



Plankton Net Tow Log Sheet

Cruise #: 2022008 Vessel: TULLY Page: 1

Project(s): LINE P Contact: MOIRA

TSK Serial #: 3702 RBR serial #: 18976

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

Date: 11-08-22	Station: HARO 59	Time: 01:07	LOCAL
Net Event # 3	CTD # 2		
Latitude: 48 36 82 N	Longitude: 123 18 1106 W		
deg min.dec	deg min.dec		
Wire out: 224 m	Wire angle: 45°	Bottom Depth: 234 m	
Net Type: BONGO	Tow Type: VNH?	ONH	
Flow start 89371	Flow end 91620	Flow = frozen	
		Non-flow = pickled	

Notes: 30 PLEUROBRACHIA S3 → ALASTAIR UBC

Date: 11-08-22	Station: JF2	Time: 0628	LOCAL
Net Event # 5	CTD # 15	1328 UTC	
Latitude: 48 18.04 N	Longitude: 124 00.10 W		
deg min.dec	deg min.dec		
Wire out: 175	Wire angle: 45	Bottom Depth: 185	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
91620	94478	Non-flow = pickled	

Notes:

Date: 11-08-22	Station: P2	Time: 20:28	LOCAL
Net Event # 14	CTD # 15		
Latitude: 48° 35.971 N	Longitude: 125° 59.970 W		
deg min.dec	deg min.dec		
Wire out: 106	Wire angle: 30°	Bottom Depth: 116	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
93478	94220	Non-flow = pickled	

Notes: 62 Euphrosyne pacifica → Alastair UBC
1 Octopus released (Pics w/ Alastair) OCTRU 52

Date: 12-08-22	Station: P4	Time: 0438	LOCAL
Net Event # 29	CTD # 18		
Latitude: 48 39.02 N	Longitude: 126 39.98 W		
deg min.dec	deg min.dec		
Wire out: 2500	Wire angle: 95° 28	Bottom Depth: 1312	
Net Type: BONGO	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
94220	95928	Non-flow = pickled	

Notes: Eucalanus burgii ♀
18 Paracalanus elongatus → Alastair UBC
(12 ♀) → 54 Neocalanus cristatus ✓
25 FORMALIN SIDE



Plankton Net Tow Log Sheet

Cruise #: 2022004 Vessel: JPTULLY Page: 2

Project(s): LINE P Contact: M. D. R. A.

TSK Serial #: RBR serial #:

Time offset = +

hrs = UTC (please record local time for samples)

Date: 12-04-22 Station: P4 Time: 05:55 LOCAL

Net Event # 20 CTD # 18

Latitude: 48° 39.01' N Longitude: 126° 39.98' W
deg min.dec deg min.dec

Wire out: 1200 Wire angle: 0 Bottom Depth: 1309

Net Type: BONGO Tow Type: VNH

Flow start Flow end Flow = frozen

95928 103975 Non-flow = pickled

Notes: Removed 12x Ctenophores, 1x Spumellaria, 1x Conchoidal -> FROZEN
81 Neocalanus cristatus -> Alastair UBC.

Date: 13-08-22 Station: P8 Time: 0401 LOCAL

Net Event # 31 CTD # 30

Latitude: 48° 48.97' N Longitude: 128° 39.97' W
deg min.dec deg min.dec

Wire out: 250 Wire angle: 0 Bottom Depth: 2513

Net Type: BONGO Tow Type: VNH

Flow start Flow end Flow = frozen

3975 5525 Non-flow = pickled

Notes: 4 Neocalanus cristatus RED Alastair + 2 Doliolids RED DORGE
16 Neocalanus cristatus GREEN, Alastair

Date: 13-08-22 Station: P8 Time: 0500 LOCAL

Net Event # 32 CTD # 33

Latitude: 48° 48.96' N Longitude: 128° 40.04' W
deg min.dec deg min.dec

Wire out: 1200 Wire angle: 0 Bottom Depth: 2513

Net Type: BONGO Tow Type: VNH

Flow start Flow end Flow = frozen

5525 12048 Non-flow = pickled

Notes: 61 N. cristatus RED -> Alastair.

Date: 14-08-22 Station: P12 Time: 0159 LOCAL

Net Event # 40 CTD # 39

Latitude: 48° 58.19' N Longitude: 130° 39.98' W
deg min.dec deg min.dec

Wire out: 250 Wire angle: 0 Bottom Depth: 3219

Net Type: BONGO Tow Type: VNH

Flow start Flow end Flow = frozen

12048 14075 Non-flow = pickled

Notes: 2 Themisto pacifica GREEN
81 N. cristatus
3 Euphausia pacifica
10 Themisto pacifica
-> RED -> Alastair removed

Plankton Net Tow Log Sheet

Cruise #: 2022008 Vessel: R/V Tuna Page: 3

Project(s): LINE P **Contact:** MORRA

TSK Serial #: RBR serial #:

Time offset = +

hrs = UTC (please record local time for samples)

Date: 14.08.02	Station: P12	Time: 0244	LOCAL	TIME BOTTOM
Net Event # 41	CTD # 39			LAT / LONG
Latitude: 48 58.18 N	Longitude: 130 39.98 W			
deg min.dec	deg min.dec			

Wire out: 1200	Wire angle: 0	Bottom Depth: 3219
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Net Type: <i>RONG</i>	Tow Type: <i>VNH</i>
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Flow start	Flow end	Flow = frozen
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14075	23229	Non-flow = pickled
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Notes: removed 30 castenidae, 1 spimelaia, 1 chalanguridae (ethanol side)
 MIC
 CHVIA
 1 spimelona + 1 chalanguridae (formalin side)

Date: 15-08-2022	Station: P/H	Time: 1128	LOCAL
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Net Event # 54	CTD # 53
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Latitude:	49	17.03	N	Longitude:	134	40.0	W
	deg	min.dec			deg	min.dec	

Wire out: 250	Wire angle: 5	Bottom Depth: 3609
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Net Type: RONGUO	Tow Type: UNH
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Flow start	Flow end	Flow = frozen
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23229	24881	Non-flow = pickled
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Notes: (23 *N. cristatus* RED → Alston 4 *Th. pacific* GREEN → Alston.

Date: 15.08.22	Station: P16	Time: 1225	LOCAL
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Net Event #	55	CTD #	53
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Latitude: 49	17.01	N	Longitude: 134	39.99	W
deg	min.dec		deg	min.dec	

Wire out: 1200	Wire angle:	Bottom Depth: 3609
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Net Type: BONGTO	Tow Type: VNH
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Flow start	Flow end	Flow = frozen
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24831	33359	Non-flow = pickled
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Notes: 2x *Hyadenora* 7x *Themisto pacific* 33x *Eucalanus tangii* 8x *Themisto* (KEI)
3x *Euphausia chalybeata* 46x *N. cristatus* 2x *Euphausia*
2x *Anteuchoch rubra* 79x *N. plumosus* GREEN } Alastair
5x *Euphausia pacifica* } Alastair

Date: 17.08.22	Station: P20	Time: 01:59	LOCAL
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Net Event #	69	CTD #	68
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Latitude:	49	34.02	N	Longitude:	138	39.96	W
	deg	min dec			deg	min dec	

Wire out: 250	Wire angle: 0	Bottom Depth: 3932
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Net Type: BONGAO	Tow Type: VNH
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Flow start	Flow end	Flow = frozen
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33359	35 449	Non-flow = pickled
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Notes: 8x *T. insipida* - RED
2x *T. insipida* - GREEN
5x *T. pastica* - RED
5x *T. pastica* - GREEN

Alastair, UBC



Plankton Net Tow Log Sheet

Cruise #: 2022008 Vessel: JPTVU Page: 4

Project(s): LINE P Contact: MOIRA

TSK Serial #: RBR serial #:

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

Date: 17.08.22 Station: P20 Time: 0251 LOCAL

Net Event # 70 CTD # 68

Latitude: 49 34.02 N Longitude: 138 39.98 W
deg min.dec deg min.dec

Wire out: 200 Wire angle: 0 Bottom Depth: 3932

Net Type: BOWGO Tow Type: VNH

Flow start Flow end Flow = frozen

35449 43988 Non-flow = pickled

Notes: 15 CLAW & (lost Flow COD END)

(GREEN) 70x N. cristatus 40x N. plumchris 10x T. insipida 10x T. pacific

Date: 19.08.22 Station: P26 Time: 0130 LOCAL

Net Event # 85 CTD # 84

Latitude: 49 59.97 N Longitude: 145 00.08 W
deg min.dec deg min.dec

Wire out: 250 Wire angle: 0 Bottom Depth: 4210

Net Type: BOWGO Tow Type: VNH

Flow start Flow end Flow = frozen

43989 45610 Non-flow = pickled

Notes: (RED) - 2 Clione limacina - 4 Thysanoessa insipida (GREEN) - 1 Clione limacina

- 8 Pseudosquilla elongata - 4 Thysanoessa pac. - 1 Gephyrocaris challengerii - 8 T. pacific - 2 Th. insipida

Date: 19.08.22 Station: P26 Time: 0327 LOCAL

Net Event # 86 CTD # 84

Latitude: 4 50 00.01 N Longitude: 145 00.12 W
deg min.dec deg min.dec

Wire out: 1200 Wire angle: 0 Bottom Depth: 4209

Net Type: BOWGO Tow Type: VNH

Flow start Flow end Flow = frozen

45610 52112 Non-flow = pickled

Notes: RELEASE / NOTJA 53 (GREEN) - 23 N. plumchris - 6 E. bungii - 1 P. rubra

- 2 Th. insipida - 3 P. elongata - 2 Hymenodora sp. - 35 N. cristatus - 2 T. insipida - 2 Hymenodora sp.

Date: 20.08.22 Station: P26 Time: 0924 LOCAL

Net Event # 95 CTD # 92

Latitude: 50 0.04 N Longitude: 145 0.21 W
deg min.dec deg min.dec

Wire out: 400 Wire angle: 0 Bottom Depth: 4221

Net Type: BOWGO Tow Type: VNH

Flow start Flow end Flow = frozen

52110 54668 Non-flow = pickled

Notes: 6 Euphausia pacific, 4 Euphausia pacific

(RED) (GREEN) → Alaskan, UBC.

→ UVIC → 12 challengeri

→ UVIC → 12 challengeri

→ UVIC → 12 challengeri

→ UVIC → 12 challengeri

WIC
01. via toad
7 Spumellaria
2 Castanellidae
17 Chelonicidae
1 Annelididae

1x Hymenodora sp.
1x Pseudosquilla
7x T. pacific
5x P. rubra
3x Gephyrocaris
bravivestus

to Alaskan
- 1 Euphausia
pacifica
- 8 Pseudosquilla
elongata - 4 Thysanoessa
pac.

to Alaskan
ED: - 40 N. cristatus
2 Th. insipida
2 T. pacific
8 E. bungii
19. N. plumchris

UVIC
56 challengeri
5 spumellaria
31 castanellidae
8 annelididae
1 tunicatidae
1 granchordae

lots of
AEG 30 → 40cm

to Alaskan
- 6 P. elongata

lots of
AEG

to Alaskan

lots of
AEG



Plankton Net Tow Log Sheet

Cruise #: 2022008 Vessel: JOTULLY Page: 5

Project(s): LINE P

Contact: MORA

TSK Serial #:

RBR serial #:

Time offset = +

hrs = UTC (please record local time for samples)

Date: 23.08.22	Station: Hal	Time: 11:24	LOCAL
Net Event # 103	CTD # 102		
Latitude: 50° 59.88	N	Longitude: 130° 00.17	W
deg min.dec		deg min.dec	
Wire out: 400	Wire angle: 0	Bottom Depth: 2018	
Net Type: Bongo	Tow Type: VNH		
Flow start	Flow end	Flow = frozen	
54668	57229	Non-flow = pickled	
Notes: 30 Centropages, 35 Acartia spp., 40 Pseudocalanus → LIPIDS			

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: 2022008 Station: P4 Date: 2022-08-12
 Event #: 29 Local Time: 0950 Area: OFF LAPEIROUSE
 CTD #: 24 Bottom Depth: 1319 Project: Line P

VOLT
8.5

NET	Time	Depth Range (m)	Latitude (°N)	Longitude (°W)	Flow (m ³)	Comments
1	17h28	1200-1000	48°39.07	126°40.059	30	VOLT 7.4
2	17h34	1000-750	48°39.09	126°40.04	30	VOLT 7.3
3	17h40	750-500	48°39.09	126°40.04	29	VOLT 7.4
4	17h45	500-250	48°39.10	126°40.04	34	VOLT 7.5
5	17h50	250-0	48°39.12	126°40.00	36	VOLT 7.5
						VOLT 8.1 (END)

Comments:

Cruise: 2022008 Station: P12 Date: 14.08.22
 Event #: 45 Local Time: 0756 Area: EXPLORESSEA MOUNT
 CTD #: 39 Bottom Depth: 3217 Project: LINE P

CHANGE

9.5v

NET	Time	Depth Range (m)	Latitude (°N)	Longitude (°W)	Flow (m ³)	Comments
1	0915	2600-1500	48 58.14	130 40.03	73	8.2v
2	0924	1500-1000	58.14	40.06	59	7.7
3	0933	1000-500	58.15	40.04	60	7.7
4	0941	500-250	58.16	40.00	31	7.3
5	0945	250-0	58.16	39.98	35	7.8
						8.3

Comments:

MULTINET Log Sheet

Cruise: 2022008 Station: P20 Date: 17.08.22
 Event #: 73 Local Time: 0822 Area: S OF PETER'S RIDGE
 CTD #: 68 Bottom Depth: 3933 Project: LINE P

NET	Time	Depth Range (m)	Latitude (°N)	Longitude (°W)	Flow (m ³)	Comments
1	0935	1500-2000	49 33.73	138 39.89	76	7.6
2	0942	1000-1500	33.72	39.85	59	7.6
3	0951	500-1000	33.71	39.88	57	7.7
4	0959	500-250	33.68	39.87	31	7.7
5	1003	250-0	33.65	39.86	34	7.7
						8.3

Comments:

Cruise: 2022008 Station: P26 Date: 19.08.22
 Event #: 88 Local Time: 1429 Area: STN PAPA
 CTD #: 84 Bottom Depth: 4210 Project: LINE P 8.9v

NET	Time	Depth Range (m)	Latitude (°N)	Longitude (°W)	Flow (m ³)	Comments
1	0913	3000 - 2000	50 00.03	144 59.93	144	8.3 ✓
2	0930	2000 - 1000	00.04	59.90	121	7.6
3	0946	1000 - 500	00.06	59.86	64	7.7
4	0954	500 - 250	00.07	59.83	33	7.6
5	0958	250 - 0	00.07	59.81	37	7.7
						8.2

Comments:

STN	DEPTH		FLOW METER		WIRE L°
	BOTTOM	NET	START	END	
W2059	234	224	89371	91620	45
JF2	185	175	91620	94478	45
P2	106	106	93478	94220	30
P4	1312	²³⁰ 1301	94220	95928	0°
P4	1309	1200	95928	003975	0
P8	2513	250	003975	05525	0°
P8	2512	1200	05525	12048	0°
P12	3219	250	12048	14075	0
P12	3219	1200	14075	23229	0°
P16	3608	250	23229	24831	5
	3609	1200	24831	33359	0
P20	3932	250	33359	35449	0
		1200	35449	43988	0
P26	4210	250	43989	45610	0
		1200	45610	52112	0
P26	4221	400	52110	54668	0
H21	2018	400	54668	57229	0