



Plankton Net Tow Log Sheet

Cruise #: 2017-36 Vessel: Tully Page: 1

Project(s): Seamounts Contact: Chelsea Stanley

TSK Serial #: 4794 RBR serial #: NA

Time offset = + 7

hrs = UTC (please record local time for samples)

Date: 22 JUL 17 Station: US44 Time: 0153 LOCAL

Net Event # 07 CTD # 08

Latitude: 49° 34.890 N Longitude: 132° 47.844 W

deg min.dec deg min.dec

Wire out: 250 Wire angle: 0 Bottom Depth: 1974

Net Type: Bongo Tow Type: VNH

Flow start Flow end Flow = frozen

15160 16828 Non-flow = pickled

Notes: Strong current (inboard/stbd leads); Limocina sample taken
1 Pyrosoma (frozen in whirl pack) removed from non-flow side

Date: 22 JUL 17 Station: US46 Time: 0529 LOCAL

Net Event # 10 CTD # 10

Latitude: 49° 32.437 N Longitude: 132° 43.909 W

deg min.dec deg min.dec

Wire out: 250 Wire angle: 0 Bottom Depth:

Net Type: Bongo Tow Type: VNH

Flow start Flow end Flow = frozen

16828 18640 Non-flow = pickled

Notes: strong current (outboard/stbd lead)

Date: 22 JUL 17 Station: US48 Time: 1958 LOCAL

Net Event # 14 CTD # 15

Latitude: 49° 30.834 N Longitude: 132° 41.447 W

deg min.dec deg min.dec

Wire out: 250 Wire angle: 0 Bottom Depth: 1175

Net Type: Bongo Tow Type: VNH

Flow start Flow end Flow = frozen

18640 20925 Non-flow = pickled

Notes: Non-flow side net changed after this cast (ripped)

Date: 22 JUL 17 Station: US50 Time: 2322 LOCAL

Net Event # 17 CTD # 18

Latitude: 49° 29.957 N Longitude: 132° 39.963 W

deg min.dec deg min.dec

Wire out: 250 Wire angle: 0 Bottom Depth: 1707

Net Type: Bongo Tow Type: VNH

Flow start Flow end Flow = frozen

20925 22880 Non-flow = pickled

Notes: Post lead for last ~60m.

NO RBR

NO RBR

NO RBR

NO RBR

start of cast; not
start of sampling

at bottom -
Start of sample
(will report this for
remainder of
survey)



Plankton Net Tow Log Sheet

Cruise #: 2017-36 Vessel: Tully Page: 2

Project(s): Seamounts Contact: Chokea Stanley

TSK Serial #: 4794 RBR serial #: NA

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

Date: 23 JUL 17	Station: US53	Time: 03 35	LOCAL
Net Event # 20	CTD # 21		
Latitude: 49 23.605 N	Longitude: 132 30.364 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0	Bottom Depth: 3097	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
22880	24695	Non-flow = pickled	
Notes: Limocina sample taken;			

Date: 23 JUL 17	Station: US34	Time: 19 44	LOCAL
Net Event # 23	CTD # 24		
Latitude: 49 32.798 N	Longitude: 132 41.426 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0	Bottom Depth: 369	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
24695	25582	Non-flow = pickled	
Notes: Pickled sample label says mesh = 336 ... should be 236µm. Sorry!			

Date: 24 JUL 17	Station: US36	Time: 00 20	LOCAL
Net Event # 28	CTD # 27		
Latitude: 49 35.131 N	Longitude: 132 39.821 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0	Bottom Depth: 1463	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
25582	27065	Non-flow = pickled	
Notes:			

Date: 24 JUL 17	Station: US39	Time: 03 39	LOCAL
Net Event # 30	CTD # 31		
Latitude: 49 43.437 N	Longitude: 132 34.609 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0	Bottom Depth: 2384	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
27065	28530	Non-flow = pickled	
Notes:			

US29 → 49.28.882 132 44.053

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Plankton Net Tow Log Sheet

Cruise #: 2017-36 Vessel: Tully Page: 3

Project(s): Seamounts Contact: Chelsea Stanley

TSK Serial #: 4794 RBR serial #: 79110

Time offset = +

hrs = UTC (please record local time for samples)

Date: 24 JUL 17 Station: US31 Time: 20 25 LOCAL

Net Event # 33 CTD # ~~34~~ 36Latitude: 49 30.082 N Longitude: 132 43.311 W
deg min.dec deg min.dec

Wire out: 250 Wire angle: 00 Bottom Depth: 1072

Net Type: BONGO Tow Type: VNH

Flow start Flow end Flow = frozen

28530 29855 Non-flow = pickled

Notes: Winch stopped on downcast to fix significant forward lead. (43m @ 25m?); 1 pyrosome removed from frozen (FM side) sample (frozen separate)

Date: 24 JUL 17 Station: US29 Time: 22 39 LOCAL

Net Event # 35 CTD # ~~36~~ 37Latitude: 49 28.848 N Longitude: 132 44.082 W
deg min.dec deg min.dec

Wire out: 250 Wire angle: 0 Bottom Depth: 1548

Net Type: BONGO Tow Type: VNH

Flow start Flow end Flow = frozen

29862 31528 Non-flow = pickled

Notes: Note change in CTD #. 2 jar label not corrected. and end FM reading (Frozen label is correct.)

Date: 25 JUL 17 Station: US27 Time: 01 26 LOCAL

Net Event # 38 CTD # 39

Latitude: 49 21.543 N Longitude: 132 48.896 W
deg min.dec deg min.dec

Wire out: 250 Wire angle: 0 Bottom Depth: 3167

Net Type: BONGO Tow Type: VNH

Flow start Flow end Flow = frozen

31528 33061 Non-flow = pickled

Notes:

Date: 25 JUL 17 Station: US40 Time: 06:14 LOCAL

Net Event # 40 CTD # 41

Latitude: 49 40.760 N Longitude: 132 57.220 W
deg min.dec deg min.dec

Wire out: 250 Wire angle: Bottom Depth: 3237

Net Type: BONGO Tow Type: VNH

Flow start Flow end Flow = frozen

33061 33905 Non-flow = pickled

Notes: Low FM reading - unknown cause. Jellyfish tentacles covered FM side net.

- FROZEN SIDE Full of Sargassum - one removed for photography & then put in pickled side.

RBR

RBR

RBR

RBR



Plankton Net Tow Log Sheet

Cruise #: 2017-36 Vessel: TULLY Page: 4

Project(s): Seamounts Contact: Chelsea Stanley

TSK Serial #: 4794 RBR serial #: 79110

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

Date: 25 JUL 17	Station: CS01	Time: 2334	LOCAL
Net Event # 45	CTD # 44		
Latitude: 49 52.394 N	Longitude: 132 09.734 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0	Bottom Depth: 2154	
Net Type: BONGO	Tow Type: VNH		
Flow start: 33905	Flow end: 35833	Flow = frozen	
		Non-flow = pickled	

Notes:

Date: 26 JUL 17	Station: CS02	Time: 0027	LOCAL
Net Event # 46	CTD # 47		
Latitude: 49 53.111 N	Longitude: 132 07.023 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0	Bottom Depth: 1154	
Net Type: BONGO	Tow Type: VNH		
Flow start: 36600	Flow end: 38230	Flow = frozen	
		Non-flow = pickled	

Notes: Station keeping issues: wire angle > 30° on downcast, first attempt aborted, nets reset & cast restarted; 2 pyrosomes from aborted cast bulk frozen; 2 pyrosomes from actual cast bulk frozen; limocina sample to

Date: 26 JUL 17	Station: CS03	Time: 0238	LOCAL
Net Event # 48	CTD # 49		
Latitude: 49 53.617 N	Longitude: 132° 05.045 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0	Bottom Depth: 1919	
Net Type: BONGO	Tow Type: VNA		
Flow start: 38230	Flow end: 39865	Flow = frozen	
		Non-flow = pickled	

Notes: 3 1/2 pyrosomes frozen bulk; limocina sample taken; Crab from FM side moved to pickled sample for taxonomy

Date: 26 JUL 17	Station: DS05	Time: 2039	LOCAL
Net Event # 51	CTD # 52		
Latitude: 50 42.912 N	Longitude: 130 51.854 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: ~15°	Bottom Depth: 993	
Net Type: BONGO	Tow Type: VNH		
Flow start: 40158	Flow end: 42092	Flow = frozen	
		Non-flow = pickled	

Notes: Fairly consistent wire angle on upcast (~15-20°); swell ~1.5m



Plankton Net Tow Log Sheet

Cruise #: 2017-36 Vessel: TULLY Page: 5

Project(s): Seamounts Contact: Chelsea Stanley

TSK Serial #: 4794 RBR serial #: 79110

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

Date: 26 JUL 17	Station: DS04	Time: 2239	LOCAL
Net Event # 53	CTD # 54		
Latitude: 50 44.481 N	Longitude: 130 53.512 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0	Bottom Depth: 572	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
42092	44145	Non-flow = pickled	

Notes:

RBR

Date: 27 JUL 17	Station: DS03	Time: 0011	LOCAL
Net Event # 55	CTD # 56		
Latitude: 50 46.009 N	Longitude: 130 55.031 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: ~15°	Bottom Depth: 1077	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
44145	46105098	Non-flow = pickled	

Notes: limocina taken: one sea louse (lep?) moved from frozen sample to pickle for taxonomy; Jar & frozen sample label event #'s are wrong (45/46 inst & 55/56)

RBR

Date: 27 JUL 17	Station: DS02	Time: 0149	LOCAL
Net Event # 57	CTD # 58		
Latitude: 50° 47.430 N	Longitude: 130° 56.167 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 0	Bottom Depth: ~2250	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
46098	47360	Non-flow = pickled	

Notes: sounder not functioning - bottom depth estimated from picture output. Larval fish moved from frozen sample to pickle (for J. Chu photo ops).

RBR

Date: 27 JUL 17	Station: DS01	Time: 04:30	LOCAL
Net Event # 59	CTD # 60		
Latitude: 50° 53.148 N	Longitude: 131° 01.704 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 15-20°	Bottom Depth: 2560 m	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
47364	49000	Non-flow = pickled	

Notes: limocina taken; wire angle growing on upcast to about 15-20° by the surface. Clio moved from frozen to pickle (for J. Chu photo op).

RBR



Plankton Net Tow Log Sheet

Cruise #: 2017-36 Vessel: TULLY Page: 6

Project(s): seamounts Contact: Chelsea Stanley

TSK Serial #: 4794 RBR serial #: 79110

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

Date: 28 JUL 17	Station: DS13	Time: 00 02	LOCAL
Net Event # 63	CTD # 64/65		
Latitude: 50° 36.101 N	Longitude: 131° 05.811 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: ϕ	Bottom Depth: 2555	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
51000	52675	Non-flow = pickled	

Notes:

Date: 28 JUL 17	Station: DS12	Time: 05 35	LOCAL
Net Event # 66	CTD # 67		
Latitude: 50° 41.395 N	Longitude: 130° 57.592 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: -20°	Bottom Depth: 2113	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
52675	54577	Non-flow = pickled	

Notes:

Date: 28 JUL 17	Station: DS08	Time: 21 06	LOCAL
Net Event # 70	CTD # 71		
Latitude: 50° 49.623 N	Longitude: 130° 45.980 W		
deg min.dec	deg min.dec		
Wire out: 250	Wire angle: 15-20°	Bottom Depth: 2418	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
54645	56664	Non-flow = pickled	

Notes: Wind ~30 kts, seas building. Wire angle steady 15-20° on upcast

Date: 29 JUL 17	Station: DS08	Time: 21 14	LOCAL
Net Event # 76	CTD # 77		
Latitude: 49° 50.111 N	Longitude: 131° 01.595 W		
deg min.dec	deg min.dec		
Wire out: 2000	Wire angle:	Bottom Depth: 2760	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
64 658	76105	Non-flow = pickled	

Notes:

Moderate swell - towing at surface for first minute of cast; variable wire angle on downcast

MULTINET Log Sheet

Cruise: 2017-36 Station: MOC 01 Date: 21 JUL 2017
 Event #: 3 Local Time: 0524 Area: Union Seamount
 CTD #: — Bottom Depth: 460 Project: Seamounts

NET	Time	Depth Range (m)	Latitude (°N)	Longitude (°W)	Flow (m ³)	Comments
0	5:24	0-300	49°31.493	132°42.203	26	
1	5:35	300-250	49°31.470	132°42.230	13	
2	5:37	250-200	49°31.427	132°42.263	18	
3	5:39	200-100	49°31.399	132°42.288	37	
4	5:42	100-50	49°31.350	132°42.331	24	
5	5:44	50-0	49°31.295	132°42.376	28	

Comments: REMOVED 10 PYROSOMES TO FREEZE.

-DOLIOLIDS, PYROSOMES, LARVAL FISH

Cruise: 2017-36 Station: MOC02/US35 Date: 23 JUL 2017
 Event #: 34 Local Time: 2200 Area: Union Seamount
 CTD #: — Bottom Depth: 870-1317 Project: Seamounts

NET	Time	Depth Range (m)	Latitude (°N)	Longitude (°W)	Flow (m ³)	Comments
0	2200	0-500	49°34.050	132°40.692	84	
1	2221	500-400	49°34.822	132°40.142	44	
2	2224	400-300	49°34.908	132°40.058	103	
3	2232	300-200	49°34.909	132°39.963	27	
4	2235	200-50	49°34.873	132°39.955	26	
5	2237	50-0	49°34.860	132°39.907		

Comments: REMOVED 7 PYROSOMES
 REMOVED 2 AREA FROM NETS.

MULTINET Log Sheet

Cruise: 2017-36 Station: MOC03/CS01 Date: 25 JUL 2017
 Event #: 43 Local Time: 2040 Area: Curtis Seamount
 CTD #: 44/47 Bottom Depth: 1125 Project: Seamounts

NET	Time	Depth Range (m)	Latitude (°N)	Longitude (°W)	Flow (m ³)	Comments
0	2040	0-500	49°52.970	132°06.950	34	
1	2048	500-400	49°52.870	132°07.330	26	
2	2050	400-300	49°52.840	132°07.440	31	
3	2052	300-200	49°52.810	132°07.550	37	
4	2054	200-50	49°52.780	132°07.640	90	
5	2058	50-0	49°52.690	132°07.920	41	

Comments: REMOVED 3 PURSOMES FROM NET 4

Cruise: 2017-36 Station: MPS01/CS13 Date: 27 JUL 2017
 Event #: 62 Local Time: 2047 Area: Dellwood Seamount
 CTD #: 64 Bottom Depth: 2527 Project: Seamounts

NET	Time	Depth Range (m)	Latitude (°N)	Longitude (°W)	Flow (m ³)	Comments
1	2152	2000-1000	50°33.485	131°03.369		
2		1000-500	50°	131°		
3		500-300				
4		300-100				
5		100-0				

Comments:

*battery failed
no samples*

MULTINET Log Sheet

Cruise: 2017-36 Station: MOCO4/1504 Date: 28 JUL 2017
 Event #: 68 Local Time: 0746 Area: Dellwood Seamount
 CTD #: 54 Bottom Depth: 1195 Project: Seamounts

NET	Time	Depth Range (m)	Latitude (°N)	Longitude (°W)	Flow (m³)	Comments
0	0746	0-500	50°42.806	130°55.740	106	
1	0809	500-350	50°42.096	130°56.759	89	
2	0815	350-300	50°41.939	130°56.989	17	
3	0817	300-200	50°41.893	130°57.052	57	
4	0820	200-50	50°41.792	130°57.188	119	
5	0827	50-0	50°41.600	130°57.424	32	

Comments:

Cruise: 2017-36 Station: MOCO5 Date: 29-Jul-2017
 Event #: 75 Local Time: 1800 Area: LIN18 (UNNAMED SEAMOUNT)
 CTD #: DIVE 31 Bottom Depth: 1621 Project: SEAMOUNTS

NET	Time	Depth Range (m)	Latitude (°N)	Longitude (°W)	Flow (m³)	Comments
0	1800	0-500	49°56.3140	130°54.7688	42	
1	1817	500-400	49°55.775	130°55.017	35	
2	1820	400-300	49°55.719	130°55.123	51	
3	1823	300-200	49°55.660	130°55.256	54	
4	1826	200-50	49°55.607	130°55.394	89	
5	1830	50-0	49°55.526	130°55.595	38	

Comments:

45° starboard lead on east

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: