



Plankton Net Tow Log Sheet

Cruise #: 2019-05 Vessel: J/PTOLLY Page: 1

Project(s): LA PEROUSE Contact: Moira

TSK Serial #: 7057 RBR serial #: 78976

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

Date: 22 May 2019	Station: 59	Time: 14:21 LOCAL
Net Event # 3	CTD # 2	
Latitude: 48 36.736 N	Longitude: 123 14.665 W	
deg min.dec	deg min.dec	
Wire out: 212	Wire angle: 0	Bottom Depth: 220
Net Type: B	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
97842	99154	Non-flow = pickled
Notes: sat at surface ~2 min until wind counter plugged in at start of tow. Lots of plankton. Washed down with fresh water		

Date: 22 05 19	Station: 42	Time: 2044 LOCAL
Net Event # 5	CTD # 4	
Latitude: 49 01.66 N	Longitude: 123 26.17 W	
deg min.dec	deg min.dec	
Wire out: 307	Wire angle: 5	Bottom Depth: 317
Net Type: BONGO	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
99154	100895	Non-flow = pickled
Notes:		

Date: 23 May 2019	Station: 501	Time: 1:26 1:51 LOCAL
Net Event # 6	CTD # 8	
Latitude: 49 15.081 N	Longitude: 123 45.169 W	
deg min.dec	deg min.dec	
Wire out: 100	Wire angle: 10	Bottom Depth: 399
Net Type: BONGO	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
897	1470	Non-flow = pickled
Notes: mottled pickled - 50 so from pickled side		

Date: 23 May	Station: (601)	Time: 1:42 1:53 LOCAL
Net Event # 7	CTD # 8	
Latitude: 49 15.013 N	Longitude: 123 44.967 W	
deg min.dec	deg min.dec	
Wire out: 400 388	Wire angle: 0	Bottom Depth: 399
Net Type: BONGO	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
1470	3597	Non-flow = pickled
Notes: from 3 for 50 from pickled. 1 from frozen		



Plankton Net Tow Log Sheet

Cruise #: 2019-05 Vessel: Tully Page: 2
Project(s): La Perouse Contact: Muna
TSK Serial #: 7057 RBR serial #: silver
Time offset = + 7 hrs = UTC (please record local time for samples)

Date: 23 May 2019	Station: CPF1	Time: 04:52	LOCAL
Net Event # 9	CTD # 10		
Latitude: 49° 21.792 N	Longitude: 124° 05.018 W		
deg min.dec	deg min.dec		
Wire out: 222	Wire angle: 5	Bottom Depth: 232	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
3599	4850	Non-flow = pickled	
Notes: Matt picked LIMHE from pickled side - 45 ss + 5 sl			

Date: 23 May 2019	Station: 22	Time: 0824	LOCAL
Net Event # 11	CTD # 12		
Latitude: 49° 40.225 N	Longitude: 124° 16.043 W		
deg min.dec	deg min.dec		
Wire out: 340	Wire angle: 0	Bottom Depth: 350	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
4849	6750	Non-flow = pickled	
Notes: Matt picked LIMHE from pickled side 38 ss + 12 sl			

Date: 23 May 2019	Station: CPF2	Time: 1252	LOCAL
Net Event # 13	CTD # 14		
Latitude: 49° 28.03 N	Longitude: 129° 29.995 W		
deg min.dec	deg min.dec		
Wire out: 310	Wire angle: 0	Bottom Depth: 320	
Net Type: Bongo	Tow Type: VNH		
Flow start 06750	Flow end 8863	Flow = frozen	
		Non-flow = pickled	
Notes: Matt picked LIMHE from pickled side - 35 ss + 15 sl			

Date: 23-05-19	Station: 12	Time: 1614	LOCAL
Net Event # 16	CTD # 15		
Latitude: 49° 43.61 N	Longitude: 124° 40.77 W		
deg min.dec	deg min.dec		
Wire out: 338	Wire angle:	Bottom Depth: 349	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
8463	10320	Non-flow = pickled	
Notes:			



Plankton Net Tow Log Sheet

Cruise #: 2019.05 Vessel: Tully Page: 3

Project(s): LA PEROUSE Contact: MOIRA

TSK Serial #: 7057 RBR serial #: SILVER 78976

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

Date: 24 May 2019	Station: CPEL	Time: LOCAL
Net Event # 17	CTD # 18	
Latitude: deg min.dec N	Longitude: deg min.dec W	
Wire out:	Wire angle:	Bottom Depth:
Net Type: B3460	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
		Non-flow = pickled
Notes: cancelled due to 40+ km winds		

Date: 24 MAY 19	Station: CPEL	Time: 2256 LOCAL
Net Event # 81	CTD # 30	
Latitude: 51 00.126 N	Longitude: 127 50.088 W	
Wire out: 130	Wire angle:	Bottom Depth: 140
Net Type: B2460	Tow Type: VNH	
Flow start	Flow end	Flow = frozen → none
10348	11920	Non-flow = pickled → MIGHT BE
Notes: B2460 CAME UP TANGLED / FLIPPED / RIPPED. INACCURATE		

Date: 25 May 2019	Station: CS10	Time: 0251 LOCAL
Net Event # 33	CTD # 34	
Latitude: 57 16.442 N	Longitude: 128 19.941 W	
Wire out: 65+5	Wire angle: 30	Bottom Depth: 75
Net Type: B	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
10915	11785	Non-flow = pickled
Notes: added wire out due to wire angle @ bottom Matt picked Limbe - 23 50 from pickled side + 27 50 from frozen side Swell		

Date: 25 May 2019	Station: CS09	Time: 0413 LOCAL
Net Event # 35	CTD # 36	
Latitude: 57 12.541 N	Longitude: 128 27.812 W	
Wire out: 180	Wire angle: 15	Bottom Depth: 190
Net Type: B	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
11785	13207	Non-flow = pickled
Notes: Robyn picked zoops for Lipids Swell Matt picked LIMBE.		



Plankton Net Tow Log Sheet

Cruise #: 2019-05 Vessel: Tully Page: 4
Project(s): La Perouse Contact: Moira
TSK Serial #: 7057 RBR serial #: 78976
Time offset = + 7 hrs = UTC (please record local time for samples)

Date: 25 May 2019	Station: CS08	Time: 0552	LOCAL
Net Event # 37	CTD # 38		
Latitude: 51° 08.520 N	Longitude: 128° 35.846 W		
deg min.dec	deg min.dec		
Wire out: 132	Wire angle: 0	Bottom Depth: 142	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
13205	14561	Non-flow = pickled	

Notes: swell

Date: 25 May 2019	Station: CS07	Time: 0709	LOCAL
Net Event # 39	CTD # 40		
Latitude: 51° 04.460 N	Longitude: 128° 43.939 W		
deg min.dec	deg min.dec		
Wire out: 51	Wire angle: 0	Bottom Depth: 61	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
14641	15166	Non-flow = pickled	

Notes: swell rem 1 thin s3 from pickled
Balanus

Date: 25 May 2016	Station: CS06	Time: 0812	LOCAL
Net Event # 42	CTD # 43		
Latitude: 50° 59.986 N	Longitude: 128° 57.641 W		
deg min.dec	deg min.dec		
Wire out: 50	Wire angle: 5	Bottom Depth: 60-61	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
15169	15687	Non-flow = pickled	

Notes: Event # 3 on labels incorrect

Date: 25 May 2016	Station: CS1B	Time: 09:59	LOCAL
Net Event # 44	CTD # 45		
Latitude: 50° 52.953 N	Longitude: 128° 40.053 W		
deg min.dec	deg min.dec		
Wire out: 62	Wire angle: 35	Bottom Depth: 67	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
15686	16319	Non-flow = pickled	

Notes: sm obpvs rem from frozen + put in 95% EtOH
Mat pickled Limbic -



Plankton Net Tow Log Sheet

Cruise #: 2019-05 Vessel: Tully Page: 5

Project(s): La Perouse Contact: Moira

TSK Serial #: 7057 RBR serial #: 78976

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

Date: 25 MAY 2016	Station: CS05	Time: 1218	LOCAL
Net Event # 47	CTD # 46		
Latitude: 50 55.971 N	Longitude: 129 00.079 W		
deg min.dec	deg min.dec		
Wire out: 47	Wire angle: 0	Bottom Depth: 57	
Net Type: B	Tow Type: VNH		
Flow start 16320	Flow end 16982	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: 25-05-19	Station: CS3B	Time: 1530	LOCAL
Net Event # 49	CTD # 48		
Latitude: 50 51.918 N	Longitude: 129 26.999 W		
deg min.dec	deg min.dec		
Wire out: 205	Wire angle: 15	Bottom Depth: 215	
Net Type: Bongo	Tow Type: VNH		
Flow start 16990	Flow end 18632	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: 25.05.19	Station: ODA5-N	Time: 1938	LOCAL
Net Event # 52	CTD # 51		
Latitude: 50 56.573 N	Longitude: 129 58.970 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle:	Bottom Depth: 2112	
Net Type: Bongo	Tow Type: VNH		
Flow start 18632	Flow end 19619	Flow = frozen	
		Non-flow = pickled	

Notes:

- ABORTED - NET FLIPPED IN WATER
CLEANED + EMPTY PUT BACK IN DOWN SLOW 0.1-0.3m/sec

Date: 25-05-19	Station: New ODA5	Time: 2006	LOCAL
Net Event # 53	CTD # 51		
Latitude: 50 56.673 N	Longitude: 129 59.031 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0	Bottom Depth: 2112	
Net Type: Bongo	Tow Type: VNH		
Flow start 19619	Flow end 22280	Flow = frozen	
		Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2019-05 Vessel: TOUT Page: 6
Project(s): LAPERADSE Contact: MORA
TSK Serial #: 7057 RBR serial #: 78976
Time offset = + 7 hrs = UTC (please record local time for samples)

Date: 26 May 19	Station: CS04	Time: 00:05	LOCAL
Net Event # 55	CTD # 54		
Latitude: 50 49.201 N	Longitude: 129 12.952 W		
deg min.dec	deg min.dec		
Wire out: 83	Wire angle: 20	Bottom Depth: 92	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
22280	23025	Non-flow = pickled	

Notes: lots jellies. In 500 mL jar
Matt picked Limba from pickled - 2 sl, 6 sp

Date: 26 May 2019	Station: CS03	Time: 01:07	LOCAL
Net Event # 57	CTD # 58		
Latitude: 50 45.550 N	Longitude: 129 20.027 W		
deg min.dec	deg min.dec		
Wire out: 226	Wire angle: 0	Bottom Depth: 236	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
23030	24605	Non-flow = pickled	

Notes: lots jellies, in 500 mL jar
Matt picked Limba from frozen side - 4 sp

Date: 26 May 2019	Station: CS02	Time: 02:32	LOCAL
Net Event # 59	CTD # 61		
Latitude: 50 41.271 N	Longitude: 129 28.267 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 20	Bottom Depth: 1877	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
		Non-flow = pickled	

Notes: Robyn picked zoops for lipids No sample
Net trusted: co reding cast. Robyn collected her samples

Date: 26 May 2019	Station: CS02	Time: 02:55	LOCAL
Net Event # 60	CTD # 61		
Latitude: 50 41.356 N	Longitude: 129 27.169 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 30	Bottom Depth: 1899	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
25159	27245	Non-flow = pickled	

Notes: Robyn picked zoops for lipids from pickled side
Octol s3 from frozen put in 95% EtOH + Teutl s3 from pickled
left 1 Teutl s3 in pickled jar (same as one in EtOH)
Matt picked Limba from frozen: 1 sl, 11 sp



Plankton Net Tow Log Sheet

Cruise #: 2019-05 Vessel: Tully Page: 7

Project(s): Laperouse Contact: Moira

TSK Serial #: 7057 RBR serial #: 78976

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

Date: 26 May 2019	Station: CS01	Time: 09:20	LOCAL
Net Event # 165	CTD # 66		
Latitude: 50° 34.813 N	Longitude: 129° 41.471 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0°	Bottom Depth: 2105	
Net Type: B	Tow Type: VNH		
Flow start 27242	Flow end 28849	Flow = frozen	
		Non-flow = pickled	
Notes: 10 Eutin S3 removed from pickled Matt picked Limhe - Frozen side: 8 S1, 15 S0; pickled side: 2 S1, 5 S0			

Date: 26 May 2019	Station: CS00	Time: 1356	LOCAL
Net Event # 168	CTD # 67		
Latitude: 50 27.65 N	Longitude: 129 55.09 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0	Bottom Depth: 2171	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
28849	31232	Non-flow = pickled	
Notes:			

Date: 26 05 19	Station: J122	Time: 2045	LOCAL
Net Event # 71	CTD # 6870		
Latitude: 50 39.841 N	Longitude: 129 17.826 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 10	Bottom Depth: 1519	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
31790	33763	Non-flow = pickled	
Notes:			

Date: 26 05 19	Station: LQ03	Time: 2309	LOCAL
Net Event # 73	CTD # 72		
Latitude: 50 39.710 N	Longitude: 129 01.914 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0	Bottom Depth: 1262	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
33763	35910	Non-flow = pickled	
Notes:			

* EVENT 74 Non-station tow at end of station. Pickled + preserved fish egg + larvae material. Rest discarded



Plankton Net Tow Log Sheet

Cruise #: 2019-05 Vessel: Tully Page: 8

Project(s): Lu Peromyscus Contact: M. S. 12

TSK Serial #: 7057 RBR serial #: 78976

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

Date: 27 May 19	Station: CPE2	Time: 0108	LOCAL
Net Event # 76	CTD # 77		
Latitude: 50° 43.013 N	Longitude: 128° 39.885 W		
deg min.dec	deg min.dec		
Wire out: 112	Wire angle: 20°	Bottom Depth: 122	
Net Type: B	Tow Type: VNH		
Flow start 35910	Flow end 36741	Flow = frozen	
		Non-flow = pickled	

Notes: 1 AER s3 rem. pickled. Transferred larval fish from froz → pickled

Date: 27 May 2019	Station: LBP2	Time: 6:58	LOCAL
Net Event # 79	CTD # 80		
Latitude: 50° 04.0281 N	Longitude: 127° 54.248 W		
deg min.dec	deg min.dec		
Wire out: 85	Wire angle: 5	Bottom Depth: 85 95	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
36741	37285	Non-flow = pickled	

Notes: Matt picked LIME from pickled side: 393 2750

Date: 27 May 2019	Station: LBP3	Time: 07:37	LOCAL
Net Event # 81	CTD # 82		
Latitude: 50° 03.251 N	Longitude: 127° (35) 324 W		55?
deg min.dec	deg min.dec		
Wire out: 154	Wire angle: 25	Bottom Depth: 162	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
37285	38419	Non-flow = pickled	

Notes: Robyn picked for Lipids from pickled
Rem 36 Eutim s3. Matt picked lime from frozen
from pickled 228 50 + 24 52

Date: 27 May 2019	Station: LBP5	Time: 10:04	LOCAL
Net Event # 84	CTD # 85		
Latitude: 49° 59.888 N	Longitude: 127° 59.865 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0	Bottom Depth: 1275	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
38418	40130	Non-flow = pickled	

Notes: Moved Euphyris from froz → pickled

rem 6 Eutim s3 + 1 Bolinopsis from pickled



Plankton Net Tow Log Sheet

Cruise #: 2019-05 Vessel: Tully Page: 9
Project(s): Laperouse Contact: Moira
TSK Serial #: 7057 RBR serial #: 78976
Time offset = + 7 hrs = UTC (please record local time for samples)

Date: 27.05.19	Station: LBP7	Time: 1517	LOCAL
Net Event # 88	CTD # 87		
Latitude: 49 52.39 N	Longitude: 128 11.16 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0	Bottom Depth: 2183	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
40130	42575	Non-flow = pickled	

Notes:

Date: 27.05.19	Station: L306	Time: 23:41	LOCAL
Net Event # 93	CTD # 92		
Latitude: 49 27.678 N	Longitude: 127 28.542 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 5	Bottom Depth: 1091	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
42576	45030	Non-flow = pickled	

Notes: gears released from frozen side
Matt picked LIMHE pickled side - 6 s1 + 40 s8

Date: May 28/19	Station: L304	Time: 0222	LOCAL
Net Event # 95	CTD # 96		
Latitude: 49 35.352 N	Longitude: 127 17.070 W		
deg min.dec	deg min.dec		
Wire out: 146	Wire angle: 30	Bottom Depth: 156	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
45032	46480	Non-flow = pickled	

Notes: storm petrels @ station

Date: 28 May 2019	Station: L302	Time: 0427	LOCAL
Net Event # 99	CTD # 100		
Latitude: 49 42.772 N	Longitude: 127 05.39 W		
deg min.dec	deg min.dec		
Wire out: 66	Wire angle: 25	Bottom Depth: 76	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
46479	46991	Non-flow = pickled	

Notes:

rem 39 Eutima s3 from pickled
Matt picked LIMHE : 16 s8 from pickled



Plankton Net Tow Log Sheet

Cruise #: 19-05 Vessel: Tully Page: 10

Project(s): Leparovse Contact: Moya

TSK Serial #: 7057 RBR serial #: 78976

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

Date: 28 May 2019 Station: LG02 Time: 0913 LOCAL

Net Event # 104 CTD # 105

Latitude: 49 18.784 N Longitude: 126 38.831 W
deg min.dec deg min.dec

Wire out: 86 Wire angle: 30 Bottom Depth: 96

Net Type: B Tow Type: VNH

Flow start Flow end Flow = frozen

46991 47725 Non-flow = pickled

Notes: Matt picked LIMHE from pickled side + Robyn picked for
10 SI + 66 SP Lipids

Date: 28 May 2019 Station: LG04 Time: 1138 LOCAL

Net Event # 106 CTD # 107

Latitude: 49 11 431 N Longitude: 126 49.142 W
deg min.dec deg min.dec

Wire out: 131 Wire angle: 45 Bottom Depth: 141

Net Type: B Tow Type: VNH

Flow start Flow end Flow = frozen

47725 49428 Non-flow = pickled

Notes: high outboard wire angle RELEASE LOGICAL REMOVED TO EUTIN 21100

Event 109 Neuston tow leaving station - EUTIN, CANUMMI NO FISH/EGGS

Date: 28 05 19 Station: LG06 Time: 1543 LOCAL

Net Event # 112 CTD # 111

Latitude: 49 03 418 N Longitude: 127 01 294 W
deg min.dec deg min.dec

Wire out: 250 Wire angle: 0 Bottom Depth: 982

Net Type: Bongo Tow Type: VNH

Flow start Flow end Flow = frozen

49428 51067 Non-flow = pickled

Notes: Matt picked LIMHE from pickled side.
8 SI + 8 SP

Date: 28 05 19 Station: LG09 Time: 2030 LOCAL

Net Event # 116 CTD # 117

Latitude: 48 81 185 N Longitude: 127 19 383 W
deg min.dec deg min.dec

Wire out: 250 Wire angle: 5 Bottom Depth: 2054

Net Type: BONGO Tow Type: VNH

Flow start Flow end Flow = frozen

51070 53725 Non-flow = pickled

Notes: REMOVED EUTIN/MUCIE ANIMALS FOR RDBYN



Plankton Net Tow Log Sheet

Cruise #: 2019-05 Vessel: Tully Page: 11

Project(s): Laperoise Contact: Moira

TSK Serial #: 2057 RBR serial #: 78976

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

Date: 29 May 2019	Station: LD11	Time: 01:30 LOCAL
Net Event #: 119	CTD #: 120	
Latitude: 48° 28.699 N	Longitude: 126° 43.019 W	
deg min.dec	deg min.dec	
Wire out: 250	Wire angle: 5	Bottom Depth: 1595
Net Type: B	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
52725	54244	Non-flow = pickled

Notes: Matt picked LIMHE: pickled side: 2 S1, 22 S4; frozen side: 22 S4
rem 6 PSSC S3 from pickled side, 5 PSSC S3 from frozen side for Robyn (DNA/lipids)

Date: 29 May 2019	Station: LD09	Time: 0532 LOCAL
Net Event #: 122	CTD #: 123	
Latitude: 48° 35.734 N	Longitude: 126° 30.274 W	
deg min.dec	deg min.dec	
Wire out: 250	Wire angle: 20	Bottom Depth: 1042
Net Type: B	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
54245	56159	Non-flow = pickled

Notes: rem 1 chilis from frozen

Date: 29.05.19	Station: LD04	Time: 1310 LOCAL
Net Event #: 130	CTD #: 129	
Latitude: 48° 53.18 N	Longitude: 125° 57.09 W	
deg min.dec	deg min.dec	
Wire out: 52	Wire angle: 20	Bottom Depth: 57
Net Type: BONGO	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
56158	56570	Non-flow = pickled

Notes:

Date: 29.05.19	Station: LD02	Time: 1443 LOCAL
Net Event #: 133	CTD #: 132	
Latitude: 48° 58.447 N	Longitude: 125° 47.034 W	
deg min.dec	deg min.dec	
Wire out: 32	Wire angle: 5	Bottom Depth: 37
Net Type: BONGO	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
56570	56771	Non-flow = pickled

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2019-05 Vessel: TULLY Page: 12/
Project(s): LA PEROUSE Contact: Marina
TSK Serial #: 7057 RBR serial #: 78976

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

Date: 29-05-19	Station: LC04	Time: 1952	LOCAL
Net Event # 140	CTD # 141		
Latitude: 48 43.426 N	Longitude: 125 40.840 W		
deg min.dec	deg min.dec		
Wire out: 155	Wire angle: 0	Bottom Depth: 162	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
56771	57732	Non-flow = pickled	

Notes:

Date: 29-05-19	Station: LC05/B5	Time: 2117	LOCAL
Net Event # 143	CTD # 142		
Latitude: 48 40.079 N	Longitude: 125 47.423 W		
deg min.dec	deg min.dec		
Wire out: 55	Wire angle: 0	Bottom Depth: 62	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
57732	58085	Non-flow = pickled	

Notes: picked 200µs for Polymers Lipids/DNA from pickled side

Date: 29-05-19	Station: LC06	Time: 2216	LOCAL
Net Event # 144	CTD # 145		
Latitude: 48 36.500 N	Longitude: 125 53.772 W		
deg min.dec	deg min.dec		
Wire out: 80	Wire angle: 0	Bottom Depth: 83	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
58085	58579	Non-flow = pickled	

Notes:

Date: 30 May 2019	Station: LC08/A1	Time: 0033	LOCAL
Net Event # 148	CTD # 149		
Latitude: 49 29.376 N	Longitude: 126 02.101 W		
deg min.dec	deg min.dec		
Wire out: 786185	Wire angle: 0	Bottom Depth: 196	
Net Type: B	Tow Type: VNH		
Flow start 58582	Flow end 59975	Flow = frozen	
		Non-flow = pickled	

Notes:

Matt perfect Linhu: 1151 + 35 sp from pickled side



Plankton Net Tow Log Sheet

Cruise #: 2019-05 Vessel: Tully Page: 13

Project(s): Leperouge Contact: M. J. A.

TSK Serial #: 7057 RBR serial #: 78976

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

Date: 30 May 2019	Station: A2	Time: 02:06 LOCAL
Net Event # 150	CTD # 151	
Latitude: 48° 22.459' N	Longitude: 126° 03.707' W	
deg min.dec	deg min.dec	
Wire out: 250	Wire angle: 0	Bottom Depth: 346
Net Type: B	Tow Type: VNH	
Flow start 59779	Flow end 61711	Flow = frozen
		Non-flow = pickled

Notes:

Date: 30 May 2019	Station: LC09	Time: 0340 LOCAL
Net Event # 152	CTD # 153	
Latitude: 48° 25.890' N	Longitude: 126° 13.652' W	
deg min.dec	deg min.dec	
Wire out: 250	Wire angle: 10	Bottom Depth: 604
Net Type: B	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
61713	63390	Non-flow = pickled

Notes: Made pickled LIMHE 54 S1 + 26 S6 from frozen side
picked 200g for Robyn from pickled side 26 S1 + 10 S6 from pickled side

Date: 30 May 2019	Station: LC12	Time: 0955 LOCAL
Net Event # 157	CTD # 159	
Latitude: 48° 14.953' N	Longitude: 126° 39.973' W	
deg min.dec	deg min.dec	
Wire out: 250	Wire angle: 10	Bottom Depth: 2078
Net Type: B	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
63389	65145	Non-flow = pickled

Notes: 200g lids

Date: 30-05-19	Station: LB16	Time: 1935 LOCAL
Net Event # 162	CTD # 161	
Latitude: 48.00.700' N	Longitude: 126 17 121' W	
deg min.dec	deg min.dec	
Wire out: 250	Wire angle: 0	Bottom Depth: 1756
Net Type: BOWDO	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
65148	67299	Non-flow = pickled

Notes:

Removed ECHINELLA P For DNA



Plankton Net Tow Log Sheet

Cruise #: 2019-05 Vessel: Tully Page: 14
Project(s): Laparose Contact: Moya
TSK Serial #: 7057 RBR serial #: 78976

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

Date: 31 May 2019	Station: LB11	Time: 0210	LOCAL
Net Event # 167	CTD # 168		
Latitude: 48 15.200 N	Longitude: 125 47.674 W		
deg min.dec	deg min.dec		
Wire out: 2019	Wire angle: 5	Bottom Depth: 201	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
67299	68670	Non-flow = pickled	

Notes:

Date: 31 May 2019	Station: LB08	Time: 0536	LOCAL
Net Event # 171	CTD # 172		
Latitude: 48 25.269 N	Longitude: 125 28.83 W		
deg min.dec	deg min.dec		
Wire out: 137	Wire angle: 20	Bottom Depth: 148	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
68672	69960	Non-flow = pickled	

Notes: small pickled limbs from both (fem)
so: 2 frozen 16 pickled

Date: 31 May 2019	Station: B7	Time: 0736	LOCAL
Net Event # 174	CTD # 173		
Latitude: 48 32.075 N	Longitude: 125 35.716 W		
deg min.dec	deg min.dec		
Wire out: 63	Wire angle: 5	Bottom Depth: 73	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
69950	70484	Non-flow = pickled	

Notes:

Date: 31 May 2019	Station: B8	Time: 1109	LOCAL
Net Event # 177	CTD # 178		
Latitude: 48 34.496 N	Longitude: 125 30.05 W		
deg min.dec	deg min.dec		
Wire out: 108	Wire angle: 10	Bottom Depth: 120	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
		Non-flow = pickled	

Notes: Artemis removed frozen → into DNA
smelt ETOH



Plankton Net Tow Log Sheet

Cruise #: 2019-05 Vessel: Tully Page: 15
Project(s): Capensis Contact: Moira
TSK Serial #: 7057 RBR serial #: 70976
Time offset = + hrs = UTC (please record local time for samples)

Date: 31.05.19	Station: L307	Time: 1257	LOCAL
Net Event # 180	CTD # 179		
Latitude: 48 28.763 N		Longitude: 125 22.275 W	
deg	min.dec	deg	min.dec
Wire out: 141	Wire angle: 5	Bottom Depth: 150	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
71309	72545	Non-flow = pickled	

Notes:

Date: 31.05.19	Station: C5	Time: 1402	LOCAL
Net Event # 182	CTD # 181		
Latitude: 48 23.448 N		Longitude: 125 20.708 W	
deg	min.dec	deg	min.dec
Wire out: 110	Wire angle: 10	Bottom Depth: 118	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
72545	73475	Non-flow = pickled	

Notes:

Date: 31.05.19	Station: C2	Time: 1530	LOCAL
Net Event # 184	CTD # 183		
Latitude: 48 26.196 N		Longitude: 125 09.116 W	
deg	min.dec	deg	min.dec
Wire out: 150	Wire angle: 5	Bottom Depth: 155	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
73475	74667	Non-flow = pickled	

Notes:

Date: 31.05.19	Station: L306	Time: 1512	LOCAL
Net Event # 186	CTD # 185		
Latitude: 48 32.12 N		Longitude: 125 15.55 W	
deg	min.dec	deg	min.dec
Wire out: 105	Wire angle: 0	Bottom Depth: 111	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
74667	75373	Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

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

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

Notes:

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

Notes:

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

Notes:

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

Notes:

MULTINET Log Sheet

Cruise: 2019-005 Station: CS00 Date: 2019-May-26
 Event #: 69 Local Time: _____ Area: South Isl
 CTD #: 67 Bottom Depth: 2147 Project: La Perouse

NET	Local Time	Depth Range (m)	Latitude (°N)	Longitude (°W)	Flow (m ³)	Comments
1	16:01	2000-1500	50 276498	129 550361	137	0.8m/s P
2	16:12	1500-1000	50 276480	129 55.0389	121	—
3	16:23	1000-500	50 276389	129 55.0543	122	
4	16:33	500-250	50 276419	129 55.0534	64	
5	16:38	250-0	50 276418	129 550479	73	

Comments:

vertical

Cruise: 2019-005 Station: LBP8 Date: 2018-May-27
 Event #: 90 Local Time: _____ Area: Brooks
 CTD #: 89 Bottom Depth: 2070 Project: La Perouse

NET	Local Time	Depth Range (m)	Latitude (°N)	Longitude (°W)	Flow (m ³)	Comments
1	1828	1000-750	49 48583	128 16 776	68	—
2	1830	750-500	49 485793	128 16 8101	62	
3	1835	500-200	49.48 577	128 16 812	73	
4	1841	200-100	49.48 5816	128 16.816	24	
5	1843	1000	49.48 577	128 16 816	20	

Comments:

vertical

MULTINET Log Sheet

Cruise: 2019-008 Station: LD07 Date: 2019-May-29
 Event #: 126 Local Time: 09:15 Area: La Perouse (Tobian)
 CTD #: 125 Bottom Depth: 490m Project: La Perouse

NET	Time	Depth Range (m)	Latitude (°N)	Longitude (°W)	Flow (m ³)	Comments
1	09:17	0-475	48 43.65	126° 19.49	104	open from surface
2	09:38	475-300	48 43.918	126 18.967	111	toyo 475-300-400-300
3	09:48	300-225	48 44.097	126 18.646	101	toyo 300-225-300-225
4	09:54	225-50	48 44.211	126 18.442	146	
5	10:00	50-0	48 44.322	126 18.242	89	toyo 50-5-50-0

Comments: Horizontal tow - headed upslope
layer targeted w/ Net 3 disappeared during tow.

Cruise: 2019-05 Station: LC12 Date: 2019-May-30
 Event #: 158 Local Time: 10:10 Area:
 CTD #: 159 Bottom Depth: 2411 Project: La Perouse

NET	Time	Depth Range (m)	Latitude (°N)	Longitude (°W)	Flow (m ³)	Comments
1	11:34	2000-1000	48° 14.959	126° 39.964	276	
2	11:51	1000-500	48° 14.958	126° 39.969	135	
3	11:59	500-200	48 15.000	126° 39.973	76	
4	12:05	200-50	48 14.998	126° 40.000	39	
5	12:08	50-0	14.992	40.002	13.	

Comments: vertical Capturing layers: 50-0m all frequencies
 250-300m 12-18 kHz + 120-200 kHz

Press @ SWF.

MOCNESS Log Sheet

Cruise: 201905 Station: LB16 Date: 30 05 19
 Event #: 160 Local Time: 1545 Area: LB LINE
 CTD #: 161 Bottom Depth: 1725 Project: LA PEROUSE

NET	Time	Depth Range (m)	Latitude (°N)	Longitude (°W)	Flow (m ³)	Comments
0	1602	0-750	48 02.883	126 19.066	242	- REMOVED Viper fish for AGE FA
1	1636	750-600	01.24	17.41	54	
2	1639	600-450	01.23	17.17	126	
3	1646	450-300	01.19	16.69	171	
4	1655	300-150	01.19	16.12	255	HOLDING AT 190 → 250
5	1710	150-0	01.59	16.02	91	REMOVED 2 AER + 3 SOL

Comments: Viper fish to EVERY @ VBL

Cruise: _____ Station: _____ Date: _____
 Event #: _____ Local Time: _____ Area: _____
 CTD #: _____ Bottom Depth: _____ Project: _____

NET	Time	Depth Range (m)	Latitude (°N)	Longitude (°W)	Flow (m ³)	Comments

Comments:

MOCNESS Log Sheet

Cruise: _____ Station: _____ Date: _____

Event #: _____ Local Time: _____ Area: _____

CTD #: _____ Bottom Depth: _____ Project: _____

NET	Time	Depth Range (m)	Latitude (°N)	Longitude (°W)	Flow (m ³)	Comments

Comments:

Cruise: _____ Station: _____ Date: _____

Event #: _____ Local Time: _____ Area: _____

CTD #: _____ Bottom Depth: _____ Project: _____

NET	Time	Depth Range (m)	Latitude (°N)	Longitude (°W)	Flow (m ³)	Comments

Comments:

STN	Z	Low Z	START	END	L ^{1/3}
Ward 59	218	212	97842	99154	0
J#2	317	310	99154	100855	5
GEO1	398	100	00897	01470	10
GEO1	398	388	01470	05597	0
CPF1	232	222	03599	04850	5
22	350	340	4849	06750	0
CPF2	320	320	06750	08463	0
12	338	338	08463	10320	
CB51	138	128	10348	11920	0
CS10	75	65+5	10915	11785	30
CS#9	190	180	11785	13207	15
CS#8	142	132	13205	14561	0
CS#7	61	51	14611	15186	0
CS#6	60	50	15164	15687	5
CS18	67	62	15686	16319	35
CS#5	57	47	16380	16882	0
CS38	215	205	16990	18632	15
CS#4	2116	250	18632	-02280	
"	"	"	19619	22280	0
CS#4	93	83	22280	23025	20
CS#3	236	226	23030	24605	0
CS#2		250	24605	25159	20
REDU CS#2	1899	250	25159	27245	30
CS#1	2	250	27242	28849	0
	2171	250	28848	31232	0

note in the Rain.

STN	Z	Tow Z	Start	End	L°
J122	1529	250	31790	33763	10
LG03	1251	250	33763	35910	0
CPE2	122	122	35910	36741	20
LBP2	95	85	36741	37285	5
LBP3	164	154	37285	38419	25
LBP5	1275	250	38418	40130	0
LBP7	2183	250	40130	42575	0
LJ06	1082	250	42576	45030	5
LJ04	156	146	45032 44532	46480	30
LJ02	76	66	46481	46991	25
LG02	96	86	46991	47725	30
LG04	141	131	47725	49428	45
LG06	982	250	49428	51067	0
LG09	2054	250	51070	53725	5
LD11	1539	250	52725	54244	5
LD09	1042	250	54245	56159	20
LD04	57	52	56158	56570	20
LD02	37	32	56570	56771	5
LC04	162	155	56771	57732	5
LC05	60	55	57732	58085	0
LC06	88	80	58085	58579	5
LC08	196	185	58581	59975	0
A2	346	250	59979	61711	0
LC09	604	250	61713	63390	10

Put in the Rain

STN	Z	THZ	SMRT	END	FM	
LC12	2520	245	63389	6545	10	
LB16	1756	250	65148	69299	0	
LB11	201	191	67299	68670	5	
LB08	138	147	148 ¹³⁷	68672	69960	20
B7	73	63	69960	70484	5	
B8	120	110	70484	71310	10	
LB07	151	141	71309	78595	5	
LB	118	110	73545	73475	10	
C2	135	150	73475	74667	5	
LB06	110	105	74667	75373	0	

