



Plankton Net Tow Log Sheet

Cruise #: 2019-014 Vessel: Tully Page: 1

Project(s): SPAMOUNTS Contact: CHASEA

TSK Serial #: 7129 RBR serial #: 78976

Time offset = +

hrs = UTC (please record local time for samples)

Date: 2019 JUL-19	Station: ESO1	Time: 0727 LOCAL
Net Event # 06	CTD # 05	2053
Latitude: 49 00.382 N	Longitude: 130.38.750 W	
deg min.dec	deg min.dec	
Wire out: 250	Wire angle: 0	Bottom Depth: 925
Net Type: Bongo	Tow Type: VNH	
Flow start 63742	Flow end 65269	Flow = frozen
		Non-flow = pickled

Notes:

Date: 2019 JUL-19	Station: ESO1	Time: 02042 LOCAL
Net Event # 07	CTD # 05	2142
Latitude: 49 00.382 N	Longitude: 130.38.750 W	
deg min.dec	deg min.dec	
Wire out: 850	Wire angle: 0	Bottom Depth: 928
Net Type: Bongo	Tow Type: VNH	
Flow start 65469	Flow end 72225	Flow = frozen
		Non-flow = pickled

Notes:

Date: 20 July 19	Station: ESO6	Time: 0312 LOCAL
Net Event # 10	CTD # 9	
Latitude: 48 57.314 N	Longitude: 130 56.946 W	
deg min.dec	deg min.dec	
Wire out: 280	Wire angle: 0	Bottom Depth: 2045
Net Type: Bongo	Tow Type: VNH	
Flow start 72228	Flow end 74290	Flow = frozen
		Non-flow = pickled

Notes:

Date: 20 July 19	Station: ESO7	Time: 0729 LOCAL
Net Event # 12	CTD # 11	
Latitude: 48 47.153 N	Longitude: 130.53.107 W	
deg min.dec	deg min.dec	
Wire out: 250	Wire angle: 5	Bottom Depth: 2811
Net Type: Bongo	Tow Type: VNH	
Flow start 74310	Flow end 76500	Flow = frozen
		Non-flow = pickled

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2019-014 Vessel: Tully Page: 2 Chelsec
Project(s): Seamounts Contact: H. Galbraith
TSK Serial #: 7129 RBR serial #: 78976
Time offset = + hrs = UTC (please record local time for samples)

Date: 20 July 19	Station: ES16	Time: 23 49 LOCAL
Net Event # 17	CTD # 18	
Latitude: 49 07.246 N	Longitude: 130 57.107 W	
deg min.dec	deg min.dec	
Wire out: 250	Wire angle: 0	Bottom Depth: 1300
Net Type: bongo	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
76508	78255	Non-flow = pickled

Notes:

Date: 21 July 19	Station: ES17	Time: 10 33 LOCAL
Net Event # 19	CTD # 20	
Latitude: 49 06.563 N	Longitude: 131 04.372 W	
deg min.dec	deg min.dec	
Wire out: 250	Wire angle: 0	Bottom Depth: 1685
Net Type: bongo	Tow Type: VNH	
Flow start 78255	Flow end 79922	Flow = frozen
		Non-flow = pickled

Notes:

Date: 21 July 19	Station: ES28	Time: 04 48 LOCAL
Net Event # 21	CTD # 22	
Latitude: 49 14.401 N	Longitude: 131 11.738 W	
deg min.dec	deg min.dec	
Wire out: 250	Wire angle: 10	Bottom Depth: 1422
Net Type: bongo	Tow Type: VNH	
Flow start 79925	Flow end 82249	Flow = frozen
		Non-flow = pickled

Notes:

Date: 21 July 19	Station: ES23	Time: 09 37 LOCAL
Net Event # 25	CTD # 27	
Latitude: 49 26.664 N	Longitude: 130 53.100 W	
deg min.dec	deg min.dec	
Wire out: 250	Wire angle: 10	Bottom Depth: 2341
Net Type: bongo	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
82180	84050	Non-flow = pickled

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2019-014 Vessel: Tully Page: 3

Project(s): Seamounts Contact: ~~Maura~~ Chelser

TSK Serial #: 7129 RBR serial #: 78976

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

Date: 21 July 19	Station: E523	Time: 19 56 LOCAL
Net Event # 28	CTD # 29	
Latitude: 49 26.561 N	Longitude: 130 53.024 W	
deg min.dec	deg min.dec	
Wire out: 2000	Wire angle: 0	Bottom Depth: 2326
Net Type: bongo	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
84050	98250	Non-flow = pickled

Notes:

Date: 22 July 19	Station: E521	Time: 0401 LOCAL
Net Event # 28	CTD # 29	
Latitude: 49 12.326 N	Longitude: 130 54.816 W	
deg min.dec	deg min.dec	
Wire out: 250	Wire angle: 0	Bottom Depth: 1858
Net Type: bongo	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
98250	100155	Non-flow = pickled

Notes:

Date: 22 July 19	Station: E515	Time: 2057 LOCAL
Net Event # 32	CTD # 33	
Latitude: 49 05.4 N	Longitude: 130 26.3 W	
deg min.dec	deg min.dec	
Wire out: 250	Wire angle: 0	Bottom Depth: 2550
Net Type: bongo	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
101862	104708	Non-flow = pickled

Notes:

Date: 23 July 19	Station: E524	Time: 0056 LOCAL
Net Event # 34	CTD # 35	
Latitude: 49 11.186 N	Longitude: 130 42.258 W	
deg min.dec	deg min.dec	
Wire out: 250	Wire angle: 30	Bottom Depth:
Net Type: bongo	Tow Type: VNH	
Flow start	Flow end	Flow = frozen
104708	107312	Non-flow = pickled

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2019-014 Vessel: Tully Page: 4

Project(s): Samouits Contact: ~~Hoar~~ Chelsoy

TSK Serial #: 7129 RBR serial #: 78976

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

Date: 23 July 19	Station: ES13	Time: 0453	LOCAL
Net Event # 36	CTD # 37		
Latitude: 49 05.99 N	Longitude: 130 49.33 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 30	Bottom Depth: 2255	
Net Type: bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
107312	110632	Non-flow = pickled	

Notes:

Date: 23 July 19	Station: UN10	Time: 21:18	LOCAL
Net Event # 39	CTD # 40		
Latitude: 49 15.780 N	Longitude: 131 07.832 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0	Bottom Depth: 1820	
Net Type: bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
110632	112300	Non-flow = pickled	

Notes:

Date: 24 July 19	Station: ES10	Time: 03:58	LOCAL
Net Event # 42	CTD # 43		
Latitude: 48 55.000 N	Longitude: 131 10.707 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 5	Bottom Depth: 3136	
Net Type: bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
112300	114165	Non-flow = pickled	

Notes:

Date: 25 July 19	Station: UN01	Time: 1815	LOCAL
Net Event # 46	CTD # 47		
Latitude: 47 34.0099 N	Longitude: 130 18.3389 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 5	Bottom Depth: 935	
Net Type: bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
114165	116551	Non-flow = pickled	

Notes:



Plankton Net Tow Log Sheet

Cruise #: 2019-014 Vessel: Tully Page: 5

Project(s): Seamounts

Contact: H. R. Chelton

TSK Serial #: 7129

RBR serial #: 78976

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

Date: 25 July 19	Station: UN06	Time: 20 13	LOCAL
Net Event # 48	CTD # 49		
Latitude: 47 34.0246 N	Longitude: 130 10.8711 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 5	Bottom Depth: 2840	
Net Type: bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
116551	117960	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:



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: 2019-014

Station: MPS1

Date: 2019 JUL 21

Event #: 24

Local Time: 18:16

Area: EXPLORE SEAMOUNT N

CTD #: _____

Bottom Depth: _____

Project: SEAMOUNTS

NET	Time	Depth Range (m)	Latitude (°N)	Longitude (°W)	Flow (m ³)	Comments
1	18:16	0-500	49°09.568	130°57.769	122	
2	18:35	500-325	49°09.473	130°57.035	20	
3	18:40	325-200	49°09.451	130°56.867	99	
4	18:47	200-100	49°09.415	130°56.592	54	
5	18:51	100-0	49°09.396	130°56.438	29	

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:

MULTINET 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:

MOCNESS Log Sheet

Cruise: 2019-014

Station: MOC 01

Date: 2019 JUL 22

Event #: 30

Local Time: 0900

Area: EXPLORE SEAMOUNT

CTD #: _____

Bottom Depth: 2052

Project: SEAMOUNTS

NET	UTC Time	Depth Range (m)	Latitude (°N)	Longitude (°W)	Flow (m ³)	Comments
0	15:02	0-750	48°57.013	130°56.920	42	SCINT VIAL 0
1	15:29	750-500	48°56.761	130°57.695	82	SCINT VIAL 1
2	15:36	500-400	48°56.666	130°57.943	44	
3	15:40	400-200	48°56.656	130°57.995	74	
4	15:45	200-100	48°56.624	130°58.118	35	
5	15:48	100-0	48°56.602	130°58.179	35	-DISCARDED 1 AEG

Comments: Removed some animals from net D+1 into ethanol.

Cruise: 2019-014

Station: MOC 02

Date: 2019 JUL 25

Event #: 45

Local Time: 16:00

Area: UNI SEAMOUNT

CTD #: _____

Bottom Depth: 950

Project: SEAMOUNTS

NET	UTC Time	Depth Range (m)	Latitude (°N)	Longitude (°W)	Flow (m ³)	Comments
0	23:02	0-800	47°33.922	130°18.687	52	
1	23:27	800-600	47°33.220	130°19.276	54	
2	23:31	600-400	47°33.080	130°19.399	106	
3	23:37	400-300	47°32.930	130°19.509	61	
4	23:41	300-50	47°32.845	130°19.570	146	
5	23:50	50-0	47°32.641	130°19.742	23	

Comments: _____

MOCNESS Log Sheet

Cruise: 2019-014 Station: 19003 Date: 2019-07-26
 Event #: 52 Local Time: _____ Area: SPRINGFIELD SMT
 CTD #: _____ Bottom Depth: 2485 Project: SEAWANT

NET	Time	Depth Range (m)	Latitude (°N)	Longitude (°W)	Flow (m³)	Comments
0	14:24	0-1000	48° 05.821	130° 07.537	75	
1	14:49	1000-750	48° 05.334	130° 08.260	67	SCINT VILLS 2,3,4
2	14:54	750-400	48° 05.241	130° 08.400	128	
3	15:03	400-250	48° 05.103	130° 08.601	66	
4	15:07	250-100	48° 05.027	130° 08.713	62	
5	15:11	100-0	48° 05.953	130° 08.821	39	

Comments:

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

NET	Time	Depth Range (m)	Latitude (°N)	Longitude (°W)	Flow (m³)	Comments

Comments:

DEBITMENTS 2019

STATION	START FL	END FL	EST. DEBIT	CASH DEBIT	L
ES01	63742	65769	870	250	
ES01	65769	72225	925	850	
ES06	72225	74290	2045	250	0
ES07	74310	76500		250	5
ES16	76508	78255		250	0
ES17	78255	79922		250	
ES28	79925	82249	1422	250	10
		82180			
	82440			250	10
ES23	82180	84050			
ES23	84050	98250		2000	0
ES24	98250	100155		250	0
ES15	101862	104708		250	0
ES24	104708	107312		250	30
ES13	107312	110632		250	30
UN10	110632	112300		250	0
ES10	112300	114165		250	5
UN01	114165	116551		250	5
UN06	116551	117960		250	5
SP01	117960	120055		250	0
SP02	120956	122835		250	0
HS03	120956	124874		250	10
HS01	124875	126851		250	0

Rite in the Rain

