



# Plankton Net Tow Log Sheet

Cruise #: 2018-73 Vessel:

Page: 1

Project(s): IPEC

Contact: Hugh

TSK Serial #:

RBR serial #: 82527

Time offset = +

hrs = UTC (please record local time for samples)

|                      |                 |                        |       |
|----------------------|-----------------|------------------------|-------|
| Date: JULY 6/18      | Station: 115 36 | Time: 2130             | LOCAL |
| Net Event # 3        | CTD # 2         |                        |       |
| Latitude: 50 31 30 N |                 | Longitude: 126 39 74 W |       |
| deg min.dec          |                 | deg min.dec            |       |
| Wire out: 100        | Wire angle: 5   | Bottom Depth: 110      |       |
| Net Type: VMH        | Tow Type: BONGO |                        |       |
| Flow start           | Flow end        | Flow = frozen          |       |
| 26750                | 26900           | Non-flow = pickled     |       |

Notes:

|                      |                 |                        |       |
|----------------------|-----------------|------------------------|-------|
| Date: 7/7/18         | Station: 110 43 | Time: 0506             | LOCAL |
| Net Event # 7        | CTD # 6         |                        |       |
| Latitude: 51 12 07 N |                 | Longitude: 127 57 57 W |       |
| deg min.dec          |                 | deg min.dec            |       |
| Wire out: 140        | Wire angle: 0   | Bottom Depth: 150      |       |
| Net Type: VMH        | Tow Type: BONGO |                        |       |
| Flow start           | Flow end        | Flow = frozen          |       |
| 27315                | 27620           | Non-flow = pickled     |       |

Notes:

|                      |                   |                        |       |
|----------------------|-------------------|------------------------|-------|
| Date: 7/7/18         | Station: 114 18 F | Time: 2014             | LOCAL |
| Net Event # 11       | CTD # 10          |                        |       |
| Latitude: 51 09 22 N |                   | Longitude: 127 50 19 W |       |
| deg min.dec          |                   | deg min.dec            |       |
| Wire out: 65         | Wire angle: 0     | Bottom Depth: 75       |       |
| Net Type: VMH        | Tow Type: BONGO   |                        |       |
| Flow start           | Flow end          | Flow = frozen          |       |
| 29100                | 30570             | Non-flow = pickled     |       |

Notes:

1st Tow FLIPPED  
this is 2nd Tow

|                      |                   |                        |       |
|----------------------|-------------------|------------------------|-------|
| Date: 8/7/18         | Station: 112 91 F | Time: 0219             | LOCAL |
| Net Event # 15       | CTD # 14          |                        |       |
| Latitude: 51 05 42 N |                   | Longitude: 127 59 99 W |       |
| deg min.dec          |                   | deg min.dec            |       |
| Wire out: 125        | Wire angle: 0     | Bottom Depth: 135      |       |
| Net Type: VMH        | Tow Type: BONGO   |                        |       |
| Flow start           | Flow end          | Flow = frozen          |       |
| 30575                | 31230             | Non-flow = pickled     |       |

Notes:



# Plankton Net Tow Log Sheet

PEARL

Cruise #: 2018-73 Vessel: NORDIC Page: 2

Project(s): IPGC Contact: AUGA

TSK Serial #: RBR serial #:

Time offset = +

hrs = UTC (please record local time for samples)

|                      |                        |                    |       |
|----------------------|------------------------|--------------------|-------|
| Date: 8/7/18         | Station: 10769-F       | Time: 1706         | LOCAL |
| Net Event # 19       | CTD # 18               |                    |       |
| Latitude: 50 58 65 N | Longitude: 129 12 32 W |                    |       |
| deg min.dec          | deg min.dec            |                    |       |
| Wire out: 135        | Wire angle: 0          | Bottom Depth: 144  |       |
| Net Type: VNH        | Tow Type: BONGO        |                    |       |
| Flow start           | Flow end               | Flow = frozen      |       |
| 3 1365               | 32 390                 | Non-flow = pickled |       |

Notes:

|                      |                        |                    |       |
|----------------------|------------------------|--------------------|-------|
| Date: 8/7/18         | Station: 11522 F       | Time: 2018         | LOCAL |
| Net Event # 23       | CTD # 22               |                    |       |
| Latitude: 51 11 01 N | Longitude: 129 03 57 W |                    |       |
| deg min.dec          | deg min.dec            |                    |       |
| Wire out: 135        | Wire angle: 10°        | Bottom Depth: 147  |       |
| Net Type: VNH        | Tow Type: BONGO        |                    |       |
| Flow start           | Flow end               | Flow = frozen      |       |
| 32 390               | 33 455                 | Non-flow = pickled |       |

Notes:

|                      |                        |                    |       |
|----------------------|------------------------|--------------------|-------|
| Date: 9/7/18         | Station: 11146-F       | Time: 0100         | LOCAL |
| Net Event # 27       | CTD # 26               |                    |       |
| Latitude: 51 03 93 N | Longitude: 129 08 45 W |                    |       |
| deg min.dec          | deg min.dec            |                    |       |
| Wire out: 130        | Wire angle: 5          | Bottom Depth: 142  |       |
| Net Type: VNH        | Tow Type: BONGO        |                    |       |
| Flow start           | Flow end               | Flow = frozen      |       |
| 33455                | 34634                  | Non-flow = pickled |       |

Notes:

|                      |                        |                    |       |
|----------------------|------------------------|--------------------|-------|
| Date: 9/7/18         | Station: 10404-F       | Time: 1708         | LOCAL |
| Net Event # 31       | CTD # 30               |                    |       |
| Latitude: 50 52 19 N | Longitude: 120 38 41 W |                    |       |
| deg min.dec          | deg min.dec            |                    |       |
| Wire out: 75         | Wire angle: 0          | Bottom Depth: 03   |       |
| Net Type: VNH        | Tow Type: BONGO        |                    |       |
| Flow start           | Flow end               | Flow = frozen      |       |
| 34634                | 45300                  | Non-flow = pickled |       |

Notes:

35300



# Plankton Net Tow Log Sheet

Cruise #: 2018-73 Vessel:

Page: 3

Project(s):

Contact: HUGL

TSK Serial #:

RBR serial #:

Time offset = +

hrs = UTC (please record local time for samples)

|                      |                        |                    |       |
|----------------------|------------------------|--------------------|-------|
| Date: 9/7/18         | Station: 10534-F       | Time: 2036         | LOCAL |
| Net Event # 35       | CTD # 34               |                    |       |
| Latitude: 50 53 73 N | Longitude: 126 22 91 W |                    |       |
| deg min.dec          | deg min.dec            |                    |       |
| Wire out: 35         | Wire angle: 0          | Bottom Depth: 45   |       |
| Net Type: VNH        | Tow Type: BONGO        |                    |       |
| Flow start           | Flow end               | Flow = frozen      |       |
| 35300                | 35590                  | Non-flow = pickled |       |

Notes:

|                      |                        |                    |       |
|----------------------|------------------------|--------------------|-------|
| Date: 10/7/18        | Station: 10781 F       | Time: 0118         | LOCAL |
| Net Event # 39       | CTD # 38               |                    |       |
| Latitude: 50 56 26 N | Longitude: 128 33 82 W |                    |       |
| deg min.dec          | deg min.dec            |                    |       |
| Wire out: 50         | Wire angle: 0          | Bottom Depth: 61   |       |
| Net Type: VNH        | Tow Type: BONGO        |                    |       |
| Flow start           | Flow end               | Flow = frozen      |       |
| 35590                | 36055                  | Non-flow = pickled |       |

Notes:

|                      |                        |                    |       |
|----------------------|------------------------|--------------------|-------|
| Date: 10/7/18        | Station: 9900 F        | Time:              | LOCAL |
| Net Event # 43       | CTD # 42               |                    |       |
| Latitude: 50 43 60 N | Longitude: 128 52 99 W |                    |       |
| deg min.dec          | deg min.dec            |                    |       |
| Wire out: 140        | Wire angle: 0          | Bottom Depth: 152  |       |
| Net Type: VNH        | Tow Type: BONGO        |                    |       |
| Flow start           | Flow end               | Flow = frozen      |       |
| 36055                | 36375                  | Non-flow = pickled |       |

Notes:

|                      |                        |                    |       |
|----------------------|------------------------|--------------------|-------|
| Date: 10/7/18        | Station: 10148-F       | Time: 1948         | LOCAL |
| Net Event # 47       | CTD # 46               |                    |       |
| Latitude: 50 48 17 N | Longitude: 128 58 67 W |                    |       |
| deg min.dec          | deg min.dec            |                    |       |
| Wire out: 95         | Wire angle: 0          | Bottom Depth: 105  |       |
| Net Type: VNH        | Tow Type: BONGO        |                    |       |
| Flow start           | Flow end               | Flow = frozen      |       |
| 36375                | 38190                  | Non-flow = pickled |       |

Notes:



# Plankton Net Tow Log Sheet

Cruise #: Vessel: Page: 4  
Project(s): Contact:  
TSK Serial #: RBR serial #:  
Time offset = + hrs = UTC (please record local time for samples)

|                      |                        |                    |       |
|----------------------|------------------------|--------------------|-------|
| Date: 11/7/18        | Station: 9898-F        | Time: 0027         | LOCAL |
| Net Event # 51       | CTD # 50               |                    |       |
| Latitude: 50 42 11 N | Longitude: 128 58 35 W |                    |       |
| deg min.dec          | deg min.dec            |                    |       |
| Wire out: 200        | Wire angle: 30°        | Bottom Depth: 210  |       |
| Net Type: VNH        | Tow Type: BONGO        |                    |       |
| Flow start           | Flow end               | Flow = frozen      |       |
| 38190                | 39230                  | Non-flow = pickled |       |

Notes:

|                |                 |                    |       |
|----------------|-----------------|--------------------|-------|
| Date: 11/7/18  | Station: 9037-F | Time:              | LOCAL |
| Net Event # 55 | CTD # 54        |                    |       |
| Latitude: N    | Longitude: W    |                    |       |
| deg min.dec    | deg min.dec     |                    |       |
| Wire out:      | Wire angle:     | Bottom Depth:      |       |
| Net Type: VNH  | Tow Type: BONGO |                    |       |
| Flow start     | Flow end        | Flow = frozen      |       |
| 39230          |                 | Non-flow = pickled |       |

Notes:

NO BONGO - TOO ROUGH

|                |                 |                    |       |
|----------------|-----------------|--------------------|-------|
| Date: 11/1/18  | Station: 8293   | Time:              | LOCAL |
| Net Event # 58 | CTD # 57        |                    |       |
| Latitude: N    | Longitude: W    |                    |       |
| deg min.dec    | deg min.dec     |                    |       |
| Wire out:      | Wire angle:     | Bottom Depth:      |       |
| Net Type: VNH  | Tow Type: BONGO |                    |       |
| Flow start     | Flow end        | Flow = frozen      |       |
| 39230          |                 | Non-flow = pickled |       |

Notes:

NO BONGO

|                |                 |                    |       |
|----------------|-----------------|--------------------|-------|
| Date: 12/7/18  | Station: 8789   | Time:              | LOCAL |
| Net Event # 61 | CTD # 60        |                    |       |
| Latitude: N    | Longitude: W    |                    |       |
| deg min.dec    | deg min.dec     |                    |       |
| Wire out:      | Wire angle:     | Bottom Depth:      |       |
| Net Type: VNH  | Tow Type: BONGO |                    |       |
| Flow start     | Flow end        | Flow = frozen      |       |
| 39230          |                 | Non-flow = pickled |       |

Notes:



# Plankton Net Tow Log Sheet

Cruise #: 2018-73 Vessel:

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Project(s):

Contact: Hugh

TSK Serial #:

RBR serial #:

Time offset = +

hrs = UTC (please record local time for samples)

|                      |                        |                    |       |
|----------------------|------------------------|--------------------|-------|
| Date: 12/7/18        | Station: 1V1 01        | Time: 1807         | LOCAL |
| Net Event # 63       | CTD # 62               |                    |       |
| Latitude: 50 28 56 N | Longitude: 127 40 41 W |                    |       |
| deg min.dec          | deg min.dec            |                    |       |
| Wire out: 120        | Wire angle: 0          | Bottom Depth: 133  |       |
| Net Type: VHH        | Tow Type: BONGO        |                    |       |
| Flow start           | Flow end               | Flow = frozen      |       |
| 40230                | 40925                  | Non-flow = pickled |       |

Notes:

|                      |                        |                    |       |
|----------------------|------------------------|--------------------|-------|
| Date: 12/7/18        | Station: 1V1 02        | Time: 1934         | LOCAL |
| Net Event # 66       | CTD # 65               |                    |       |
| Latitude: 50 30 03 N | Longitude: 127 42 19 W |                    |       |
| deg min.dec          | deg min.dec            |                    |       |
| Wire out: 110        | Wire angle: 0          | Bottom Depth: 118  |       |
| Net Type: VHH        | Tow Type: BONGO        |                    |       |
| Flow start           | Flow end               | Flow = frozen      |       |
| 40925                | 41800                  | Non-flow = pickled |       |

Notes:

|                      |                        |                    |       |
|----------------------|------------------------|--------------------|-------|
| Date: 12/7/18        | Station: 1V1 03        | Time: 2123         | LOCAL |
| Net Event # 69       | CTD # 68               |                    |       |
| Latitude: 50 27 00 N | Longitude: 127 31 20 W |                    |       |
| deg min.dec          | deg min.dec            |                    |       |
| Wire out: 180        | Wire angle: 5          | Bottom Depth: 194  |       |
| Net Type: VHH        | Tow Type: BONGO        |                    |       |
| Flow start           | Flow end               | Flow = frozen      |       |
| 41800                | 43525                  | Non-flow = pickled |       |

Notes:

|                      |                        |                    |       |
|----------------------|------------------------|--------------------|-------|
| Date: 14/7/18        | Station: 4202          | Time: 1703         | LOCAL |
| Net Event # 73       | CTD # 72               |                    |       |
| Latitude: 49 00 70 N | Longitude: 126 01 45 W |                    |       |
| deg min.dec          | deg min.dec            |                    |       |
| Wire out: 50         | Wire angle: 0          | Bottom Depth: 59   |       |
| Net Type: VNH        | Tow Type: BONGO        |                    |       |
| Flow start           | Flow end               | Flow = frozen      |       |
| 43525                | 43910                  | Non-flow = pickled |       |

Notes:



# Plankton Net Tow Log Sheet

Cruise #: Vessel: Page: 6

Project(s): Contact:

TSK Serial #: RBR serial #:

Time offset = + hrs = UTC (please record local time for samples)

|                      |                        |                    |       |
|----------------------|------------------------|--------------------|-------|
| Date: 14/7/18        | Station: 3032          | Time: 2006         | LOCAL |
| Net Event # 77       | CTD # 76               |                    |       |
| Latitude: 48 53 51 N | Longitude: 127 46 11 W |                    |       |
| deg min.dec          | deg min.dec            |                    |       |
| Wire out: 100        | Wire angle: 10         | Bottom Depth: 100  |       |
| Net Type: VNH        | Tow Type: BONGO        |                    |       |
| Flow start           | Flow end               | Flow = frozen      |       |
| 49310                | 44066                  | Non-flow = pickled |       |

Notes:

|                      |                        |                    |       |
|----------------------|------------------------|--------------------|-------|
| Date: 15/7/18        | Station: 3954          | Time: 0031         | LOCAL |
| Net Event # 81       | CTD # 80               |                    |       |
| Latitude: 48 57 42 N | Longitude: 125 57 49 W |                    |       |
| deg min.dec          | deg min.dec            |                    |       |
| Wire out: 45         | Wire angle: 5          | Bottom Depth: 54   |       |
| Net Type: VNH        | Tow Type: BONGO        |                    |       |
| Flow start           | Flow end               | Flow = frozen      |       |
| 44860                | 45150                  | Non-flow = pickled |       |

Notes:

|                      |                        |                    |       |
|----------------------|------------------------|--------------------|-------|
| Date: 15/7/18        | Station: 4444          | Time: 1711         | LOCAL |
| Net Event # 85       | CTD # 84               |                    |       |
| Latitude: 49 05 64 N | Longitude: 126 27 68 W |                    |       |
| deg min.dec          | deg min.dec            |                    |       |
| Wire out: 120        | Wire angle: 10         | Bottom Depth: 130  |       |
| Net Type: VNH        | Tow Type: BONGO        |                    |       |
| Flow start           | Flow end               | Flow = frozen      |       |
| 45425                | 46610                  | Non-flow = pickled |       |

Notes:

|                      |                        |                    |       |
|----------------------|------------------------|--------------------|-------|
| Date: 15/7/18        | Station: 4697          | Time: 2115         | LOCAL |
| Net Event # 89       | CTD # 88               |                    |       |
| Latitude: 49 09 09 N | Longitude: 126 17 26 W |                    |       |
| deg min.dec          | deg min.dec            |                    |       |
| Wire out: 50         | Wire angle: 5          | Bottom Depth: 63   |       |
| Net Type: VNH        | Tow Type: BONGO        |                    |       |
| Flow start           | Flow end               | Flow = frozen      |       |
| 46610                | 47230                  | Non-flow = pickled |       |

Notes:



# Plankton Net Tow Log Sheet

Cruise #: 2018-73 Vessel:

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Project(s): IPEC

Contact: Jasmine/Hugh

TSK Serial #:

RBR serial #:

Time offset = +

hrs = UTC (please record local time for samples)

|                      |                        |                    |       |
|----------------------|------------------------|--------------------|-------|
| Date: 16/7/18        | Station: 1033          | Time: 1706         | LOCAL |
| Net Event # 93       | CTD # 92               |                    |       |
| Latitude: 48 18 79 N | Longitude: 125 44 58 W |                    |       |
| deg min.dec          | deg min.dec            |                    |       |
| Wire out: 150        | Wire angle: 10         | Bottom Depth: 160  |       |
| Net Type: VNH        | Tow Type: BONGO        |                    |       |
| Flow start           | Flow end               | Flow = frozen      |       |
| 47230                | 48685                  | Non-flow = pickled |       |

Notes:

|                      |                        |                    |       |
|----------------------|------------------------|--------------------|-------|
| Date: 16/7/18        | Station: 1038          | Time: 2057         | LOCAL |
| Net Event # 97       | CTD # 96               |                    |       |
| Latitude: 48 18 44 N | Longitude: 125 29 98 W |                    |       |
| deg min.dec          | deg min.dec            |                    |       |
| Wire out: 120        | Wire angle: 10         | Bottom Depth: 130  |       |
| Net Type: VNH        | Tow Type: BONGO        |                    |       |
| Flow start           | Flow end               | Flow = frozen      |       |
| 48685                | 49030                  | Non-flow = pickled |       |

Notes:

|                      |                        |                    |       |
|----------------------|------------------------|--------------------|-------|
| Date: 16/7/18        | Station: 1709          | Time: 0119         | LOCAL |
| Net Event # 101      | CTD # 100              |                    |       |
| Latitude: 48 17 52 N | Longitude: 125 43 05 W |                    |       |
| deg min.dec          | deg min.dec            |                    |       |
| Wire out: 160        | Wire angle: 10         | Bottom Depth: 170  |       |
| Net Type: VNH        | Tow Type: BONGO        |                    |       |
| Flow start           | Flow end               | Flow = frozen      |       |
| 49836                | 51405                  | Non-flow = pickled |       |

Notes:

|                        |                          |                    |       |
|------------------------|--------------------------|--------------------|-------|
| Date: 18/07/2018       | Station: 543698          | Time: 17:10        | LOCAL |
| Net Event # 105        | CTD # 104                |                    |       |
| Latitude: 48° 52.126 N | Longitude: 126° 15.874 W |                    |       |
| deg min.dec            | deg min.dec              |                    |       |
| Wire out: 130 m        | Wire angle: 20°          | Bottom Depth: 140m |       |
| Net Type: VNH          | Tow Type: Bongo          |                    |       |
| Flow start 51403       | Flow end 53850           | Flow = frozen      |       |
|                        |                          | Non-flow = pickled |       |

Notes:

JW & OM start



# Plankton Net Tow Log Sheet

Cruise #: Vessel: Page: 8  
Project(s): Contact:  
TSK Serial #: RBR serial #:  
Time offset = + hrs = UTC (please record local time for samples)

|                        |               |                          |       |
|------------------------|---------------|--------------------------|-------|
| Date: 18/07/2018       | Station: 3451 | Time: 19:27              | LOCAL |
| Net Event # 108        | CTD # 107     | bottom                   |       |
| Latitude: 48° 48.217 N |               | Longitude: 126° 06.133 W |       |
| deg min.dec            |               | deg min.dec              |       |
| Wire out: 100          | Wire angle: 5 | Bottom Depth: 108        |       |
| Net Type: Bongo        | Tow Type: VNH |                          |       |
| Flow start             | Flow end      | Flow = frozen            |       |
| 53790                  | 54640         | Non-flow = pickled       |       |

Notes: first net got tangled, so this info from second net deployment. Flowmeter for first deployment: Start: 52850 Stop: 53790

|                        |               |                          |       |
|------------------------|---------------|--------------------------|-------|
| Date: 18/07/2018       | Station: 3202 | Time: 21:11              | LOCAL |
| Net Event # 111        | CTD # 110     |                          |       |
| Latitude: 48° 43.696 N |               | Longitude: 126° 03.408 W |       |
| deg min.dec            |               | deg min.dec              |       |
| Wire out: 100 m        | Wire angle: 5 | Bottom Depth: 109 m      |       |
| Net Type: Bongo        | Tow Type: VNH |                          |       |
| Flow start             | Flow end      | Flow = frozen            |       |
| 54640                  | 55825         | Non-flow = pickled       |       |

Notes:

|                        |                |                          |       |
|------------------------|----------------|--------------------------|-------|
| Date: 20/07/2018       | Station: 2720  | Time: 17:15              | LOCAL |
| Net Event # 121        | CTD # 120      |                          |       |
| Latitude: 48° 33.722 N |                | Longitude: 125° 06.053 W |       |
| deg min.dec            |                | deg min.dec              |       |
| Wire out: 110          | Wire angle: 5° | Bottom Depth: 121        |       |
| Net Type: Bongo        | Tow Type: VNH  |                          |       |
| Flow start             | Flow end       | Flow = frozen            |       |
| 55826                  | 57335          | Non-flow = pickled       |       |

Notes:

|                        |                            |                          |       |
|------------------------|----------------------------|--------------------------|-------|
| Date: 21 July 2018     | Station: 2470              | Time: 19:19              | LOCAL |
| Net Event # 124        | CTD # 123                  |                          |       |
| Latitude: 48° 29.715 N |                            | Longitude: 125° 07.007 W |       |
| deg min.dec            |                            | deg min.dec              |       |
| Wire out: 134          | Wire angle: <del>134</del> | Bottom Depth: 144        |       |
| Net Type: Bongo        | Tow Type: VNH              |                          |       |
| Flow start             | Flow end                   | Flow = frozen            |       |
| 57339                  | 58862                      | Non-flow = pickled       |       |

Notes:



# Plankton Net Tow Log Sheet

Cruise #: 2018-73 Vessel:

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Project(s): IPEC

Contact: Jasmine

TSK Serial #:

RBR serial #:

Time offset = +

hrs = UTC (please record local time for samples)

|                       |                         |                    |                |
|-----------------------|-------------------------|--------------------|----------------|
| Date: 22 JULY 2018    | Station: 5559           | Time: 17:14        | LOCAL (Bottom) |
| Net Event # 131       | CTD # 130               |                    |                |
| Latitude: 49 25.366 N | Longitude: 126 59.920 W |                    |                |
| deg min.dec           | deg min.dec             |                    |                |
| Wire out: 125         | Wire angle: 20          | Bottom Depth: 135  |                |
| Net Type: Bongo       | Tow Type: VNH           |                    |                |
| Flow start            | Flow end                | Flow = frozen      |                |
| 58864                 | 61048                   | Non-flow = pickled |                |

Notes:

|                       |                         |                     |              |
|-----------------------|-------------------------|---------------------|--------------|
| Date: 22 JULY 2018    | Station: 5438           | Time: 20:10         | LOCAL Bottom |
| Net Event # 135       | CTD # 134               |                     |              |
| Latitude: 49 23.245 N | Longitude: 126 47.048 W |                     |              |
| deg min.dec           | deg min.dec             |                     |              |
| Wire out: 85          | Wire angle: 15          | Bottom Depth: 85-95 |              |
| Net Type: Bongo       | Tow Type: VNH           |                     |              |
| Flow start            | Flow end                | Flow = frozen       |              |
| 61048                 | 62235                   | Non-flow = pickled  |              |

Notes:

Really wavy / windy

|                       |                         |                    |       |
|-----------------------|-------------------------|--------------------|-------|
| Date: 23 JULY 2018    | Station:                | Time: 17:01        | LOCAL |
| Net Event # 141       | CTD # 140               |                    |       |
| Latitude: 49 43.140 N | Longitude: 127 22.310 W |                    |       |
| deg min.dec           | deg min.dec             |                    |       |
| Wire out: 85          | Wire angle: 45          | Bottom Depth: 96   |       |
| Net Type: Bongo       | Tow Type: VNH           |                    |       |
| Flow start            | Flow end                | Flow = frozen      |       |
| 62234                 | 64070                   | Non-flow = pickled |       |

Notes:

wavy. cond.

|                       |                         |                    |       |
|-----------------------|-------------------------|--------------------|-------|
| Date: 23 JULY 2018    | Station: 6430           | Time: 18:56        | LOCAL |
| Net Event # 144       | CTD # 143               |                    |       |
| Latitude: 49 40.951 N | Longitude: 127 12.245 W |                    |       |
| deg min.dec           | deg min.dec             |                    |       |
| Wire out: 110         | Wire angle: 35°         | Bottom Depth: 123  |       |
| Net Type: Bongo       | Tow Type: VNH           |                    |       |
| Flow start            | Flow end                | Flow = frozen      |       |
| 64070                 | 66266                   | Non-flow = pickled |       |

Notes:

wavy conditions



# Plankton Net Tow Log Sheet

Cruise #: Vessel: Page: 10  
Project(s): Contact:  
TSK Serial #: RBR serial #:  
Time offset = + hrs = UTC (please record local time for samples)

|                         |                          |                    |                |
|-------------------------|--------------------------|--------------------|----------------|
| Date: 23 July 2018      | Station: 6308            | Time: 20:38        | LOCAL (Bottom) |
| Net Event # 147         | CTD # 146                |                    |                |
| Latitude: 49° 39.013 N  | Longitude: 127° 02.737 W |                    |                |
| deg min.dec             | deg min.dec              |                    |                |
| Wire out: 80            | Wire angle: 20           | Bottom Depth: 92   |                |
| Net Type: Bongo         | Tow Type: VNH            |                    |                |
| Flow start              | Flow end                 | Flow = frozen      |                |
| 66266                   | 67429                    | Non-flow = pickled |                |
| Notes: wavy conditions. |                          |                    |                |

|                        |                          |                    |       |
|------------------------|--------------------------|--------------------|-------|
| Date: 24 July 2018     | Station: 4324            | Time: 17:02        | LOCAL |
| Net Event # 153        | CTD # 152                |                    |       |
| Latitude: 49° 02.899 N | Longitude: 126° 12.051 W |                    |       |
| deg min.dec            | deg min.dec              |                    |       |
| Wire out: 65           | Wire angle: 30           | Bottom Depth: 76   |       |
| Net Type: Bongo        | Tow Type: VNH            |                    |       |
| Flow start             | Flow end                 | Flow = frozen      |       |
| 67430                  | 68045                    | Non-flow = pickled |       |
| Notes:                 |                          |                    |       |

|                        |                          |                    |       |
|------------------------|--------------------------|--------------------|-------|
| Date: 24 July 2018     | Station: 3950            | Time: 17:47        | LOCAL |
| Net Event # 156        | CTD # 155                |                    |       |
| Latitude: 48° 56.542 N | Longitude: 126° 09.118 W |                    |       |
| deg min.dec            | deg min.dec              |                    |       |
| Wire out: 85           | Wire angle: 30°          | Bottom Depth: 94   |       |
| Net Type: Bongo        | Tow Type: VNH            |                    |       |
| Flow start             | Flow end                 | Flow = frozen      |       |
| 68045                  | 69110                    | Non-flow = pickled |       |
| Notes:                 |                          |                    |       |

|                        |                          |                    |                |
|------------------------|--------------------------|--------------------|----------------|
| Date: 24 July 2018     | Station: 3702            | Time: 20:22        | LOCAL (Bottom) |
| Net Event # 159        | CTD # 158                |                    |                |
| Latitude: 48° 52.375 N | Longitude: 126° 01.681 W |                    |                |
| deg min.dec            | deg min.dec              |                    |                |
| Wire out: 65           | Wire angle: 0            | Bottom Depth: 76   |                |
| Net Type: Bongo        | Tow Type: VNH            |                    |                |
| Flow start             | Flow end                 | Flow = frozen      |                |
| 69110                  | 70002                    | Non-flow = pickled |                |
| Notes: 69099           |                          |                    |                |



# Plankton Net Tow Log Sheet

Cruise #: 2018-73 Vessel:

Page: 11

Project(s):

Contact: Jasmine

TSK Serial #:

RBR serial #:

Time offset = +

hrs = UTC (please record local time for samples)

|                        |                         |                    |       |
|------------------------|-------------------------|--------------------|-------|
| Date: 25 July 2018     | Station: 3201           | Time: 17:02        | LOCAL |
| Net Event # 165        | CTD # 164               |                    |       |
| Latitude: 48° 43.300 N | Longitude: 126° 5.511 W |                    |       |
| deg min.dec            | deg min.dec             |                    |       |
| Wire out: 110          | Wire angle: 20°         | Bottom Depth: 118  |       |
| Net Type: Bongo        | Tow Type: VNH           |                    |       |
| Flow start             | Flow end                | Flow = frozen      |       |
| 69099                  | 71730                   | Non-flow = pickled |       |

Notes:

wavy conditions. (~ 3/5 if 5 was perfect & 1 was bad)

|                        |                          |                    |       |
|------------------------|--------------------------|--------------------|-------|
| Date: 25 July 2018     | Station: 3078            | Time: 18:35        | LOCAL |
| Net Event # 168        | CTD # 167                |                    |       |
| Latitude: 48° 40.833 N | Longitude: 125° 59.615 W |                    |       |
| deg min.dec            | deg min.dec              |                    |       |
| Wire out: 90           | Wire angle: 20           | Bottom Depth: 102  |       |
| Net Type: Bongo        | Tow Type: VNH            |                    |       |
| Flow start             | Flow end                 | Flow = frozen      |       |
| 71732                  | 73863                    | Non-flow = pickled |       |

Notes:

wavy conditions. (3/5)

|                        |                          |                    |       |
|------------------------|--------------------------|--------------------|-------|
| Date: 25 July 2018     | Station: 2703            | Time: 20:36        | LOCAL |
| Net Event # 171        | CTD # 170                |                    |       |
| Latitude: 48° 34.749 N | Longitude: 126° 00.749 W |                    |       |
| deg min.dec            | deg min.dec              |                    |       |
| Wire out: 100          | Wire angle: 20           | Bottom Depth: 114  |       |
| Net Type: Bongo        | Tow Type: VNH            |                    |       |
| Flow start             | Flow end                 | Flow = frozen      |       |
| 73863                  | 75055                    | Non-flow = pickled |       |

Notes:

|                        |                          |                    |       |
|------------------------|--------------------------|--------------------|-------|
| Date: 26 July 2018     | Station: 2957            | Time: 16:57        | LOCAL |
| Net Event # 177        | CTD # 176                |                    |       |
| Latitude: 48° 38.730 N | Longitude: 125° 46.390 W |                    |       |
| deg min.dec            | deg min.dec              |                    |       |
| Wire out: 50           | Wire angle:              | Bottom Depth: 64   |       |
| Net Type: Bongo        | Tow Type: VNH            |                    |       |
| Flow start             | Flow end                 | Flow = frozen      |       |
| 75056                  | 75620                    | Non-flow = pickled |       |

Notes:

Red tide



# Plankton Net Tow Log Sheet

Cruise #:

Vessel:

Page: 12

Project(s):

Contact:

TSK Serial #:

RBR serial #:

Time offset = +

hrs = UTC (please record local time for samples)

|                       |                |                         |                |
|-----------------------|----------------|-------------------------|----------------|
| Date: 26 JULY 2018    | Station: 2834  | Time: 18:22             | LOCAL (Bottom) |
| Net Event # 180       | CTD # 179      |                         |                |
| Latitude: 48°36.099 N |                | Longitude: 125°41.122 W |                |
| deg                   | min.dec        | deg                     | min.dec        |
| Wire out: 50          | Wire angle: 10 | Bottom Depth: 60        |                |
| Net Type: DOW60       | Tow Type: VNH  |                         |                |
| Flow start            | Flow end       | Flow = frozen           |                |
| 75619                 | 76280          | Non-flow = pickled      |                |

Notes:

Red Tide.

|                       |                |                        |         |
|-----------------------|----------------|------------------------|---------|
| Date: 26 JULY 2018    | Station: 2710  | Time: 19:40            | LOCAL   |
| Net Event # 183       | CTD # 182      |                        |         |
| Latitude: 48°33.859 N |                | Longitude: 125°58.435W |         |
| deg                   | min.dec        | deg                    | min.dec |
| Wire out: 55          | Wire angle: 10 | Bottom Depth: 66       |         |
| Net Type: BOW60       | Tow Type: VNH  |                        |         |
| Flow start            | Flow end       | Flow = frozen          |         |
| 76279                 | 76804          | Non-flow = pickled     |         |

Notes:

|                       |                |                         |         |
|-----------------------|----------------|-------------------------|---------|
| Date: 27 JULY 2018    | Station: 3088  | Time: 17:03             | LOCAL   |
| Net Event # 189       | CTD # 188      |                         |         |
| Latitude: 48°39.929 N |                | Longitude: 125°27.258 W |         |
| deg                   | min.dec        | deg                     | min.dec |
| Wire out: 55          | Wire angle: 20 | Bottom Depth: 66        |         |
| Net Type: BOW60       | Tow Type: VNH  |                         |         |
| Flow start            | Flow end       | Flow = frozen           |         |
| 76805                 | 77342          | Non-flow = pickled      |         |

Notes:

|                       |                |                         |         |
|-----------------------|----------------|-------------------------|---------|
| Date: 27 JULY 2018    | Station: 2961  | Time: 18:54             | LOCAL   |
| Net Event # 192       | CTD # 191      |                         |         |
| Latitude: 48°38.451 N |                | Longitude: 125°35.768 W |         |
| deg                   | min.dec        | deg                     | min.dec |
| Wire out: 95          | Wire angle: 20 | Bottom Depth: 105       |         |
| Net Type: BOW60       | Tow Type: VNH  |                         |         |
| Flow start            | Flow end       | Flow = frozen           |         |
| 77342                 | 78358          | Non-flow = pickled      |         |

Notes:



# Plankton Net Tow Log Sheet

Cruise #: 2018-73 Vessel: Nordic Pearl Page: 13

Project(s): IPEC

Contact:

TSK Serial #:

RBR serial #:

Time offset = +

hrs = UTC (please record local time for samples)

|                        |                          |                    |                |
|------------------------|--------------------------|--------------------|----------------|
| Date: 27 July 2018     | Station: 2960            | Time: 20:23        | LOCAL (Bottom) |
| Net Event # 195        | CTD # 194                |                    |                |
| Latitude: 48° 39.563 N | Longitude: 125° 38.744 W |                    |                |
| deg min.dec            | deg min.dec              |                    |                |
| Wire out: 120          | Wire angle: 20           | Bottom Depth: 149  |                |
| Net Type: Bongo        | Tow Type: VNH            |                    |                |
| Flow start             | Flow end                 | Flow = frozen      |                |
| 78359                  | 79685                    | Non-flow = pickled |                |

Notes:

|             |              |                    |       |
|-------------|--------------|--------------------|-------|
| Date:       | Station:     | Time:              | LOCAL |
| Net Event # | CTD #        |                    |       |
| Latitude:   | N Longitude: | W                  |       |
| deg min.dec | deg min.dec  |                    |       |
| Wire out:   | Wire angle:  | Bottom Depth:      |       |
| Net Type:   | Tow Type:    |                    |       |
| Flow start  | Flow end     | Flow = frozen      |       |
|             |              | Non-flow = pickled |       |

Notes:

|             |              |                    |       |
|-------------|--------------|--------------------|-------|
| Date:       | Station:     | Time:              | LOCAL |
| Net Event # | CTD #        |                    |       |
| Latitude:   | N Longitude: | W                  |       |
| deg min.dec | deg min.dec  |                    |       |
| Wire out:   | Wire angle:  | Bottom Depth:      |       |
| Net Type:   | Tow Type:    |                    |       |
| Flow start  | Flow end     | Flow = frozen      |       |
|             |              | Non-flow = pickled |       |

Notes:

|             |              |                    |       |
|-------------|--------------|--------------------|-------|
| Date:       | Station:     | Time:              | LOCAL |
| Net Event # | CTD #        |                    |       |
| Latitude:   | N Longitude: | W                  |       |
| deg min.dec | deg min.dec  |                    |       |
| Wire out:   | Wire angle:  | Bottom Depth:      |       |
| Net Type:   | Tow Type:    |                    |       |
| Flow start  | Flow end     | Flow = frozen      |       |
|             |              | Non-flow = pickled |       |

Notes:



# Plankton Net Tow Log Sheet

Cruise #: \_\_\_\_\_ Vessel: \_\_\_\_\_ Page: \_\_\_\_\_  
Project(s): \_\_\_\_\_ Contact: \_\_\_\_\_  
TSK Serial #: \_\_\_\_\_ RBR serial #: \_\_\_\_\_  
Time offset = + \_\_\_\_\_ hrs = UTC (please record local time for samples)

|             |             |                    |       |
|-------------|-------------|--------------------|-------|
| Date:       | Station:    | Time:              | LOCAL |
| Net Event # | CTD #       |                    |       |
| Latitude:   | N           | Longitude:         | W     |
| deg min dec |             | deg min dec        |       |
| Wire out:   | Wire angle: | Bottom Depth:      |       |
| Net Type:   | Tow Type:   |                    |       |
| Flow start  | Flow end    | Flow = frozen      |       |
|             |             | Non-flow = pickled |       |

Notes:

|             |             |                    |       |
|-------------|-------------|--------------------|-------|
| Date:       | Station:    | Time:              | LOCAL |
| Net Event # | CTD #       |                    |       |
| Latitude:   | N           | Longitude:         | W     |
| deg min dec |             | deg min dec        |       |
| Wire out:   | Wire angle: | Bottom Depth:      |       |
| Net Type:   | Tow Type:   |                    |       |
| Flow start  | Flow end    | Flow = frozen      |       |
|             |             | Non-flow = pickled |       |

Notes:

|             |             |                    |       |
|-------------|-------------|--------------------|-------|
| Date:       | Station:    | Time:              | LOCAL |
| Net Event # | CTD #       |                    |       |
| Latitude:   | N           | Longitude:         | W     |
| deg min dec |             | deg min dec        |       |
| Wire out:   | Wire angle: | Bottom Depth:      |       |
| Net Type:   | Tow Type:   |                    |       |
| Flow start  | Flow end    | Flow = frozen      |       |
|             |             | Non-flow = pickled |       |

Notes:

|             |             |                    |       |
|-------------|-------------|--------------------|-------|
| Date:       | Station:    | Time:              | LOCAL |
| Net Event # | CTD #       |                    |       |
| Latitude:   | N           | Longitude:         | W     |
| deg min dec |             | deg min dec        |       |
| Wire out:   | Wire angle: | Bottom Depth:      |       |
| Net Type:   | Tow Type:   |                    |       |
| Flow start  | Flow end    | Flow = frozen      |       |
|             |             | Non-flow = pickled |       |

Notes: