



Plankton Net Tow Log Sheet

Cruise #: 2021-012 Vessel: JPT Page: 1

Project(s): La Perouse Contact: Moira Gulbraith

TSK Serial #: 7129 RBR serial #: Silver

Time offset = + 7 hrs = UTC (please record local time for samples)

Date: 8 Sept 2021	Station: Haro S9	Time: 1123	LOCAL
Net Event # 03	CTD # 04		
Latitude: 48 36.799 N	Longitude: 123 14.931 W		
deg min.dec	deg min.dec		
Wire out: 232	Wire angle: 12	Bottom Depth: 237	
Net Type: B + H	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
1059	2957	Non-flow = pickled	

Notes: rem 15 Plu + into 95% EtOH from pickled
RBR says 180 NEED TO CHECK WIRE ANGLE

Date: 08.09.21	Station: JF2	Time: 1815	LOCAL
Net Event # 06	CTD # 08		
Latitude: 48 18.011 N	Longitude: 124 00.000 W		
deg min.dec	deg min.dec		
Wire out: 182	Wire angle: 20	Bottom Depth: 187	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
2957	4348	Non-flow = pickled	

Notes:

Date: 9 Sept 2021	Station: C1	Time: 02:49	LOCAL
Net Event # 13	CTD # 15		
Latitude: 48 32.065 N	Longitude: 125 4.011 W		
deg min.dec	deg min.dec		
Wire out: 100	Wire angle: 17	Bottom Depth: 110	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
4348	5064	Non-flow = pickled	

Notes:

Date: 9 Sept 2021	Station: C1	Time: 05:48	LOCAL
Net Event # 19	CTD # 18		
Latitude: 48 28.876 N	Longitude: 125 15.117 W		
deg min.dec	deg min.dec		
Wire out: 145	Wire angle: 0	Bottom Depth: 153	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
5064	5971	Non-flow = pickled	

Notes: Released 1 MIOCE from non-flow



Plankton Net Tow Log Sheet

Cruise #: 2021-012 Vessel: JPrully Page: 2

Project(s): La Perouse Contact: Moira

TSK Serial #: 7129 RBR serial #: silver

Time offset = + 7 hrs = UTC (please record local time for samples)

Date: 09 Sep 2021 Station: C2 Time: 6:51 LOCAL

Net Event # 21 CTD # 20

Latitude: 48 26.246 N Longitude: 125 9.302 W
deg min.dec deg min.dec

Wire out: 150 Wire angle: 5 Bottom Depth: 160

Net Type: BONGO Tow Type: VNH

Flow start Flow end Flow = frozen

05972 6909 Non-flow = pickled

Notes: removed 5 from pickled
MIOCE-S3

Date: 9 Sept 2021 Station: C3 Time: 08:29 LOCAL

Net Event # 23 CTD # 22

Latitude: 48 23.458 N Longitude: 125 20.853 W
deg min.dec deg min.dec

Wire out: 111 Wire angle: 6 Bottom Depth: 121

Net Type: Bongo Tow Type: VNH

Flow start Flow end Flow = frozen

6908 7665 Non-flow = pickled

Notes:

Date: 9 Sep 2021 Station: LB07 Time: 9:35 LOCAL

Net Event # 26 CTD # 25

Latitude: 48 28.659 N Longitude: 125 22.129 W
deg min.dec deg min.dec

Wire out: 145 Wire angle: 5 Bottom Depth: 155

Net Type: BONGO Tow Type: VNH

Flow start Flow end Flow = frozen

7665 8578 Non-flow = pickled

Notes: Pickled side - Phronima + Siphonophore house
picked out + into ETOH

Date: 9 Sep 2021 Station: B8 Time: 18:09 LOCAL

Net Event # 28 CTD # 27

Latitude: 48 34.513 N Longitude: 125 29.988 W
deg min.dec deg min.dec

Wire out: 107 Wire angle: 5 Bottom Depth: 116

Net Type: BONGO Tow Type: VNH

Flow start Flow end Flow = frozen

8579 9279 Non-flow = pickled

Notes: removed 2 MIOCE-S3 from pickled



Plankton Net Tow Log Sheet

Cruise #: 2021-012 Vessel: Tully Page: 3
Project(s): La Perouse Contact: Maira
TSK Serial #: 7129 RBR serial #: silver

Time offset = + 7 hrs = UTC (please record local time for samples)

Date: 9 Sept 2021	Station: B7	Time: 1229	LOCAL
Net Event # 31	CTD # 30		
Latitude: 48° 31.976 N		Longitude: 125° 35.370 W	
deg min.dec		deg min.dec	
Wire out: 75	Wire angle: 18	Bottom Depth: 80	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
9278	9920	Non-flow = pickled	

Notes: TACK WITH COSCINODISCUS

Date: 09.09.21	Station: LB08	Time: 1344	LOCAL
Net Event # 32	CTD # 36		
Latitude: 48° 25.343 N		Longitude: 125° 28.474 W	
deg min.dec		deg min.dec	
Wire out: 140	Wire angle: 13	Bottom Depth: 145	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
9920	10878	Non-flow = pickled	

Notes:

Date: 09.09.21	Station: LB08	Time: 1403	LOCAL
Net Event # 33	CTD # 36		
Latitude: 48° 25.328 N		Longitude: 125° 28.674 W	
deg min.dec		deg min.dec	
Wire out: 150	Wire angle: 10	Bottom Depth: 158	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
10878	12075	Non-flow = pickled	

Notes: SEALION WHALES

Date: 09.09.21	Station: LB08	Time: 1429	LOCAL
Net Event # 35	CTD # 36		
Latitude: 48° 25.295 N		Longitude: 125° 28.526 W	
deg min.dec		deg min.dec	
Wire out: 50	Wire angle: 5	Bottom Depth: 137	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
42112	42390	Non-flow = pickled	

Notes:

TSK 5333

MINI



Plankton Net Tow Log Sheet

Cruise #: 2021012 Vessel: JPTOLY Page: 4

Project(s): LA PEROUSE Contact: MORA

TSK Serial #: 7129 RBR serial #:

Time offset = +

hrs = UTC (please record local time for samples)

Date: 09.09.21	Station: LB11	Time: 1851	LOCAL
Net Event # 40	CTD # 39		
Latitude: 48 15.03 N		Longitude: 125 47.58 W	
deg min.dec		deg min.dec	
Wire out: 200	Wire angle: 5	Bottom Depth: 208	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
12075	13825	Non-flow = pickled	

Notes:

ALBATROSS FULMARS SHEARWATERS BLUE SHARK

Date: 10 Sep 2021	Station: LB16	Time: 03:57	LOCAL
Net Event # 47	CTD # 46		
Latitude: 48 0.530 N		Longitude: 126 17.084 W	
deg min.dec		deg min.dec	
Wire out: 250	Wire angle: 25	Bottom Depth: 1792	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
13826	15565	Non-flow = pickled	

Notes: Schooling fish + shark circling CTD wire during cast here (saur?)

Date: 12 Sept 21	Station: LC12/A4	Time: 0849	LOCAL
Net Event # 67	CTD # 66		
Latitude: 48 14.986 N		Longitude: 126 39.976 W	
deg min.dec		deg min.dec	
Wire out: 250	Wire angle: 0	Bottom Depth: 2526	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
15565	17609	Non-flow = pickled	

Notes:

Date: 12.09.21	Station: LC09/A3	Time: 1705	LOCAL
Net Event # 72	CTD # 76		
Latitude: 48 25.950 N		Longitude: 126 13.659 W	
deg min.dec		deg min.dec	
Wire out: 250	Wire angle: 8	Bottom Depth: 607	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
17707	19445	Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2021-012 Vessel: JPT04 Page: 5

Project(s): La Perouse Contact: MoIRA

TSK Serial #: 7129 RBR serial #: silver

Time offset = + 7 hrs = UTC (please record local time for samples)

Date: 12.09.21	Station: LC09/A3	Time: 1724 LOCAL
Net Event # 73	CTD # ~~77~~ 76	
Latitude: 48° 25.944 N	Longitude: 126° 13.669 W	
deg min.dec	deg min.dec	
Wire out: 250	Wire angle: 0	Bottom Depth: 607
Net Type: BONGO	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
19445	21278	Non-flow = pickled

Notes: for Liam/UVic

Date: 12.09.21	Station: LC09/A3	Time: 1744 LOCAL
Net Event # 74	CTD # ~~77~~ 76	
Latitude: 48° 25.945 N	Longitude: 126° 13.643 W	
deg min.dec	deg min.dec	
Wire out: 50	Wire angle: 0	Bottom Depth: 607
Net Type: BONGO	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
42392	42523	Non-flow = pickled

Notes: TSK 5333

Date: 12.09.21	Station: A2	Time: 2033 LOCAL
Net Event # 78	CTD # ~~77~~ 77	
Latitude: 48. 22.688 N	Longitude: 126° 03.752 W	
deg min.dec	deg min.dec	
Wire out: 250	Wire angle: 10	Bottom Depth: 355
Net Type: BONGO	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
21278	23094	Non-flow = pickled

Notes:

Date: 13 Sept 2021	Station: LC08/A1	Time: 0:31 LOCAL
Net Event # 80	CTD # 82	
Latitude: 48 29.454 N	Longitude: 126 7.102 W	
deg min.dec	deg min.dec	
Wire out: 189	Wire angle: 5	Bottom Depth: 199
Net Type: Bongo	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
23095	24641	Non-flow = pickled

Notes:

x squid from Tuna stomach into ETOH. Tuna from fishing vessel needing fuel



Plankton Net Tow Log Sheet

Cruise #: 2021-012 Vessel: Tully Page: 6

Project(s): Laperouse Contact: Moira

TSK Serial #: 7129 RBR serial #: Silver

Time offset = + 7 hrs = UTC (please record local time for samples)

Date: 13 Sept 21	Station: LC06/B6	Time: 03:24	LOCAL
Net Event # 84	CTD # 86		
Latitude: 48° 36.507' N	Longitude: 125° 54.125' W		
deg min.dec	deg min.dec		
Wire out: 82	Wire angle: 18	Bottom Depth: 92	
Net Type: Bongo	Tow Type: VNH		
Flow start: 24640	Flow end: 25526	Flow = frozen	
		Non-flow = pickled	

Notes:

winch issues, slow upcast @ start (20m?)

Date: 13 Sept 2021	Station: LC05/B5	Time: 05:08	LOCAL
Net Event # 88	CTD # 87		
Latitude: 48° 40.077' N	Longitude: 125° 47.514' W		
deg min.dec	deg min.dec		
Wire out: 55	Wire angle: 10	Bottom Depth: 65	
Net Type: Bongo	Tow Type: VNH		
Flow start: 25526	Flow end: 26214	Flow = frozen	
		Non-flow = pickled	

Notes: crab megalops picked from pickled → etOH

Date: 13 Sept 2021	Station: LC04	Time: 0605	LOCAL
Net Event # 89	CTD # 93		
Latitude: 48° 43.484' N	Longitude: 125° 40.834' W		
deg min.dec	deg min.dec		
Wire out: 157	Wire angle: 15	Bottom Depth: 167	
Net Type: Bongo	Tow Type: VNH		
Flow start: 26214	Flow end: 27509	Flow = frozen	
		Non-flow = pickled	

Notes: simp fractionated - Liam/UVic sample

Date: 13 Sept 2021	Station: LC04	Time: 0622	LOCAL
Net Event # 90	CTD # 93		
Latitude: 48° 43.613' N	Longitude: 125° 40.852' W		
deg min.dec	deg min.dec		
Wire out: 157	Wire angle: 12	Bottom Depth: 167	
Net Type: Bongo	Tow Type: VNH		
Flow start: 27509	Flow end: 28799	Flow = frozen	
		Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2021-012 Vessel: Tully Page: 7
Project(s): La Perouse Contact: Moira
TSK Serial #: 7129 RBR serial #: silver

Time offset = + 7 hrs = UTC (please record local time for samples)

Date: 13 Sept	Station: L004	Time: 06:38	LOCAL #
Net Event # 91	CTD # 93		
Latitude: 48° 43.658 N	Longitude: 125° 40.965 W		
deg min.dec	deg min.dec		
Wire out: 50	Wire angle: 5	Bottom Depth: 168	
Net Type: VNH	Tow Type: Mini Bongo		
Flow start	Flow end	Flow = frozen	
42524	42610	Non-flow = pickled	

Notes: TSK 5333

Date: 13 Sept	Station: L002	Time: 12:49	LOCAL
Net Event # 98	CTD # 100		
Latitude: 48° 58.367 N	Longitude: 125° 47.039 W		
deg min.dec	deg min.dec		
Wire out: 38	Wire angle: 10	Bottom Depth: 45	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
28798	29082	Non-flow = pickled	

Notes:

Date: 13.09.21	Station: L004	Time: 15:18	LOCAL
Net Event # 104	CTD # 105		
Latitude: 48° 53.137 N	Longitude: 125° 56.812 W		
deg min.dec	deg min.dec		
Wire out: 58	Wire angle: 12	Bottom Depth: 63	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
29085	29523	Non-flow = pickled	

Notes:

Date: 13.09.21	Station: L006	Time: 17:40	LOCAL
Net Event # 107	CTD # 109		
Latitude: 48° 46.232 N	Longitude: 126° 10.147 W		
deg min.dec	deg min.dec		
Wire out: 133	Wire angle: 0	Bottom Depth: 138	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
29523	30338	Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 9021012 Vessel: SPYGLASS Page: 8

Project(s): IN PEROUSE Contact: M0199

TSK Serial #: 7129 RBR serial #:

Time offset = + 7 hrs = UTC (please record local time for samples)

Date: 13.09.21	Station: LD09	Time: 22:45	LOCAL
Net Event # 114	CTD # 115		
Latitude: 48° 35.689 N	Longitude: 126° 29.942 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0	Bottom Depth: 1063	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
30338	31811	Non-flow = pickled	

Notes: CACOM CACMM MUNGU HIPPI 2 PHRSE ON → ETOH

SAURY

Date: 14 Sept 2021	Station: LD11	Time: 02:27	LOCAL
Net Event # 117	CTD # 120		
Latitude: 48° 28.723 N	Longitude: 126° 42.928 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 45	Bottom Depth: 1599	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
31813	33697	Non-flow = pickled	

Notes: removed 1 AEQ-s3. Lots Themisto. Pickled side.
picked from frozen side for cat

Date: 14 Sept 2021	Station: LD11	Time: 03:30	LOCAL
Net Event # 118	CTD # 120		
Latitude: 48° 28.785 N	Longitude: 126° 42.978 W		
deg min.dec	deg min.dec		
Wire out: 1200	Wire angle: 45	Bottom Depth: 1597	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen 95% ETOH	
33617	42808	Non-flow = pickled	

Notes: winch issue @ 450m on way down, stopped for a bit
frozen side → 95% ETOH. Moved shrimp + fish from pickled → ETOH

Date: 14 Sept 2021	Station: LG09	Time: 11:15	LOCAL
Net Event # 122	CTD # 121		
Latitude: 48° 51.166 N	Longitude: 127° 19.347 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 7	Bottom Depth: 2069	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
42806	44561	Non-flow = pickled	

Notes:

for Liam - single fractionated
UVIC

picked 1x PHRSE Female, 1x Medusae preserved in ETOH



Plankton Net Tow Log Sheet

Cruise #: 2021-012 Vessel: Tully Page: 9

Project(s): Laferriere Contact: Moira

TSK Serial #: 7129 RBR serial #: silver

Time offset = + 7 hrs = UTC (please record local time for samples)

Date: 14 Sept 2021	Station: LG09	Time: 18:39	LOCAL
Net Event # 123	CTD # 120		
Latitude: 48 51.200 N		Longitude: 127 19.388 W	
deg min.dec		deg min.dec	
Wire out: 250	Wire angle: 5	Bottom Depth: 2069	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
44561	46405	Non-flow = pickled	
Notes: for UVic - Liam Sige fractionated CACMM + shark lice picked from frozen → 95% EtOH			

Date: 14 Sept 2021	Station: LG09	Time: 12:16	LOCAL
Net Event # 124	CTD # 120		
Latitude: 48 51.189 N		Longitude: 127 19.421 W	
deg min.dec		deg min.dec	
Wire out: 50	Wire angle: 0	Bottom Depth: 2061	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
42610	43620	Non-flow = pickled	
Notes: TSK 5333			

Date: 14 Sept 2021	Station: LG09	Time: 1402	LOCAL
Net Event # 126	CTD # 120		
Latitude: 48° 51.199 N		Longitude: 127° 19.383 W	
deg min.dec		deg min.dec	
Wire out: 2050	Wire angle: 0	Bottom Depth: 2069	
Net Type: MPS	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
		Non-flow = pickled	
Notes:			

Date: 14.09.21	Station: LG07	Time: 1835	LOCAL
Net Event # 129	CTD # 128		
Latitude: 48 59.414 N		Longitude: 127 7.186 W	
deg min.dec		deg min.dec	
Wire out: 250	Wire angle: 8	Bottom Depth: 1770	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
47404	48218	Non-flow = pickled	
Notes:			



Plankton Net Tow Log Sheet

Cruise #: 2021-012 Vessel: Tully Page: 10

Project(s): La Perouse Contact: Moira

TSK Serial #: 7129 RBR serial #:

Time offset = + 7 hrs = UTC (please record local time for samples)

Date: 14.09.21	Station: LG04	Time: 23:20	LOCAL
Net Event # 134	CTD # 135		
Latitude: 49° 11.289 N	Longitude: 126° 49.382 W		
deg min.dec	deg min.dec		
Wire out: 140	Wire angle: 15	Bottom Depth: 145	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
48218	49268	Non-flow = pickled	

Notes:

Date: 15 Sept 21	Station: LG02	Time: 01:46	LOCAL
Net Event # 137	CTD # 140		
Latitude: 49 18.683 N	Longitude: 126 38.093 W		
deg min.dec	deg min.dec		
Wire out: 90	Wire angle: 0	Bottom Depth: 99	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
49269	50178	Non-flow = pickled	

Notes: Uvic - for Liam sing fractionated

Date: 15 Sept 2021	Station: LG02	Time: 02:01	LOCAL
Net Event # 138	CTD # 140		
Latitude: 49 18.669 N	Longitude: 126 38.124 W		
deg min.dec	deg min.dec		
Wire out: 90	Wire angle: 6	Bottom Depth: 99	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
50178	51012	Non-flow = pickled	

Notes:

Date: 15 Sept 2021	Station: LG02	Time: 02:26	LOCAL
Net Event # 139	CTD # 141		
Latitude: 49 18.695 N	Longitude: 126 38.149 W		
deg min.dec	deg min.dec		
Wire out: 50	Wire angle: 0	Bottom Depth: 99	
Net Type: Bongo	Tow Type: VNH	64 µm	
Flow start	Flow end	Flow = frozen	
42620	42655	Non-flow = pickled	

Notes:

TSK 5333

flowmeter not pinning



Plankton Net Tow Log Sheet

Cruise #: 2021-012 Vessel: Tully Page: 11
Project(s): La Perouse Contact: Moira
TSK Serial #: 7129 RBR serial #: silver

Time offset = + 7 hrs = UTC (please record local time for samples)

Date: 15 Sept 21	Station: L509	Time: 08:12	LOCAL
Net Event # 143	CTD # 146		
Latitude: 49 16.148 N	Longitude: 127 47.340 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0	Bottom Depth: 1721	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
51460	53456	Non-flow = pickled	

Notes:

Date: 15 Sept 2021	Station: L509	Time: 16:01	LOCAL
Net Event # 144	CTD # 146		
Latitude: 49 16.253 N	Longitude: 127 47.424 W		
deg min.dec	deg min.dec		
Wire out: 1200	Wire angle: 0	Bottom Depth: 1722	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
53456	62282	Non-flow = pickled	

Notes:

frozen side → 95% ETOH (2 jars; jelly separate)

Date: 15.09.21	Station: LBP8	Time: 1443	LOCAL
Net Event # 148	CTD # 153		
Latitude: 49 48.625 N	Longitude: 128 16.924 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 12	Bottom Depth: 2075	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
62295	64125	Non-flow = pickled	

Notes: 105

Date: 15.09.21	Station: LBP8	Time: 1500	LOCAL
Net Event # 149	CTD # 153		
Latitude: 49 48.632 N	Longitude: 128 16.888 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 8	Bottom Depth: 2084	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
64125	65686	Non-flow = pickled	

Notes: UVic - size fractionated



Plankton Net Tow Log Sheet

Cruise #: 2021012 Vessel: JPTULLY Page: 12

Project(s): LAPEROUSE

Contact: MOIRA

TSK Serial #: 7129

RBR serial #: silver

Time offset = +

hrs = UTC (please record local time for samples)

Date: 15.09.21	Station: LBP8	Time: 1544	LOCAL
Net Event # 150	CTD # 153		
Latitude: 49° 48.631 N	Longitude: 128° 16.803 W		
deg min.dec	deg min.dec		
Wire out: 1200	Wire angle: 5	Bottom Depth: 2085	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
65686	74105	Non-flow = pickled	

Notes: TSK 5333

Date: 15.09.21	Station: LBP8	Time: 1623	LOCAL
Net Event # 152	CTD # 153		
Latitude: 49° 48.619 N	Longitude: 128° 16.794 W		
deg min.dec	deg min.dec		
Wire out: 50	Wire angle: 0	Bottom Depth: 2085	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
42663	43940	Non-flow = pickled	

Notes:

Date: 15.09.21	Station: LBP7	Time: 1723	LOCAL
Net Event # 154	CTD # 156		
Latitude: 49° 52.393 N	Longitude: 128° 11.177 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 15	Bottom Depth: 2194	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
74165	75898	Non-flow = pickled	

Notes:

Date: 16.09.21	Station: LBP5	Time: 0:29	LOCAL
Net Event # 159	CTD # 160		
Latitude: 49° 59.978 N	Longitude: 127° 59.940 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle:	Bottom Depth: 1289	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
75901	77779	Non-flow = pickled	

Notes:

removed 1 Paspal from frozen side (released)

removed 1 CACMA + 1 CACsp from frozen side => EtoH



Plankton Net Tow Log Sheet

Cruise #: 2021-012 Vessel: Tully Page: 13
Project(s): La Perouse Contact: Moira
TSK Serial #: 7129 RBR serial #: silver
Time offset = + 7 hrs = UTC (please record local time for samples)

Date: 16 Sep 2021	Station: LBP3	Time: 03:46	LOCAL
Net Event # 162	CTD # 166		
Latitude: 50 3.213 N	Longitude: 127 55.374 W		
deg min.dec	deg min.dec		
Wire out: 154	Wire angle: 110	Bottom Depth: 164	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
77780	79121	Non-flow = pickled	

Notes: Uvic

Date: 16 Sep 2021	Station: LBP3	Time: 04:01	LOCAL
Net Event # 163	CTD # 166		
Latitude: 50 3.237 N	Longitude: 127 55.318 W		
deg min.dec	deg min.dec		
Wire out: 154	Wire angle: 0	Bottom Depth: 162	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
79121	80367	Non-flow = pickled	

Notes:

Date: 16 Sep 2021	Station: LBP3	Time: 04:32	LOCAL
Net Event # 165	CTD # 166		
Latitude: 50 3.210 N	Longitude: 127 55.244 W		
deg min.dec	deg min.dec		
Wire out: 50	Wire angle: 5	Bottom Depth: 162	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
43940	43116	Non-flow = pickled	

Notes: probably should be 2

Date: 16 Sept 2021	Station: LBP2	Time: 06:40	LOCAL
Net Event # 169	CTD # 168		
Latitude: 50 3.909 N	Longitude: 127 54.164 W		
deg min.dec	deg min.dec		
Wire out: 8098	Wire angle: 10	Bottom Depth: 98	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
80372	81015	Non-flow = pickled	

Notes: 1 cac picked from frozen → EADH



Plankton Net Tow Log Sheet

Cruise #: 2021-012 Vessel: Tully Page: 14
 Project(s): La Perouse Contact: Moira
 TSK Serial #: 7129 RBR serial #: silver
 Time offset = + 7 hrs = UTC (please record local time for samples)

Date: 16 Sept 2021	Station: CPE2	Time: 1219	LOCAL
Net Event # 173	CTD # 172		
Latitude: 50° 42.951 N	Longitude: 128° 30.736 W		
deg min.dec	deg min.dec		
Wire out: 123	Wire angle: 8	Bottom Depth: 128	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
81015	81882	Non-flow = pickled	
Notes: 1 CALPA 25 ACALD → LIPIDS			

Date: 16 09 21	Station: CS1B	Time: 1422	LOCAL
Net Event # 175	CTD # 174		
Latitude: 50° 53.076 N	Longitude: 128° 40.160 W		
deg min.dec	deg min.dec		
Wire out: 68	Wire angle: 18	Bottom Depth: 73	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
81882	82348	Non-flow = pickled	
Notes:			

Date: 16-09-21	Station: CS05	Time: 1633	LOCAL
Net Event # 179	CTD # 177		
Latitude: 50° 56.057 N	Longitude: 129° 00.139 W		
deg min.dec	deg min.dec		
Wire out: 55	Wire angle: 15	Bottom Depth: 63	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
82349	82835	Non-flow = pickled	
Notes:			

Date: 16 09 21	Station: CS06	Time: 17:59	LOCAL
Net Event # 181	CTD # 180		
Latitude: 51° 00.193 N	Longitude: 128 51.72 W		
deg min.dec	deg min.dec		
Wire out: 60	Wire angle: 24	Bottom Depth: 65	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
82835	83660	Non-flow = pickled	
Notes: 83248			

- missed in cruise log. Used end of ROS position
 time estimated



Plankton Net Tow Log Sheet

Cruise #: 2021-12 Vessel: Tully Page: 15
Project(s): La Perouse Contact: Moira
TSK Serial #: 7129 RBR serial #: Silver

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

Date: 16.09.21	Station: C507	Time: 1914	LOCAL
Net Event # 182	CTD # 182		
Latitude: 51° 04.531 N	Longitude: 128° 43.802 W		
deg min.dec	deg min.dec		
Wire out: 65	Wire angle: 22	Bottom Depth: 60	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
83660	84170	Non-flow = pickled	

Notes:

Date: 16.09.21	Station: C508	Time: 2053	LOCAL
Net Event # 185	CTD # 184		
Latitude: 51° 08.536 N	Longitude: 128° 35.683 W		
deg min.dec	deg min.dec		
Wire out: 140	Wire angle: 30	Bottom Depth: 140 146	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
84170	85280	Non-flow = pickled	

Notes:

Date: 16.09.21	Station: C509 9	Time: 2240	LOCAL
Net Event # 187	CTD # 186		
Latitude: 51° 12.568 N	Longitude: 128° 27.758 W		
deg min.dec	deg min.dec		
Wire out: 190	Wire angle: 35	Bottom Depth: 197	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
85280	86710	Non-flow = pickled	

Notes: CHITOBIASE → NAM UVIC → 1 SIDE FRACTIONATED
1 SIDE FORMALIN → IOS

Date: 16.09.21	Station: Rika	Time: 1829	LOCAL
Net Event # 192	CTD # 191		
Latitude: 51° 40.513 N	Longitude: 127° 17.096 W		
deg min.dec	deg min.dec		
Wire out: 140	Wire angle: 10	Bottom Depth: 145	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
86710	87565	Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2021012 Vessel: JPTony Page: 16
Project(s): WAPEROUSE Contact: NOTRA
TSK Serial #: 7129 RBR serial #: SILVER
Time offset = + 7 hrs = UTC (please record local time for samples)

Date: 17.09.21	Station: R:5	Time: 1943	LOCAL
Net Event # 195	CTD # 197		
Latitude: 51°40.660 N		Longitude: 127°19.970 W	
deg min.dec		deg min.dec	
Wire out: 195	Wire angle: 0	Bottom Depth: 202	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
87565	88725	Non-flow = pickled	
Notes:			

Date: 17.09.21	Station: R:4	Time: 2218	LOCAL
Net Event # 199	CTD # 198		
Latitude: 51°38.945 N		Longitude: 127°26.832 W	
deg min.dec		deg min.dec	
Wire out: 295	Wire angle: 5	Bottom Depth: 302	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
88722	90465	Non-flow = pickled	
Notes:			

Date: 18.09.21	Station: R:3	Time: 0:30	LOCAL
Net Event # 203	CTD # 201		
Latitude: 51°35.848 N		Longitude: 127°32.108 W	
deg min.dec		deg min.dec	
Wire out: 320	Wire angle: 0	Bottom Depth: 330	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
90466	92371	Non-flow = pickled	
Notes: 21 CYPCH + 10 THERA → ELOA			

Date: 18 Sept 21	Station: R:2	Time: 1:24	LOCAL
Net Event # 204	CTD # 208		
Latitude: 51°31.214 N		Longitude: 127°33.546 W	
deg min.dec		deg min.dec	
Wire out: 250	Wire angle: 0	Bottom Depth: 333	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
92371	94820	Non-flow = pickled	
Notes: for Liam/UVic since fractionated			



Plankton Net Tow Log Sheet

Cruise #: 2021012 Vessel: Tully Page: 17
Project(s): Leperouse Contact: Moira
TSK Serial #: 7129 RBR serial #: silver
Time offset = + 7 hrs = UTC (please record local time for samples)

Date: 18 Sept 2021	Station: R12	Time: 01:47	LOCAL
Net Event # 205	CTD # 208		
Latitude: 51 31.209	N	Longitude: 127 33.558	W
deg min.dec		deg min.dec	
Wire out: 324	Wire angle: 0	Bottom Depth: 334	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
94820	95698	Non-flow = pickled	

Notes: rem 1 Berab-s3 from pickled (~8cm)

Date: 18 Sept 2021	Station: R12	Time: 04:58	LOCAL
Net Event # 210	CTD # 209		
Latitude: 51 26.305	N	Longitude: 127 38.376	W
deg min.dec		deg min.dec	
Wire out: 3185	Wire angle: 5	Bottom Depth: 325	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
95699	97765	Non-flow = pickled	

Notes:

Date: 18 Sept 2021	Station: S57	Time: 06:37	LOCAL
Net Event # 213	CTD # 212		
Latitude: 51 24.725	N	Longitude: 127 47.566	W
deg min.dec		deg min.dec	
Wire out: 113	Wire angle: 12	Bottom Depth: 123	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
97769	98480	Non-flow = pickled	

Notes:

Date: 18 Sept 2021	Station: S56	Time: 08:39	LOCAL
Net Event # 216	CTD # 215 218		
Latitude: 51 20.021	N	Longitude: 127 59.993	W
deg min.dec		deg min.dec	
Wire out: 167	Wire angle: 5	Bottom Depth: 178	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
98481	99708	Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2021012 Vessel: Tully Page: 18

Project(s): Le Perouse Contact: Maira

TSK Serial #: 729 RBR serial #: Silver

Time offset = + 7 hrs = UTC (please record local time for samples)

Date: 18 Sept 2021	Station: CS10	Time: 1201	LOCAL
Net Event # 220	CTD # 219		
Latitude: 51° 16.503 N	Longitude: 128° 19.890 W		
deg min.dec	deg min.dec		
Wire out: 75	Wire angle: 7	Bottom Depth: 81	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
99810	00420	Non-flow = pickled	
Notes: 30 PSEMM + 30 PARIN → MINUS 80 MPIDS			

Date: 18.09.21	Station: CPE1	Time: 1555	LOCAL
Net Event # 224	CTD # 222		
Latitude: 51° 00.043 N	Longitude: 127° 49.966 W		
deg min.dec	deg min.dec		
Wire out: 140	Wire angle: 15	Bottom Depth: 146	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
00420	01471	Non-flow = pickled	
Notes: 30 BIFID 30 ACALOF → MINUS 80 MPIDS			

Date: 18.09.21	Station: JS1	Time: 2242	LOCAL
Net Event # 226	CTD # 228		
Latitude: 50° 30.335 N	Longitude: 126° 27.974 W		
deg min.dec	deg min.dec		
Wire out: 365	Wire angle: 10	Bottom Depth: 371	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
1471	3555	Non-flow = pickled	
Notes: 1 PANDALUS + SMALL COPE → ETOH			

Date: 19 Sept 2021	Station: 16	Time: 05:52	LOCAL
Net Event # 229	CTD # 231		
Latitude: 49 57.079 N	Longitude: 125 8.213 W		
deg min.dec	deg min.dec		
Wire out: 138	Wire angle: 15	Bottom Depth: 146	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
3554	4522	Non-flow = pickled	
Notes:			



Plankton Net Tow Log Sheet

Cruise #: 2021012 Vessel: JP Tully Page: 19

Project(s): La Perouse/Sdg Contact: Moira

TSK Serial #: 7129 RBR serial #: Silver

Time offset = + 7 hrs = UTC (please record local time for samples)

Date: 19 Sep 2021	Station: 14	Time: 07:53	LOCAL
Net Event # 233	CTD # 234		
Latitude: 49 53.023 N	Longitude: 124 59.592 W		
deg min.dec	deg min.dec		
Wire out: 306	Wire angle: 5	Bottom Depth: 316	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
4522	6381	Non-flow = pickled	

Notes: Released one LERSC; 15 CYPCH + 2 Primno sp. → ETOH from frozen

Date: 19 Sep 2021	Station: 12	Time: 10:49	LOCAL
Net Event # 236	CTD # 238		
Latitude: 49 43.620 N	Longitude: 124 40.826 W		
deg min.dec	deg min.dec		
Wire out: 345	Wire angle: 0	Bottom Depth: 355	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
6382	7810	Non-flow = pickled	

Notes:

Date: 19.09.21	Station: CPE2	Time: 16:28	LOCAL
Net Event # 243	CTD # 241		
Latitude: 49 38.017 N	Longitude: 124 30.119 W		
deg min.dec	deg min.dec		
Wire out: 324	Wire angle: 0	Bottom Depth: 330	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
07810	10786	Non-flow = pickled	

Notes:

Date: 19.09.21	Station: CPE1	Time: 20:02	LOCAL
Net Event # 247	CTD # 246		
Latitude: 49 22.021 N	Longitude: 124 05.041 W		
deg min.dec	deg min.dec		
Wire out: 240	Wire angle: 10	Bottom Depth: 246	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
10786	12220	Non-flow = pickled	

Notes: 3HYEME ♀ 1PRIAB ♀ 1SCIBO ♂ ♀ 1BERAB 1TOMSE⁸² 1CYPCH ♂ 2
→ ETOH



Plankton Net Tow Log Sheet

Cruise #: 2021012 Vessel: HT007 Page: 20

Project(s): LAP / Sog Contact: M61RA

TSK Serial #: 7129 RBR serial #: SILVER

Time offset = +

hrs = UTC (please record local time for samples)

Date: 19.09.21	Station: 24	Time: 2252	LOCAL
Net Event # 251	CTD # 249		
Latitude: 49° 30.345 N	Longitude: 124° 06.087 W		
deg min.dec	deg min.dec		
Wire out: 420	Wire angle: 12	Bottom Depth: 426	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
12220	15940	Non-flow = pickled	
Notes:			

Date: 20 Sept 2021	Station: 22	Time: 0:33	LOCAL
Net Event # 252	CTD # 254		
Latitude: 49 40.198 N	Longitude: 124 16.231 W		
deg min.dec	deg min.dec		
Wire out: 348	Wire angle: 0	Bottom Depth: 353	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
15939	18016	Non-flow = pickled	
Notes: from frozen 3 Neocv 30 Eucbv 30 Neopl V 15 Paul 9+V picked for lipids: 25 Metpa 20 Calpa V 60 psemi V			

Date: 20 Sept 2021	Station: 28	Time: 04:38	LOCAL
Net Event # 255	CTD # 257		
Latitude: 49 24.225 N	Longitude: 123 45.586 W		
deg min.dec	deg min.dec		
Wire out: 128	Wire angle: 5	Bottom Depth: 133	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
18017	18513	Non-flow = pickled	
Notes:			

Date: 20 Sept 2021	Station: GE01	Time: 0809	LOCAL
Net Event # 261	CTD # 259		
Latitude: 49° 14.985 N	Longitude: 123° 44.949 W		
deg min.dec	deg min.dec		
Wire out: 393	Wire angle: 0	Bottom Depth: 403	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
18514	20941	Non-flow = pickled	
Notes:			



Plankton Net Tow Log Sheet

Cruise #: 2021-012 Vessel: JP Tully Page: 21

Project(s): LaP / SoG

Contact: Moira

TSK Serial #: 7129

RBR serial #: silver

Time offset = +

hrs = UTC (please record local time for samples)

Date: 20 Sep. 2021	Station: GE01	Time: 08:43	LOCAL
Net Event # 262	CTD # 259		
Latitude: 49° 14.977 N	Longitude: 123° 44.987 W		
deg min.dec	deg min.dec		
Wire out: 393	Wire angle: 0	Bottom Depth: 403	
Net Type: MPS	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
		Non-flow = pickled	

Notes: #1-390-300 #2-300-200 #3-200-100 #4-100-50 #5-50-0 m

Date: 20 Sep 21	Station: 38	Time: 11:27	LOCAL
Net Event # 265	CTD # 264		
Latitude: 49 12.032 N	Longitude: 123 26.354 W		
deg min.dec	deg min.dec		
Wire out: 300	Wire angle: 0	Bottom Depth: 305	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
20942	22720	Non-flow = pickled	

Notes:

Date: 20.09.21	Station: 41	Time: 1414	LOCAL
Net Event # 269	CTD # 267		
Latitude: 49° 3.282 N	Longitude: 123° 22.333 W		
deg min.dec	deg min.dec		
Wire out: 235	Wire angle: 5	Bottom Depth: 239	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
22720	24443	Non-flow = pickled	

Notes: 1 BTID 1 PRIAB 1 HYEME 9 → ETOH

Date: 20.09.19	Station: 42	Time: 1520	LOCAL
Net Event # 271	CTD # 270		
Latitude: 49° 01.195 N	Longitude: 123° 26.102 W		
deg min.dec	deg min.dec		
Wire out: 315	Wire angle:	Bottom Depth: 321	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
24443	26572	Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2021012 Vessel: JPTully Page: 02

Project(s): Sog Contact: MOIRA

TSK Serial #: 7129 RBR serial #:

Time offset = +

hrs = UTC (please record local time for samples)

Date: 20 09 21	Station: 46	Time: 18:18	LOCAL
Net Event # 275	CTD # 273		
Latitude: 48 51.504 N	Longitude: 123 11.221 W		
deg min.dec	deg min.dec		
Wire out: 1705	Wire angle: 0	Bottom Depth: 178	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
26572	27625	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:			