



Plankton Net Tow Log Sheet

Cruise #: 2018-31 Vessel: Vector Page: 1
Project(s): SOG Contact: Kelly
TSK Serial #: 7133 RBR serial #: 81

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

Date: 27 Sept 2018 Station: 59 Time: 01:05 LOCAL
Net Event # 3 CTD # 2
Latitude: 48 37.723 N Longitude: 123 14.580 W
deg min.dec deg min.dec
Wire out: 229 Wire angle: 0 Bottom Depth: 239
Net Type: SCOR Tow Type: VNH
Flow start 76756 Flow end 78157 Flow = frozen
Non-flow = pickled

Notes:

Date: 27 Sept 2018 Station: 102 Time: 2044 LOCAL UTC
Net Event # 8 CTD # 7 13:44 local
Latitude: 48 30 136 N Longitude: 124 21 21 W
deg min.dec deg min.dec
Wire out: 250 Wire angle: 10 Bottom Depth: 260
Net Type: SCOR Tow Type: VNH
Flow start 78165 Flow end 79990 Flow = frozen
Non-flow = pickled

Notes: humpbacks all around

Date: 27 Sept 2018 Station: 72 Time: 22:32 LOCAL
Net Event # 15 CTD # 14
Latitude: 48 18.717 N Longitude: 124 4.235 W
deg min.dec deg min.dec
Wire out: 179 Wire angle: 10 Bottom Depth: 189
Net Type: SCOR Tow Type: VNH
Flow start 79990 Flow end 81642 Flow = frozen
Non-flow = pickled

Notes: High wire angle at start (+40°)

Date: 2018-09-28 Station: 63 Time: 1045 LOCAL
Net Event # 28 CTD # 27
Latitude: 48 14.603 N Longitude: 122 58.504 W
deg min.dec deg min.dec
Wire out: 146 Wire angle: 10 Bottom Depth: 156
Net Type: SCOR Tow Type: VNH
Flow start 81342 Flow end 82322 Flow = frozen
Non-flow = pickled

Notes: → Forward Lead 6m Unretracted
LAST PORTION OF TOW WAS OBLIQUE
SAME HERE



Plankton Net Tow Log Sheet

Cruise #: 2018-31 Vessel: VENTURE Page: 2

Project(s): SCOR Contact: K. S. S. S.

TSK Serial #: 1133 RBR serial #: 81

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

Date: 2018 07 29	Station: 46	Time: 0447	LOCAL
Net Event # 43	CTD # 44		
Latitude: 48° 51.390 N	Longitude: 123° 10.824 W		
deg min.dec	deg min.dec		
Wire out: 165	Wire angle: 0	Bottom Depth: 174	
Net Type: SCOR	Tow Type: VNH		
Flow start 82291	Flow end 83431	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: 2018 07 29	Station: 42	Time: 0855	LOCAL
Net Event # 48	CTD # 49		
Latitude: 49° 1.800 N	Longitude: 123° 26.382 W		
deg min.dec	deg min.dec		
Wire out: 309	Wire angle: 0°	Bottom Depth: 319	
Net Type: SCOR	Tow Type: VNH		
Flow start 83435	Flow end 85225	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: 2018 07 29	Station: 41	Time: 1041	LOCAL
Net Event # 50	CTD # 50		
Latitude: 49° 3.278 N	Longitude: 123° 22.321 W		
deg min.dec	deg min.dec		
Wire out: 234	Wire angle: 0°	Bottom Depth: 244	
Net Type: SCOR	Tow Type: VNH		
Flow start 85225	Flow end 86714	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: 29 Sept 2018	Station: 38	Time: 2057	LOCAL UTC
Net Event # 55	CTD # 54		13:57 loc
Latitude: 49° 11.957 N	Longitude: 123° 26.256 W		
deg min.dec	deg min.dec		
Wire out: 291	Wire angle: 0	Bottom Depth: 301	
Net Type: SCOR	Tow Type: VNH		
Flow start 86714	Flow end 88408	Flow = frozen	
		Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2018-31 Vessel: Vector Page: 3

Project(s): SOG Contact: Kelly

TSK Serial #: 7133 RBR serial #: 81

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

Date: 29 Sept 2018	Station: 40	Time: 23 09	LOCAL UTC
Net Event # 58	CTD # 58		16:09 local
Latitude: 49 8 58.9 N		Longitude: 123 36 90.0 W	
deg min.dec		deg min.dec	
Wire out: 135	Wire angle: 5	Bottom Depth: 145	
Net Type: SCOR	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
88406	89170	Non-flow = pickled	
Notes: Bottom depth started @ 151, shallowed up during cast. switched winch to high gear			

Date: 29 Sept 2018	Station: GE01	Time: 0030	LOCAL UTC
Net Event # 59	CTD # 61		17:30
Latitude: 49 15 02.8 N		Longitude: 123 45 07.1 W	
deg min.dec		deg min.dec	
Wire out: 390	Wire angle: 0	Bottom Depth: 400	
Net Type: SCOR	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
89170	91290	Non-flow = pickled	
Notes:			

Date: 29 Sept 2018	Station: GE01	Time: 0052	LOCAL UTC
Net Event # 60	CTD # 61		17:52
Latitude: 49 15 02.2 N		Longitude: 123 45 31.6 W	
deg min.dec		deg min.dec	
Wire out: 390	Wire angle: 0	Bottom Depth: 400	
Net Type: SCOR	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
91290	93481	Non-flow = pickled	
Notes: Sing-fractionated + froze -80 for B.Hunt			

Date: 29 Sept 2018	Station: 28	Time: 0426	LOCAL UTC
Net Event # 105	CTD # 64		21:26
Latitude: 49 24 06.9 N		Longitude: 123 45 29.9 W	
deg min.dec		deg min.dec	
Wire out: 125	Wire angle: 10	Bottom Depth: 135	
Net Type: SCOR	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
93481	94330	Non-flow = pickled	
Notes:			



Plankton Net Tow Log Sheet

Cruise #: 2018-31 Vessel: Vector Page: 4

Project(s): 809 Contact: Kelly

TSK Serial #: 7133 RBR serial #: 081

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

Date: 29 Sept 2018	Station: CFI	Time: 0618	LOCAL UTC
Net Event # 66	CTD # 67		23:18
Latitude: 49 22 053 N	Longitude: 124 04 818 W		
deg min.dec	deg min.dec		
Wire out: 231	Wire angle: 10	Bottom Depth: 244	
Net Type: SCOR	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
94330	95865	Non-flow = pickled	

Notes:

Date: 2018 Sept 30	Station: GF2	Time: 0455	LOCAL
Net Event # 73	CTD # 72		
Latitude: 49° 28.059 N	Longitude: 124° 29.816 W		
deg min.dec	deg min.dec		
Wire out: 315	Wire angle: 0	Bottom Depth: 325	
Net Type: SCOR	Tow Type: VNH		
Flow start 95865	Flow end 97814	Flow = frozen	
		Non-flow = pickled	

Notes: - Flows wrong on labels

Date: 30 Sept 18	Station: 11	Time: 10:46	LOCAL
Net Event # 80	CTD # 71		
Latitude: 49° 42.310 N	Longitude: 124° 43.469 W		
deg min.dec	deg min.dec		
Wire out: 290	Wire angle: 0	Bottom Depth: 295	
Net Type: SCOR	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
97814	99720	Non-flow = pickled	

Notes: → Flows wrong on labels

Date: 30 Sept 18	Station: 12	Time: 11:27	LOCAL
Net Event # 81	CTD # 82		
Latitude: 49° 43.634 N	Longitude: 124° 40.702 W		
deg min.dec	deg min.dec		
Wire out: 345	Wire angle: 0	Bottom Depth: 355	
Net Type: SCOR	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
09720	01009 01090 01890	Non-flow = pickled	

Notes: picked 7 large Limke (sl) into 95% EtOH



Plankton Net Tow Log Sheet

Cruise #: 2018-31 Vessel: Vector Page: 5

Project(s): 809 Contact: Kelly

TSK Serial #: 7133 RBR serial #: 81

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

Date: 30 Sept 2018	Station: 14	Time: 1452	LOCAL
Net Event # 84	CTD # 86		
Latitude: 49 52 935 N		Longitude: 124 59 417 W	
deg min.dec		deg min.dec	
Wire out: 304	Wire angle: 5	Bottom Depth: 314	
Net Type: SCOR	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
1890	4090	Non-flow = pickled	

Notes:

Date: 30 Sept	Station: 14	Time: 1512	LOCAL
Net Event # 85	CTD # 86		
Latitude: 49 52 740 N		Longitude: 124 59 366 W	
deg min.dec		deg min.dec	
Wire out: 304	Wire angle: 10	Bottom Depth: 311	
Net Type: SCOR	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
4090	6339	Non-flow = pickled	

Notes:

SIZE FRACTIONATION

Date: 30 Sept 2018	Station: 0039	Time: 1936	LOCAL
Net Event # 91	CTD # 90		
Latitude: 50 2 185 N		Longitude: 125 5 741 W	
deg min.dec		deg min.dec	
Wire out: 245	Wire angle: 15	Bottom Depth: 255	
Net Type: SCOR	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
6340	8245	Non-flow = pickled	

Notes: high wire angle at end

Date: 01 Oct 2018	Station: PAN 2	Time: 0748	LOCAL
Net Event # 95	CTD # 96		
Latitude: 50° 14.730 N		Longitude: 124° 44.039 W	
deg min.dec		deg min.dec	
Wire out: 283	Wire angle: 0	Bottom Depth: 293	
Net Type: SCOR	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
8245	9917	Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2018-31 Vessel: Vector Page: 6

Project(s): S06 Contact: Kelly

TSK Serial #: 7133 RBR serial #: 81

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

Date: 1 Oct 2018	Station: 22	Time: 1547	LOCAL
Net Event # 101	CTD # 99		
Latitude: 49° 40.487 N	Longitude: 124° 16.482 W		
deg min.dec	deg min.dec		
Wire out: 348	Wire angle: 5	Bottom Depth: 358	
Net Type: SCOR	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
9918	11939	Non-flow = pickled	

Notes:

Date: 1 Oct 2018	Station: 22	Time: 1618	LOCAL
Net Event # 102	CTD # 99		
Latitude: 49° 40.588 N	Longitude: 124° 16.477 W		
deg min.dec	deg min.dec		
Wire out: 348	Wire angle: 5°	Bottom Depth: 358	
Net Type: SCOR	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
11939	14302	Non-flow = pickled	

Notes: single-fractionated

Date: 1 Oct 2018	Station: 24	Time: 1811	LOCAL
Net Event # 103	CTD # 104		
Latitude: 49° 30.538 N	Longitude: 124° 6.152 W		
deg min.dec	deg min.dec		
Wire out: 420	Wire angle: 25	Bottom Depth: 425	
Net Type: SCOR	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
14302	17170	Non-flow = pickled	

Notes: high wire angle on downcast. About 450

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:

2018-31 TSK: 7133 start end					
Station	bottomz	tonz	flow 1	flow 2	<
59	239	229	76756	78157	0
102	260	250	78165	79790	10
72	189	179	79990	81642	10
63	186	146	81342	82300	10
46	175	165	82296	83431	0
42	317	307	83435	85225	0
41	244	234	85225	86714	0
38	308.1	298.1	86714	88408	0
40	135.15	125.15	88406	89170	5
GE01	400	390	89170	91290	0
GE01-SF	400	390	✓	93481	0
28	135	125	93481	94330	10
CP1	244	234	94330	95865	10
CP2	323	313	95865	97814	0
11	300	290	97814	99720	0
12	355	345	99720	01890	0
14	314	304	1090	04090	5
14-SF	311	304	4090	6339	10
QV39	265	255	6340	8245	15
PCN2	293	283	8245	9917	0
22	358	348	9918	11939	5
22-SF	358	348	✓	14302	5
24	425	415.5	14302	17176	25

Left in the Rain

