



Plankton Net Tow Log Sheet

Cruise #: 1647 Vessel: Tully Page: 1

Project(s): Laperouse Contact: Moira

TSK Serial #: 4888 RBR serial #:

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

Date: 25 May 16	Station: JF2	Time: 16:13	LOCAL
Net Event # 3	CTD # 2		
Latitude: 48 18 58 N		Longitude: 124 3.97 W	
deg min.dec		deg min.dec	
Wire out: 180	Wire angle: 35	Bottom Depth: 190	
Net Type: BVNH	Tow Type:		
Flow start	Flow end	Flow = frozen	
25005	26972	Non-flow = pickled	

Notes:

Date: 26 May 16	Station: E1	Time: 00:50	LOCAL
Net Event # 11	CTD # 10		
Latitude: 48 31.63 N		Longitude: 125 3.83 W	
deg min.dec		deg min.dec	
Wire out: 108	Wire angle: 40	Bottom Depth: 118	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
26975	28560	Non-flow = pickled	

Notes: lots crab megalops Uvic picked 30 copeps from frozen

Date: 26 May 2016	Station: C1	Time: 03:34	LOCAL
Net Event # 15	CTD # 14		
Latitude: 48 28 93 N		Longitude: 125 15 26 W	
deg min.dec		deg min.dec	
Wire out: 144	Wire angle: 35	Bottom Depth: 154	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
28562	30181	Non-flow = pickled	

Notes:

Date: 26 May 2016	Station: C2	Time: 04 42	LOCAL
Net Event # 17	CTD # 16		
Latitude: 48 20 04 N		Longitude: 125 9 16 W	
deg min.dec		deg min.dec	
Wire out: 152	Wire angle: 45	Bottom Depth: 162	
Net Type: B	Tow Type: VNH		
Flow start 30202	Flow end 33120	Flow = frozen	
		Non-flow = pickled	

Notes: high wire angle thru out, towed at surface on recovery



Plankton Net Tow Log Sheet

Cruise #: 1647 Vessel: *Therion* Page: 2
Project(s): *La Perouse* Contact: *Moran*
TSK Serial #: 4888 RBR serial #:
Time offset = + 7 hrs = UTC (please record local time for samples)

Date: 26 May 2016	Station: C3	Time: 0620	LOCAL
Net Event # 19	CTD # 18		
Latitude: 48 23 57 N		Longitude: 125 20 59 W	
deg min.dec		deg min.dec	
Wire out: 113	Wire angle: 123 25	Bottom Depth: 123	
Net Type: B	Tow Type: VNH		
Flow start 33150	Flow end 34679	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: 26 May 2016	Station: LBo7	Time: 0738	LOCAL
Net Event # 21	CTD # 20		
Latitude: 48 28 67 N		Longitude: 125 22 15 W	
deg min.dec		deg min.dec	
Wire out: 146	Wire angle: 10	Bottom Depth: 156	
Net Type: B	Tow Type: VNH		
Flow start 34680	Flow end 36106	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: 26 May 2016	Station: b8	Time: 0912	LOCAL
Net Event # 23	CTD # 22		
Latitude: 48 34 63 N		Longitude: 125 29 97 W	
deg min.dec		deg min.dec	
Wire out: 101	Wire angle: 30	Bottom Depth: 111	
Net Type: B	Tow Type: VNH		
Flow start 36108	Flow end 37277	Flow = frozen	
		Non-flow = pickled	

Notes:

Eulachon

Date: 26 May 2016	Station: B7	Time: 1017	LOCAL
Net Event # 25	CTD # 24		
Latitude: 48 32 08 N		Longitude: 125 35 30 W	
deg min.dec		deg min.dec	
Wire out: 68	Wire angle: 45	Bottom Depth: 79	
Net Type: B	Tow Type: VNH		
Flow start 37100	Flow end 38350	Flow = frozen	
		Non-flow = pickled	

Notes:

full doliolids
2 x 500ml
frozen in 3 bags
from RBR: bad downcast



Plankton Net Tow Log Sheet

Cruise #: 1647 Vessel: Tully Page: 3
Project(s): Laparouse Contact: Moira
TSK Serial #: 4888 RBR serial #:
Time offset = + 7 hrs = UTC (please record local time for samples)

Date: 26 May 2016	Station: LB08	Time: 1155	LOCAL
Net Event # 27	CTD # 26		
Latitude: 48 25.15 N	Longitude: 125 28.48 W		
deg min.dec	deg min.dec		
Wire out: 125	Wire angle: 25	Bottom Depth: 134	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
38344	39492	Non-flow = pickled	

Notes: TIME ESTIMATED FROM CTD
LAT/LONG

Date: 26 May 2016	Station: LB11	Time: 1647	LOCAL
Net Event # 31	CTD # 30		
Latitude: 48 15.16 N	Longitude: 125 47.81 W		
deg min.dec	deg min.dec		
Wire out: 200	Wire angle: 0	Bottom Depth: 208	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
39492	41485	Non-flow = pickled	

Notes: GALPS + COROLLA

Date: 27 May 16	Station: LB16	Time: 1217 00:17	LOCAL
Net Event # 36	CTD # 38		
Latitude: 48 00 48 N	Longitude: 126 16 94 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 10	Bottom Depth: 1811	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
41486	43350	Non-flow = pickled	

Notes: Doliolids + corolla

Date: 27 May 16	Station: LB16	Time: 0106	LOCAL
Net Event # 37	CTD # 38		
Latitude: 48 00 55 N	Longitude: 126 16 90 W		
deg min.dec	deg min.dec		
Wire out: 1200	Wire angle: 0	Bottom Depth: 1810	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
43350	52556	Non-flow = pickled	

Notes: Tactostoma macropus in sample (~15 cm?)
+ another fish transferred from frozen → pickled.

Doliolids + corolla



Plankton Net Tow Log Sheet

Cruise #: 1647 Vessel: Tully Page: 4

Project(s): Laperouse Contact: Moira

TSK Serial #: 4888 RBR serial #:

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

Date: 27 May 2016	Station: LC12/A4	Time: 0736	LOCAL
Net Event # 40	CTD # 39		
Latitude: 48 14.98 N	Longitude: 126 39.98 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0	Bottom Depth: 2540	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
52557	54520	Non-flow = pickled	

Notes: doliolids + corolla

Date: 27 May 2016	Station: LC12/A4	Time: 0821	LOCAL
Net Event # 41	CTD # 39		
Latitude: 48 15.03 N	Longitude: 126 39.97 W		
deg min.dec	deg min.dec		
Wire out: 1200	Wire angle: 10	Bottom Depth: 2540	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
54520	62919	Non-flow = pickled	

Notes: 1 fish in green side, preserved separately = Bathylagus milleri

Date: 27 May 16	Station: LC11	Time: 1214	LOCAL
Net Event # 44	CTD # 43		
Latitude: 48 18.91 N	Longitude: 126 26.62 W		
deg min.dec	deg min.dec		
Wire out: 70	Wire angle: 45	Bottom Depth: 1432	
Net Type: Bongo	Tow Type: Oblique VNH		
Flow start	Flow end	Flow = frozen	
62920	65240	Non-flow = pickled	

Notes: oblique targeting 30m layer on acoustics
HETEROPODS - CARINARIA/COROLLA

Date: 27 05 16	Station: LC09	Time: 1532	LOCAL
Net Event # 47	CTD # 46		
Latitude: 48° 25.97' N	Longitude: 126° 13.50' W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 5°	Bottom Depth: 597	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
65240	67423	Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 1647 Vessel: Tully Page: 5
Project(s): Lagerovse Contact: Moira
TSK Serial #: 4888 RBR serial #:

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

Date: 27-05-2016	Station: A2	Time: 1700 LOCAL
Net Event # 48	CTD # 49	0000 UTC
Latitude: 48 deg	22.73 min.dec N	Longitude: 126.03.75 W deg min.dec
Wire out: 250	Wire angle: 13	Bottom Depth: 350
Net Type: BONGO	Tow Type: VNH	
Flow start 67423	Flow end 69220	Flow = frozen
		Non-flow = pickled

Notes:

Date: 27 05 16	Station: A1	Time: 1739 LOCAL
Net Event # 51	CTD # 52	0239 UTC
Latitude: 48 deg	29.40 min.dec N	Longitude: 126.07.23 W deg min.dec
Wire out: 195	Wire angle: 5	Bottom Depth: 201
Net Type: BONGO	Tow Type: VNH	
Flow start 69220	Flow end 70823	Flow = frozen
		Non-flow = pickled

Notes:

Date: 27-05-16	Station: B6	Time: 2202 LOCAL
Net Event # 54	CTD # 55	0502 UTC
Latitude: 48.36.44 deg	min.dec N	Longitude: 125.53.97 W deg min.dec
Wire out: 85	Wire angle: 10	Bottom Depth: 91
Net Type: BONGO	Tow Type: VNH	
Flow start 70823	Flow end 71175	Flow = frozen
		Non-flow = pickled

Notes:

Date: 27 MAY 2016	Station: B5	Time: 2314 LOCAL
Net Event # 56	CTD # 57	0614 UTC
Latitude: 48.39.90 deg	min.dec N	Longitude: 125.47.41 W deg min.dec
Wire out: 58	Wire angle: 0	Bottom Depth: 63
Net Type: BONGO	Tow Type: VNH	
Flow start 71175	Flow end 71574	Flow = frozen
		Non-flow = pickled

Notes:



Plankton Net Tow Log Sheet

Cruise #: 1647 Vessel: Tully Page: 6

Project(s): Laperouse Contact: Moira

TSK Serial #: 4888 RBR serial #:

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

Date: 28 May 2016	Station: LD02	Time: 07:36	LOCAL
Net Event # 62	CTD # 63		
Latitude: 48 58.40 N	Longitude: 125 47.04 W		
deg min.dec	deg min.dec		
Wire out: 34	Wire angle: 0	Bottom Depth: 44	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
71574	71791	Non-flow = pickled	

Notes: phyto - 500ml jar + Eutia

Date: 28 May 2016	Station: LD04	Time: 06:17	LOCAL
Net Event # 65	CTD # 64		
Latitude: 48 53.24 N	Longitude: 125 57.33 W		
deg min.dec	deg min.dec		
Wire out: 55	Wire angle: 10	Bottom Depth: 65	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
71791	72180	Non-flow = pickled	

Notes: doliolids

Date: 28.05.16	Station: LG09	Time: 1913	LOCAL
Net Event # 70	CTD # 69		
Latitude: 48 51.16 N	Longitude: 127 19.31 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 5	Bottom Depth: 2049	
Net Type: Bongo	Tow Type: VNH		
Flow start 72180	Flow end 74120	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: 28.05.16	Station: LG07	Time: 2228	LOCAL
Net Event # 72	CTD # 73	0528 UTC	
Latitude: 48 59.38 N	Longitude: 127 07.20 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0	Bottom Depth: 1753	
Net Type: Bongo	Tow Type: VNH		
Flow start 74120	Flow end 75980	Flow = frozen	
		Non-flow = pickled	

Notes: RELEASE 1 LIPFU
1 LESTIDIVIA RINGENS



Plankton Net Tow Log Sheet

Cruise #: 1647 Vessel: Tully Page: 7

Project(s): Laperouse Contact: Moira

TSK Serial #: 4888 RBR serial #:

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

Date: 29 May 2016	Station: LG04	Time: 03 17	LOCAL
Net Event # 76	CTD # 77		
Latitude: 49 11 30 N	Longitude: 126 49 36 W		
deg min.dec	deg min.dec		
Wire out: 135	Wire angle: 5	Bottom Depth: 145	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
75980	77030	Non-flow = pickled	

Notes: fish jumping @ stern; fishing boats around (Herring?)

Date: 29 May 2016	Station: LG02	Time: 05 25	LOCAL
Net Event # 79	CTD # 80		
Latitude: 49 18 69 N	Longitude: 126 38 08 W		
deg min.dec	deg min.dec		
Wire out: 90	Wire angle: 0	Bottom Depth: 100	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
77035	77720	Non-flow = pickled	

Notes: full doliolids. 3 500ml jars, 4 bags

Date: 29-05-16	Station: LBP2	Time: 15 33	LOCAL
Net Event # 85	CTD # 84	2233	UTC
Latitude: 50 04 06 N	Longitude: 127 57 21 W		
deg min.dec	deg min.dec		
Wire out: 85	Wire angle: 40	Bottom Depth: 88	
Net Type: Bouge	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
77721	78192	Non-flow = pickled	

Notes:

Date: 29-5-16	Station: LBP3	Time: 16 23	LOCAL
Net Event # 87	CTD # 86		
Latitude: 50 03.16 N	Longitude: 127 55.29 W		
deg min.dec	deg min.dec		
Wire out: 163	Wire angle: 5	Bottom Depth: 167	
Net Type: Bouge	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
78192	79340	Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2016-47 Vessel: Tully Page: 8

Project(s): LAPEROUSE Contact: MOIRA

TSK Serial #: 4888 RBR serial #:

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

Date: 29.05.16	Station: LBP5	Time: 1917	LOCAL
Net Event # 90	CTD # 89		
Latitude: 49 59.99 N	Longitude: 127 59.97 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 5	Bottom Depth: 1267	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
79340	891110	Non-flow = pickled	

Notes:

Date: 29.05.16	Station: LBP7	Time: 2016	LOCAL
Net Event # 93	CTD # 92		
Latitude: 49 52.47 N	Longitude: 128 11.27 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 5	Bottom Depth: 2135	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
891110	892870	Non-flow = pickled	

Notes: removed 2 AEG - 53 from pickled

Date: 30 May 2016	Station: LBP8	Time: 0136	LOCAL
Net Event # 95	CTD # 94		
Latitude: 49 48 64 N	Longitude: 128 17 03 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 5	Bottom Depth: 2064	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
82869	84435	Non-flow = pickled	

Notes:

Velutella at surface

Date: 30 May 16	Station: LBP8	Time: 0225	LOCAL
Net Event # 96	CTD # 94		
Latitude: 49 48 60 N	Longitude: 128 16 88 W		
deg min.dec	deg min.dec		
Wire out: 1200	Wire angle: 0	Bottom Depth: 2064	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
84435	91820	Non-flow = pickled	

Notes: transferred large shrimp, Cyclothone, 2 deepwater jellies
from frozen to pickled. Fish + shrimp in separate jars.
lots large jellies in water (fried egg?), salp chains
sea nettle?



Plankton Net Tow Log Sheet

Cruise #: 1647 Vessel: Tully Page: 9
Project(s): Laperouse Contact: Moira
TSK Serial #: 4888 RBR serial #:
Time offset = + 7 hrs = UTC (please record local time for samples)

Date: 30 May 2016	Station: CPE2	Time: 0933	LOCAL
Net Event # 98	CTD # 97		
Latitude: 50 43 03 N		Longitude: 128 39 81 W	
deg min.dec		deg min.dec	
Wire out: 114	Wire angle: 0	Bottom Depth: 124	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
91820	92550	Non-flow = pickled	

Notes:

Date: 30 05 16	Station: LQ03	Time: 1403	LOCAL
Net Event # 101	CTD # 100		2103 UTC
Latitude: 50 39 70 N		Longitude: 129 01 99 W	
deg min.dec		deg min.dec	
Wire out: 250	Wire angle: 0	Bottom Depth: 1250	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
92550	94045	Non-flow = pickled	

Notes: VELELLA ON SURFACE

Date: 30 MAY 2016	Station: 1122	Time: 1630	LOCAL
Net Event # 103	CTD # 102		2330 UTC
Latitude: 50 39 81 N		Longitude: 129 17 38 W	
deg min.dec		deg min.dec	
Wire out: 250	Wire angle: 5	Bottom Depth: 1394	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
94045	95675	Non-flow = pickled	

Notes: VELELLA ON SURFACE

Date: 31 MAY 16	Station: CS00	Time: 00:20	LOCAL
Net Event # 106	CTD # 105		
Latitude: 50 27.68 N		Longitude: 129 55.07 W	
deg min.dec		deg min.dec	
Wire out: 250	Wire angle: 0	Bottom Depth: 2167	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
95675	97226	Non-flow = pickled	

Notes: Doliolids. Tomopterans full of doliolids w/ guts removed 1AEQ S3 from pickled



Plankton Net Tow Log Sheet

Cruise #: 1647 Vessel: Tutty Page: 10

Project(s): Laperouse Contact: Maira

TSK Serial #: 4888 RBR serial #:

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

Date: 31 May 2016	Station: CS01	Time: 0309	LOCAL
Net Event # 108	CTD # 107		
Latitude: 50 34 95 N	Longitude: 129 41 60 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 10	Bottom Depth: 2095	
Net Type: B	Tow Type: VNH		
Flow start	Flow end 8	Flow = frozen	
97226	98908	Non-flow = pickled	

Notes: delioids labels have wrong flow end, should be 98908
surseal.

Date: 31 May 2016	Station: CS02	Time: 0440	LOCAL
Net Event # 109	CTD # 110		
Latitude: 50 41 32 N	Longitude: 129 27 91 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0	Bottom Depth: 1893	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
98908	100365	Non-flow = pickled	

Notes: some Euphausiids, jellies (mioce?)
+ another Dragonfish in pickled side

Date: 31 May 2016	Station: CS03	Time: 0737	LOCAL
Net Event # 112	CTD # 111		
Latitude: 50 45 64 N	Longitude: 129 19 80 W		
deg min.dec	deg min.dec		
Wire out: 220	Wire angle: 20	Bottom Depth: 230	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
365	1789	Non-flow = pickled	

Notes: Humpbacks in area
1 AEG removed from preserved, 1 mioce from frozen

Date: 31 May 2016	Station: CS04	Time: 0843	LOCAL
Net Event # 114	CTD # 113		
Latitude: 50 49 23 N	Longitude: 129 12 96 W		
deg min.dec	deg min.dec		
Wire out: 90	Wire angle: 10	Bottom Depth: 96	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
07791	02480	Non-flow = pickled	

Notes: Jelly soup
8 mioce s3 removed pickled
1 AEG s3 removed frozen



Plankton Net Tow Log Sheet

Cruise #: 1647 Vessel: Tully Page: 11
Project(s): Laparouse Contact: Moira
TSK Serial #: 4888 RBR serial #:
Time offset = + 7 hrs = UTC (please record local time for samples)

Date: 2016 May 31	Station: NEWODAS	Time: 1649	LOCAL
Net Event # 117	CTD # 116		
Latitude: 50° 56.37 N	Longitude: 129° 58.82 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle:	Bottom Depth: 2097	
Net Type: B	Tow Type: VNH		
Flow start 2510	Flow end 5034	Flow = frozen	
		Non-flow = pickled	

Notes: VELELLA ON SURFACE

Date: 31.05.16	Station: C53B	Time: 2003	LOCAL
Net Event # 120	CTD # 119	0303	UTC
Latitude: 50° 59.96 N	Longitude: 129° 27.06 W		
deg min.dec	deg min.dec		
Wire out: 215	Wire angle: 12	Bottom Depth: 221	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
5059	7112	Non-flow = pickled	

Notes:

Date: 31.05.16	Station: C505	Time: 2250	LOCAL
Net Event # 122	CTD # 121	0550	
Latitude: 50° 55.94 N	Longitude: 128° 59.80 W		
deg min.dec	deg min.dec		
Wire out: 60	Wire angle: 15	Bottom Depth: 65	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
7112	7657	Non-flow = pickled	

Notes:

Date: 1 June 2016	Station: C51B	Time: 0247	LOCAL
Net Event # 124	CTD # 123		
Latitude: 50° 52.99 N	Longitude: 128° 39.97 W		
deg min.dec	deg min.dec		
Wire out: 64	Wire angle: 5	Bottom Depth: 72	
Net Type: B	Tow Type: VNH		
Flow start 07661	Flow end 08141	Flow = frozen	
		Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 206-47 Vessel: *TURKEY* Page: 12

Project(s): *L2 Perouse* Contact: *Moire*

TSK Serial #: *4888* RBR serial #:

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

Date: <i>1 June 2016</i>	Station: <i>CS06</i>	Time: <i>02:08</i>	LOCAL
Net Event # <i>125</i>	CTD # <i>126</i>		
Latitude: <i>50 59.98</i>	N	Longitude: <i>128 51.76</i>	W
deg	min.dec	deg	min.dec
Wire out: <i>54</i>	Wire angle: <i>30</i>	Bottom Depth: <i>64</i>	
Net Type: <i>Bow</i>	Tow Type: <i>VNH</i>		
Flow start <i>08413</i>	Flow end <i>09053</i>	Flow = frozen	
		Non-flow = pickled	

Notes: *rem 1 AEQ --s3 from both sides*

Date: <i>1 June 2016</i>	Station: <i>CS07</i>	Time: <i>03:37</i>	LOCAL
Net Event # <i>128</i>	CTD # <i>127</i>		
Latitude: <i>51 4.60</i>	N	Longitude: <i>128 44.20</i>	W
deg	min.dec	deg	min.dec
Wire out: <i>53</i>	Wire angle: <i>10</i>	Bottom Depth: <i>63</i>	
Net Type: <i>B</i>	Tow Type: <i>VNH</i>		
Flow start <i>9053</i>	Flow end <i>9939</i>	Flow = frozen	
		Non-flow = pickled	

Notes: *high wire angle at start of cast (~30-40°)*

Date: <i>1 June 2016</i>	Station: <i>CS08</i>	Time: <i>04:57</i>	LOCAL
Net Event # <i>130</i>	CTD # <i>129</i>		
Latitude: <i>51 8.74</i>	N	Longitude: <i>128 36.50</i>	W
deg	min.dec	deg	min.dec
Wire out: <i>132</i>	Wire angle: <i>5</i>	Bottom Depth: <i>142</i>	
Net Type: <i>B</i>	Tow Type: <i>VNH</i>		
Flow start <i>9946</i>	Flow end <i>11298</i>	Flow = frozen	
		Non-flow = pickled	

Notes: *2 Frozen bags*

Date: <i>1 June 16</i>	Station: <i>CS09</i>	Time: <i>0627</i>	LOCAL
Net Event # <i>132</i>	CTD # <i>131</i>		
Latitude: <i>51 12.42</i>	N	Longitude: <i>128 27.65</i>	W
deg	min.dec	deg	min.dec
Wire out: <i>182</i>	Wire angle: <i>15</i>	Bottom Depth: <i>193</i>	
Net Type: <i>B</i>	Tow Type: <i>VNH</i>		
Flow start <i>11296</i>	Flow end <i>12950</i>	Flow = frozen	
		Non-flow = pickled	

Notes: *Picked 10 Mitrocoma from pickled side*
Picked 6 Mitrocoma + 1 Agavevea(?) from
biomass side. P.D.



Plankton Net Tow Log Sheet

Cruise #: ²⁰¹⁶⁻⁴⁷ 15JUN2016 Vessel: *TULLY* Page: 13

Project(s): *L2 Peruv* Contact: *Maira*

TSK Serial #: 4888 RBR serial #:

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

Date: 15JUN2016	Station: CS10	Time: 07:37	LOCAL
Net Event # 139	CTD # 133		
Latitude: 51 16.49 N	Longitude: 128 19.78 W		
deg min.dec	deg min.dec		
Wire out: 67	Wire angle: 0	Bottom Depth: 77	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
12950	13523	Non-flow = pickled	

Notes:

Date: 01-06-16	Station: 5500	Time: 1904	LOCAL
Net Event # 138	CTD # 137		
Latitude: 51° 00.08 N	Longitude: 130° 52.02 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 8	Bottom Depth: 2626	
Net Type: Bongo	Tow Type: VNH		
Flow start 13523	Flow end 15506	Flow = frozen	
		Non-flow = pickled	

Notes: Neocalanus.

Date: 01-06-16	Station: 5500	Time: 1920	LOCAL
Net Event # 139	CTD # 138		
Latitude: 51° 00.68 N	Longitude: 130° 05.01 W		
deg min.dec	deg min.dec		
Wire out: 1200	Wire angle: 0	Bottom Depth: 2626	
Net Type: Bongo	Tow Type: VNH		
Flow start 15506	Flow end 25011	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: 2-06-2016	Station: SS1	Time: 0021	LOCAL
Net Event # 143	CTD # 142		
Latitude: 51 11 98 N	Longitude: 129 59 96 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 20	Bottom Depth: 490	
Net Type: B	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
24984	26654	Non-flow = pickled	

Notes: Corolla + Neocalanus crist + phim.

Salps in frozen side only (was a chain), transferred a couple to pickled side



Plankton Net Tow Log Sheet

Cruise #: 1647 Vessel: Tully Page: 14

Project(s): Laperouse Contact: Moira

TSK Serial #: 4888 RBR serial #:

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

Date: 2 June 2016 Station: SS2 Time: 02:21 LOCAL

Net Event # 145 CTD # 144

Latitude: 51 12.94 N Longitude: 129 42.90 W
deg min.dec deg min.dec

Wire out: 250 Wire angle: 10 Bottom Depth: 582 546

Net Type: B Tow Type: VNH

Flow start Flow end Flow = frozen

26653 28567 Non-flow = pickled

Notes: sm. larval fish w/ stripes/spot pattern - transferred frozen -> pickled
really long larval fish pickled in scint vial, from frozen side.

Date: 25 Jun 2016 Station: SS3 Time: 04:29 LOCAL

Net Event # 147 CTD # 146

Latitude: 51 15 06 N Longitude: 129 21 28 W
deg min.dec deg min.dec

Wire out: 250 Wire angle: 40 Bottom Depth: 289

Net Type: Bongo Tow Type: VNH

Flow start 21111 Flow end 23180 Flow = frozen

Non-flow = pickled

Notes:

Date: 02-06-2016 Station: SS4 Time: 07:31 LOCAL

Net Event # 149 CTD # 148

Latitude: 51° 21.07' N Longitude: 128° 59.92' W
deg min.dec deg min.dec

Wire out: 228 Wire angle: 5° Bottom Depth: 238

Net Type: Bongo Tow Type: VNH

Flow start Flow end Flow = frozen

23191 25945 Non-flow = pickled

Notes: 2 aeg picked out

Date: 2-6-2016 Station: SS05 Time: 09:14 LOCAL

Net Event # 152 CTD # 151

Latitude: 51 28 03 N Longitude: 128 30 05 W
deg min.dec deg min.dec

Wire out: 189 Wire angle: 10 Bottom Depth: 200

Net Type: Bongo Tow Type: VNH

Flow start 24991 Flow end 26890 Flow = frozen

Non-flow = pickled

Notes:



Plankton Net Tow Log Sheet

Cruise #: 1647 Vessel: Tully Page: 15
Project(s): Leferovse Contact: Moira
TSK Serial #: 4888 RBR serial #:

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

Date: 2 JUN 2016	Station: QCS-1	Time: 11:35	LOCAL
Net Event # 155	CTD # 154		
Latitude: 51° 42.35' N	Longitude: 128° 14.32' W		
deg min.dec	deg min.dec		
Wire out: 128	Wire angle: 15°	Bottom Depth: 140	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
26891	28562	Non-flow = pickled	

Notes:

Date: 02 06 16	Station: SSG	Time: 1500	LOCAL
Net Event # 156	CTD # 156		
Latitude: 51.19.99 N	Longitude: 128.00.04 W		
deg min.dec	deg min.dec		
Wire out: 172	Wire angle:	Bottom Depth: 177	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
28655	29910	Non-flow = pickled	

Notes:

Date: 2016 JUN 2	Station: SSG	Time: 1638	LOCAL
Net Event # 159	CTD # 158		
Latitude: 51 29.80 N	Longitude: 127 47.69 W		
deg min.dec	deg min.dec		
Wire out: 115	Wire angle: 0	Bottom Depth: 120	
Net Type: Bongo	Tow Type: VNH		
Flow start 29910	Flow end 30691	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: 02.06.16	Station: UBL7	Time: 1743	LOCAL
Net Event # 161	CTD # 160	0043 UTC	
Latitude: 51 30.07 N	Longitude: 127 49.09 W		
deg min.dec	deg min.dec		
Wire out: 153	Wire angle: 10	Bottom Depth: 158	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
29930691	31577	Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2016-47 Vessel: Tully Page: 16

Project(s): RIVERS/LAP Contact:

TSK Serial #: 4888 RBR serial #:

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

Date: 02 06 16	Station: R: 1	Time: 0715	LOCAL
Net Event # 163	CTD # 162		
Latitude: 51 26.49 N	Longitude: 127 38.45 W		
deg min.dec	deg min.dec		
Wire out: 298	Wire angle: 0	Bottom Depth: 303	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
31578	33355	Non-flow = pickled	

Notes:

Date: 02 06 16	Station: R: 2	Time: 2030	LOCAL
Net Event # 165	CTD # 164	0330	UTC
Latitude: 51 31 22 N	Longitude: 127 33.70 W		
deg min.dec	deg min.dec		
Wire out: 325	Wire angle: 0	Bottom Depth: 330	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
33355	35236	Non-flow = pickled	

Notes:

Date: 02 06 16	Station: R: 3	Time: 2142	LOCAL
Net Event # 167	CTD # 166	0442	UTC
Latitude: 51 35.79 N	Longitude: 127 32.08 W		
deg min.dec	deg min.dec		
Wire out: 325	Wire angle: 0	Bottom Depth: 325	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
35236	37185	Non-flow = pickled	

Notes:

Date: 02 06 19	Station: R: 4	Time: 2235	LOCAL
Net Event # 168	CTD # 169	0535	UTC
Latitude: 51 38 90 N	Longitude: 127 26.58 W		
deg min.dec	deg min.dec		
Wire out: 295	Wire angle: 5	Bottom Depth: 296	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
37185	39948	Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2016-47 Vessel: TULLY Page: 17

Project(s): Le Prouse Contact: Moira

TSK Serial #: 4888 RBR serial #:

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

Date: 3 June 2016	Station: CPE1	Time: 0351	LOCAL
Net Event # 172	CTD # 171	1051	UTC
Latitude: 51 00.18 N	Longitude: 127 50.18 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	
38909	40090	Non-flow = pickled	

Notes: high wire angle at start

Date: 03.06.16	Station: 14	Time: 1935	LOCAL
Net Event # 177	CTD # 176	0235	
Latitude: 49 53.13 N	Longitude: 124 59.71 W		
deg min.dec	deg min.dec		
Wire out: 309	Wire angle: 5	Bottom Depth: 314	
Net Type: Bouge	Tow Type: VNH		
Flow start 40091	Flow end 42170	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: 03.06.16	Station: 11	Time: 2134	LOCAL
Net Event # 179	CTD # 178	0434	
Latitude: 49 42.62 N	Longitude: 124 43.71 W		
deg min.dec	deg min.dec		
Wire out: 296	Wire angle: 0	Bottom Depth: 301	
Net Type: Bouge	Tow Type: VNH		
Flow start 42170	Flow end 43948	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: 03.06.16	Station: CPFZ	Time: 0000	LOCAL
Net Event # 181	CTD # 180	0700	
Latitude: 49 28.04 N	Longitude: 124 29.95 W		
deg min.dec	deg min.dec		
Wire out: 314	Wire angle: 0	Bottom Depth: 324	
Net Type: Bouge	Tow Type: VNH		
Flow start	Flow end 45779	Flow = frozen	
43948		Non-flow = pickled	

Notes: Cyanera + AEE in water



Plankton Net Tow Log Sheet

Cruise #: 2016-47 Vessel: Tully Page: 18
Project(s): La Perouse-SOG Contact: Maile B
TSK Serial #: 4888 RBR serial #:
Time offset = + 7 hrs = UTC (please record local time for samples)

Date: 4 JUN 2016	Station: CPF1	Time: 0215	LOCAL
Net Event # 183	CTD # 182		
Latitude: 49 21 99 N	Longitude: 124 5 16 W		
deg min.dec	deg min.dec		
Wire out: 239	Wire angle: 0	Bottom Depth: 244	
Net Type: Bongo	Tow Type: VNH		
Flow start 45778	Flow end 47237	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: 4 June 16	Station: 22	Time: 0454	LOCAL
Net Event # 185	CTD # 184		
Latitude: 49 40 51 N	Longitude: 124 16 60 W		
deg min.dec	deg min.dec		
Wire out: 354	Wire angle: 0	Bottom Depth: 360	
Net Type: B	Tow Type: VNH		
Flow start 47236	Flow end 49418	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: 4 JUN 2016	Station: 24	Time: 0637	LOCAL
Net Event # 187	CTD # 186		
Latitude: 49 30 26 N	Longitude: 124 06 14 W		
deg min.dec	deg min.dec		
Wire out: 418	Wire angle: 0	Bottom Depth: 423	
Net Type: Bongo	Tow Type: VNH		
Flow start 49418	Flow end 51730	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: 4 JUN 2016	Station: 28	Time: 0850	LOCAL
Net Event # 189	CTD # 188		
Latitude: 49 24 08 N	Longitude: 123 43 13 W		
deg min.dec	deg min.dec		
Wire out: 129	Wire angle: 0	Bottom Depth: 134	
Net Type: Bongo	Tow Type: VNH		
Flow start 51930	Flow end 52755	Flow = frozen	
		Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2016-47 Vessel: TULLY Page: 19
Project(s): La Perouse - SB Contact: Maria G
TSK Serial #: 4888 RBR serial #: -

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

Date: 4 JUN 2016	Station: 8501	Time: 1028	LOCAL
Net Event # 191	CTD # 190		
Latitude: 49° 14.92 N	Longitude: 123° 45.02 W		
deg min.dec	deg min.dec		
Wire out: 393	Wire angle: 0	Bottom Depth: 398	
Net Type: BONGO	Tow Type: VNH		
Flow start 55755	Flow end 55151	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: 4 JUN 2016	Station: 8501	Time: 1058	LOCAL
Net Event # 192	CTD # 190		
Latitude: 49° 14.91 N	Longitude: 123° 45.01 W		
deg min.dec	deg min.dec		
Wire out: 100	Wire angle:	Bottom Depth: 398	
Net Type: BONGO	Tow Type: VNH		
Flow start 55151	Flow end 55782	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: 4 JUN 2016	Station: 38	Time: 1252	LOCAL
Net Event # 194	CTD # 193		
Latitude: 49° 11.89 N	Longitude: 123° 26.42 W		
deg min.dec	deg min.dec		
Wire out: 295	Wire angle: 0	Bottom Depth: 300	
Net Type: BONGO	Tow Type: VNH		
Flow start 55782	Flow end 57609	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: 4 JUN 2016	Station: 41	Time: 1435	LOCAL
Net Event # 196	CTD # 195		
Latitude: 49° 03.28 N	Longitude: 123° 22.24 W		
deg min.dec	deg min.dec		
Wire out: 230	Wire angle: 0	Bottom Depth: 236	
Net Type: BONGO	Tow Type: VNH		
Flow start 57640	Flow end 59192	Flow = frozen	
		Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: Vessel: Page:

Project(s): Contact:

TSK Serial #: RBR serial #:

Time offset = +

hrs = UTC (please record local time for samples)

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

Notes:

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

Notes:

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

Notes:

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

Notes: