



Plankton Net Tow Log Sheet

Cruise #: 2019-062 Vessel: Vector Page: 1

Project(s): Str. Georgia Contact: Kelly

TSK Serial #: 5333 RBR serial #:

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

Date: 30 Sept 2019	Station: 59	Time: 19:12	LOCAL
Net Event # 2	CTD # 3		
Latitude: 48 37.857 N		Longitude: 123 14.627 W	
deg min.dec		deg min.dec	
Wire out: 230	Wire angle: 35	Bottom Depth: 231	
Net Type: SCOR	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
35715	35713	Non-flow = pickled	

Notes: flow didn't spin, don't know why as spins freely on deck

Date: 1 Oct 2019	Station: 72	Time: 15:50	LOCAL
Net Event # 13	CTD # 14		
Latitude: 48 18.612 N		Longitude: 124 3.921 W	
deg min.dec		deg min.dec	
Wire out: 179	Wire angle: 15	Bottom Depth: 189	
Net Type: SCOR	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
		Non-flow = pickled	

Notes: flow didn't spin again, switching nets
rem 1 pluba, 3 euphr, about 10 chaet + scope sm copes -> into EtOH 75%

Date: 02 Oct	Station: 63	Time: 03:45	LOCAL
Net Event # 26	CTD # 27		
Latitude: 48 14.495 N		Longitude: 122 58.777 W	
deg min.dec		deg min.dec	
Wire out: 150+8	Wire angle: ~45°	Bottom Depth: 160	
Net Type: SCOR	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
63288	63288	Non-flow = pickled	

Notes: TSK 7135 - this one didn't move either
Caught pliers in net

Date: 2 Oct	Station: 46	Time: 18:40	LOCAL
Net Event # 41	CTD # 42		
Latitude: 48 51.446 N		Longitude: 123 10.794 W	
deg min.dec		deg min.dec	
Wire out: 166	Wire angle: 10	Bottom Depth: 176	
Net Type: SCOR	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
63455	64597	Non-flow = pickled	

Notes: very calm waters



Plankton Net Tow Log Sheet

Cruise #: 2019-062 Vessel: Vector Page: 2

Project(s): Sog Contact: Kelly

TSK Serial #: 7133 RBR serial #:

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

Date: 2 Oct 2019	Station: 42	Time: 21:49	LOCAL
Net Event # 45	CTD # 46		
Latitude: 49 deg	1.785 min.dec N	Longitude: 123 deg	26.111 min.dec W
Wire out: 309	Wire angle: 0	Bottom Depth: 319	
Net Type: SOR	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
64596	66379	Non-flow = pickled	

Notes: could see Euph swarm @ surface in light
removed sm scoop zoops + hypox + Ceilid3 into EtOH

Date: 03 Oct 2019	Station: 38	Time: 0227	LOCAL
Net Event # 51	CTD # 50		
Latitude: 49 deg	12.013 min.dec N	Longitude: 123 deg	26.281 min.dec W
Wire out: 291	Wire angle: 0°	Bottom Depth: 308	
Net Type: SOR	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
66379	68268	Non-flow = pickled	

Notes:

Date: 03 Oct 2019	Station: 40	Time: 0515	LOCAL
Net Event # 54	CTD # 53		
Latitude: 49 deg	08.610 min.dec N	Longitude: 123 deg	36.839 min.dec W
Wire out: 130	Wire angle: 15°-20°	Bottom Depth: 140	
Net Type: SOR	Tow Type: VNH		
Flow start	Flow end 69380	Flow = frozen	
68400	70380	Non-flow = pickled	

Notes: sounder not working, bottom depth changing
stuck to 130m for safety

Date: 03 Oct 2019	Station: GE01	Time: 0649	LOCAL
Net Event # 55	CTD # 56		
Latitude: 49 deg	15.013 min.dec N	Longitude: 123 deg	44.918 min.dec W
Wire out: 390	Wire angle:	Bottom Depth: 400	
Net Type: SOR	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
70380	70380	Non-flow = pickled	

Notes: one of lanyards on flowmeter broke
off so no flow change on meter.

69380

69380



Plankton Net Tow Log Sheet

Cruise #: 2019-062 Vessel: VERTON Page: 3

Project(s): 509 Contact: KELLY

TSK Serial #: 7133 RBR serial #:

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

Date: 63 OCT 2019	Station: 28	Time: 11:35 LOCAL
Net Event # 62	CTD # 61	
Latitude: 49 24 015 N	Longitude: 123 45 285 W	
deg min.dec	deg min.dec	
Wire out: 126	Wire angle: 5°	Bottom Depth: 136
Net Type: SCOR	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
69380	70333	Non-flow = pickled

Notes:

Date: 3 Oct 2019	Station: 24	Time: 13:32 LOCAL
Net Event # 63	CTD # 64	
Latitude: 49 30.249 N	Longitude: 124 05.606 W	
deg min.dec	deg min.dec	
Wire out: 393	Wire angle: 0	Bottom Depth: 403
Net Type: SCOR	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
70335	73027	Non-flow = pickled

Notes: rem Stidi: 9, Kypme 9 + scoop 200's for 95% EtOH (DNA)
(pic) bottom shallowed from 4170 start → 404 m @ boat. windy

Date: 3 Oct 2019	Station: 22	Time: 16:07 LOCAL
Net Event # 66	CTD # 65	
Latitude: 49 40.191 N	Longitude: 124 16.283 W	
deg min.dec	deg min.dec	
Wire out: 340	Wire angle: 0	Bottom Depth: 350
Net Type: SCOR	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
73036	74952	Non-flow = pickled

Notes:

Date: 3 Oct 2019	Station: 2039	Time: 21:27 LOCAL
Net Event # 70	CTD # 71	
Latitude: 50 1.834 N	Longitude: 125 5.993 W	
deg min.dec	deg min.dec	
Wire out: 265	Wire angle: 0	Bottom Depth: 275
Net Type: SCOR	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
74952	76470	Non-flow = pickled

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2019-062 Vessel: Vector Page: 4

Project(s): S04 Contact: Kelly

TSK Serial #: 7133 RBR serial #:

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

Date: 04 OCT 2019	Station: 14	Time: 0052	LOCAL
Net Event # 75	CTD # 76		
Latitude: 49 53 001 N	Longitude: 124 59 663 W		
deg min.dec	deg min.dec		
Wire out: 303	Wire angle: 0	Bottom Depth: 313	
Net Type: SCOR	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
76470	78350	Non-flow = pickled	
Notes:			

Date: 04 OCT 2019	Station: 12	Time: 0427	LOCAL
Net Event # 78	CTD # 79		
Latitude: 49 43 623 N	Longitude: 124 40 792 W		
deg min.dec	deg min.dec		
Wire out: 342	Wire angle: 0	Bottom Depth: 352	
Net Type: SCOR	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
78350	80262	Non-flow = pickled	
Notes:			

Date: 04 OCT 2019	Station: CPF2	Time: 12:06	LOCAL
Net Event # 87	CTD # 86		
Latitude: 49 27.885 N	Longitude: 124 30.386 W		
deg min.dec	deg min.dec		
Wire out: 318	Wire angle: 0	Bottom Depth: 328	
Net Type: SCOR	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
80263	82124	Non-flow = pickled	
Notes: big clump jelly in sample - shredded trq?			

Date: 4 OCT 2019	Station: BS17	Time: 13:27	LOCAL
Net Event # 88	CTD # 89		
Latitude: 49 28.857 N	Longitude: 124 46.019 W		
deg min.dec	deg min.dec		
Wire out: 45	Wire angle: 0	Bottom Depth: 55	
Net Type: SCOR	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
82123	82383	Non-flow = pickled	
Notes:			

photo



Plankton Net Tow Log Sheet

Cruise #: 2019-062 Vessel: Vector Page: 5

Project(s): Sog Contact: Kelly

TSK Serial #: 7133 RBR serial #:

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

Date: 4 Oct 2019	Station: CFF1	Time: 18:40	LOCAL
Net Event # 93	CTD # 94		
Latitude: 49 21.950 N	Longitude: 124 05.003 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	
82385	83840	Non-flow = pickled	

Notes:

Date: 05 OCT 2019	Station: VAN1	Time: 0032	LOCAL
Net Event # 97	CTD # 98		
Latitude: 49 18 872 N	Longitude: 123 15 928 W		
deg min.dec	deg min.dec		
Wire out: 105	Wire angle: 0	Bottom Depth: 115	
Net Type: SCORE	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
83840	84418	Non-flow = pickled	

Notes:

Date: 05 OCT 2019	Station: VAN6	Time: 0228	LOCAL
Net Event # 103	CTD # 104		
Latitude: 49 17 891 N	Longitude: 122 58 877 W		
deg min.dec	deg min.dec		
Wire out: 55	Wire angle: 0	Bottom Depth: 65	
Net Type: SCOR	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
84418	84715	Non-flow = pickled	

Notes:

Date: 05 OCT	Station: IND4	Time: 0840	LOCAL
Net Event # 107	CTD # 108		
Latitude: 49 23 276 N	Longitude: 122 52 482 W		
deg min.dec	deg min.dec		
Wire out: 210	Wire angle: 0	Bottom Depth: 220	
Net Type: SCOR	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
84715	85970	Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2019-062 Vessel: Vector Page: 6

Project(s): Sog Contact: Kelly

TSK Serial #: 7133 RBR serial #:

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

Date: 5 Oct 2019	Station: IND2	Time: 13:25	LOCAL
Net Event # 115	CTD # 116		
Latitude: 49 20.998 N	Longitude: 122 54.157 W		
deg min.dec	deg min.dec		
Wire out: 144	Wire angle: 0	Bottom Depth: 155	
Net Type: SLOP	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
85870	86664	Non-flow = pickled	

Notes: 95% KAH sample

Date: 6 Oct 2019	Station: G101	Time: 0426	LOCAL
Net Event # 120	CTD # 119		
Latitude: 48 45.758 N	Longitude: 123 20.494 W		
deg min.dec	deg min.dec		
Wire out: 55	Wire angle: 0	Bottom Depth: 65	
Net Type: SLOP	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
86672	87003	Non-flow = pickled	

Notes:

Date: 6 Oct 2019	Station: S104	Time: 0546	LOCAL
Net Event # 121	CTD # 122		
Latitude: 48 43 503 N	Longitude: 123 24 995 W		
deg min.dec	deg min.dec		
Wire out: 83	Wire angle: 0	Bottom Depth: 93	
Net Type: SLOP	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
87003	87503	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	Stn	tow Z	bot Z	flow start	end ³
30 Sept 2019	59	221+9	231	55715	55731
		< 35' wire angle port			
1 Oct 2019	72	179	189	55815	same < 15
2 OCT	63	150+8	160	63288	63288
		< ~45°			
2 Oct	46 < 6	166	176	63455	64597
2 Oct	42	309	319	64596	66379
3 OCT	38	291	304	66379	68268
			→ 300	68268	
3 Oct	40	139	149	68268	69
		130	140	68400	70380
		< ~10°-15°			
03 Oct	GE01	590	400	69380	69380
		< 5° or less			
03 OCT	28	126	136	69380	70333
		5° or less			
3 Oct	24	407	417	70335	73027
		393	403	72036	
3 Oct	22	340	350	74952	74952
3 Oct	Q039	265	275	74952	76470
04 OCT	14	303	313	76470	78350
04 OCT	12	342	352	78350	80262
"	CPF2	318	328	80263	82124
"	BS17	48	55	82123	82383
"	CPF1	234	244	82385	83840
	10°			Rite on the Rain.	

[illegible]