



Plankton Net Tow Log Sheet

Cruise #: 2020008 Vessel: JPTully Page: 4

Project(s): LINE P Contact: MOIRA

TSK Serial #: 7132 RBR serial #: 78976

Time offset = +

hrs = UTC (please record local time for samples)

Date: 20.08.20	Station: P26	Time: 09:27	LOCAL
Net Event # 71	CTD # 77		
Latitude: 49° 59.96 N	Longitude: 144° 59.96 W		
deg min.dec	deg min.dec		
Wire out: 50	Wire angle: 0°	Bottom Depth: 4209m	
Net Type: MINI	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
8997	9169	Non-flow = pickled	
Notes: TSK 7129			

Date: 20.08.20	Station: P26	Time: 0527	LOCAL
Net Event # 73	CTD # 77		
Latitude: 49 59.99 N	Longitude: 144 59.99 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0	Bottom Depth: 4208	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
24214	26175	Non-flow = pickled	
Notes:			

ADD IN LIST FROM PRASIT - PICKED BUGS

Date: 20.08.20	Station: P4	Time: 0136	LOCAL
Net Event # 88	CTD # 86		
Latitude: 48 38.99 N	Longitude: 126 40.00 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle:	Bottom Depth:	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
26177	28190	Non-flow = pickled	
Notes:			

HUMBOLDTS, NEON, SAURY 2-4M SWELLS

RELEASE MICROSTOMUS PACIFICUS 2 REQ

Date: 24.06.2020	Station: C1	Time: 1820	LOCAL
Net Event # 6	CTD # 5		
Latitude: 48 31 660 N	Longitude: 125 3 758 W		
deg min.dec	deg min.dec		
Wire out: 100	Wire angle: 5	Bottom Depth: 119	
Net Type: BNG	Tow Type: VNH		
Flow start 28190	Flow end 29168	Flow = frozen	
		Non-flow = pickled	
Notes:			

0.7mls UP max.

LA Release
START



Plankton Net Tow Log Sheet

Cruise #: 2020-008 Vessel: JPTULLY Page: 5

Project(s): LA Below Contact: MORRIS

TSK Serial #: 7132 RBR serial #: 78976

Time offset = +

hrs = UTC (please record local time for samples)

Date: 24/06/2020	Station: C1	Time: 0404 02	LOCAL 2104
Net Event # 10	CTD # 9		
Latitude: 48° 14.2 N	Longitude: 125° 15.229 W		
deg min.dec	deg min.dec		
Wire out: 143	Wire angle: 5	Bottom Depth: 153	
Net Type: Bongo	Tow Type: VNH		
Flow start 29168	Flow end 30380	Flow = frozen	
		Non-flow = pickled	

Notes: A-frame stuck out, nets washed on deck.

Date: 24/06/2020	Station: C3	Time: 0626 04	LOCAL 2326
Net Event # 13	CTD # 12		
Latitude: 48° 23.441 N	Longitude: 125° 20.788 W		
deg min.dec	deg min.dec		
Wire out: 112	Wire angle: 5°	Bottom Depth: 122	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
30380	31233	Non-flow = pickled	

Notes: A FRAME PROBLEMS NO C2 BONGO

Date: 25-08-20	Station: LB07	Time: 0038	LOCAL
Net Event # 15	CTD # 14		
Latitude: 48° 28.68 N	Longitude: 125° 22.10 W		
deg min.dec	deg min.dec		
Wire out: 145	Wire angle: 0	Bottom Depth: 155	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
31233	32349	Non-flow = pickled	

Notes:

Date: 25-08-20	Station: B8	Time: 0206	LOCAL
Net Event # 17	CTD # 16		
Latitude: 48° 34.53 N	Longitude: 125° 30.11 W		
deg min.dec	deg min.dec		
Wire out: 112	Wire angle: 5	Bottom Depth: 117	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
32349	33310	Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2020009 Vessel: J P Tully Page: 6

Project(s): LA PEROUSE Contact: MOIRA

TSK Serial #: 7132 RBR serial #: 78976

Time offset = +

hrs = UTC (please record local time for samples)

Date: 25.08.20	Station: B7	Time: 0311	LOCAL No UTC
Net Event # 20	CTD # 19		
Latitude: 48 32.08 N	Longitude: 125 35.67 W		
deg min.dec	deg min.dec		
Wire out: 74	Wire angle: 10	Bottom Depth: 79	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
33310	34445	Non-flow = pickled	

Notes:

WIRE OUT @ 0.3M/SEC ^{CURRENT?} ~~WOULD~~ NOT GO DOWN? RETRIEVAL GOOD

Date: 25.08.20	Station: LB08	Time: 0420	LOCAL
Net Event # 21	CTD # 22		
Latitude: 48 25.26 N	Longitude: 125 28.77 W		
deg min.dec	deg min.dec		
Wire out: 140	Wire angle: 7	Bottom Depth: 145	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
34445	35563	Non-flow = pickled	

Notes:

SLOW DEPLOYMENT BIT OF SURGING WINDS 18-20 KNOTS

Date: 25.08.20	Station: LB11	Time: 0815	LOCAL
Net Event # 25	CTD # 26		
Latitude: 48 15.26 N	Longitude: 125 47.70 W		
deg min.dec	deg min.dec		
Wire out: 200	Wire angle: 0	Bottom Depth: 206	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
35565	37892	Non-flow = pickled	

Notes:

Date: 25.08.20	Station: LB16	Time: 1610	LOCAL
Net Event # 31	CTD # 33		
Latitude: 48° 00.458 N	Longitude: 126° 16.968 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0	Bottom Depth: 1804	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
37892	40052	Non-flow = pickled	

Notes: 18-21 knot wind speeds



Plankton Net Tow Log Sheet

Cruise #: 2020-009 Vessel: Tully Page: 7

Project(s): LaPerouse Contact: Moira

TSK Serial #: 7132 RBR serial #: 78976

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

Date: 25 Aug 2020	Station: LB16	Time: 1628	LOCAL NO UTC
Net Event # 32	CTD # 33		
Latitude: 48° 00.521 N	Longitude: 126° 16.989 W		
deg min.dec	deg min.dec		
Wire out: 1503	Wire angle: 0	Bottom Depth: 1801	
Net Type: Mini	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
09228	09525	Non-flow = pickled	

Notes:

Date: 25 Aug 2020	Station: LB16	Time: 1844	LOCAL
Net Event # 34	CTD # 33		
Latitude: 48° 00.520 N	Longitude: 126° 16.990 W		
deg min.dec	deg min.dec		
Wire out: 1200	Wire angle: 0	Bottom Depth: 1815	
Net Type: Bongo	Tow Type: VNH		
Flow start 40052	Flow end 50472	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: 26 Aug 2020	Station: LC12 A4	Time: 2327	LOCAL
Net Event # 36	CTD # 35		
Latitude: 48° 14.989 N	Longitude: 126° 39.990 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: ~7°	Bottom Depth: 2555	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
50472	52601	Non-flow = pickled	

Notes:

Date: 26 Aug 2020	Station: LC12 A4	Time: 2345	LOCAL
Net Event # 37	CTD # 35		
Latitude: 48° 14.990 N	Longitude: 126° 39.991 W		
deg min.dec	deg min.dec		
Wire out: 50	Wire angle: 0	Bottom Depth: 2538	
Net Type: Mini	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
09525	09851	Non-flow = pickled	

Notes: TSK 7129



Plankton Net Tow Log Sheet

Cruise #: 2020009 Vessel:

Page: 8

Project(s): LNPEROUSE

Contact: MOIRA

TSK Serial #: 7132

RBR serial #: 78976

Time offset = +

hrs = UTC (please record local time for samples)

Date: 26.08.20	Station: LC09 AS	Time: 0829	LOCAL NO UTC
Net Event # 42	CTD # 43		
Latitude: 48 deg 25.47 min.dec N	Longitude: 126 deg 13.76 min.dec W		
Wire out: 250	Wire angle: 0	Bottom Depth: 618	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
52602	54675	Non-flow = pickled	

Notes: Flow on sample labels right before previous unit.

Date: 26.08.20	Station: A2	Time: 1036	LOCAL
Net Event # 45	CTD # 44		
Latitude: 48 deg 22.73 min.dec N	Longitude: 126 deg 03.71 min.dec W		
Wire out: 250	Wire angle: 7°	Bottom Depth: 355	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
54675	56635	Non-flow = pickled	

Notes:

Date: 26 August 2020	Station: LC08	Time: 1258	LOCAL
Net Event # 46	CTD # 47		
Latitude: 48 deg 29.53 min.dec N	Longitude: 126 deg 06.99 min.dec W		
Wire out: 187	Wire angle: 7°	Bottom Depth: 197	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
56635	58092	Non-flow = pickled	

Notes:

Date: 26 AUG 2020	Station: LC06	Time: 1516	LOCAL
Net Event # 51	CTD # 50		
Latitude: 48 deg 36.436 min.dec N	Longitude: 125 deg 53.925 min.dec W		
Wire out: 83	Wire angle: 0	Bottom Depth: 93	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
58092	58719	Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2020-001 Vessel: SPRUCE Page: 9
Project(s): LA PLANKT Contact: MORRIS
TSK Serial #: 7132 RBR serial #: 78976
Time offset = + hrs = UTC (please record local time for samples)

Date: <u>26 AUG 2020</u>	Station: <u>LC05</u>	Time: <u>1417</u>	LOCAL
Net Event # <u>53</u>	CTD # <u>52</u>		
Latitude: <u>48 29 882</u> N		Longitude: <u>125 47 466</u> W	
deg min.dec		deg min.dec	
Wire out: <u>SS</u>	Wire angle: <u>0</u>	Bottom Depth: <u>65</u>	
Net Type: <u>BONGO</u>	Tow Type: <u>VNH</u>		
Flow start <u>58719</u>	Flow end <u>59128</u>	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: <u>26 AUG 2020</u>	Station: <u>LC01</u>	Time: <u>2012</u>	LOCAL
Net Event # <u>58</u>	CTD # <u>57</u>		
Latitude: <u>48 50 426</u> N		Longitude: <u>125 27 836</u> W	
deg min.dec		deg min.dec	
Wire out: <u>SO</u>	Wire angle: <u>0</u>	Bottom Depth: <u>98</u>	
Net Type: <u>MINE</u>	Tow Type: <u>VNH</u>		
Flow start <u>05851</u>	Flow end	Flow = frozen	
		Non-flow = pickled	

Notes: TSK 7129

Date: <u>27 Aug 2020</u>	Station: <u>LD01</u>	Time: <u>1022</u>	LOCAL
Net Event # <u>60</u>	CTD # <u>59</u>		
Latitude: <u>49° 0.112</u> N		Longitude: <u>125° 43.825</u> W	
deg min.dec		deg min.dec	
Wire out: <u>26</u>	Wire angle: <u>0</u>	Bottom Depth: <u>36</u>	
Net Type: <u>Mini</u>	Tow Type: <u>VNH</u>		
Flow start	Flow end	Flow = frozen	
<u>10003</u>	<u>10085</u>	Non-flow = pickled	

Notes:

Date: <u>27 AUG 2020</u>	Station: <u>LD02</u>	Time: <u>2316</u>	LOCAL
Net Event # <u>62</u>	CTD # <u>61</u>		
Latitude: <u>48 58 427</u> N		Longitude: <u>125 47 169</u> W	
deg min.dec		deg min.dec	
Wire out: <u>33</u>	Wire angle: <u>10</u>	Bottom Depth: <u>43</u>	
Net Type: <u>BONGO</u>	Tow Type: <u>VNH</u>		
Flow start <u>57128</u>	Flow end <u>59382</u>	Flow = frozen	
		Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2020009 Vessel: LP Tully Page: 9

Project(s): LA PEROUSE Contact: MOIRA

TSK Serial #: 7132 RBR serial #: 78976

Time offset = +

hrs = UTC (please record local time for samples)

Date: 27 08 20	Station: LD04	Time: 0047	LOCAL
Net Event # 64	CTD # 65		
Latitude: 48 53.23 N	Longitude: 125 57.13 W		
deg min.dec	deg min.dec		
Wire out: 57	Wire angle: 19	Bottom Depth: 62	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
59408	59810	Non-flow = pickled	

Notes:

Date: 27 08 20	Station: LD09	Time: 0747	LOCAL
Net Event # 71	CTD # 70		
Latitude: 48 35.18 N	Longitude: 126 30.02 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 10	Bottom Depth: 1057	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
59810	61468	Non-flow = pickled	

Notes:

Date: 27 08 20	Station: LD11	Time: 10:11	LOCAL
Net Event # 74	CTD # 77		
Latitude: 48° 28.25 N	Longitude: 126° 42.89 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 10°	Bottom Depth: 1601	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
61470	63055	Non-flow = pickled	

Notes:

Date: 27 08 20	Station: LD11	Time: 10:32	LOCAL
Net Event # 75	CTD # 77		
Latitude: 48° 28.74 N	Longitude: 126° 42.93 W		
deg min.dec	deg min.dec		
Wire out: 50	Wire angle: 5°	Bottom Depth: 1601	
Net Type: Mini Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
10083	10345	Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2020-009 Vessel: JP 1016 Page: 10

Project(s): LA PEROUSE Contact: MOIRA G.

TSK Serial #: 7132 RBR serial #: 78976

Time offset = +

hrs = UTC (please record local time for samples)

Date: 27-Aug-2020	Station: LG09	Time: 1945	LOCAL
Net Event # 79	CTD # 78		
Latitude: 48 51 26.7 N	Longitude: 127 19 39.7 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0	Bottom Depth: 2071	
Net Type: BONGO	Tow Type: VNH		
Flow start 63055	Flow end 64680	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: 27-Aug-2020	Station: LG09	Time: 2037	LOCAL
Net Event # 80	CTD # 78		
Latitude: 48 51 19.9 N	Longitude: 127 19 36.9 W		
deg min.dec	deg min.dec		
Wire out: 1200	Wire angle: 0	Bottom Depth: 2073	
Net Type: BONGO	Tow Type: VNH		
Flow start 64680	Flow end	Flow = frozen	
		Non-flow = pickled	

Notes: RELEASE SNIPE EEL AVOID

Date: 27-Aug-2020	Station: LG09	Time: 2112	LOCAL
Net Event # 81	CTD # 78		
Latitude: 48 51 19.9 N	Longitude: 127 19 40.1 W		
deg min.dec	deg min.dec		
Wire out: 50	Wire angle: 0	Bottom Depth: 2073	
Net Type: MINI	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
10345	10615	Non-flow = pickled	

Notes: TSK 7129

Date: 28-08-20	Station: LG07	Time: 01:08	LOCAL
Net Event # 84	CTD # 83		
Latitude: 48° 59.32 N	Longitude: 127° 07.26 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 8°	Bottom Depth: 1772	
Net Type: BONGO	Tow Type: VNH		
Flow start 724	Flow end	Flow = frozen	
72458	74161	Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2020009 Vessel: LPTULLY Page: 11

Project(s): LAPERROUSE Contact: MOIRA

TSK Serial #: RBR serial #:

Time offset = +

hrs = UTC (please record local time for samples)

Date: 28.08.20	Station: L604	Time: 0458	LOCAL
Net Event # 87	CTD # 88		
Latitude: 49 deg	11.20 min.dec N	Longitude: 126 deg	49.45 min.dec W
Wire out: 140	Wire angle: 8	Bottom Depth: 145	
Net Type: Bongio	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
74160	75135	Non-flow = pickled	

Notes:

Date: 28.08.20	Station: L602	Time: 0736	LOCAL
Net Event # 90	CTD # 91		1436 UTC
Latitude: 49 deg	18.73 min.dec N	Longitude: 126 deg	38.17 min.dec W
Wire out: 95	Wire angle: 20	Bottom Depth: 100	
Net Type: Bongio	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
75135	75925	Non-flow = pickled	

Notes:

Date: 28 Aug 2020	Station: LJO2	Time: 1322	LOCAL
Net Event # 97	CTD # 96		
Latitude: 49 deg	42.593 min.dec N	Longitude: 127 deg	5.395 min.dec W
Wire out: 73	Wire angle:	Bottom Depth: 83	
Net Type: Bongio	Tow Type: Bongio VNH		
Flow start	Flow end	Flow = frozen	
75975	76398	Non-flow = pickled	

Notes: Moon jelly caught & then released.

Date: 28 Aug 2020	Station: LJO4	Time: 1939	LOCAL
Net Event # 101	CTD # 100		
Latitude: 48 deg	35.662 min.dec N	Longitude: 127 deg	16.910 min.dec W
Wire out: 140	Wire angle: 60	Bottom Depth: 158	
Net Type: Bongio	Tow Type: VNH		
Flow start 76358	Flow end 77468	Flow = frozen	
		Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2020-009 Vessel: JP Tully Page: 12

Project(s): LAPERDOUSE Contact: MOIRA B.

TSK Serial #: 7132 RBR serial #: 78976

Time offset = +

hrs = UTC (please record local time for samples)

Date: 28/06/22	Station: L506	Time: 1849	LOCAL
Net Event # 104	CTD # 103		
Latitude: 49 27 956 N	Longitude: 127 28 709 W		
deg min dec	deg min dec		
Wire out: 250	Wire angle: 0	Bottom Depth: 1015	
Net Type: Bongo	Tow Type: VNH		
Flow start 7968	Flow end 79698	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: 29.08.20	Station: L509	Time: 12:56	LOCAL
Net Event # 108	CTD # 107		
Latitude: 49 16 06 N	Longitude: 127 47 32 W		
deg min dec	deg min dec		
Wire out: 250	Wire angle: 0	Bottom Depth: 2503	
Net Type: Bongo	Tow Type: VNH		
Flow start 79699	Flow end 82267	Flow = frozen	
		Non-flow = pickled	

Notes: Release 1 LIPFU

Date: 29.08.20	Station: L509	Time: 01:54	LOCAL
Net Event # 109	CTD # 107		
Latitude: 49 16 05 N	Longitude: 127 47.32 W		
deg min dec	deg min dec		
Wire out: 1200	Wire angle: 0	Bottom Depth: 2503	
Net Type: BONGO	Tow Type: VNH		
Flow start 82267	Flow end 92824	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: 29.08.20	Station: L509	Time: 02:23	LOCAL
Net Event # 110	CTD # 107		
Latitude: 49 16 06 N	Longitude: 127 47.32 W		
deg min dec	deg min dec		
Wire out: 50	Wire angle: 5	Bottom Depth: 2502	
Net Type: Mini	Tow Type: BONGO VNH		
Flow start 10615	Flow end 10995	Flow = frozen	
		Non-flow = pickled	

Notes: TSK 7129



Plankton Net Tow Log Sheet

Cruise #: 2020009 Vessel: John P. Tully Page: 13

Project(s): La Perouse Contact: MORA

TSK Serial #: 7132 RBR serial #: 78976

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

Date: 29-08-20	Station: LBP8	Time: 07:50	LOCAL
Net Event # 112	CTD # 111		
Latitude: 48° 48.66 N	Longitude: 128° 16.82 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0	Bottom Depth: 2087	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
92822	95362	Non-flow = pickled	

Notes:

Date: 29-08-20	Station: LBP7	Time: 0918	LOCAL
Net Event # 114	CTD # 115		
Latitude: 49° 52.51 N	Longitude: 128° 11.33 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0°	Bottom Depth: 2186	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
95962	98002	Non-flow = pickled	

Notes:

Date: 29-08-20	Station: LBP5	Time: 13:33	LOCAL
Net Event # 117	CTD # 116		
Latitude: 50° 0 125 N	Longitude: 128° 0 12 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0°	Bottom Depth: 1296	
Net Type: BONGO	Tow Type: VNH		
Flow start 98003	Flow end 100099	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: 29-08-2020	Station: LBP3	Time: 1629	LOCAL
Net Event # 120	CTD # 119		
Latitude: 50° 3.180 N	Longitude: 127° 55.272 W		
deg min.dec	deg min.dec		
Wire out: 157	Wire angle: 5	Bottom Depth: 167	
Net Type: BONGO	Tow Type: VNH		
Flow start 00099	Flow end 01390	Flow = frozen	
5433	7290	Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2020-009 Vessel: JP Tully Page: 14
Project(s): LA PEROUSE Contact: Moira
TSK Serial #: 7132 RBR serial #: 78976

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

Date: 29-08-2020	Station: LBP2	Time: 1709	LOCAL
Net Event # 123	CTD # 122		
Latitude: 50° 3.985 N	Longitude: 127° 54.139 W		
deg min.dec	deg min.dec		
Wire out: 86	Wire angle: 4°	Bottom Depth: 96	
Net Type: BONGO	Tow Type: VNH		
Flow start: 01390	Flow end: 02109	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: 30-08-20	Station: CPE2	Time: 04:04 am	LOCAL
Net Event # 128	CTD # 127		
Latitude: 50° 43.01 N	Longitude: 128° 39.92 W		
deg min.dec	deg min.dec		
Wire out: 117	Wire angle: 16	Bottom Depth: 122	
Net Type: Bongo	Tow Type: VNH		
Flow start: 2111	Flow end: 3097	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: 30-08-20	Station: LQ03	Time: 07:52	LOCAL
Net Event # 130	CTD # 129		
Latitude: 50° 39.67 N	Longitude: 129° 01.82 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 15	Bottom Depth: 1242	
Net Type: Bongo	Tow Type: VNH		
Flow start: 3101	Flow end: 5437	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: 30-08-20	Station: L500	Time: 10:52 am	LOCAL
Net Event # 131	CTD # 133		
Latitude: 50° 27.77 N	Longitude: 129° 54.94 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0	Bottom Depth: 2192	
Net Type: BONGO	Tow Type: VNH		
Flow start: 5438	Flow end: 7290	Flow = frozen	
		Non-flow = pickled	

Notes:

lots of baby spiny lobsters (Munidae)



Plankton Net Tow Log Sheet

Cruise #: 2020-009 Vessel: SPT Page: 15

Project(s): La Perouse Contact: Moira

TSK Serial #: 7132 RBR serial #: 78976

Time offset = +

hrs = UTC (please record local time for samples)

Date: 30.08.20	Station: C500	Time: 11:58 am	LOCAL
Net Event # 132	CTD # 133		
Latitude: 50° 27.663 N		Longitude: 129° 55.052 W	
deg	min.dec	deg	min.dec
Wire out: 1223	Wire angle: 0	Bottom Depth: 2190	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
7290	16662	Non-flow = pickled	

Notes: down to 1223 m. Winch operator wanted to remove a loose wrap from the drum.

Date: 30 Aug 2020	Station: C501	Time: 16:32	LOCAL
Net Event # 135	CTD # 134		
Latitude: 50° 34.902 N		Longitude: 129° 41.344 W	
deg	min.dec	deg	min.dec
Wire out: 250	Wire angle: 0	Bottom Depth: 2122	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
16662	18892	Non-flow = pickled	

Notes:

Date: 30 Aug 2020	Station: C502	Time: 1810	LOCAL
Net Event # 136	CTD # 137		
Latitude: 50° 41.314 N		Longitude: 129° 28.025 W	
deg	min.dec	deg	min.dec
Wire out: 250	Wire angle: 8°	Bottom Depth: 1914	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
18898	21484	Non-flow = pickled	

Notes: Lots of inboard/outboard/port angles on down and upcasts. oof!

Date: 30-Aug-2020	Station: J122	Time: 2242	LOCAL
Net Event # 140	CTD # 139		
Latitude: 50° 39.809 N		Longitude: 129° 17.673 W	
deg	min.dec	deg	min.dec
Wire out: 250	Wire angle: 16	Bottom Depth: ~1400	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
22860	25308	Non-flow = pickled	

Notes: 1st attempt aborted due to strong surface currents. Nets washed. New meter reading. Strong L throughout cast



Plankton Net Tow Log Sheet

Cruise #: 2020-009 Vessel: Tully Page: 16
 Project(s): LaPerouse Contact: Moira G-Bray
 TSK Serial #: 7132 RBR serial #: 78976
 Time offset = + hrs = UTC (please record local time for samples)

Date: 30-Aug-2020	Station: CS03	Time: 11:53 pm	LOCAL
Net Event # 142	CTD # 141		
Latitude: 50° 45.661 N	Longitude: 129° 20.178 W		
deg min.dec	deg min.dec		
Wire out: 234	Wire angle: 10	Bottom Depth: 243	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
25311	27334	Non-flow = pickled	

Notes:

Date: 31-Aug-20	Station: CS04	Time: 0102	LOCAL
Net Event # 143	CTD # 144		
Latitude: 50° 49.17 N	Longitude: 129° 13.06 W		
deg min.dec	deg min.dec		
Wire out: 95	Wire angle: 20	Bottom Depth: 100	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
27355	38755	Non-flow = pickled	

Notes:

Date: 31-Aug-20	Station: NEW ODAS	Time: 0658	LOCAL
Net Event # 148	CTD # 147	1358 UTC	
Latitude: 50° 56.30 N	Longitude: 129° 58.76 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0°	Bottom Depth: 2120	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
28753	31364	Non-flow = pickled	

Notes:

Date: 31-Aug-20	Station: CS38	Time: 1115	LOCAL
Net Event # 151	CTD # 150		
Latitude: 50° 59.93 N	Longitude: 129° 27.01 W		
deg min.dec	deg min.dec		
Wire out: 216	Wire angle:	Bottom Depth: 221	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
31362	33055	Non-flow = pickled	

Notes:

MOIRA



Plankton Net Tow Log Sheet

Cruise #: 2020009 Vessel: JPTULLY Page: 17

Project(s): LAPEROUSE Contact: MOIRA McLA

TSK Serial #: 7132 RBR serial #: 78976

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

Date: 31 Aug 2020	Station: CS13	Time: 1505	LOCAL
Net Event # 155	CTD # 154		
Latitude: 50° 52.854 N	Longitude: 128° 39.926 W		
deg min.dec	deg min.dec		
Wire out: 61	Wire angle: 5	Bottom Depth: 72	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
33055	3365	Non-flow = pickled	

Notes: LARGE WIRE ANGLE COMING UP SURFACE SKIM AS IT WAS BROUGHT IN

Date: 31 Aug 2020	Station: CS06	Time: 1648	LOCAL
Net Event # 157	CTD # 1576	2348	UTC
Latitude: 51° 00.08 N	Longitude: 128° 51.79 W		
deg min.dec	deg min.dec		
Wire out: 55	Wire angle: 35	Bottom Depth: 65	
Net Type: BONGO	Tow Type: VNH		
Flow start 33651	Flow end	Flow = frozen	
	34465	Non-flow = pickled	

Notes:

Date: 31 Aug 2020	Station: CS09	Time: 2001	LOCAL
Net Event # 160	CTD # 161		
Latitude: 51° 12.499 N	Longitude: 128° 28.062 W		
deg min.dec	deg min.dec		
Wire out: 184	Wire angle: 12	Bottom Depth: 195	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
34465	36026	Non-flow = pickled	

Notes:

Date: 31 Aug 2020	Station: CS10	Time: 2144	LOCAL
Net Event # 163	CTD # 162		
Latitude: 51° 16.499 N	Longitude: 128° 19.819 W		
deg min.dec	deg min.dec		
Wire out: 70	Wire angle: 10°	Bottom Depth: 80	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
36026	36805	Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2020-009 Vessel: Spray Page: 18

Project(s): LA Plank

Contact: MORIA Momo McPlankton

TSK Serial #: 7132

RBR serial #: 78976

Time offset = +

hrs = UTC (please record local time for samples)

Date: 31 AUG 2020	Station: CS10	Time: 2159	LOCAL
Net Event # 164	CTD # 162		
Latitude: 51 16.471 N	Longitude: 128 19.723 W		
deg min.dec	deg min.dec		
Wire out: 59	Wire angle: 0	Bottom Depth: 79	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
11094	11320	Non-flow = pickled	

Notes: Mini Bongo TSK 7129

Date: 01 Sep 2020	Station: SS7	Time: 01:33	LOCAL
Net Event # 166	CTD # 165		
Latitude: 51 24.62 N	Longitude: 127 47.64 W		
deg min.dec	deg min.dec		
Wire out: 120	Wire angle: 180	Bottom Depth: 125	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
36803	37728	Non-flow = pickled	

Notes:

Date: 01.09.20	Station: SS5	Time: 0606	LOCAL
Net Event # 169	CTD # 168	1306 UTC	
Latitude: 51 28.08 N	Longitude: 128 30.18 W		
deg min.dec	deg min.dec		
Wire out: 195	Wire angle: 19	Bottom Depth: 200	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
37729	39468	Non-flow = pickled	

Notes:

Date: 01.09.20	Station: SS3	Time: 1837	LOCAL
Net Event # 173	CTD # 172		
Latitude: 51 15 103 N	Longitude: 129 26.772 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 11	Bottom Depth: 293	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
39468	41538	Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2020-009 Vessel: JPTUC1 Page: 19

Project(s): LA PERAUX Contact: MARRA G

TSK Serial #: 7132 RBR serial #: 78976

Time offset = +

hrs = UTC (please record local time for samples)

Date: 1 SEP 2020	Station: SS1	Time: 1629	LOCAL
Net Event #176	CTD # 175		
Latitude: 51 11 754 N	Longitude: 129 59 934 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 15	Bottom Depth: 500	
Net Type: Bongo	Tow Type: VNH		
Flow start 44538	Flow end 44131	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: 01-SEP-2020	Station: NLO1	Time: 2145	LOCAL
Net Event #178	CTD # 177		
Latitude: 51 22 296 N	Longitude: 130 50 649 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0	Bottom Depth: 2215	
Net Type: Bongo	Tow Type: VNH		
Flow start 44131	Flow end 46715	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: 01-09-20	Station: NLO3	Time: 200951	LOCAL
Net Event #184	CTD # 183		
Latitude: 51 48 16 N	Longitude: 129 40 04 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0	Bottom Depth: 293	
Net Type: Bongo	Tow Type: VNH		
Flow start 46715	Flow end 49323	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: 2 SEP 2020	Station: NLO5	Time: 2052	LOCAL
Net Event #185	CTD # 188		
Latitude: 51 40 505 N	Longitude: 128 54 381 W		
deg min.dec	deg min.dec		
Wire out: 33	Wire angle: 4	Bottom Depth: 42	
Net Type: Bongo	Tow Type: VNH		
Flow start 49323	Flow end 49582	Flow = frozen	
		Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2020-009 Vessel: J. Tully Page: 20
Project(s): La Perouse Contact: M.G.
TSK Serial #: 732 RBR serial #: 78576
Time offset = + hrs = UTC (please record local time for samples)

Date: 02.09.20	Station: HAKI	Time: 11:52pm	LOCAL
Net Event # 191	CTD # 190		
Latitude: 51° 42.64 N	Longitude: 128° 14.65 W		
deg min.dec	deg min.dec		
Wire out: 138	Wire angle: 0	Bottom Depth: 142	
Net Type: BONGO	Tow Type: VNH		
Flow start 49582	Flow end 50346	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: 03.09.20	Station: LPEI	Time: 0521	LOCAL
Net Event # 194	CTD # 193		
Latitude: 50 59.99 N	Longitude: 127 50.07 W		
deg min.dec	deg min.dec		
Wire out: 148	Wire angle: 10	Bottom Depth: 148	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
50646	51747	Non-flow = pickled	

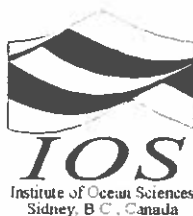
Notes:

Date: 03 Sep 2020	Station: JS	Time: 1703	LOCAL
Net Event # 196	CTD # 197		
Latitude: 50° 29.89 N	Longitude: 126° 29.58 W		
deg min.dec	deg min.dec		
Wire out: 400	Wire angle: 0	Bottom Depth: 405	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
51747	54742	Non-flow = pickled	

Notes:

Date: 04.09.20	Station: 14	Time: 1026	LOCAL
Net Event # 202	CTD # 201		
Latitude: 49° 53.03 N	Longitude: 124° 59.68 W		
deg min.dec	deg min.dec		
Wire out: 312	Wire angle: 0	Bottom Depth: 317	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
54742	56688	Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2020-009 Vessel: Tully Page: 21

Project(s): LaPerouse Contact: Moiria local time 06

TSK Serial #: 7132 RBR serial #: 78976

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

Date: <u>04 Sept 20</u>	Station: <u>12</u>	Time: <u>1237</u>	LOCAL
Net Event # <u>203</u>	CTD # <u>204</u>		
Latitude: <u>49°</u> <u>43.627</u> N	Longitude: <u>124°</u> <u>40.841</u> W		
deg min.dec	deg min.dec		
Wire out: <u>350</u>	Wire angle: <u>0</u>	Bottom Depth: <u>355</u>	
Net Type: <u>Bongo</u>	Tow Type: <u>VNH</u>		
Flow start	Flow end	Flow = frozen	
<u>56689</u>		Non-flow = pickled	

Notes:

Date: <u>4 SEP 2020</u>	Station: <u>CPF2</u>	Time: <u>1637</u>	LOCAL
Net Event # <u>208</u>	CTD # <u>207</u>		
Latitude: <u>49</u> <u>27.99</u> N	Longitude: <u>124</u> <u>29.98</u> W		
deg min.dec	deg min.dec		
Wire out: <u>320</u>	Wire angle: <u>0</u>	Bottom Depth: <u>328</u>	
Net Type: <u>BONGO</u>	Tow Type: <u>VNH</u>		
Flow start	Flow end	Flow = frozen	
<u>58837</u>	<u>60801</u>	Non-flow = pickled	

Notes:

Date: <u>3/SEP2020</u>	Station: <u>BS11</u>	Time: <u>1818</u>	LOCAL
Net Event # <u>209</u>	CTD # <u>210</u>		
Latitude: <u>49</u> <u>29.035</u> N	Longitude: <u>124</u> <u>46.074</u> W		
deg min.dec	deg min.dec		
Wire out: <u>55</u>	Wire angle: <u>0</u>	Bottom Depth: <u>61</u>	
Net Type: <u>BONGO</u>	Tow Type: <u>VNH</u>		
Flow start <u>60801</u>	Flow end <u>61171</u>	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: <u>04 Sep 2020</u>	Station: <u>24</u>	Time: <u>2357</u>	LOCAL
Net Event # <u>214</u>	CTD # <u>213</u>		
Latitude: <u>49°</u> <u>30.32</u> N	Longitude: <u>124°</u> <u>05.98</u> W		
deg min.dec	deg min.dec		
Wire out: <u>422</u>	Wire angle: <u>0</u>	Bottom Depth: <u>427</u>	
Net Type: <u>Bongo</u>	Tow Type: <u>VNH</u>		
Flow start	Flow end	Flow = frozen	
<u>61171</u>	<u>63775</u>	Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2020-009 Vessel: JPT Page: 22

Project(s): La Perouse Contact: Bird-dog

TSK Serial #: 7132 RBR serial #: 78976

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

Date: 05 Sep 20	Station: 22	Time: 0206	LOCAL
Net Event # 216	CTD # 215		
Latitude: 49 40.21 N	Longitude: 124 16.22 W		
deg min.dec	deg min.dec		
Wire out: 349	Wire angle: 0	Bottom Depth: 354	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
63777	65924	Non-flow = pickled	

Notes:

Date: 05.09.20	Station: CPF1	Time: 0452	LOCAL
Net Event # 218	CTD # 217		
Latitude: 49 21.96 N	Longitude: 124 09.85 W		
deg min.dec	deg min.dec		
Wire out: 241	Wire angle: 5	Bottom Depth: 246	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
65925	67452	Non-flow = pickled	

Notes:

MOTHS EVERYWHERE

Date: 05.09.20	Station: 28	Time: 0700	LOCAL
Net Event # 221	CTD # 220		
Latitude: 49 24.18 N	Longitude: 123 45.19 W		
deg min.dec	deg min.dec		
Wire out: 131	Wire angle: 5	Bottom Depth: 136	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
67453	68284	Non-flow = pickled	

Notes:

Date: 05.09.2020	Station: GEO1	Time: 9:50	LOCAL
Net Event # 224	CTD # 223		
Latitude: 49 15.01 N	Longitude: 123 45.00 W		
deg min.dec	deg min.dec		
Wire out: 400	Wire angle: 0	Bottom Depth: 405	
Net Type: BONGO	Tow Type: VNH		
Flow start 68284	Flow end	Flow = frozen	
78284	70752	Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2020-009 Vessel: JPTully Page: 23

Project(s): SOG

Contact: Bubbles

TSK Serial #: 7132

RBR serial #: 78976

Time offset = +

hrs = UTC (please record local time for samples)

Date: 05.09.2020	Station: GEO1	Time: 1706	LOCAL
Net Event # 225	CTD # 223		
Latitude: 49 15.01 N	Longitude: 123 45.60 W		
deg min.dec	deg min.dec		
Wire out: 50	Wire angle: 0	Bottom Depth: 405	
Net Type: Mini	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
11320	11577	Non-flow = pickled	

Notes:

TSK 7129

Date: 5 SEP 2020	Station: 38	Time: 1401	LOCAL
Net Event # 228	CTD # 228		
Latitude: 49° 11.981 N	Longitude: 123° 26.224 W		
deg min.dec	deg min.dec		
Wire out: 295	Wire angle: 0	Bottom Depth: 300	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
70752	72573	Non-flow = pickled	

Notes:

Date: 5 SEP 2020	Station: 42	Time: 1537	LOCAL
Net Event # 230	CTD # 231		
Latitude: 49 1 739 N	Longitude: 123 26 28 W		
deg min.dec	deg min.dec		
Wire out: 315	Wire angle: 0	Bottom Depth: 320	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
72573	74499	Non-flow = pickled	

Notes:

Date: 5 SEP 2020	Station: 46	Time: 1911	LOCAL
Net Event # 232	CTD # 233		
Latitude: 48° 51.397 N	Longitude: 123° 10.825 W		
deg min.dec	deg min.dec		
Wire out: 175	Wire angle: 0	Bottom Depth: 180	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
74499	75795	Non-flow = pickled	

Notes:

75693



Plankton Net Tow Log Sheet

Cruise #: 2020-009 Vessel: Tully Page: 24

Project(s): SoG

Contact: Flashing Mast Monkey Moira and the Beef Hooker Squad.

TSK Serial #: 7132

RBR serial #: 78976

Time offset = +

hrs = UTC (please record local time for samples)

Date: Sept 6, 2020	Station: SC04	Time: 0649	LOCAL
Net Event # 236	CTD # 235		
Latitude: 48 43 46 N	Longitude: 123 25 08 W		
deg min.dec	deg min.dec		
Wire out: 92	Wire angle:	Bottom Depth: 97	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
75693	76278	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: