



Plankton Net Tow Log Sheet

Cruise #: 2018-34 Vessel: TOWER Page: 1
Project(s): LA PEROUSE Contact: MOIRA
TSK Serial #: 7131 RBR serial #: SILVER
Time offset = + hrs = UTC (please record local time for samples)

* Ring Tsk 4877

Date: 02-09-18	Station: 122059	Time: 1209	LOCAL
Net Event # 2	CTD # 1		
Latitude: 48 36.91 N	Longitude: 123 14.73 W		
deg min.dec	deg min.dec		
Wire out: 225	Wire angle: 0	Bottom Depth: 229	
Net Type: BON	Tow Type: VNH		
Flow start 40570	Flow end 41855	Flow = frozen	
		Non-flow = pickled	

Notes: KERP

Date: 03/9/18	Station: G1	Time: 01:10	LOCAL
Net Event # 8	CTD # 7		
Latitude: 48 31.79 N	Longitude: 123 04.13 W		
deg min.dec	deg min.dec		
Wire out: 105	Wire angle: 2	Bottom Depth: 117	
Net Type: BONGO	Tow Type: VNH		
Flow start 41885	Flow end 42531	Flow = frozen	
41885		Non-flow = pickled	

Notes: Label Flow end wrong, 42531 ✓

Date: 03/9/18	Station: C1	Time: 03:36	LOCAL
Net Event # 12	CTD # 11		
Latitude: 48 28.95 N	Longitude: 125 15.49 W		
deg min.dec	deg min.dec		
Wire out: 111	Wire angle: 2	Bottom Depth: 151	
Net Type: BONGO	Tow Type: VNH		
Flow start 42533	Flow end 43442	Flow = frozen	
		Non-flow = pickled	

Notes: UVIC took 4 Krill from Frozen

Date: 03/9/18	Station: C2	Time: 4:48	LOCAL
Net Event # 14	CTD # 13		
Latitude: 48 26.21 N	Longitude: 125 09.29 W		
deg min.dec	deg min.dec		
Wire out: 149	Wire angle: 0	Bottom Depth: 158	
Net Type: BONGO	Tow Type: VNH		
Flow start 43442	Flow end 44361	Flow = frozen	
		Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2018-34 Vessel: TULLY Page: 2

Project(s): LA PEROUSE Contact: MOIRA

TSK Serial #: 7131 RBR serial #: SILVER

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

Date: 02/09/2018	Station: C3	Time: 5:59	LOCAL
Net Event # 15	CTD # 16		
Latitude: 48 23.40	N	Longitude: 125 20.71	W
deg min.dec		deg min.dec	
Wire out: 111	Wire angle: 0	Bottom Depth: 121	
Net Type: BONGO	Tow Type: VNH		
Flow start 44362	Flow end 45573	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: 03/09/2018	Station: LB07	Time: 0708	LOCAL
Net Event # 18	CTD # 17		
Latitude: 48 28.71	N	Longitude: 125 22.10	W
deg min.dec		deg min.dec	
Wire out: 145	Wire angle: 5	Bottom Depth: 155	
Net Type: BONGO	Tow Type: VNH		
Flow start 45573	Flow end 46070	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: 03/09/2018	Station: B8	Time: 1530	LOCAL
Net Event # 20	CTD # 19		
Latitude: 48 34.30	N	Longitude: 125 29.99	W
deg min.dec		deg min.dec	
Wire out: 104	Wire angle: 5	Bottom Depth: 114	
Net Type: BONGO	Tow Type: VNH		
Flow start 46070	Flow end 46700	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: 3 Sept 2018	Station: B7	Time: 1622	LOCAL
Net Event # 21	CTD # 22		
Latitude: 48 31 99	N	Longitude: 125 35 51	W
deg min.dec		deg min.dec	
Wire out: 68	Wire angle: 10	Bottom Depth: 78	
Net Type: BON	Tow Type: VNH		
Flow start 46700	Flow end 47389	Flow = frozen	
		Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2018-34 Vessel: TULLY Page: 3

Project(s): LA PEROUSE Contact: MOIRA

TSK Serial #: 7131 RBR serial #: SILVER

Time offset = +

hrs = UTC (please record local time for samples)

Date: 03/09/2018	Station: LB08	Time: 1729 UTC LOCAL 029 PDT
Net Event # 23	CTD # 25	
Latitude: 48 25 32 N	Longitude: 125 20 58 W	
deg min.dec	deg min.dec	
Wire out: 140	Wire angle: 5	Bottom Depth: 136
Net Type: BONGO	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
47289	48209	Non-flow = pickled

Notes:

Date: 3/9/18	Station: LB08	Time: 1746 UTC LOCAL 1046 PDT
Net Event # 24	CTD # 25	
Latitude: 48 25 36 N	Longitude: 125 28 65 W	
deg min.dec	deg min.dec	
Wire out: 150	Wire angle: 6	Bottom Depth: 146
Net Type: RING	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
77757	78639	Non-flow = pickled

Notes:

SERIAL # 4877

64mm

Date: 03.09.18	Station: LB11	Time: 1401 LOCAL
Net Event # 28	CTD # 29	2101
Latitude: 48 15.20 N	Longitude: 125 47.75 W	
deg min.dec	deg min.dec	
Wire out: 200	Wire angle: 10	Bottom Depth: 205
Net Type: BONGO	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
48210	49612	Non-flow = pickled

Notes:

Date: 03 09 18	Station: LB16	Time: 2222 LOCAL
Net Event # 35	CTD # 34	
Latitude: 48 00.55 N	Longitude: 126 16.92 W	
deg min.dec	deg min.dec	
Wire out: 250	Wire angle: 0	Bottom Depth: 1789
Net Type: BONGO	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
49663	51380	Non-flow = pickled

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2018-34 Vessel: Tully Page: 4/
 Project(s): La Perouse Contact: Moira
 TSK Serial #: 7131 RBR serial #: Silver

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

Date: 03 Sep 18	Station: L1316	Time: 0634 UTC LOCAL 2334 PDT
Net Event # 26	CTD # 34	
Latitude: 48 00 65 N	Longitude: 126 17 21 W	
deg min.dec	deg min.dec	
Wire out: 1200	Wire angle: 10	Bottom Depth: 1784
Net Type: Bongo	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
51380	59710	Non-flow = pickled

Notes: Half of Frozen in etoh, moira picked formalin side for dna

Date: 4 Sept 2018	Station: LC12	Time: 1125 UTC LOCAL 0425 PDT
Net Event # 39	CTD # 38	
Latitude: 48 14 89 N	Longitude: 126 40 45 W	
deg min.dec	deg min.dec	
Wire out: 250	Wire angle: 8°	Bottom Depth: 2507
Net Type: BON	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
59618	61355	Non-flow = pickled

Notes:

Date: 4 Sept 2018	Station: LC12	Time: 1213 UTC LOCAL 0513 PDT
Net Event # 40	CTD # 38	
Latitude: 48 15 04 N	Longitude: 126 40 71 W	
deg min.dec	deg min.dec	
Wire out: 1200	Wire angle: 0	Bottom Depth: 2508
Net Type: BON	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
61355		Non-flow = pickled

Notes: Picked frozen side for fatty acid. Frozen side then split for etoh. Note: 2 fish from frozen put in etoh.

Date: 04 SEPT	Station: LC09	Time: 10:10 UTC LOCAL
Net Event # 43	CTD # 45	
Latitude: 48 25.94 N	Longitude: 126 14.67 W	
deg min.dec	deg min.dec	
Wire out: 250	Wire angle: 0°	Bottom Depth: 200 600
Net Type: Bongo	Tow Type: VNH	
Flow start 70872	Flow end 71421	Flow = frozen
		Non-flow = pickled

Notes: 236MM mesh
 Frozen side pickled for Fatty Acid analyses (UVic) by Moira
 took 4 Thaumasto from formalin side for Robyn



Plankton Net Tow Log Sheet

Cruise #: 208-034 Vessel: Tully Page: 5/
Project(s): 1a perouse. Contact: Moira
TSK Serial #: 7131 RBR serial #: Silver

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

Date: 04 SEPT	Station: LCO9	Time: 10:43	LOCAL
Net Event # 44	CTD # 45		
Latitude: 48 25.96 N	Longitude: 125 13.69 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle:	Bottom Depth: 600	
Net Type: ring net	Tow Type: UNH		
Flow start 78642	Flow end 80263	Flow = frozen	
		Non-flow = pickled	

Notes: 64 µm mesh. Flow serial # 4877

Date: 4 Sep 2018	Station: A2	Time: 1250	LOCAL
Net Event # 47	CTD # 46	1950 V12	
Latitude: 48 22 70 N	Longitude: 126 03 82 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0	Bottom Depth: 349	
Net Type: Bongo	Tow Type: UNH		
Flow start	Flow end	Flow = frozen	
71420	72910	Non-flow = pickled	

Notes:

Date: 4 Sept 2018	Station: LCO9	Time: 1424	LOCAL
Net Event # 49	CTD # 48		
Latitude: 48 29.33 N	Longitude: 126 07.05 W		
deg min.dec	deg min.dec		
Wire out: 190	Wire angle: 20	Bottom Depth: 197	
Net Type: BON	Tow Type: UNH		
Flow start	Flow end	Flow = frozen	
72910	74338	Non-flow = pickled	

Notes:

Date: 04-09-18	Station: LCO6	Time: 1627	LOCAL
Net Event # 53	CTD # 52		
Latitude: 48 36.43 N	Longitude: 125 54.03 W		
deg min.dec	deg min.dec		
Wire out: 85	Wire angle: 15°	Bottom Depth: 92	
Net Type: Bongo	Tow Type: UNH		
Flow start	Flow end	Flow = frozen	
74338	74908	Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2018-034 Vessel: TULLY Page: 6
Project(s): La Perouse Contact: MOIRA
TSK Serial #: 7131 RBR serial #: SILVER

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

Date: 04 SEP 2018	Station: LC05	Time: 1727	LOCAL
Net Event # 55	CTD # 54		
Latitude: 48 39.94 N	Longitude: 125 47.40 W		
deg min.dec	deg min.dec		
Wire out:	Wire angle: 20	Bottom Depth: 64	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
74908	75376	Non-flow = pickled	

Notes:

Date: 04-09-18	Station: LC04	Time: 1848	LOCAL
Net Event # 57	CTD # 56		
Latitude: 48 43.45 N	Longitude: 125 40.91 W		
deg min.dec	deg min.dec		
Wire out: 165	Wire angle: 30	Bottom Depth: 160	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
75376	76415	Non-flow = pickled	

Notes: HERRING JUMANG AT SURFACE

Date: 4 SEP 18	Station: LC04	Time: 1912	LOCAL
Net Event # 58	CTD # 56	0212 UR	
Latitude: 48 43.48 N	Longitude: 125 41.15 W		
deg min.dec	deg min.dec		
Wire out: 160	Wire angle: 30°	Bottom Depth: 165	
Net Type: RING	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
80258	81480	Non-flow = pickled	

Notes:

flow #4877

Date: 4 SEP 2018	Station: LD02	Time: 2325	LOCAL
Net Event # 64	CTD # 63	0625 UR	
Latitude: 48 58.37 N	Longitude: 125 47.24 W		
deg min.dec	deg min.dec		
Wire out: 37	Wire angle: 0	Bottom Depth: 47	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
76415	76669	Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2018-34 Vessel: TULLY Page: 7/
Project(s): LA PEROUSE Contact: MORA
TSK Serial #: 7131 RBR serial #: SILVER

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

Date: 5/9/18	Station: LD04	Time: 0739	LOCAL
Net Event # 66	CTD # 65		
Latitude: 48 53 16 N	Longitude: 125 57 17 W		
deg min.dec	deg min.dec		
Wire out: 55	Wire angle: 0	Bottom Depth: 61	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
76672	77985	Non-flow = pickled	

Notes: 76983 Labels have wrong end flow meter.

Date: 5 Sept 2018	Station: LG02	Time:	LOCAL
Net Event #	CTD #		
Latitude:	N Longitude:	W	
deg min.dec	deg min.dec		
Wire out:	Wire angle:	Bottom Depth: 97	
Net Type: BON	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: 5 Sept 2018	Station: LG02	Time:	LOCAL
Net Event #	CTD #		
Latitude:	N Longitude:	W	
deg min.dec	deg min.dec		
Wire out:	Wire angle:	Bottom Depth: 97	
Net Type: Ring	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
		Non-flow = pickled	

Notes:

64 mm

Date: 5 Sept	Station: LG02	Time: 10557	LOCAL
Net Event # 70	CTD # 69		
Latitude: 49 18.71 N	Longitude: 126 38.19 W		
deg min.dec	deg min.dec		
Wire out: 90	Wire angle: 20	Bottom Depth: 99	
Net Type: BON	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
76983	77528	Non-flow = pickled	

Notes:

Pick for fatty acids from frozen side.



Plankton Net Tow Log Sheet

Cruise #: 2018-034 Vessel: Tully Page: 8/
Project(s): La Perouse Contact: Molra / Tan
TSK Serial #: 7131 RBR serial #: SILVER

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

Date: 5 Sept	Station: LG 02	Time: 0615	LOCAL
Net Event # 71	CTD # 69		
Latitude: 49.18.77	N Longitude: 126.37.89 W		
deg min.dec	10° deg min.dec		
Wire out: 90	Wire angle:	Bottom Depth: 97	
Net Type: RING	Tow Type: VNH		
Flow start 81482	Flow end 82003	Flow = frozen	
		Non-flow = pickled	

Notes: RING net 64 um TSK FLOW M 4872

Date: 5 Sept 2018	Station: LG 04	Time: 808	LOCAL
Net Event # 74	CTD # 73		
Latitude: 49 11.3	N Longitude: 126 49.4 W		
deg min.dec	deg min.dec		
Wire out: 135	Wire angle: 0	Bottom Depth: 144	
Net Type: BON	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
77529	78245	Non-flow = pickled	

Notes: Form side had 4 mitrocoma. kept. Used 500 mL jar.
Frozen side had 5 mitrocoma. kept.

Date: 5 Sept 2018	Station: LG 07	Time: 1225	LOCAL
Net Event # 78	CTD # 77		
Latitude: 48 59.47	N Longitude: 127 07.14 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0	Bottom Depth: 1751	
Net Type: BON	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
78245	79816	Non-flow = pickled	

Notes:

Date: 05 09 18	Station: LG 09	Time: 15:19	LOCAL
Net Event # 80	CTD # 82		
Latitude: 48 51.25	N Longitude: 127 19.40 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0	Bottom Depth: 2048	
Net Type: BON 60	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
79816	81047	Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 208-34 Vessel: TULLY Page: 9/

Project(s): La Perouse Contact: MOIRA / IAN

TSK Serial #: 7131 RBR serial #: SILVER

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

Date: 05 Sept 2018	Station: LG09	Time: 15:40	LOCAL
Net Event # 81	CTD # 82		
Latitude: 48 51.34 N	Longitude: 127 19.41 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 50	Bottom Depth: 2046	
Net Type: RING	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
82003	83320	Non-flow = pickled	

Notes: TSK 4877

Date: 05 Sept 2018	Station: LG09	Time: 18:52	LOCAL
Net Event # 83	CTD # 82		
Latitude: 48 51.38 N	Longitude: 127 19.57 W		
deg min.dec	deg min.dec		
Wire out: 2000	Wire angle:	Bottom Depth: 2050	
Net Type: MPS	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
		Non-flow = pickled	

Notes:

MPS
hook
W

Date: 06/09/2018	Station: LBP8	Time: 0552	LOCAL
Net Event # 88	CTD # 90		
Latitude: 49 48 61 N	Longitude: 128 16 77 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0	Bottom Depth: 2064	
Net Type: RING	Tow Type:		
Flow start 83322	Flow end 84725	Flow = frozen	
		Non-flow = pickled	

Notes: TSK 4877

Date: 06/09/2018	Station: LBP8	Time: 0646	LOCAL
Net Event # 80	CTD # 90		
Latitude: 49 48 59 N	Longitude: 128 16 78 W		
deg min.dec	deg min.dec		
Wire out: 1200	Wire angle: 0	Bottom Depth: 2064	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
01046	07043	Non-flow = pickled	

Notes:

frozen side - lots of amphipods → 1/2 freeze, 1/2 fresh. Isolomissus in frozen
 ↳ frozen side was sieved w/ 250um mesh.
 formalin - 1 Corolla, 4 Cuvina? (photo)
 2 sides of Bongo very different - see photos.



Plankton Net Tow Log Sheet

Cruise #: 2018-34 Vessel: TULLY Page: 19
Project(s): LA PEROUSE Contact: MOIRA
TSK Serial #: 7131 RBR serial #: SILVER

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

Date: 6/9/18	Station: LBP 3	Time: 07:22	LOCAL
Net Event # 89	CTD # 90		
Latitude: 49 48.59 N	Longitude: 128 16.79 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0	Bottom Depth: 2064	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
67843	74215	Non-flow = pickled	

Notes: formation - pickled 10 Hemioto for Rdayn (FA)

Date: 6 SEPT 2018	Station: LBP 7	Time: 11:18	LOCAL
Net Event # 92	CTD # 91		
Latitude: 49 52.39 N	Longitude: 128 11.23 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0	Bottom Depth: 2476	
Net Type: BONGO	Tow Type: VNH		
Flow start 89222	Flow end 90685	Flow = frozen	
		Non-flow = pickled	

Notes: saw vella vella @ surface during deployment

Date: 6 SEPT 2018	Station: LBP 5	Time: 1444	LOCAL
Net Event # 95	CTD # 94		
Latitude: 49 59.96 N	Longitude: 127 59.80 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0	Bottom Depth: 1271	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
90685	92158	Non-flow = pickled	

Notes: UVIC took 11 small trill from frozen side

LBP 3

Date: 06/09/18	Station: LBP 3	Time: 1645	LOCAL
Net Event # 98	CTD # 97		
Latitude: 50 03.20 N	Longitude: 127 55.13 W		
deg min.dec	deg min.dec		
Wire out: 158	Wire angle: 0	Bottom Depth: 163	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
92158	93044	Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2018 34 Vessel: JP Tully Page: 11
Project(s): LA PEROUSE Contact: MOIRA
TSK Serial #: 7131 RBR serial #: SILVER

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

Date: 06.09.18	Station: LBP3	Time: 1710	LOCAL
Net Event # 99	CTD # 97		
Latitude: 50 03.10 N	Longitude: 127 55.51 W		
deg min.dec	deg min.dec		
Wire out: 195	Wire angle: 5	Bottom Depth: 198	
Net Type: RING	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
84715	85781	Non-flow = pickled	

Notes:

Date: 6 Sep 2018	Station: LBP2	Time: 1735	LOCAL
Net Event # 100	CTD # 101	0035 UTC	
Latitude: 50 03.93 N	Longitude: 127 54.12 W		
deg min.dec	deg min.dec		
Wire out: 90	Wire angle: 30	Bottom Depth: 96	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
85781	840	Non-flow = pickled	

Notes: 93044 94045

Date: 06.09.18	Station: CPEZ	Time: 2321	LOCAL
Net Event # 105	CTD # 104	0621 UTC	
Latitude: 50 42.99 N	Longitude: 128 39.79 W		
deg min.dec	deg min.dec		
Wire out: 120	Wire angle: 5	Bottom Depth: 127	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
94045	94880	Non-flow = pickled	

Notes:

Date: 7 Sep 2018	Station: LQ 03	Time: 02:30	LOCAL
Net Event # 108	CTD # 107		
Latitude: 50 39 54 N	Longitude: 129 01 86 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle:	Bottom Depth: 1353	
Net Type: BON	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
94880	97018	Non-flow = pickled	

Notes:

flow #s look weird. Sorry!
current strong.



Plankton Net Tow Log Sheet

Cruise #: 2018-34 Vessel: Tully Page: 12/

Project(s): La Perouse Contact: Moina

TSK Serial #: 7131 RBR serial #: Silver

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

Date: 7 Sept 2018	Station: JI 22	Time: 0515	LOCAL
Net Event # 110	CTD # 109		
Latitude: 50 39 61 N	Longitude: 129 17 62 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 5	Bottom Depth: 1489	
Net Type: BON	Tow Type: VNH		
Flow start	Flow end 5	Flow = frozen	
97018	98911	Non-flow = pickled	

Notes: went to 272m by accident, Moved Squid (?) from frozen to formalin side

Date: 7/9/18	Station: CS 00	Time: 0821	LOCAL
Net Event # 111	CTD # 113		
Latitude: 50 27 68 N	Longitude: 129 55 04 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 10	Bottom Depth: 2166	
Net Type: BON60	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
98911	00591	Non-flow = pickled	

Notes:

Date: 7/9/18	Station: CS 00	Time: 0913	LOCAL
Net Event # 112	CTD # 113		
Latitude: 50 27 62 N	Longitude: 129 55 04 W		
deg min.dec	deg min.dec		
Wire out: 1200	Wire angle: 0	Bottom Depth: 2166	
Net Type: BON60	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
00591	18965	Non-flow = pickled	

Notes:

Frozen side: 1/2 frozen, 1/2 ETOH.

Saw 2 large jellies (~25mm). One milky white, one red w/lighter red @ bottom of bell

Date: 7/9/2018	Station: CS01	Time: 13:44	LOCAL
Net Event # 115	CTD # 114		
Latitude: 50 34.48 N	Longitude: 129 41.49 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 10	Bottom Depth: 2101	
Net Type: BON60	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
08065	10971	Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2018-34 Vessel: Tully Page: 13/
Project(s): La Perouse Contact: Moira
TSK Serial #: 7131 RBR serial #: silver

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

Date: 7 Sept	Station: CS 02	Time: 16 42	LOCAL
Net Event # 117	CTD # 116		
Latitude: 50 41.16 N	Longitude: 129 27.85 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 30°	Bottom Depth: 1894	
Net Type: Bow	Tow Type: VNH		
Flow start 11038	Flow end 13448	Flow = frozen	
		Non-flow = pickled	

Notes: Bongo

Date: 7 Sept	Station: CS 02	Time: 17 03	LOCAL
Net Event # 118	CTD # 116		
Latitude: 50 41.20 N	Longitude: 129 27.91 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 27°	Bottom Depth: 1893	
Net Type: Ring	Tow Type: VNH		
Flow start 85882	Flow end 88893	Flow = frozen	
		Non-flow = pickled	

Notes: Ring Net TSK Flow meter # 4877

Date: 7 Sept. 2018	Station: CS 03	Time: 18:26	LOCAL
Net Event # 120	CTD # 119		
Latitude: 50 45.42 N	Longitude: 129 19.84 W		
deg min.dec	deg min.dec		
Wire out: 228	Wire angle: 29	Bottom Depth: 235	
Net Type: Bongo	Tow Type: VNH		
Flow start 13448	Flow end 16161	Flow = frozen	
		Non-flow = pickled	

Notes: surfing @ surface on way down (maybe extra flow)

Date: 07.09.2018	Station: CS 04	Time: 1930	LOCAL
Net Event # 122	CTD # 121		
Latitude: 50 49.26 N	Longitude: 129 12.88 W		
deg min.dec	deg min.dec		
Wire out: 90	Wire angle: 30	Bottom Depth: 98	
Net Type: Bongo	Tow Type: VNH		
Flow start 16161	Flow end 17139	Flow = frozen	
		Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2018-34 Vessel: TULLY Page: 14

Project(s): LA Perouse Contact: MOIRA

TSK Serial #: 7131 RBR serial #: 5105

Time offset = +

hrs = UTC (please record local time for samples)

Date: 7 Sept. 2018	Station: CS 3B	Time: 21:33	LOCAL
Net Event # 124	CTD # 123		
Latitude: 50 59.79 N	Longitude: 129 26.81 W		
deg min.dec	deg min.dec		
Wire out: 212	Wire angle: 20	Bottom Depth: 217	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
17139	19635	Non-flow = pickled	

Notes: surfing @ surface on way down (maybe extra flow)

Date: 8 Sept 2018	Station: SS02	Time: 0014	LOCAL
Net Event # 126	CTD # 125		
Latitude: 51 12 72 N	Longitude: 129 42 30 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 10	Bottom Depth: 550	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
20635	21422	Non-flow = pickled	

Notes: frozen - removed nitrocellulose and acquerca

Date: 8/9/18	Station: SS3	Time: 0228	LOCAL
Net Event # 128	CTD # 127		
Latitude: 51 14 39 N	Longitude: 129 20 93 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 30	Bottom Depth: 289	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
21422	24720	Non-flow = pickled	

Notes: squid(?) from green side in E+OH vial.

Labels have wrong end flow

Date: 8/9/18	Station: CS05	Time: 0532	LOCAL
Net Event # 130	CTD # 129		
Latitude: 50 56 03 N	Longitude: 129 00 20 W		
deg min.dec	deg min.dec		
Wire out: 51	Wire angle:	Bottom Depth: 61	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
24720	24101	Non-flow = pickled	

Notes: 3



Plankton Net Tow Log Sheet

Cruise #: 2013-34 Vessel: TULLY Page: 15/

Project(s): La Perouse Contact: MOIRA

TSK Serial #: 7131 RBR serial #: Silver

Time offset = +

hrs = UTC (please record local time for samples)

Date: 8/9/18 Station: CS 1b Time: 130720 LOCAL

Net Event # 132 CTD # 131

Latitude: 50 52.99 N Longitude: 128 39.86 W
deg min.dec deg min.dec

Wire out: 60 Wire angle: 15° Bottom Depth: 70

Net Type: BONGO Tow Type: VNH

Flow start Flow end Flow = frozen

24408 ~~132~~ 24833 Non-flow = pickled

Notes: 24 mytilocoma removed from Pickle. 7 cadent release
31 mytilocoma removed from Frozen

labels have
wrong end
flow

Date: 8/9/18 Station: CS06 Time: 0842 LOCAL

Net Event # 134 CTD # 133

Latitude: 51 00.11 N Longitude: 128 51.62 W
deg min.dec deg min.dec

Wire out: 53 Wire angle: 15 Bottom Depth: 63

Net Type: BONGO Tow Type: VNH

Flow start Flow end Flow = frozen

24833 25204 Non-flow = pickled

Notes:

Date: 8/9/18 Station: CS07 Time: 0939 LOCAL

Net Event # 136 CTD # 135

Latitude: 51 04 53 N Longitude: 128 43 73 W
deg min.dec deg min.dec

Wire out: 53 Wire angle: 25 Bottom Depth: 64

Net Type: BONGO Tow Type: VNH

Flow start Flow end Flow = frozen

25204 25512 Non-flow = pickled

Notes:

Date: 8 Sep 2018 Station: CS08 Time: 1039 LOCAL

Net Event # 138 CTD # 137

Latitude: 51 08.52 N Longitude: 128 35.95 W
deg min.dec deg min.dec

Wire out: 133 Wire angle: Bottom Depth: 143

Net Type: BON Tow Type: VNH

Flow start Flow end Flow = frozen

25612 26158 Non-flow = pickled

Notes:

Flow meter wrong on labels...



Plankton Net Tow Log Sheet

Cruise #: 2018-34 Vessel: *Tullin* Page: *16/*

Project(s): *La Perouse* Contact: *Moir*

TSK Serial #: *7131* RBR serial #: *Silver*

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

Date: <i>8 Sept 2018</i>	Station: <i>C509</i>	Time: <i>1159</i> LOCAL
Net Event # <i>140</i>	CTD # <i>139</i>	<i>1859</i> UTC
Latitude: <i>51</i> <i>12.4239</i> N	Longitude: <i>128</i> <i>28.59</i> W	
deg min.dec	deg min.dec	
Wire out: <i>190</i>	Wire angle: <i>27</i>	Bottom Depth: <i>195</i>
Net Type: <i>BON</i>	Tow Type: <i>VNH</i>	
Flow start	Flow end	Flow = frozen
<i>26460</i>	<i>28657</i>	Non-flow = pickled

Notes:

Date: <i>8 Sept 2018</i>	Station: <i>C509</i>	Time: <i>1219</i> LOCAL
Net Event # <i>141</i>	CTD # <i>139</i>	<i>1919</i> UTC
Latitude: <i>51</i> <i>12.35</i> N	Longitude: <i>128</i> <i>27.88</i> W	
deg min.dec	deg min.dec	
Wire out: <i>190</i>	Wire angle:	Bottom Depth: <i>195</i>
Net Type: <i>RING</i>	Tow Type: <i>VNH</i>	
Flow start	Flow end	Flow = frozen
<i>88895</i>	<i>88168</i>	Non-flow = pickled

Notes:

Date: <i>8 Sept. 2018</i>	Station: <i>C510</i>	Time: <i>13:22</i> LOCAL
Net Event # <i>143</i>	CTD # <i>142</i>	
Latitude: <i>51</i> <i>16.48</i> N	Longitude: <i>128</i> <i>20.02</i> W	
deg min.dec	deg min.dec	
Wire out: <i>75</i>	Wire angle: <i>7</i>	Bottom Depth: <i>81</i>
Net Type: <i>Bongo</i>	Tow Type: <i>VNH</i>	
Flow start	Flow end	Flow = frozen
<i>27657</i>	<i>28108</i>	Non-flow = pickled

Notes:

Date: <i>08.09.18</i>	Station: <i>SS5</i>	Time: <i>1556</i> LOCAL
Net Event # <i>145</i>	CTD # <i>144</i>	
Latitude: <i>51</i> <i>27.96</i> N	Longitude: <i>128</i> <i>29.91</i> W	
deg min.dec	deg min.dec	
Wire out: <i>195</i>	Wire angle: <i>21</i>	Bottom Depth: <i>200</i> <i>218</i> <i>198</i>
Net Type: <i>Bongo</i>	Tow Type: <i>VNH</i>	
Flow start	Flow end	Flow = frozen
<i>28108</i>	<i>29433</i>	Non-flow = pickled

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2018-34 **Vessel:** Tully **Page:** 171
Project(s): La Perouse **Contact:** Moira
TSK Serial #: 7131 **RBR serial #:** Silver
Time offset = + **hrs = UTC** (please record local time for samples)

Date: 8 Sep 2018	Station: 556	Time: 18:45	LOCAL
Net Event # 147	CTD # 146		
Latitude: 51 19.91 N	Longitude: 128 00.08 W		
deg min.dec	deg min.dec		
Wire out: 170	Wire angle: 20°	Bottom Depth: 175	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
29433	30568	Non-flow = pickled	

Notes:

Date: 8 Sep 2018	Station: CPE1	Time: 2144	LOCAL
Net Event # 149	CTD # 148		
Latitude: 51 00.05 N	Longitude: 127 49.87 W		
deg min.dec	deg min.dec		
Wire out: 135	Wire angle: 13	Bottom Depth: 143	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
30568	31507	Non-flow = pickled	

Notes: 3 mikrococina removed green side

Date: 9 Sep 2018	Station: JS01	Time:	LOCAL
Net Event # 150	CTD # 151		
Latitude: N	Longitude: W		
deg min.dec	deg min.dec		
Wire out:	Wire angle:	Bottom Depth:	
Net Type: BON	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
		Non-flow = pickled	

Notes:

Gusting to 50 knots! No Bongo. ^^

Date: 9 Sep 2018	Station: 14	Time: 1346	LOCAL
Net Event # 153	CTD # 152	2016 UTC	
Latitude: 49 52 47 N	Longitude: 124 59.31 W		
deg min.dec	deg min.dec		
Wire out: 305	Wire angle: 22	Bottom Depth: 310	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
31507	33666	Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2018-34 Vessel: SP TULLY Page: 18/
Project(s): LA PEROUSE Contact: MOIRA
TSK Serial #: 7131 RBR serial #: SILVER

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

Date: 09-09-18	Station: 12	Time: 16:05	LOCAL
Net Event # 155	CTD # 154		
Latitude: 49 43.70 N	Longitude: 124 40.98 W		
deg min.dec	deg min.dec		
Wire out: 3497	Wire angle: 10°	Bottom Depth: 352	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
33666	35597	Non-flow = pickled	

Notes: whale ~~(breaching)~~ humpback between ship + Texada Is.
breaching MOM + KID

Date: 09-09-18	Station: 11	Time: 17:00	LOCAL
Net Event # 157	CTD # 156		0000 UR
Latitude: 49 42.45 N	Longitude: 124 43.35 W		
deg min.dec	deg min.dec		
Wire out: 295	Wire angle: 16	Bottom Depth: 300	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
35597	37418	Non-flow = pickled	

Notes:

Date: 09-09-18	Station: CPF2	Time: 19:15	LOCAL
Net Event # 159	CTD # 158		
Latitude: 49 27.98 N	Longitude: 124 29.77 W		
deg min.dec	deg min.dec		
Wire out: 320	Wire angle: 6	Bottom Depth: 324	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
37418	39232	Non-flow = pickled	

Notes:

Date: 09-09-18	Station: CPF1	Time: 04:28	LOCAL
Net Event # 161	CTD # 160		
Latitude: 49 21.82 N	Longitude: 124 04.91 W		
deg min.dec	deg min.dec		
Wire out: 225	Wire angle: 27	Bottom Depth: 240	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
39237	40815	Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2018-34 Vessel: Tully Page: 19/
Project(s): La Perouse Contact: MDIRA
TSK Serial #: 7131 RBR serial #: SILVER
Time offset = + hrs = UTC (please record local time for samples)

Date: 18-09-2018	Station: 22	Time: 0003 LOCAL
Net Event # 163	CTD # 162	
Latitude: 49 39 93N	Longitude: 124 16 39 W	
deg min.dec	deg min.dec	
Wire out: 340	Wire angle: 19	Bottom Depth: 347
Net Type: Bongo	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
40815	43093	Non-flow = pickled

Notes: Frozen side split. 1/2 frozen, 1/2 ETOH.

Date: 10 Sept 2018	Station: 24	Time: 02:00 LOCAL
Net Event # 165	CTD # 164	
Latitude: 49 30 41 N	Longitude: 124 05 57 W	
deg min.dec	deg min.dec	
Wire out: 340	Wire angle: 0	Bottom Depth: 350
Net Type: BONGO	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
43053	44871	Non-flow = pickled

Notes: Frozen side size fractionated for Brian Hunt. (Removed shrimp from form. Another in form for taxonomy.)
Bottom depth changed during Act. Got shallower.

Date: 10 Sept 2018	Station: 28	Time: 0359 LOCAL
Net Event # 167	CTD # 166	
Latitude: 49 24 17 N	Longitude: 123 45 35 W	
deg min.dec	deg min.dec	
Wire out: 125	Wire angle: 5	Bottom Depth: 135
Net Type: BONGO	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
44871	45541	Non-flow = pickled

Notes:

Date: 10 Sept 2018	Station: G-E01	Time: 0604 LOCAL
Net Event # 169	CTD # 168	
Latitude: 49 15.01 N	Longitude: 123 44.95 W	
deg min.dec	deg min.dec	
Wire out: 390	Wire angle: 0	Bottom Depth: 399
Net Type: BON	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
45541	47578	Non-flow = pickled

Notes:

split the frozen side. 1/2 frozen 1/2 ETOH.



Plankton Net Tow Log Sheet

Cruise #: 2018-34 Vessel: Tully Page: 29/
Project(s): La Perouse Contact: Moira
TSK Serial #: 7131 RBR serial #: Silver

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

Date: 10 Sept 2018	Station: C-E01	Time: 0634	LOCAL
Net Event # 170	CTD # 168		
Latitude: 49 14.98 N	Longitude: 123 44.97 W		
deg min.dec	deg min.dec		
Wire out: 390	Wire angle: 6	Bottom Depth: 399	
Net Type: Ring	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
88169	90012	Non-flow = pickled	

Notes:

Date: 10 Sept 2018	Station: 38	Time: 0926	LOCAL
Net Event # 173	CTD # 172		
Latitude: 49 11 97 N	Longitude: 123 26 35 W		
deg min.dec	deg min.dec		
Wire out: 294	Wire angle:	Bottom Depth: 304	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
47578	49085	Non-flow = pickled	

Notes:

Date: 10 Sept 2018	Station: 41	Time: 10:56	LOCAL
Net Event # 175	CTD # 174		
Latitude: 49° 03.06 N	Longitude: 123° 22.23 W		
deg min.dec	deg min.dec		
Wire out: 230	Wire angle: 0°	Bottom Depth: 238	
Net Type: BON	Tow Type: VNH		
Flow start 49085	Flow end 50334	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: 10 Sept 2018	Station: 42	Time: 1204	LOCAL
Net Event # 177	CTD # 176		
Latitude: 49 01.59 N	Longitude: 123 25.92 W		
deg min.dec	deg min.dec		
Wire out: 310	Wire angle: 2°	Bottom Depth: 314	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
50334	52311	Non-flow = pickled	

Notes: