         |      |     |     |    |               |                |        |          |        |   |   |   |  |  |  |          |
|        |                     | 15       |                  |         |      |     |     |    |               |                |        |          |        |   |   |   |  |  |  |          |
|        |                     | 16       |                  |         |      |     |     |    |               |                |        |          |        |   |   |   |  |  |  |          |
|        |                     | 17       |                  |         |      |     |     |    |               |                |        |          |        |   |   |   |  |  |  |          |
|        |                     | 18       |                  |         |      |     |     |    |               |                |        |          |        |   |   |   |  |  |  |          |
|        |                     | 19       |                  |         |      |     |     |    |               |                |        |          |        |   |   |   |  |  |  |          |
|        |                     | 20       |                  |         |      |     |     |    |               |                |        |          |        |   |   |   |  |  |  |          |
|        |                     | 21       |                  |         |      |     |     |    |               |                |        |          |        |   |   |   |  |  |  |          |
|        |                     | 22       |                  |         |      |     |     |    |               |                |        |          |        |   |   |   |  |  |  |          |
|        |                     | 23       |                  |         |      |     |     |    |               |                |        |          |        |   |   |   |  |  |  |          |
|        |                     | 24       |                  |         |      |     |     |    |               |                |        |          |        |   |   |   |  |  |  |          |

Comments:



Rosette Log for IOS Cruise ID 2013-05

Cast # 14 UTC Date (ddmmmyyyy) 14072010 In Air pressure 0.1 Water Depth(below hull) 73 m  
Station SLIP-3 UTC Time 1017 Lat (N) 62 22.470 Lon (W) 174 34.204  
CTD File 2013-05-04-SLIP-3 Ship SWL Watchkeepers \_\_\_\_\_ Start scan 16800 Transmissomter cleaned ✓

| Samp # | Depth(m)   | Niskin # | Bottle Integrity | DIC/Alk | NUTS | SAL | O18 | Ba | Grebmer - Chl | Grebmer - Nuts | Grebmer - O18 | Varela-Phyto ID | Varela | Kedra-Amino | Frey CDOM | Frey-Chl | Frey-SPM |  |  |  | Comments          |
|--------|------------|----------|------------------|---------|------|-----|-----|----|---------------|----------------|---------------|-----------------|--------|-------------|-----------|----------|----------|--|--|--|-------------------|
| 18     | ✓ bot-5 43 | 1        | ✓✓               |         | xx   | x   | x   | x  | X             | X              | X             |                 |        |             | +         | +        | +        |  |  |  | -1.6 °C 31.93 PSU |
| 19     | ✓ 50       | 2        | ✓✓               |         | xx   | xx  | x   | xx | X             | X              | X             |                 |        |             | +         | +        | +        |  |  |  |                   |
| 20     | ✓ 35       | 3        | ✓✓               |         | xx   | x   | xx  | x  | X             | X              | X             | X               |        |             | +         | +        | +        |  |  |  |                   |
| 21     | ✓ 25       | 4        | ✓✓               |         | xx   | x   | x   | x  | X             | X              | X             |                 |        |             | +         | +        | +        |  |  |  |                   |
| 22     | ✓ 15       | 5        | ✓✓               |         | xx   | x   | x   | x  | X             | X              | X             |                 |        |             | +         | +        | +        |  |  |  |                   |
| 23     | ✓ 5        | 6        | ✓✓               |         | xx   | x   | x   | x  | X             | X              | X             | X               |        |             | +         | +        | +        |  |  |  |                   |
|        |            | 7        |                  |         |      |     |     |    |               |                |               |                 |        |             |           |          |          |  |  |  |                   |
|        |            | 8        |                  |         |      |     |     |    |               |                |               |                 |        |             |           |          |          |  |  |  |                   |
|        |            | 9        |                  |         |      |     |     |    |               |                |               |                 |        |             |           |          |          |  |  |  |                   |
|        |            | 10       |                  |         |      |     |     |    |               |                |               |                 |        |             |           |          |          |  |  |  |                   |
|        |            | 11       |                  |         |      |     |     |    |               |                |               |                 |        |             |           |          |          |  |  |  |                   |
|        |            | 12       |                  |         |      |     |     |    |               |                |               |                 |        |             |           |          |          |  |  |  |                   |
|        |            | 13       |                  |         |      |     |     |    |               |                |               |                 |        |             |           |          |          |  |  |  |                   |
|        |            | 14       |                  |         |      |     |     |    |               |                |               |                 |        |             |           |          |          |  |  |  |                   |
|        |            | 15       |                  |         |      |     |     |    |               |                |               |                 |        |             |           |          |          |  |  |  |                   |
|        |            | 16       |                  |         |      |     |     |    |               |                |               |                 |        |             |           |          |          |  |  |  |                   |
|        |            | 17       |                  |         |      |     |     |    |               |                |               |                 |        |             |           |          |          |  |  |  |                   |
|        |            | 18       |                  |         |      |     |     |    |               |                |               |                 |        |             |           |          |          |  |  |  |                   |
|        |            | 19       |                  |         |      |     |     |    |               |                |               |                 |        |             |           |          |          |  |  |  |                   |
|        |            | 20       |                  |         |      |     |     |    |               |                |               |                 |        |             |           |          |          |  |  |  |                   |
|        |            | 21       |                  |         |      |     |     |    |               |                |               |                 |        |             |           |          |          |  |  |  |                   |
|        |            | 22       |                  |         |      |     |     |    |               |                |               |                 |        |             |           |          |          |  |  |  |                   |
|        |            | 23       |                  |         |      |     |     |    |               |                |               |                 |        |             |           |          |          |  |  |  |                   |
|        |            | 24       |                  |         |      |     |     |    |               |                |               |                 |        |             |           |          |          |  |  |  |                   |

Comments:

# Rosette Log for IOS Cruise ID 2013-05

Cast #6

StationSLIP-5

CTD File2013-05-06-SLIP-5

UTC Date (ddmmmyyyy)14 Jul 2013

UTC Time14:38

ShipSWL

In Air pressure0.2

Water Depth(below-hull)68m

Lat (N)62 33.607

Lon (W)173 32.990

Watchkeepers

Start scan12:00

Transmissometer cleaned✓

| Samp # | Depth(m)   | Niskin # | Bottle Integrity | DIC/AIK | NUTS | SAL | O18 | Ba | Grebmeier - Chi | Grebmeier - Nuts | Grebmeier - O18 | Varela-Phyto ID | Varela | Kedra-Amino | Frey CDOM | Frey-Chl | Frey-SPM |  |  |  | Comments        |
|--------|------------|----------|------------------|---------|------|-----|-----|----|-----------------|------------------|-----------------|-----------------|--------|-------------|-----------|----------|----------|--|--|--|-----------------|
| 24     | ✓ bot-5 61 | 1        | ✓✓               |         | xx   | x   | x   | x  | x               | x                | x               |                 |        |             | +         | +        | +        |  |  |  | -1.67 °C 32.133 |
| 25     | ✓ 50       | 2        | ✓✓               |         | xx   | x   | xx  | x  | x               | x                | x               |                 |        |             | +         | +        | +        |  |  |  |                 |
| 26     | ✓ 35       | 3        | ✓✓               |         | xx   | xx  | x   | xx | x               | x                | x               | x               |        |             | +         | +        | +        |  |  |  |                 |
| 27     | ✓ 25       | 4        | ✓✓               |         | xx   | x   | x   | x  | x               | x                | x               | x               |        |             | +         | +        | +        |  |  |  |                 |
| 28     | ✓ 15       | 5        | ✓✓               |         | xx   | x   | x   | x  | x               | x                | x               | x               |        |             | +         | +        | +        |  |  |  |                 |
| 29     | ✓ 5        | 6        | ✓✓               |         | xx   | x   | x   | x  | x               | x                | x               | x               |        |             | +         | +        | +        |  |  |  |                 |
|        |            | 7        |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                 |
|        |            | 8        |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                 |
|        |            | 9        |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                 |
|        |            | 10       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                 |
|        |            | 11       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                 |
|        |            | 12       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                 |
|        |            | 13       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                 |
|        |            | 14       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                 |
|        |            | 15       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                 |
|        |            | 16       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                 |
|        |            | 17       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                 |
|        |            | 18       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                 |
|        |            | 19       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                 |
|        |            | 20       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                 |
|        |            | 21       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                 |
|        |            | 22       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                 |
|        |            | 23       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                 |
|        |            | 24       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                 |

Comments:



Rosette Log for IOS Cruise ID 2013-05

Cast # 8 UTC Date (ddmmmyyyy) 14 July 2013 In Air pressure 0.2 Water Depth(below-hull) 71 m  
Station SLIP-4 UTC Time 18:42 Lat (N) 63 1.824 Lon (W) 173 27.580  
CTD File 2013-05-08-SLIP-4 Ship SWL Watchkeepers Start scan 8857 Transmissometer cleaned ✓

| Samp # | Depth(m)   | Niskin # | Bottle Integrity | DIC/AIK | NUTS | SAL | O18 | Ba | Grebmeier - Chl | Grebmeier - Nuts | Grebmeier - O18 | Varela-Phyto ID | Varela-Korina | Kedra-Amino | Frey CDOM | Frey-Chl | Frey-SPM |  |  |  |  | Comments |
|--------|------------|----------|------------------|---------|------|-----|-----|----|-----------------|------------------|-----------------|-----------------|---------------|-------------|-----------|----------|----------|--|--|--|--|----------|
| 30     | ✓ bot-5 66 | 1        | ✓✓               | x       | xx   | x   | x   | x  | X               | X                | X               |                 |               |             | +         | +        | +        |  |  |  |  |          |
| 31     | ✓ bot-5    | 2        | ✓✓               |         |      |     |     |    |                 |                  |                 |                 |               |             |           |          |          |  |  |  |  |          |
| 32     | ✓ bot-5    | 3        | ✓✓               |         |      |     |     |    |                 |                  |                 |                 |               |             |           |          |          |  |  |  |  |          |
| 33     | ✓ 50       | 4        | ✓✓               |         | xx   | x   | xx  | x  | X               | X                | X               |                 |               |             | +         | +        | +        |  |  |  |  |          |
| 34     | ✓ 50 48    | 5        | ✓✓               |         |      |     |     |    |                 |                  |                 |                 | X             |             |           |          |          |  |  |  |  |          |
| 35     | ✓ 50 38    | 6        | ✓✓               |         |      |     |     |    |                 |                  |                 | X               | X             |             |           |          |          |  |  |  |  |          |
| 36     | ✓ 35       | 7        | ✓✓               |         | xx   | xx  | x   | xx | X               | X                | X               |                 |               | X           | +         | +        | +        |  |  |  |  |          |
| 37     | ✓ 35       | 8        | ✓✓               |         |      |     |     |    |                 |                  |                 |                 |               |             |           |          |          |  |  |  |  |          |
| 38     | ✓ 35       | 9        | ✓✓               |         |      |     |     |    |                 |                  |                 |                 |               |             |           |          |          |  |  |  |  |          |
| 39     | ✓ 25       | 10       | ✓✓               |         | xx   | x   | x   | x  | X               | X                | X               |                 |               |             | +         | +        | +        |  |  |  |  |          |
| 40     | ✓ 25 25    | 11       | ✓✓               |         |      |     |     |    |                 |                  |                 |                 | X             |             |           |          |          |  |  |  |  |          |
| 41     | ✓ 25 16    | 12       | ✓✓               |         |      |     |     |    |                 |                  |                 |                 | X             |             |           |          |          |  |  |  |  |          |
| 42     | ✓ 15       | 13       | ✓*               |         | xx   | x   | x   | x  | X               | X                | X               |                 |               |             | +         | +        | +        |  |  |  |  |          |
| 43     | ✓ 15       | 14       | ✓✓               |         |      |     |     |    |                 |                  |                 |                 |               |             |           |          |          |  |  |  |  |          |
| 44     | ✓ 15       | 15       | ✓*               |         |      |     |     |    |                 |                  |                 |                 |               |             |           |          |          |  |  |  |  |          |
| 45     | ✓ 5        | 16       | ✓*               | x       | xx   | x   | x   | x  | X               | X                | X               |                 |               |             | +         | +        | +        |  |  |  |  |          |
| 46     | ✓ 5        | 17       | ✓✓               |         |      |     |     |    |                 |                  |                 |                 | X             |             |           |          |          |  |  |  |  |          |
| 47     | ✓ 5        | 18       | ✓*               |         |      |     |     |    |                 |                  |                 |                 | X             |             |           |          |          |  |  |  |  |          |
| 48     | ✓ 5        | 19       | ✓✓               |         |      |     |     |    |                 |                  |                 | X               | X             |             |           |          |          |  |  |  |  |          |
|        |            | 20       |                  |         |      |     |     |    |                 |                  |                 |                 |               |             |           |          |          |  |  |  |  |          |
|        |            | 21       |                  |         |      |     |     |    |                 |                  |                 |                 |               |             |           |          |          |  |  |  |  |          |
|        |            | 22       |                  |         |      |     |     |    |                 |                  |                 |                 |               |             |           |          |          |  |  |  |  |          |
|        |            | 23       |                  |         |      |     |     |    |                 |                  |                 |                 |               |             |           |          |          |  |  |  |  |          |
|        |            | 24       |                  |         |      |     |     |    |                 |                  |                 |                 |               |             |           |          |          |  |  |  |  |          |

Comments:

8 - Sample Start in 8:13 AM

Rosette Log for IOS Cruise ID 2013-05

Cast # 11 UTC Date (ddmmmyyyy) 15/2/2010 In Air pressure 0.3 Water Depth(below hull)- 54 m  
Station BCL-6A UTC Time 02 08 Lat (N) 63 55.207 Lon (W) 172 5.921  
CTD File 2013-05-11-BCL-6A Ship SWL Watchkeepers Start scan 9460 Transmissomter cleaned

| Samp # | Depth(m)   | Niskin # | Bottle Integrity | DIC/Alk | NUTS | SAL | O18 | Ba | Grebeier--Chl | Grebmeyer - Nuts | Grebmeyer--O18 | Varela-Phyto ID | Varela | Kedra-Amino | Frey CDOM | Frey-Chl | Frey-SPM |  |  |  | Comments |
|--------|------------|----------|------------------|---------|------|-----|-----|----|---------------|------------------|----------------|-----------------|--------|-------------|-----------|----------|----------|--|--|--|----------|
| 49     | ✓ bot-5 48 | 1        | ✓✓               | x       | xx   | x   | x   | x  |               |                  |                |                 |        |             |           |          |          |  |  |  |          |
| 50     | ✓ 35       | 2        | ✓✓               |         | xx   | xx  | x   | x  |               |                  |                | x               |        |             |           |          |          |  |  |  |          |
| 51     | ✓ 25       | 3        | ✓✓               |         | xx   | x   | xx  | xx |               |                  |                |                 |        |             |           |          |          |  |  |  |          |
| 52     | ✓ 15       | 4        | ✓✓               |         | xx   | x   | x   | x  |               |                  |                |                 |        |             |           |          |          |  |  |  |          |
| 53     | ✓ 5        | 5        | ✓✓               | x       | xx   | x   | x   | x  |               |                  |                | x               |        |             |           |          |          |  |  |  |          |
|        |            | 6        |                  |         |      |     |     |    |               |                  |                |                 |        |             |           |          |          |  |  |  |          |
|        |            | 7        |                  |         |      |     |     |    |               |                  |                |                 |        |             |           |          |          |  |  |  |          |
|        |            | 8        |                  |         |      |     |     |    |               |                  |                |                 |        |             |           |          |          |  |  |  |          |
|        |            | 9        |                  |         |      |     |     |    |               |                  |                |                 |        |             |           |          |          |  |  |  |          |
|        |            | 10       |                  |         |      |     |     |    |               |                  |                |                 |        |             |           |          |          |  |  |  |          |
|        |            | 11       |                  |         |      |     |     |    |               |                  |                |                 |        |             |           |          |          |  |  |  |          |
|        |            | 12       |                  |         |      |     |     |    |               |                  |                |                 |        |             |           |          |          |  |  |  |          |
|        |            | 13       |                  |         |      |     |     |    |               |                  |                |                 |        |             |           |          |          |  |  |  |          |
|        |            | 14       |                  |         |      |     |     |    |               |                  |                |                 |        |             |           |          |          |  |  |  |          |
|        |            | 15       |                  |         |      |     |     |    |               |                  |                |                 |        |             |           |          |          |  |  |  |          |
|        |            | 16       |                  |         |      |     |     |    |               |                  |                |                 |        |             |           |          |          |  |  |  |          |
|        |            | 17       |                  |         |      |     |     |    |               |                  |                |                 |        |             |           |          |          |  |  |  |          |
|        |            | 18       |                  |         |      |     |     |    |               |                  |                |                 |        |             |           |          |          |  |  |  |          |
|        |            | 19       |                  |         |      |     |     |    |               |                  |                |                 |        |             |           |          |          |  |  |  |          |
|        |            | 20       |                  |         |      |     |     |    |               |                  |                |                 |        |             |           |          |          |  |  |  |          |
|        |            | 21       |                  |         |      |     |     |    |               |                  |                |                 |        |             |           |          |          |  |  |  |          |
|        |            | 22       |                  |         |      |     |     |    |               |                  |                |                 |        |             |           |          |          |  |  |  |          |
|        |            | 23       |                  |         |      |     |     |    |               |                  |                |                 |        |             |           |          |          |  |  |  |          |
|        |            | 24       |                  |         |      |     |     |    |               |                  |                |                 |        |             |           |          |          |  |  |  |          |

Comments:



Rosette Log for IOS Cruise ID 2013-05

Cast # 14      UTC Date (ddmmmyyyy) 15/02/10      In Air pressure 0.3      Water Depth(below hull) 49 m  
Station UTBS-5      UTC Time 0957      Lat (N) 64 40.258      Lon (W) 169 55.253  
CTD File 2013-05-14-0710-5      Ship SWL      Watchkeepers      Start scan 9700      Transmissomter cleaned ✓

| Samp # | Depth(m)   | Niskin # | Bottle Integrity | DIC/AIK | NUTS | SAL | O18 | Ba | Grebmeier - Chl | Grebmeier - Nuts | Grebmeier - O18 | Varela-Phyto ID | Varela | Kedra-Amino | Frey CDOM | Frey-Chl | Frey-SPM |  |  |  | Comments            |
|--------|------------|----------|------------------|---------|------|-----|-----|----|-----------------|------------------|-----------------|-----------------|--------|-------------|-----------|----------|----------|--|--|--|---------------------|
| 54     | ✓ bot-5 44 | 1        | ✓✓               |         | xx   | x   | x   | x  | X               | X                | X               |                 |        |             | +         | +        | +        |  |  |  | bw T=1.07°C, S=32.4 |
| 55     | ✓ 35       | 2        | ✓✓               |         | xx   | xx  | x   | x  | X               | X                | X               |                 |        |             | +         | +        | +        |  |  |  |                     |
| 56     | ✓ 25       | 3        | ✓✓               |         | xx   | x   | xx  | xx | X               | X                | X               |                 |        |             | +         | +        | +        |  |  |  |                     |
| 57     | ✓ 15       | 4        | ✓✓               |         | xx   | x   | x   | x  | X               | X                | X               |                 |        | X           | +         | +        | +        |  |  |  |                     |
| 58     | ✓ 5        | 5        | ✓✓               |         | xx   | x   | x   | x  | X               | X                | X               | X               |        |             | +         | +        | +        |  |  |  |                     |
|        |            | 6        |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |
|        |            | 7        |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |
|        |            | 8        |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |
|        |            | 9        |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |
|        |            | 10       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |
|        |            | 11       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |
|        |            | 12       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |
|        |            | 13       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |
|        |            | 14       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |
|        |            | 15       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |
|        |            | 16       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |
|        |            | 17       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |
|        |            | 18       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |
|        |            | 19       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |
|        |            | 20       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |
|        |            | 21       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |
|        |            | 22       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |
|        |            | 23       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |
|        |            | 24       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |

Comments:

# Rosette Log for IOS Cruise ID 2013-05

Cast # 15      UTC Date (ddmmmyyyy) 15 Jul 2013      In Air pressure \_\_\_\_\_      Water Depth(below hull) 50 m  
Station UTBS-4      UTC Time 1208      Lat (N) 64 57.756      Lon (W) 169 53.211  
CTD File 2013-05-15-UTBS-4      Ship SWL      Watchkeepers \_\_\_\_\_      Start scan 6000      Transmissometer cleaned ☒

| Samp # | Depth(m)   | Niskin # | Bottle Integrity | DIC/Alk | NUTS | SAL | O18 | Ba | Grebmeier - Chl | Grebmeier - Nuts | Grebmeier - O18 | Varela-Phyto ID | Varela | Kedra-Amino | Frey CDOM | Frey-Chl | Frey-SPM |  |  |  | Comments            |
|--------|------------|----------|------------------|---------|------|-----|-----|----|-----------------|------------------|-----------------|-----------------|--------|-------------|-----------|----------|----------|--|--|--|---------------------|
| 59     | ✓ bot-5 45 | 1        | ✓✓               | xx      | xx   | x   | x   | x  | x               | x                | x               |                 |        |             | x         | x        | x        |  |  |  | 13W T=0.3°C, s=32.5 |
| 60     | ✓ 35       | 2        | ✓✓               |         | xx   | x   | xx  | x  | x               | x                | x               |                 |        |             | x         | x        | x        |  |  |  |                     |
| 61     | ✓ 25       | 3        | ✓✓               |         | xx   | xx  | x   | xx | x               | x                | x               |                 |        |             | x         | x        | x        |  |  |  |                     |
| 62     | ✓ 15       | 4        | ✓✓               |         | xx   | x   | x   | x  | x               | x                | x               |                 |        |             | x         | x        | x        |  |  |  |                     |
| 63     | 5          | 5        | ✓✓               | x       | xx   | x   | x   | x  | x               | x                | x               | x               |        |             | x         | x        | x        |  |  |  |                     |
|        |            | 6        |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |
|        |            | 7        |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |
|        |            | 8        |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |
|        |            | 9        |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |
|        |            | 10       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |
|        |            | 11       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |
|        |            | 12       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |
|        |            | 13       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |
|        |            | 14       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |
|        |            | 15       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |
|        |            | 16       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |
|        |            | 17       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |
|        |            | 18       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |
|        |            | 19       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |
|        |            | 20       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |
|        |            | 21       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |
|        |            | 22       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |
|        |            | 23       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |
|        |            | 24       |                  |         |      |     |     |    |                 |                  |                 |                 |        |             |           |          |          |  |  |  |                     |

Comments:



## Rosette Log for IOS Cruise ID 2013-05

**Cast #** **16**

UTC Date (ddmmmyyyy) 15 Jul 2010

In Air pressure 0.2

Water Depth(below hull) 49 m

Station UTBS-1

UTC Time 1524

Lat (N) 64 59.510

Lon (W) 169 8.352

CTD File 2013-05-16-1705-1

Ship SWL

## Watchkeepers

Start scan 10600

Transmissometer cleaned ✓

[illegible]

Comments:

## Rosette Log for IOS Cruise ID 2013-05

**Cast #** 17

UTC Date (ddmmmyyyy) 15 July 2013

In Air pressure 0.3

Water Depth(below hull) 4/6 m

Station UTBS-2

UTC Time 18578

Lat (N) 64 40.981

Lon (W) 169 6.277

CTD File 2013-05-17-UTOS-2

Ship SWL

**Watchkeepers** \_\_\_\_\_

Start scan 14100

Transmissometer cleaned ✓

[illegible]

Comments:



## Rosette Log for IOS Cruise ID 2013-05

Cast # 4019

UTC Date (ddmmmyyyy) 16 Jul 2013

In Air pressure 0.3

Water Depth(below hull) 79 m

Station BRS-5

UTC Time 15320

Lat (N) 65 43.016

Lon (W) 168 53 50.0

CTD File 2013-05-\_\_\_\_\_

Ship SWL

### Watchkeepers \_\_\_\_\_

Start scan 8900

Transmissometer cleaned ✓

[illegible]

Comments:

## Rosette Log for IOS Cruise ID 2013-05

Cast # ~~19~~ 20

UTC Date (ddmmmyyyy) 16 Dec 2013

In Air pressure 0.3

Water Depth(below hull) 53 m

Station BRS-3

UTC Time 16:04

Lat (N) 65 42.200

Lon (W) 163 46.771

CTD File 2013-05-20-1325-3

Ship SWL      Watchkeepers \_\_\_\_\_

Start scan 8700

Transmissometer cleaned ✓

[illegible]

Comments:



## Rosette Log for IOS Cruise ID 2013-05

**Cast #** 21

UTC Date (ddmmmyyyy) 1930/2010

In Air pressure 0.8

Water Depth(below hull) 34 m

Station UTN-1

UTC Time 12:03

Lat (N) 66 42.654

Lon (W) 168 20.917

CTD File 2013-05-21-0714-1

Ship SWL

## Watchkeepers \_\_\_\_\_

Start scan 9000

Transmissometer cleaned ✓

[illegible]

Comments:

## Rosette Log for IOS Cruise ID 2013-05

**Cast #** 22

UTC Date (ddmmmyyyy) 19 Jul 2010

In Air pressure 0.3

Water Depth(below hull) 4.6 m

Station UTN-2

UTC Time 14:50

Lat (N) 67 3.022

Lon (W) 168 43.717

CTD File 2013-05-22-074-2

**Ship SWL**

**Watchkeepers** \_\_\_\_\_

Start scan 10270

Transmissometer cleaned 1

[illegible]

Comments:



## Rosette Log for IOS Cruise ID 2013-05

**Cast #** 23

UTC Date (ddmmmyyyy) 19 24/2-10

In Air pressure 0.4

Water Depth(below hull) 51 m

Station UTN-3

UTC Time 17:21

Lat (N) 67 19.676

Lon (W) 169 56.579

CTD File 2013-05-23-0744-3

Ship SWL                      Watchkeepers \_\_\_\_\_

Start scan 11300

Transmissometer cleaned ✓

[illegible]

Comments:

## Rosette Log for IOS Cruise ID 2013-05

**Cast #** 24

UTC Date (ddmmmyyyy) 1920/2010

In Air pressure 0.3

Water Depth 51 m

Station UTN-4

UTC Time 19:07

Lat (N) 67 30.005

Lon (W) 168 56.578

CTD File 2013-05-27-07N-4

Ship SWL

### Watchkeepers \_\_\_\_\_

Start scan 12700

Transmissometer cleaned ✓

[illegible]

Comments:



## Rosette Log for IOS Cruise ID 2013-05

**Cast #** 25

UTC Date (ddmmmyyyy) 19 Jul 2013

In Air pressure 0.3

Water Depth 51 m

Station SEC-1 (UTN-5)

UTC Time 20:55

Lat (N) 67 40.220

Lon (W) 168 56.573

CTD File 2013-05-25-500-1

Ship SWL                      Watchkeepers \_\_\_\_\_

Start scan 12400

Transmissometer cleaned ✓

[illegible]

Comments:

## Rosette Log for IOS Cruise ID 2013-05

**Cast #** 26

UTC Date (ddmmmyyyy) 19 Jul 2010

In Air pressure 0.3

Water Depth 270 m

Station UTN-6

UTC Time 22:55

Lat (N) 67 48.513

Lon (W) 168 26.081

CTD File 2013-05-\_\_\_\_\_

Ship SWL

**Watchkeepers** \_\_\_\_\_

Start scan 11500

Transmissometer cleaned ✓

[illegible]

Comments:



## Rosette Log for IOS Cruise ID 2013-05

**Cast #** 27

UTC Date (ddmmmyyyy) 20 Jul 2010

In Air pressure 0.4

Water Depth 51 m

Station SEC-2

UTC Time 00:05

Lat (N) 67 46.763

Lon (W) 168 36.464

CTD File 2013-05-\_\_\_\_\_

Ship SWL                      Watchkeepers \_\_\_\_\_

Start scan 8900

Transmissometer cleaned ✓

[illegible]

Comments:

## Rosette Log for IOS Cruise ID 2013-05

Cast # 28

UTC Date (ddmmmyyyy) 20 Jul 2019

In Air pressure 0.3

Water Depth 35 m

Station SEC-8

UTC Time 05:05

Lat (N) 68 17.984

Lon (W) 166 56.867

CTD File 2013-05-28-52C-8

**Ship SWL**

**Watchkeepers** \_\_\_\_\_

Start scan 21100

Transmissometer cleaned ✓

[illegible]

Comments:



## Rosette Log for IOS Cruise ID 2013-05

**Cast #** **29**

UTC Date (ddmmmyyyy) 20 301 2013

In Air pressure 0.3

Water Depth 43 m

Station SEC-7

UTC Time 07:08

Lat (N) 68 14.586

Lon (W) 167 7.256

CTD File 2013-05-29-800-7

Ship SWL

## Watchkeepers

Start scan 10700

Transmissometer cleaned ✓

[illegible]

Comments:

## Rosette Log for IOS Cruise ID 2013-05

|          |                  |                      |             |                 |           |             |            |                         |                                     |
|----------|------------------|----------------------|-------------|-----------------|-----------|-------------|------------|-------------------------|-------------------------------------|
| Cast #   | 30               | UTC Date (ddmmmyyyy) | 20 Jul 2010 | In Air pressure | 0.4       | Water Depth | 49         | m                       |                                     |
| Station  | SEC-6            | UTC Time             | 08:26       | Lat (N)         | 68 11.069 | Lon (W)     | 167 18.516 |                         |                                     |
| CTD File | 2013-05-30-SEC-6 | Ship SWL             |             | Watchkeepers    |           | Start scan  | 10300      | Transmissometer cleaned | <input checked="" type="checkbox"/> |

[illegible]

Comments:



## Rosette Log for IOS Cruise ID 2013-05

**Cast #** 31

UTC Date (ddmmmyyyy) 20 Jul 2013

In Air pressure 0.9

Water Depth 51 m

Station SEC-5

UTC Time 09:45

Lat (N) 68 7.646

Lon (W) 167 29.642

CTD File 2013-05-31-560-5

Ship SWL                      Watchkeepers \_\_\_\_\_

Start scan 8888

Transmissometer cleaned ✓

[illegible]

Comments:

## Rosette Log for IOS Cruise ID 2013-05

**Cast #** 32

UTC Date (ddmmmyyyy) 2021 2010

In Air pressure 0.4

Water Depth 54 m

Station SEC-4

UTC Time 11:32

Lat (N) 6° 0.828

Lon (W) 167 52.068

CTD File 2013-05-32-520-4

**Ship SWL**

**Watchkeepers** \_\_\_\_\_

Start scan 10200

Transmissometer cleaned ✓

[illegible]

Comments:



## Rosette Log for IOS Cruise ID 2013-05

**Cast #** **33**

UTC Date (ddmmmyyyy) 20 301 2010

In Air pressure 0.2

Water Depth 60 m

Station SEC-3

UTC Time 13:02

Lat (N) 67 53.891

Lon (W) 168 13.936

CTD File 2013-05-33-sec-3

Ship SWL

### Watchkeepers

Start scan 1100

Transmissometer cleaned ✓

[illegible]

Comments:

## Rosette Log for IOS Cruise ID 2013-05

**Cast #** **34**

UTC Date (ddmmmyyyy) 2005/2003

In Air pressure 0.9

Water Depth 59 m

Station UTN-7

UTC Time 1604

Lat (N) 67 59.920

Lon (W) 165 56. 933

CTD File 2013-05-34-0711-7

Ship SWL                      Watchkeepers \_\_\_\_\_

Start scan 8700

Transmissometer cleaned ✓

[illegible]

Comments:



## Rosette Log for IOS Cruise ID 2013-05

**Cast #** **35**

UTC Date (ddmmmyyyy) 21 Jul 2013

In Air pressure 0.3

Water Depth 43 m

Station DBO-4.6

UTC Time 19:07

Lat (N) 71 36.987

Lon (W) 163 47.092

CTD File 2013-05-\_\_\_\_\_

Ship SWL

**Watchkeepers** \_\_\_\_\_

Start scan 16800

Transmissometer cleaned ✓

[illegible]

Comments:

N. AOCF - too much sec. tried, but

$\int_4^c$

## Rosette Log for IOS Cruise ID 2013-05

Cast # **36 37**

UTC Date (ddmmmyyyy) 22 Jul 2013

In Air pressure 0.3

Water Depth 43 m

Station DBO-4.5

UTC Time 05:05

Lat (N) 71 29.485

Lon (W) 163 24.026

CTD File 2013-05-37-DB0-4.5

Ship SWL      Watchkeepers \_\_\_\_\_

Start scan 13200

Transmissometer cleaned ✓

[illegible]

Comments:

7<sup>th</sup> 11 2000 12:00 10:00

4 ce



## Rosette Log for IOS Cruise ID 2013-05

**Cast #** 39

UTC Date (ddmmmyyyy) \_\_\_\_\_

In Air pressure 0.4

Water Depth 48 m

**Station**      **DBO-4.4**

UTC Time \_\_\_\_\_

Lat (N) 71 21.620

Lon (W) 163 1.669

CTD File 2013-05-\_\_\_\_\_

Ship SWL                      Watchkeepers \_\_\_\_\_

Start scan 12250

Transmissometer cleaned ✓

[illegible]

Comments:

Ms. B. 1. 1. 1. 1. 1. 1.

## Rosette Log for IOS Cruise ID 2013-05

**Cast #** 41

UTC Date (ddmmmyyyy) 22 Jul 2010

In Air pressure 1013

Water Depth 1.0 m

Station DBO-4.3

UTC Time 1208

Lat (N) 77° 13.9'

Lon (W) 162 50.576CTD File 2013-05-41-000-9-0

Ship SWL

### Watchkeepers \_\_\_\_\_

Start scan                     

Transmissometer cleaned ✓

[illegible]

Comments: