IOS
Institute of Ocean Sciences
Sidney, B.C., Canada

Plankton Net Tow Log Sheet

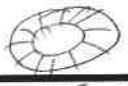
Cruise #: 2019-050 **Vessel:** **Page:** 1

Project(s): SOG **Contact:** P. CHANDLER

TSK Serial #: 7133 **RBR serial #:** 79110

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

Date: 2JUN2019	Station: 59		Time: 20:17		LOCAL
Net Event # 3	CTD #: 4				
Latitude: 48 deg	37.755 min.dec	N	Longitude: 123 deg	14.562 min.dec	W
Wire out: 220	Wire angle: 30		Bottom Depth: 230		
Net Type: SCOR	Tow Type: VNH				
Flow start	Flow end		Flow = frozen		
15830	17292		Non-flow = pickled		

Notes: Removed 2½" diameter Jelly  I think was brought up @ 0.5 m/s

Date: 3JUN2019	Station: 72		Time: 15:43		LOCAL
Net Event # 14	CTD # 15				
Latitude: 48 deg	18.192 min.dec	N	Longitude: 124 deg	03.826 min.dec	W
Wire out: 180	Wire angle: 30		Bottom Depth: 189 m		
Net Type: SCOR	Tow Type: SCOR VNH				
Flow start	Flow end		Flow = frozen		
17288	20278		Non-flow = pickled		

Notes: or 19278? first ~20 m was at 0.5 m/s rest at 1.0 m/s

Date: 4JUN2019	Station: 63		Time: 0358		LOCAL
Net Event # 27	CTD # 28				
Latitude: 48° deg	14.268 min.dec	N	Longitude: 122° deg	58.383 min.dec	W
Wire out: 147	Wire angle: 5-10		Bottom Depth: 150		
Net Type: SCOR	Tow Type: VNH				
Flow start	Flow end		Flow = frozen		
19282	20501		Non-flow = pickled		

Notes:

Date: 4June19	Station: 46		Time: 2113		LOCAL
Net Event # 42	CTD # 43				
Latitude: 48 51.418 deg min.dec		N	Longitude: 123 deg	10.774 min.dec	W
Wire out: 170	Wire angle: 0		Bottom Depth: 180		
Net Type: SCOR	Tow Type: VNH				
Flow start 20502	Flow end 21510		Flow = frozen		
			Non-flow = pickled		

Notes:

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Cruise #: 2019-050 **Vessel:** VECTOR **Page:** 2

Project(s): SOG **Contact:** PCHANDLER

TSK Serial #: 7133 **RBR serial #:** 7911G

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

Date: 5 JUN 2019	Station: 42	Time: 00:45 **LOCAL**
Net Event # 46	CTD # 47	
Latitude: 49° 01.870 N (deg / min.dec)	Longitude: 123° 26.112 W (deg / min.dec)	
Wire out: 313	Wire angle: 5	Bottom Depth: 318m
Net Type: SCOR	Tow Type: VNT	
Flow start 21509	Flow end 23389	Flow = frozen
		Non-flow = pickled

Notes:

Date: 5 JUN 2019	Station: 38	Time: 0506 **LOCAL**
Net Event # 51	CTD # 52	
Latitude: 49° 11.935 N (deg / min.dec)	Longitude: 123° 26.247 W (deg / min.dec)	
Wire out: 294	Wire angle: 0	Bottom Depth: 299
Net Type: SCOR	Tow Type: VNH	
Flow start 23389	Flow end 25125	Flow = frozen
		Non-flow = pickled

Notes:

Date: 5 JUN 2019	Station: 40	Time: 0807 **LOCAL**
Net Event # 55	CTD # 54	
Latitude: 49° 08.561 N (deg / min.dec)	Longitude: 123° 36.811 W (deg / min.dec)	
Wire out: 150	Wire angle: 0	Bottom Depth: 155
Net Type: SCOR	Tow Type: VNH	
Flow start 25125	Flow end 26000	Flow = frozen
		Non-flow = pickled

Notes:

Date: 5 JUN 2019	Station: GEO1	Time: 0929 **LOCAL**
Net Event # 56	CTD # 58	
Latitude: 49° 15.123 N (deg / min.dec)	Longitude: 123° 45.193 W (deg / min.dec)	
Wire out: 406	Wire angle: 45	Bottom Depth: 400-415
Net Type: SCOR	Tow Type: VNH	
Flow start 26000	Flow end 29474	Flow = frozen
		Non-flow = pickled

Notes:

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Cruise #: 2019-050 **Vessel:** VECTOR **Page:** 3

Project(s): SoG **Contact:** P. CHANDLER

TSK Serial #: 7133 **RBR serial #:** 7110

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

Date: 5 JUN 2019	Station: GEO1		Time: 0956		LOCAL
Net Event # 57	CTD # 58				
Latitude: 49° 15.079	N	Longitude: 123° 45.004		W	
deg min.dec		deg min.dec			
Wire out: 396	Wire angle: 5		Bottom Depth: 401		
Net Type: SCOR	Tow Type: VNH				
Flow start 29474	Flow end 31069		Flow = frozen		
			Non-flow = pickled		

Notes: -- SIZE FRACTIONATION 4mm, 2mm, 1mm, 500µM + 250µM

Date: 5 June 19	Station: 28		Time: 22:21		LOCAL
Net Event # 64	CTD # 63				
Latitude: 49° 24.158	N	Longitude: 123° 45.284		W	
deg min.dec		deg min.dec			
Wire out: 120	Wire angle: 30°		Bottom Depth: 132		
Net Type: SCOR	Tow Type: VNH				
Flow start 32070	Flow end 33145		Flow = frozen		
			Non-flow = pickled		

Notes:

Date: 5 June 19 -	Station: 24		Time: 1738		LOCAL
Net Event # 65	CTD # 66				
Latitude: 49 30.369	N	Longitude: 124 06.183		W	
deg min.dec		deg min.dec			
Wire out: 410	Wire angle: 5		Bottom Depth: 420		
Net Type: SCOR	Tow Type: VNH				
Flow start 33145	Flow end 36185		Flow = frozen		
			Non-flow = pickled		

took a few specks in EtOH for snails

500 ml jar

Notes: 1st ~ 5 min of downcast the ship was towing the net - wire angle ~ 45° lots of red ctenophores

Date: 5 June 19	Station: CPF1		Time: 2051		LOCAL
Net Event # 69	CTD # 70				
Latitude: 49° 21.991	N	Longitude: 124° 4.978		W	
deg min.dec		deg min.dec			
Wire out: 236	Wire angle: 0		Bottom Depth:		
Net Type: SCOR	Tow Type: VNH				
Flow start 36185	Flow end 37651		Flow = frozen		
			Non-flow = pickled		

Notes:

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Cruise #: 2019-050 **Vessel:** VECTOR **Page:** 4

Project(s): SoG **Contact:** P. CHANDLER

TSK Serial #: 7133 **RBR serial #:** 79110

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

Date: 6 JUN 2019	Station: CPFZ		Time: 0128	LOCAL
Net Event # 75	CTD # 74			
Latitude: 49° 27.630 N (deg / min.dec)		Longitude: 124° 30.408 W (deg / min.dec)		
Wire out: 325	Wire angle: 0		Bottom Depth: 330	
Net Type: SCOR	Tow Type: VNH			
Flow start 37651	Flow end 39611		Flow = frozen	
			Non-flow = pickled	

Notes: ~20 Limacina Preserved

Date: 06/Jun/19	Station: 12		Time: 0756	LOCAL
Net Event # 82	CTD # 83			
Latitude: 49° 43.575 N (deg / min.dec)		Longitude: 124° 40.772 W (deg / min.dec)		
Wire out: 350	Wire angle: 0		Bottom Depth: 355	
Net Type: SCOR	Tow Type: VNH			
Flow start	Flow end		Flow = frozen	
39611	41594		Non-flow = pickled	

Notes:

Date: 6 Jun 19	Station: QU39		Time: 2146	LOCAL
Net Event # 91	CTD # 92			
Latitude: 50 01.911 N (deg / min.dec)		Longitude: 125 05.939 W (deg / min.dec)		
Wire out: 265	Wire angle: 20		Bottom Depth: 275	
Net Type: SCOR	Tow Type: VNH			
Flow start	Flow end		Flow = frozen	
41590	43382		Non-flow = pickled	

Notes:

Date: 7 JUN 2019	Station: 14		Time: 0103	LOCAL
Net Event # 96	CTD # 98			
Latitude: 49° 52.543 N (deg / min.dec)		Longitude: 124° 59.723 W (deg / min.dec)		
Wire out: 295	Wire angle: 5		Bottom Depth: 300	
Net Type: SCOR	Tow Type: VNH			
Flow start	Flow end		Flow = frozen	
43382	45107		Non-flow = pickled	

Notes:
took ~20 specks → EtOH for Snails

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Cruise #: 2019-050 **Vessel:** VECTOR **Page:** 5

Project(s): SoG **Contact:** P. CHANDLER

TSK Serial #: 7133 **RBR serial #:** 79110

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

Date: 7 JUN 2019	Station: 14	Time: 0125	LOCAL
Net Event # 97	CTD # 98		
Latitude: 49° 52.584 N (deg / min.dec)		Longitude: 124° 59.588 W (deg / min.dec)	
Wire out: 295	Wire angle: 5°	Bottom Depth: 300	
Net Type: SCOR	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
45107	47192	Non-flow = pickled	

Notes: SIZE FRACTIONATION
ALKASELTZER ADDED & STORED @ 4°C FOR ~1 HR BEFORE PROCESSING

Net Event #102: Redone b/c giant moon jelly overwhelmed the sample

Date: 7 JUN 2019	Station: 22	Time: 0806	LOCAL
Net Event # 103	CTD # 104		
Latitude: 49° 40.[illegible]150 N (deg / min.dec)		Longitude: 124° 16.[illegible]272 W (deg / min.dec)	
Wire out: 347	Wire angle: 0	Bottom Depth: 352	
Net Type: SCOR	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
49165	51216	Non-flow = pickled	

Notes:

Date: 7 JUN 2019	Station: 22	Time: 0832	LOCAL
Net Event # 104	CTD # 101		
Latitude: 49° 40.133 N (deg / min.dec)		Longitude: 124° 16.248 W (deg / min.dec)	
Wire out: 351	Wire angle: 0	Bottom Depth: 351	
Net Type: SCOR	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
51216	53323	Non-flow = pickled	

Notes: Size Fractionation

Date: 7 Jun 19	Station: GI-01	Time: 1626	LOCAL
Net Event # 105	CTD # 106		
Latitude: 48 45.854 N (deg / min.dec)		Longitude: 123 20.555 W (deg / min.dec)	
Wire out: 54	Wire angle: 0	Bottom Depth: 64	
Net Type: SCOR	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
53323	53646	Non-flow = pickled	

Notes:

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Cruise #: 2019-050 **Vessel:** Vector **Page:** 6

Project(s): SoG **Contact:** Moira

TSK Serial #: 7133 **RBR serial #:** 79110

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

Date: 7 June 19	Station: SC-04	Time: 1737 **LOCAL**
Net Event # 107	CTD # 108	
Latitude: 48 43.501 N (deg min.dec)	Longitude: 123 25.105 W (deg min.dec)	
Wire out: 89	Wire angle: 10	Bottom Depth: 99
Net Type: SCOR	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
53646	54269	Non-flow = pickled (circled)

Notes:

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

Notes:

2019-050 TSK7133 EBR79/10

STN	DEPTH	WIRE OUT	FLOW(S)	FLOW(E)	∠
59	230m	220m	15830	17292	30°
72	189m	180m	17288	20278	30°
63	~~164m~~ 150m	~~150m~~ 147m	19282	20501	5-10°
46	180m	170m	20502	21510	0°
42	318m	313m	21509	23389	5°
38	299	294	23389	25125	0°
40	155	150	25125	26000	0°
GC01	405	406	26000	29474	45°
GC01	401	396	31069 →		5°
28	1132	120	32070	33145	30°
24	424	410	33145	36185	5°
CPF1	246	236	36185	37651	0°
CPF2	330	325	37651	39611	0
12	355	350	39611	41594	0
QU39	276	265	41590	43382	20°
14	300	295	43382	45107	5°
14	300	295	45107	47192	5°
22	352	~~347~~	47191	49165	0°
22	352	347	49165	51216	0°
22	351	351	51216	53323	0°
GI-01	64	54	53323	53646	0°
SC04	99	89	53646	54269	10°

Rite in the Rain