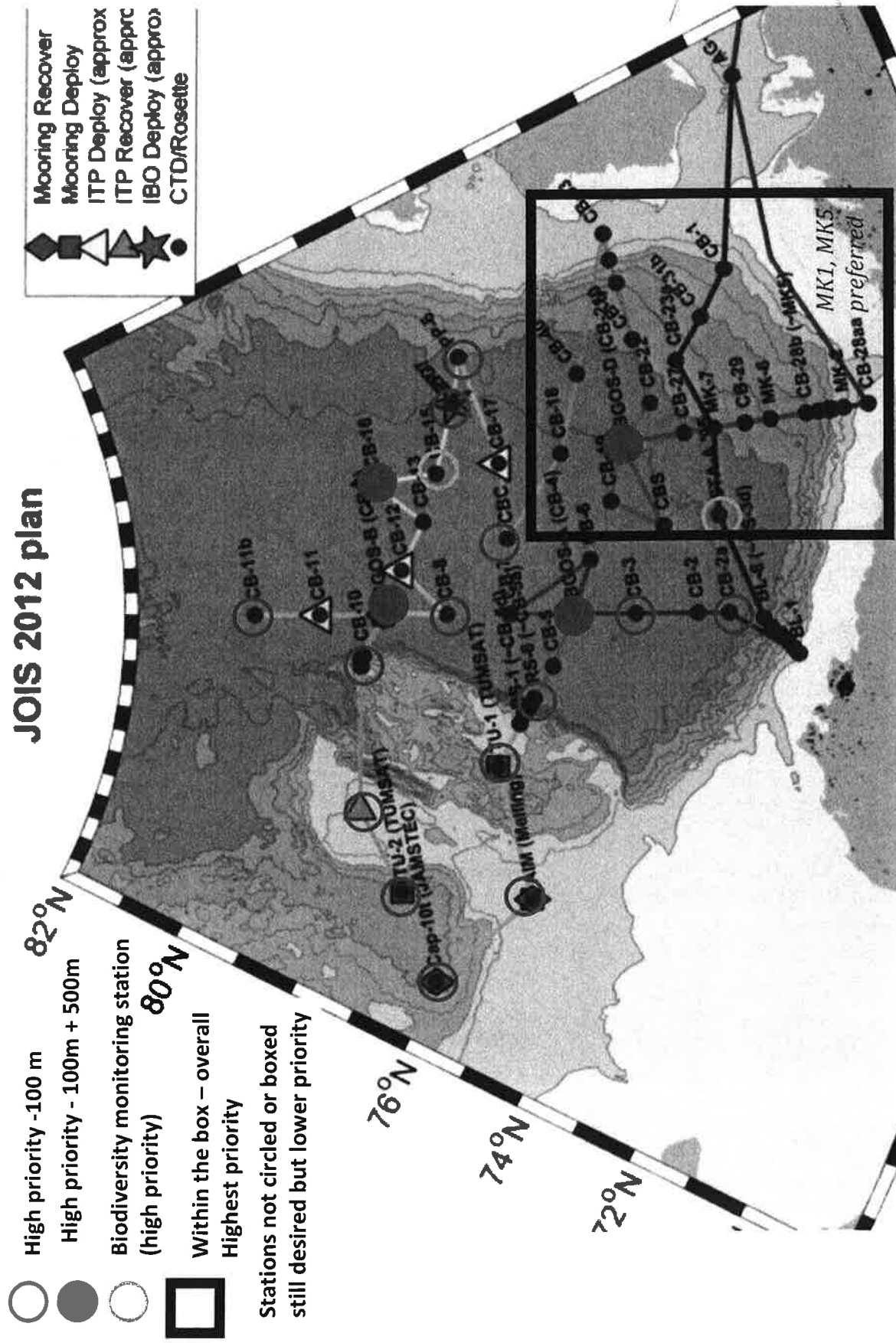


Mooring Recover
Mooring Deploy
ITP Deploy (approx)
ITP Recover (approx)
IBO Deploy (approx)
CTD/Rosette





Plankton Net Tow Log Sheet

Survey #: 2012-11 Vessel: LSSL Page: 1
Project(s): JOIS Contact: Kelly

Date: 5 Aug 2012 Station: AG5 Time: 15:53 local Mountain
Net Event # 1 CTD # 2 Time: UTC

Latitude: 70 33 455 N Longitude: 122 54 927 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 10 Bottom Depth: 635
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	150 μ m	SG 2	89376.2	89748.1	ETOH	
Net 2	236	TSK 5294	55849	55535	FORM	
Net 3	53	SG 1	40002.0	40384.8	FORM	> preserved together
Net 4	53	SG 3	00894.6	01226.7	FORM	

Additional Notes: wire angle 10°

Date: 6.8.2012 Station: CB1 Time: 9:05 local Mountain
Net Event # 2 CTD # 3 Time: UTC

Latitude: 71 46 175 N Longitude: 131 52 453 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 7° Bottom Depth: 1095
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	150	SG 2	89748.1	90301.0	FORM	
Net 2	236	TSK 5294	55535	56390	FORM	
Net 3	53	SG 1	40384.8	40783.6	FORM	>
Net 4	53	SG 3	01226.7	01597.3	FORM	

Additional Notes: wire angle 7°

Date: 6.8.2012 Station: CB1 Time: 9:30 local Mountain
Net Event # 3 CTD # 3 Time: UTC

Latitude: 71 46 092 N Longitude: 131 52 320 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 7° Bottom Depth: 1095
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	150	SG 2	90301.0	90686.4	ETOH	
Net 2	236	TSK 5294	56390	56780		
Net 3	53	SG 1	40783.6	41127.1	ETOH	>
Net 4	53	SG 3	01597.3	01849.8		

Additional Notes: wire angle 7°



Plankton Net Tow Log Sheet

Survey #: 2012-11

Vessel: L88L

Page: 2

Project(s): JOIS

Contact: Kelly Young

Date: 6 Aug 2012 Station: CB 316 Time: 15:10 local MNT
Net Event # 4 CTD # 4 Time: UTC

Latitude: 72 21.012 N Longitude: 134 0.33 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 5 Bottom Depth: 2050
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	150	#2	90686.4	91036.6	form	
Net 2	236	tsk	56780	57489		
Net 3	53	1	41127.1	41489.6		
Net 4	53	3	1848.8	2250.0		into jar

Additional Notes:

Date: 6 Aug 2012 Station: CB 316 Time: 15:42 local
Net Event # 5 CTD # 4 Time: UTC

Latitude: 72 21.085 N Longitude: 134 0.400 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 0 Bottom Depth: 2050
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	150	#2	91036.6	91370.4	froze-80	
Net 2	236	tsk	57489	57942	EtOH	
Net 3	53	1	41489.6	41865.8	EtOH	
Net 4	53	3	2250.0	2623.9		

Additional Notes:

Date: 6 Aug 2012 Station: CB 23a Time: 22:24 local
Net Event # 6 CTD # 5 Time: 07:24 UTC

Latitude: 72 50.746 N Longitude: 135 55.324 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 0 Bottom Depth: 2695
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	150	2	91370.4	91680.2	form	
Net 2	236	tsk	57942	58465		
Net 3	53	1	41865.8	42216.1		
Net 4	53	3	2623.9	2841.2		combined

Additional Notes:



Plankton Net Tow Log Sheet

Survey #: 2012-11 Vessel: LSSL Page: 3
Project(s): 2015 Contact: Kelly Young

Date: 6 Aug 2012 Station: CB 23a Time: 22:37 local
Net Event # 7 CTD # 5 Time: 4:37 UTC

Latitude: 72 50.720 N Longitude: 135 55.402 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 0 Bottom Depth: 2695
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	150	2	91680.2	92005.7	frozen	x picked cal ↓
Net 2	236	TSK	58465	58989		
Net 3	53	1	42216.1	42566.0		
Net 4	53	3	2841.2	3157.3		

Additional Notes:

Carlton picked 5 Calypso ♀, 10 Calappa ♀ from 150mm net

Date: 7 Aug 2012 Station: MK 7 Time: 7:16 local Mountain
Net Event # 8 CTD # 6 Time: 13:16 UTC

Latitude: 73 30.812 N Longitude: 140 0 268 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: Bottom Depth: 2987
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	150	2	92005.7	92513.0	form	
Net 2	236	TSK	58989	60094	form	
Net 3	53	1	42566.0	43003.5	form	
Net 4	53	3	3157.3	3559.1	form	

Additional Notes:

Very Windy / Fix lines to cod ends
one broke

Date: 7 Aug 2012 Station: MK 7 Time: 7:40 local Mountain
Net Event # 9 CTD # 6 Time: 13:40 UTC

Latitude: 72 30.812 N Longitude: 140 0 268 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: Bottom Depth: 2987
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	150	2	92513.0	93446.0	Frozen	
Net 2	236	TSK	60094	62345	ETO 4	
Net 3	53	1	43003.5	43709.3	ETO 4	
Net 4	53	3	3559.1	4082.1	ETO 4	

Additional Notes:

Very Windy



Plankton Net Tow Log Sheet

Survey #: 2012-11 Vessel: LSSL
Project(s): JOIS Contact:

Page: 4

Date: 7 Aug 2012 Station: Sta-9 Time: local
Net Event # 10 CTD # 8 Time: UTC

Latitude: deg min.dec N Longitude: deg min.dec W

Wire out: 100 Wire angle: Bottom Depth:
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk				
Net 2	150	2				
Net 3	53	1				
Net 4	53	3				

Additional Notes:

Cancelled due to wind.
Pl 8 - Cancelled due to wind

Date: 8 Aug 2012 Station: BL 6 Time: 12:46 local PAC
Net Event # 10 CTD # 8 Time: 18:46 UTC

Latitude: 71 40.067 N Longitude: 157 3.960 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 0 Bottom Depth: 1723
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
✓ Net 1	236	tsk5294	* 62345	61740	form	? start from last station but w/ change
Net 2	150	2	934460	938395		
Net 3	53	1	* 437095	14087.7		
Net 4	53	3	* 4082.1	4084.6		

Additional Notes: flow not taken at start of cast?

Date: 8 Aug 2012 Station: BL 6 Time: 12:09 local PAC
Net Event # 11 CTD # 8 Time: 19:09 UTC

Latitude: 71 39.950 N Longitude: 151 2.964 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 0 Bottom Depth: 1723
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk	61740	62341	EtoH	
Net 2	150	2	93839.5	94173.7	-8D	
Net 3	53	1	14087.7	14426.7	EtoH	
Net 4	53	3	4084.6	4474.9		

Additional Notes:

some wind



Plankton Net Tow Log Sheet

Survey #: 2012-11

Vessel: LSSL

Page: 5

Project(s): JOIS

Contact:

Date: 8 Aug 2012 Station: BL4 Time: local
Net Event # 12 CTD # 9 Time: 01:00 UTC

Latitude: 71 30.335 N Longitude: 151 38.878 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 0 Bottom Depth: 997
Net Type: B Tow Type: B VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk5294	62341	62900	form	
Net 2	150	2	94173.7	94494.2	J	
Net 3	53	1	14426.7	14744.7		
Net 4	53	3	4474.9	4688.8		

Additional Notes:

Date: 8 Aug 2012 Station: BL4 Time: local
Net Event # 13 CTD # 9 Time: 01:14 UTC

Latitude: 71 30.292 N Longitude: 151 38.440 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 0 Bottom Depth: 997
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk	62900	63375	EtOH	
Net 2	150	2	94494.2	94806.7	-80	
Net 3	53	1	44744.7	45073.0	> EtOH	
Net 4	53	3	4688.8	4808.8		

Additional Notes:

Carlton picked 10 cal CS's from 150um

Date: 8 Aug 2012 Station: BL1 Time: local
Net Event # 14 CTD # 11 Time: 6:14 UTC

Latitude: 71 20.80 N Longitude: 151 47.62 W
deg min.dec deg min.dec

Wire out: 75 Wire angle: 30 Bottom Depth: 85
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk	63375	63900	form	
Net 2	150	2	94806.7	95125.5	EtOH	
Net 3	53	1	45073.0	46461.8	> form	
Net 4	53	3	4808.8	5133.8		

Additional Notes:



Plankton Net Tow Log Sheet

Survey #: 2012-11 Vessel: LSSL

Page: 6

Project(s): 3015

Contact:

Date: 9.8.2012 Station: CB2A Time: local
Net Event # 15 CTD # 12 Time: 16:34 UTC

Latitude: 72° 28.871' N Longitude: 150° 0.404' W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 0 Bottom Depth: 3721
Net Type: BUNH Tow Type: UNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
✓ Net 1	236	tsk	63910	65585	form	most likely 64585
Net 2	150	2	95125.5	95476.6	↓	
Net 3	53	1	45460.8	45817.5	↓	
Net 4	53	3	5133.8	5484.3	↓	

Additional Notes:

Date: 9.8.2012 Station: CB2A Time: local
Net Event # 16 CTD # 12 Time: 16:47 UTC

Latitude: 72° 28.771' N Longitude: 150° 0.420' W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 0 Bottom Depth: 3721
Net Type: BUNH Tow Type: UNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk	64585	65022	E+OH	
Net 2	150	2	95476.6	95808.2	-80	
Net 3	53	1	45817.5	46173.8	E+OH	
Net 4	53	3	5484.3	5857.8	E+OH	

Additional Notes:

Date: 9 Aug 2012 Station: CB2 Time: 18:04 local
Net Event # 17 CTD # 13 Time: 1:04 UTC

Latitude: 72° 59.632' N Longitude: 150° 0.131' W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 0 Bottom Depth: 3750
Net Type: B Tow Type: UNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
✓ Net 1	236	tsk	65022	65647	form	
Net 2	150	2	95808.2	96171.4	↓	
Net 3	53	1	46173.8	46573.6	↓	
Net 4	53	3	5857.8	6203.7	↓	

Additional Notes:



Plankton Net Tow Log Sheet

Survey #: 2012-11

Vessel: LSSL

Page: 7

Project(s): JOIS

Contact: K Young

Date: 9 Aug 2012 Station: CB2 Time: 18:17 local
Net Event # 18 CTD # 13 Time: 1:17 UTC

Latitude: 72 59.558 N Longitude: 150 0.181 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 0 Bottom Depth: 3750
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk5294	65647	66231	EtOH	1g Berce in sample
Net 2	150	2	96171.4	96613.6	-80	
Net 3	53	1	46573.6	46957.4	EtOH	
Net 4	53	3	6203.7	6512.1		

Additional Notes:

Date: 10 Aug 2012 Station: CB7 Time: 17:31 local
Net Event # 19 CTD # 14 Time: 0:31 UTC

Latitude: 76 1.057 N Longitude: 149 58.879 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 10 Bottom Depth: 3800
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk	66242	67672	form	
Net 2	150	2	96613.6	97057.6		
Net 3	53	1	46957.4	47368.0		
Net 4	53	3	6512.1	6823.3		

Additional Notes:

Windy - ~ 23 knt.

Date: 10 Aug 2012 Station: CB7 Time: 17:45 local
Net Event # 20 CTD # 14 Time: 0:45 UTC

Latitude: 76 1.020 N Longitude: 149 58.897 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 0 Bottom Depth: 3800
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk	67672	68142	EtOH	
Net 2	150	2	97057.6	97404.6	-80	
Net 3	53	1	47368	47724.6	EtOH	
Net 4	53	3	6823.3	6839.8		

Additional Notes:

Windy ~ 23 kn. * Carlton took 10 ♀ Calappa



Plankton Net Tow Log Sheet

Survey #: 2012-11 Vessel: LSSL Page:
Project(s): 2015 Contact: Kelly Young

Date: 11. 8. 2012 Station: CB4 Time: 2:50 local
Net Event # 21 CTD # 15 Time: 9:50 UTC

Latitude: 74 57.57 N Longitude: 141 56.7 W
deg min.dec deg min.dec

Wire out: 60 Wire angle: Bottom Depth: 3825
Net Type: BVNH Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk	68142	68585	FORM	
Net 2	150	2	97404.6	97731.5	FORM	
Net 3	53	1	47724.6	48091.0	FORM	
Net 4	53	3	6839.8	7125.5		72

Additional Notes:

* net event # wrong on labels

Date: 11.8.2012 Station: CB4 Time: 3:15 local
Net Event # 22 CTD # 15 Time: 10:15 UTC

Latitude: 74 57.566 N Longitude: 141 56.590 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: Bottom Depth: 3825
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk	68585	69195	ETOH	
Net 2	150	2	97731.5	98079.3	-80	
Net 3	53	1	48091.0	48712.0	ETOH	
Net 4	53	3	7125.5	7463.7		72

Additional Notes:

* net event # wrong on labels May be some seawater in the ETOH samples. Small tear at top of

Date: 11 Aug Station: CBS Time: local
Net Event # 23 CTD # 16 Time: 1:35 UTC

Latitude: 75 18.979 N Longitude: 153 19.565 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 0 Bottom Depth: 3840
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk	69000	69670	form	
Net 2	150	2	98079.3	98389.6		* ripped net
Net 3	53	1	48712.0	48825.9		
Net 4	53	3	7463.7	7740.6		

Additional Notes:

large holes ~ 2" x 3
exhausts in 150mm net



Plankton Net Tow Log Sheet

Survey #: 2012-11

Vessel:

Page:

Project(s):

Contact:

Date: 11 Aug 2012 Station: CB5 Time: local
Net Event # 24 CTD # 16 Time: 1:48 UTC

Latitude: 75 19.042 N Longitude: 153 19.536 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 0 Bottom Depth: 3840
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk5294	69670	70134	ETOH	
Net 2	150	2	98389.6	98729.7	-80	* ripped net
Net 3	53	1	48825.9	49173.2	ETOH	
Net 4	53	3	7740.6	8115.2	ETOH	

Additional Notes:

* Carlton took 10 calhy & from sample
13 150um net replaced w/new

Date: 12 Aug 2012 Station: CB3 Time: 12:50 local Pacific
Net Event # 25 CTD # 17 Time: 7:50 UTC

Latitude: 74 0.312 N Longitude: 150 3 373 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: Bottom Depth: 3825
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk	70134.4	70520	Form	
Net 2	150	2	98729.7	99053.9	Form	
Net 3	53	1	49173.2	49440.7	Form	
Net 4	53	3	8115.2	8422.1	Form	

Additional Notes:

13
Date: 12 Aug 2012 Station: CB3 Time: 1:10 local Pacific
Net Event # 26 CTD # 17 Time: 8:10 UTC

Latitude: 74 0.302 N Longitude: 150 3 380 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: Bottom Depth: 3825
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk	70520	71048	ETOH	
Net 2	150	2	99053.9	99396.7	-80	
Net 3	53	1	49440.7	49777.3	ETOH	
Net 4	53	3	8422.1	8760.2	ETOH	

Additional Notes:



Plankton Net Tow Log Sheet

Survey #: 2012-11 Vessel: L55C

Page:

Project(s): JOIS

Contact:

Date: 13.8.2012 Station: CBS Time: 18:59 local
Net Event # 27 CTD # 18 Time: 19:59 UTC

Latitude: 73 30.203 N Longitude: 144 59.524 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 0 Bottom Depth: 3646
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
✓ Net 1	236	tsk	71048	71634	FORM	
Net 2	150	2	99396.7	99738.4	FORM	
Net 3	53	1	49777.3	50148.1	FORM	
Net 4	53	3	8760.2	9999.9	FORM	roll over

Additional Notes:

Date: 13 Aug 2012 Station: CBS Time: 13:12 local
Net Event # 28 CTD # 18 Time: 20:12 UTC

Latitude: 73 30.182 N Longitude: 144 59.695 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 0 Bottom Depth: 3646
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk	71634	72250	ETOH	
Net 2	150	2	99738.4	00219.9	-80	*
Net 3	53	1	50148.1	50520.2	ETOH	
Net 4	53	3	9999.9	19221.8	ETOH	stuck?

Additional Notes:

* Carlton took 10 ♀ Calhy
20 ♀ C. glacialis

Date: 13 Aug 2012 Station: Sta-a Time: local
Net Event # 30 CTD # 20 Time: 6:38 UTC

Latitude: 72 36.632 N Longitude: 144 42.18 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: Bottom Depth: 3440
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
✓ Net 1	236	tsk	72810	73205	FORM	Flow
Net 2	150	2	579.3	883.0	FORM	* Meter
Net 3	53	1	50326.9	51766.8	FORM	reading
Net 4	53	3	19504.8	19899.9	FORM	Wrong

Additional Notes:

* Carlton took 20 C. glacialis ♀, 10 C. hyperb. ♀

Should be
ml. count



Plankton Net Tow Log Sheet

Survey #: 2012-11

Vessel: LSSL

Page:

Project(s): JOIS

Contact:

Date: 13 Aug 2012 Station: Star-a Time: local
Net Event # 29 CTD # 20 Time: 6:51 UTC

Latitude: 72.36 610 N Longitude: 144 42 174 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: Bottom Depth: 3440
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk	72550	72810	ETOH	2nd cast
Net 2	150	2	219.9	559.3	-80	processed as 1st
Net 3	53	1	50520.2	50826.9	ETOH	
Net 4	53	3	19221.8	19504.8	ETOH	

Additional Notes:

Date: 14.8.2012 Station: CB29 Time: local
Net Event # 31 CTD # 21 Time: 16:34 UTC

Latitude: deg min.dec N Longitude: deg min.dec W

Wire out: 100 Wire angle: Bottom Depth: 2717
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk	73285	73790	FORM	
Net 2	150	2	883.0	1217.6	FORM	
Net 3	53	1	51171.8	51522.1	FORM	
Net 4	53	3	09899.9	10177.3	FORM	

Additional Notes:

SG3?

Date: 14.8.2012 Station: CB29 Time: local
Net Event # 32 CTD # 21 Time: 16:48 UTC

Latitude: 71 59.954 N Longitude: 140 0.882 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: Bottom Depth: 2717
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk	73790	74048	ETOH	
Net 2	150	2	1217.6	1546.9	-80	
Net 3	53	1	51522.1	51893.2	ETOH	
Net 4	53	3	10177.3	10505.8	ETOH	

Additional Notes:



Plankton Net Tow Log Sheet

Survey #: 2012-11

Vessel: LSSL

Page:

Project(s): JOLS

Contact:

Date: 14 Aug 2012 Station: MK6 Time: local
Net Event # 33 CTD # 22 Time: 21:15 UTC

Latitude: deg min.dec N Longitude: deg min.dec W

Wire out: 100 Wire angle: Bottom Depth: 2517
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
✓ Net 1	236	tsk5294	74048	74638	form	
Net 2	150	2	1546.9	1884.6	form	
Net 3	53	1	51893.2	52206.9	form	
Net 4	53	3	10505.8	10687.2		? flow end 00687.2?

Additional Notes:

Date: 14 Aug 2012 Station: MK6 Time: local
Net Event # 34 CTD # 22 Time: 21:31 UTC

Latitude: 71 35.570 N Longitude: 140 0.822 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 0 Bottom Depth: 2517
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk	74638	75220	EtOH	2 lg Berce in sample
Net 2	150	2	1884.6	1982.5	-80	* Carlton
Net 3	53	1	52206.9	52562.2	EtOH	
Net 4	53	3	00687.2	02213.0		

Additional Notes:

* Carlton picked 10 ♀ Calmy, 14 ♀ Calgl, 3 ♀ Paugl

Date: 19 Aug 2012 Station: CB286 Time: 19:41 local
Net Event # 35 CTD # 23 Time: 2:41 UTC

Latitude: 70 59.71 N Longitude: 139 59.065 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 0 Bottom Depth: 2078
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
✓ Net 1	236	tsk	75220	75842	form	1g Berce
Net 2	150	2	1982.5	2584.9		
Net 3	53	1	52562.2	52914.1		
Net 4	53	3	2213	1400.8?		flow not working

Additional Notes:



Plankton Net Tow Log Sheet

Survey #: 2012-11 Vessel: LSSL
Project(s): JOLS Contact:

Page:

Date: 14 Aug 2012 Station: CB286 Time: 19:53 local
Net Event # 36 CTD # 23 Time: 2:53 UTC

Latitude: 70 59.664 N Longitude: 139 58.759 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 0 Bottom Depth: 2078
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	75842	75842	76250	ETOH	
Net 2	150	2	25849	2914.7	-80	Carlton 10 Calby?
Net 3	53	1	52914.1	53276.2	ETOH	
Net 4	53	3	1400.8	636.3	ETOH	Not working?

Additional Notes: 1747.4

Date: 14 Aug 2012 Station: MK3' Time: 23:27 local
Net Event # 37 CTD # 24 Time: 6:27 UTC

Latitude: 70 39.372 N Longitude: 139 59.278 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 0 Bottom Depth: 1316
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	76250	76250	76775	form	
Net 2	150	2	2914.7	3237.2		
Net 3	53	1	53276.2	53596.4		
Net 4	53	3	11765.3	12938.2		flow not working

Additional Notes:

Date: 14 Aug 2012 Station: MK3' Time: 23:40 local
Net Event # 38 CTD # 24 Time: 6:40 UTC

Latitude: 70 39.357 N Longitude: 139 59.282 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 0 Bottom Depth: 1316
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	76775	76775	77275	ETOH	
Net 2	150	2	3237.2	3568.1	-80	
Net 3	53	1	53596.4	53934.3	ETOH	
Net 4	53	3	12938.2	11159.6		flow not working

Additional Notes:



Plankton Net Tow Log Sheet

Survey #: 2012-11

Vessel: LSSL

Page:

Project(s): JOIS

Contact:

Date: 15.8.2012 Station: MK2 Time: local
Net Event # 39 CTD # 25 Time: 10:11 UTC

Latitude: 70 24 054 N Longitude: 140 0 008 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: Bottom Depth: 515
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
✓ Net 1	236	tsk	772.75	7776.2	FORM	
Net 2	150	2	03568.1	03953.1	ETOH	
Net 3	53	1	53934.3	54326.2	FORM	
Net 4	53	3	11159.6	12309.8	FORM	

Additional Notes:

Date: 15.8.2012 Station: CB2Raa Time: local
Net Event # 40 CTD # 26 Time: 13:20 UTC

Latitude: 69 59 982 N Longitude: 140 0 330 W
deg min.dec deg min.dec

Wire out: 50 Wire angle: Bottom Depth: 57
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
✓ Net 1	236	tsk	7776.2	77840	FORM	
Net 2	150	2	3953.1	4112.3	ETOH	
Net 3	53	1	54326.2	54489.9	FORM	
Net 4	53	3	12309.8	12428.8	FORM	

Additional Notes:

Date: 21 Aug 2012 Station: CB22 Time: local
Net Event # 41 CTD # 27 Time: 03:08 UTC

Latitude: 73 26 855 N Longitude: 138 0 552 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 0 Bottom Depth: 3108
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
✓ Net 1	236	tsk	77845	78434	form	
Net 2	150	2	4112.3	4456.9		
Net 3	53	1	54489.9	54827.0		
Net 4	53	3	12428.3	12809.0		2 net ends together

Additional Notes:



Plankton Net Tow Log Sheet

Survey #: 2012-11 Vessel: LSSL Page:
Project(s): JOIS Contact: Kelly Young

Date: 21 Aug 2012 Station: CB22 Time: local
Net Event # 42 CTD # 27 Time: 3:18 UTC

Latitude: 73 26.802 N Longitude: 138 0.565 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 0 Bottom Depth: 318
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk	78434	79095	ETOH	
Net 2	150	2	4456.9	4794.0	-80	x Carlton
Net 3	53	1	54827.0	55105.4	ETOH	
Net 4	53	3	12809.0	13074.3	ETOH	

Additional Notes:

Carlton picked 10 calving from 150mm

Date: 22 Aug 2012 Station: CB21 Time: 05:00 local
Net Event # 43 CTD # 29 Time: 12:00 UTC

Latitude: 74 0.144 N Longitude: 139 58.080 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 50 Bottom Depth: 349.1
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk	79095	79565	FORM	(Spill, lost 2 mls)
Net 2	150	2	47740	5106.3	FORM	
Net 3	53	1	55105.4	55432.9	FORM	7
Net 4	53	3	13074.3	13358.4	FORM	

Additional Notes:

Date: 22 Aug 2012 Station: CB21 Time: 05:15 local
Net Event # 44 CTD # 29 Time: 12:20 UTC

Latitude: 74 0.131 N Longitude: 139 58.097 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 50 Bottom Depth: 349.1
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	TSK	79565	79575.7	ETOH	
Net 2	150	2	5106.3	5443.1	-80	
Net 3	53	1	55432.9	55735.0	ETOH	
Net 4	53	3	13358.4	13676.5	ETOH	

Additional Notes:



Plankton Net Tow Log Sheet

Survey #: 2012-11 Vessel: LSSL Page:
Project(s): 2015 Contact:

Date: 22 Aug 2012 Station: CB19 Time: 19:14 local
Net Event # 45 CTD # 30 Time: 2:14 UTC

Latitude: 74 18 133 N Longitude: 143 18 895 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 10 Bottom Depth: 3699
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk5294	77575	80200	form	
Net 2	150	2	5443.1	5804.2	1	
Net 3	53	1	55785.0	56165.2	1	
Net 4	53	3	13676.5	14015.9	1	

Additional Notes:

Date: 22 Aug 2012 Station: CB19 Time: 19:28 local
Net Event # 46 CTD # 30 Time: 2:28 UTC

Latitude: 74 18 096 N Longitude: 143 18 804 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 5 Bottom Depth: 3699
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk	80200	80603	ETOH	
Net 2	150	2	5804.2	6171.8	-80	x Carlton
Net 3	53	1	56165.2	56511.6	ETOH	
Net 4	53	3	14015.9	14384.0	ETOH	

Additional Notes:

* Carlton picked 10 Calhy ♀ from 150µm

Date: 23 Aug 2012 Station: CB6 Time: local
Net Event # 47 CTD # 31 Time: 9:30 UTC

Latitude: 74 40 810 N Longitude: 146 40 579 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: Bottom Depth: 3780
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk	80603	80910	form	
Net 2	150	2	6171.8	6517.7		larval fish
Net 3	53	1	56511.6	56845.9	1	
Net 4	53	3	14384.0	14730.9	1	

Additional Notes:



Plankton Net Tow Log Sheet

Survey #: 2012-11 Vessel: LSS2

Page: _____

Project(s): J015

Contact: _____

Date: 23 Aug 2012 Station: C86 Time: _____ local
Net Event # 48 CTD # 31 Time: 9:45 UTC

Latitude: 74 41 936 N Longitude: 146 40 465 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: _____ Bottom Depth: 3780
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	TSK5294	80910	81220	ETOH	
Net 2	150	2	6517.7	6879.9	-80	
Net 3	53	1	5684.9	57213.0	ETOH	
Net 4	53	3	14730.9	15197.9		

Additional Notes:

Date: 23.8.2012 Station: CBC Time: 13:38 local
Net Event # 49 CTD # 32 Time: 20:38 UTC

Latitude: 75 59.502 N Longitude: 145 12.397 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 0 Bottom Depth: 3786
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
✓ Net 1	236	TSK	81220	81800	Form	
Net 2	150	2	6879.9	7221.9		
Net 3	53	1	57213.0	57557.9		
Net 4	53	3	15197.7	15449.9		

Additional Notes:

Some wind.

Date: 23.8.2012 Station: CBC Time: 13:50 local
Net Event # 50 CTD # 32 Time: 20:50 UTC

Latitude: 75 59. min.dec N Longitude: 145 12. min.dec W

Wire out: 100 Wire angle: 0 Bottom Depth: 3786
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	TSK	81800	82360	ETOH	
Net 2	150	2	7221.9	7561.3	-80	
Net 3	53	1	57557.9	57889.9	ETOH	
Net 4	53	3	15449.9	15890.4	ETOH	

Additional Notes:



Plankton Net Tow Log Sheet

Survey #: 2012-11 Vessel: LSSL Page:
Project(s): JOLS Contact: Kelly

Date: 23 Aug 2012 Station: CB8 Time: 23:46 local
Net Event # 51 CTD # 33 Time: UTC

Latitude: 76 59.718 N Longitude: 149 59.224 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 0 Bottom Depth: 3825
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk5294	82360	82798	Form	
Net 2	150	2	7561.3	7972.5		
Net 3	53	1	57889.9	58246.4		
Net 4	53	3	15890.4	16156.6		

Additional Notes:

windy

Date: 23 Aug 2012 Station: CB8 Time: local
Net Event # 52 CTD # 33 Time: UTC

Latitude: 76 59. deg min.dec N Longitude: 149 59. deg min.dec W

Wire out: 100 Wire angle: 5 Bottom Depth: 3825
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk	82798	83500	Form	
Net 2	150	2	7972.5	8373.0	-80	
Net 3	53	1	58246.4	58665.9		
Net 4	53	3	16156.6	16521.3		

Additional Notes:

windy

Date: 24 Aug 2012 Station: CB12 Time: 20:30 local
Net Event # 53 CTD # 35 Time: 3:32 UTC

Latitude: 77 34.975 N Longitude: 145 37.831 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: Bottom Depth: 3801
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk			Form	lost cod end
Net 2	150	2	8338.5	8738.5	Form	
Net 3	53	1	58165.9	59010.3		
Net 4	53	3	16521.3	16830.9		

Additional Notes:

windy. Lost 1st cod end waiting for power to A-frame. 2nd cod end lost when re-deploying. Cancelled 2nd cast. Fixes & did not



Plankton Net Tow Log Sheet

Survey #: 2012-11 Vessel: LSSL

Page:

Project(s): JOIS

Contact:

Date: 24 Aug 2012 Station: CB12 Time: 22:00 local
Net Event # 54 CTD # 35 Time: 12 UTC

Latitude: 77 35.392 N Longitude: 145 37.260 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 30 Bottom Depth: 3801
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	TSK 5294	8409.0	8438.5	ETOH	Beroc (1g) in sample
Net 2	150	2	8738.5	9068.3	-80	Carlton 10 Calby
Net 3	53	1	59010.3	59242.7	ETOH	
Net 4	53	3	16830.9	17193.7	ETOH	

Additional Notes:

Date: 25.8.2012 Station: CB 9 Time: local
Net Event # 55 CTD # 36 Time: 12:00 UTC

Latitude: 78 0 596 N Longitude: 149 56 411 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 30 Bottom Depth: 3823
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	TSK	8438.5	8682.0	FORM	
Net 2	150	2	9068.3	9671.0	ETOH	
Net 3	53	1	59242.7	59744.5	FORM	
Net 4	53	3	17193.7	17696.3	FORM	

Additional Notes: 20+ , Rough, large bar in Net 4. Noticed at start of 2nd cast / cast called off, weather

Date: 25 Aug 2012 Station: CB11 Time: 13:05 local
Net Event # 56 CTD # 37 Time: 20:05 UTC

Latitude: 79 0 589 N Longitude: 149 59.077 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 0 Bottom Depth: 3825
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	TSK	8682.0	8719.3	FORM	
Net 2	150	2	9671.0	10014.9		
Net 3	53	1	59744.5	60094.7		
Net 4	53	3	17696.3	17998.8		

Additional Notes:

replaced Net 4 with old spare. Net material feels pretty brittle

CB
16B
42



Plankton Net Tow Log Sheet

Survey #: 2012-11 Vessel: LSSL Page:
Project(s): JOIS Contact:

Date: 25 Aug 2012 Station: CB11 Time: 13:22 local
Net Event # 57 CTD # 37 Time: 20:22 UTC

Latitude: 79 0.532 N Longitude: 149 58.856 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 5 Bottom Depth: 3825
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk 5294	8719.5	8768.0	ETOH	
Net 2	150	2	10014.9	10350.4	-80	Carlton 10 Calby
Net 3	53	1	60094.9	60410.2	ETOH	
Net 4	53	3	17998.8	18013.9		

Additional Notes:
don't think old net on #4 is as efficient - no lg. copepods in that net.

Date: 28.8.2012 Station: CB16B Time: 11:50 local
Net Event # 58 CTD # 42 Time: 18:50 UTC

Latitude: 78 46.237 N Longitude: 136 29.518 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 0 Bottom Depth: 3713
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk	8768.0	88054	form	
Net 2	150	2	10350.4	10674.4		
Net 3	53	1	60410.2	60719.8		
Net 4	53	3	18013.9	18340.5		

Additional Notes:

Date: 28.8.2012 Station: CB16B Time: 12:01 local
Net Event # 59 CTD # 42 Time: 19:01 UTC

Latitude: 78 46.25 N Longitude: 136 29.49 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 0 Bottom Depth: 3713
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk	88054	88592	ETOH	
Net 2	150	2	10674.4	10996.6	-80	Carlton 10 Calby
Net 3	53	1	60719.8	61039.1	ETOH	
Net 4	53	3	18340.5	18666.3		

Additional Notes:



Plankton Net Tow Log Sheet

Survey #: 2012-1 Vessel: LSS2

Page:

Project(s): JOIS

Contact:

Date: 26 Aug 2012 Station: CB16 Time: 17:10 local
Net Event # 60 CTD # 43 Time: 2:10 UTC
Latitude: 77 59.908 N Longitude: 139 59.910 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 0 Bottom Depth: 3752
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	575294	88521	88630	form	
Net 2	150	2	10996.6	11321.3		
Net 3	53	1	61039.1	61371.0		
Net 4	53	3	18666.3	29912.5		? or 18801.4

Additional Notes:

Date: 28 Aug 2012 Station: CB16 Time: 19:23 local
Net Event # 61 CTD # 43 Time: 2:23 UTC
Latitude: 77 59.900 N Longitude: 139 59.851 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 10 Bottom Depth: 3752
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	575294	88630	89230	ETOH	
Net 2	150	2	11321.3	11683.6	-80	Carlton 10 Calh, J
Net 3	53	1	61371.0	61707.2	ETOH	
Net 4	53	3	29912.5	29065.9		* flow not working

Additional Notes:

Date: 29.8.2012 Station: CB9 Time: local
Net Event # 62 CTD # 44 Time: 13:10 UTC
Latitude: 78.0 286 N Longitude: 149 58 865 W
deg min.dec deg min.dec

Wire out: 500 Wire angle: - Bottom Depth: 3823
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk	89230	92040	ETOH	
Net 2	150	2	11683.6	13321.0	FORM	
Net 3	53	1	61707.2	63414.7	FORM	
Net 4	53	3	29065.9	29792.8	FORM	(check 3)?

Additional Notes:

Date: 30 Aug 2012 Station: TU1 Time: 15:23 local
Net Event # 63 CTD # 46 Time: 22:23 UTC
Latitude: 76 1.010 N Longitude: 160 15.806 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 0 Bottom Depth: 2096
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk	92040	92439	form	
Net 2	150	2	13321.0	13655.3		
Net 3	53	1	63414.7	63751.6		
Net 4	53	3	29792.8	10828.8		not working

Additional Notes:



Plankton Net Tow Log Sheet

Survey #: 2012-11

Vessel: LSSL

Page:

Project(s): JOLS

Contact:

Date: 30 Aug 2012 Station: TU 1 Time: 15:35 local
Net Event # 64 CTD # 46 Time: 22:35 UTC
Latitude: 26 1.44 N Longitude: 160 15.742 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 0 Bottom Depth: 2096
Net Type: 0 Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk5294	92439	93040	ETOH	
Net 2	150	2	13655.3	14028.7	-80	Carlton 10 Calhy 10 Calgl &
Net 3	53	1	63751.6	64084.2	ETOH	
Net 4	53	3	10828.8	11225.2		Not working

Additional Notes:

Date: 31.8.2012 Station: TU 2 Time: local
Net Event # 65 CTD # 47 Time: 1115 UTC
Latitude: 76 59.9 N Longitude: 170 1.18 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: Bottom Depth: 2212
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk	93040	93730.2	Form	
Net 2	150	2	14028.7	14409.9		
Net 3	53	1	64084.2	64477.2		
Net 4	53	3	11225.2	11626.4		

Additional Notes:

Date: 31.8.2012 Station: TU 2 Time: local
Net Event # 66 CTD # 47 Time: 1135 UTC
Latitude: 76 59.84 N Longitude: 170 1.39 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: Bottom Depth: 2212
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk	93730	94330.2	ETOH	
Net 2	150	2	14409.9	14827.8	-80	
Net 3	53	1	64477.2	64846.0	ETOH	
Net 4	53	3	11626.4	11835.5	ETOH	

Additional Notes:

Date: 31 Aug 2012 Station: CPP 10 Time: 1:50 local
Net Event # 67 CTD # 49 Time: 8:50 UTC
Latitude: 76 0 98.2 N Longitude: 175 18 096 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: Bottom Depth: 2111
Net Type: Tow Type:

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk	94330	94595	FORM	Euphausiid
Net 2	150	2	14827.8	15264.1		
Net 3	53	1	64846.0	65224.3		
Net 4	53	3	11835.5	12025.4		

Additional Notes:



Plankton Net Tow Log Sheet

Survey #: 2012-11 Vessel: LSS2

Page:

Project(s): JOIS

Contact:

Date: 31 Aug 2012	Station: CAP 10	Time: 2:10	local			
Net Event # 68	CTD # 49	Time: 9:10	UTC			
Latitude: 76 1 096 N		Longitude: 175 18 574 W				
deg min.dec		deg min.dec				
Wire out: 100	Wire angle: 15°	Bottom Depth: 2111				
Net Type: B	Tow Type: VNH					
	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk5294	94595	95170		
Net 2	150	2	15246.1	15704.1		
Net 3	53	1	652243	656035		
Net 4	53	3	12025.4	12455.3		

Additional Notes:

Date: 3 Sept 2012	Station: CB10 S	Time: 13:23	local			
Net Event # 69	CTD # 50	Time: 20:23	UTC			
Latitude: 77 9.865 N		Longitude: 153 53.911 W				
deg min.dec		deg min.dec				
Wire out: 100	Wire angle: 10	Bottom Depth: 2142				
Net Type: B	Tow Type: VNH					
	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk	95180	95730	form	
Net 2	150	2	15704.1	16036.9		
Net 3	53	1	65603.5	65690.1		
Net 4	53	3	12455.3	12788.8		

Additional Notes:

Date: 3 Sept 12	Station: CB10 S	Time: 13:36	local			
Net Event # 70	CTD # 50	Time: 20:36	UTC			
Latitude: 77 9.809 N		Longitude: 153 53.831 W				
deg min.dec		deg min.dec				
Wire out: 100	Wire angle: 5	Bottom Depth: 2142				
Net Type: B	Tow Type: VNH					
	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk	95730	95740	ETOH	flow not working
Net 2	150	2	16036.9	16358.4	-SO	Carlton to calling?
Net 3	53	1	65690.1	66039.5	ETOH	
Net 4	53	3	12788.8	13122.4		

Additional Notes:

Date: 4.09.2012	Station: CB15	Time:	local			
Net Event # 71	CTD # 51	Time: 13:01	UTC			
Latitude: 77 0.091 N		Longitude: 139 59.768 W				
deg min.dec		deg min.dec				
Wire out: 100	Wire angle:	Bottom Depth: 3708				
Net Type: B	Tow Type: VNH					
	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk	95740	96312	FORM	big jelly thing?
Net 2	150	2	16358.4	16699.3		
Net 3	53	1	66039.5	66359.4		
Net 4	53	3	13122.4	13279.4		

Additional Notes:



Plankton Net Tow Log Sheet

Survey #: 2012-11

Vessel: LSSL

Page:

Project(s): 2015

Contact: Kelly

Date: 4.09.2012 Station: CB 15 Time: local
Net Event # 72 CTD # 51 Time: 13:11 UTC
Latitude: 77 0.110 N Longitude: 139 59.695 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: Bottom Depth: 3708
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk	96318	96760	ETOH	
Net 2	150	2	16699.3	17018.8	-80	
Net 3	53	1	66359.4	66782.0	ETOH	
Net 4	53	3	13279.4	13550.7	ETOH	

Additional Notes:

Date: 4 Sept 2012 Station: PP7 Time: 18:02 local
Net Event # 73 CTD # 53 Time: 01:02 UTC
Latitude: 76 32.233 N Longitude: 135 24.906 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 5 Bottom Depth: 3555
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk5214	96760	97336	form	
Net 2	150	2	17018.8	17343.5		
Net 3	53	1	66732	66997.0		
Net 4	53	3	13551.9	14902.7		

Additional Notes:

Date: 4 Sept Station: PP7 Time: 18:15 local
Net Event # 74 CTD # 53 Time: 01:16 UTC
Latitude: 76 32.246 N Longitude: 135 24.818 W
deg min.dec deg min.dec

Wire out: 100 Wire angle: 0 Bottom Depth: 3555
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk	97336	97705	ETOH	
Net 2	150	2	17343.5	17693.9	-80	Carlton locally, 15 cal g/l
Net 3	53	1	66997.0	67340.3	ETOH	
Net 4	53	3	14902.7	14293.2		

Additional Notes:

Date: 4 Sept Station: PP6 Time: local
Net Event # 75 CTD # 54 Time: 7:15 UTC
Latitude: 76 16 648 N Longitude: 132 36 16 OW
deg min.dec deg min.dec

Wire out: 100 Wire angle: 20° Bottom Depth: 3074
Net Type: B Tow Type: VNH

	Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1	236	tsk	97705	98050	FORM	
Net 2	150	2	17693.9	17693.9		Frozen
Net 3	53	1	67340.3	67660.2		?
Net 4	53	3	14293.2	14519.5		?

Additional Notes:

windy 20, snow



Plankton Net Tow Log Sheet

Survey #: 2012-11 Vessel: LSSL Page:
Project(s): JOIS Contact: Kelly Young

Date: 4 Sept 2012	Station: PP6	Time: local			
Net Event # 76	CTD # 54	Time: 7:40 UTC			
Latitude: 76 16 72.4 N	Longitude: 132 36 74.5 W				
deg min.dec	deg min.dec				
Wire out: 100	Wire angle: 20	Bottom Depth: 3074			
Net Type: B	Tow Type: VNH				
Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1 236	TSK 5294	98050	98640		
Net 2 150	2	17693.9	17693.9		Frozen
Net 3 53	1	67660.2	22221.9		
Net 4 53	3	14519.5	13741.6		

Additional Notes:

Date: 6.9.12	Station: CB40	Time: local			
Net Event # 77	CTD # 55	Time: 13:50 UTC			
Latitude: 74 29 86.9 N	Longitude: 135 25 95.6 W				
deg min.dec	deg min.dec				
Wire out: 100	Wire angle: —	Bottom Depth: 3243			
Net Type: B	Tow Type: VNH				
Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1 236	TSK	98641	99220	FORM	
Net 2 150	2	17693.9	18048.1		
Net 3 53	1	33331.0	33538.8		1 cgd end spill
Net 4 53	3	13742.9	12668.6		

Additional Notes:

Date: 6.9.12	Station: CB40	Time: local			
Net Event # 78	CTD # 55	Time: 14:10 UTC			
Latitude: 74 29 78.9 N	Longitude: 135 26 02.8 W				
deg min.dec	deg min.dec				
Wire out: 100	Wire angle: —	Bottom Depth: 3243			
Net Type: B	Tow Type: VNH				
Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1 236	TSK	99290	99525	ETO 14	
Net 2 150	2	18048.1	18382.1	-80	(Coast 77 small kg by mis led)
Net 3 53	1	33538.8	33979.1	ETO 4	
Net 4 53	3	12668.6	15180.9	ETO 14	2

Additional Notes:

Date: 6 Sept 2012	Station: CB50	Time: 13:44 local			
Net Event # 79	CTD # 56	Time: UTC			
Latitude: 73 30.2 N	Longitude: 134 15.6 W				
deg min.dec	deg min.dec				
Wire out: 100	Wire angle: 0	Bottom Depth: 2886			
Net Type: B	Tow Type: VNH				
Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1 236	TSK	99525	100702	form	
Net 2 150	2	18382.1	18708.7		
Net 3 53	1	33979.1	34331.3		
Net 4 53	3	15180.9	15317.5		

Additional Notes:

Bongo Bill's cast



Plankton Net Tow Log Sheet

Survey #: 2012-11 Vessel: LSSL

Page:

Project(s): JOIS

Contact: Kelly Young

Date: 6 Sept 2012	Station: CB50	Time: 13:56	local		
Net Event # 80	CTD # 56	Time:	UTC		
Latitude: 73 30.248 N	Longitude: 134 15.334 W				
deg min.dec	deg min.dec				
Wire out: 100	Wire angle: 0	Bottom Depth: 2886			
Net Type: B	Tow Type: VNH				
Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1 286	785294	100702	101370	ETOH	
Net 2 150	2	18708.7	19075.5	-80	10 Calby & for Carlton
Net 3 53	1	34331.3	34680.6	ETOH	
Net 4 53	3	18317.5	15839.4		

Additional Notes: Bill's cast 5

Date:	Station:	Time:	local		
Net Event #	CTD #	Time:	UTC		
Latitude:	N	Longitude:	W		
deg min.dec		deg min.dec			
Wire out:	Wire angle:	Bottom Depth:			
Net Type:	Tow Type:				
Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1					
Net 2					
Net 3					
Net 4					

Additional Notes:

Date:	Station:	Time:	local		
Net Event #	CTD #	Time:	UTC		
Latitude:	N	Longitude:	W		
deg min.dec		deg min.dec			
Wire out:	Wire angle:	Bottom Depth:			
Net Type:	Tow Type:				
Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1					
Net 2					
Net 3					
Net 4					

Additional Notes:

Date:	Station:	Time:	local		
Net Event #	CTD #	Time:	UTC		
Latitude:	N	Longitude:	W		
deg min.dec		deg min.dec			
Wire out:	Wire angle:	Bottom Depth:			
Net Type:	Tow Type:				
Mesh	Flow serial#	Flow start	Flow end	Preservative	Notes:
Net 1					
Net 2					
Net 3					
Net 4					

Additional Notes:

FLIGHT #	TSK	ST	EN	ST	EN	ST	EN	ST	EN
AC 5	55849	55535	40000	40304.8	89376.2	87115.1	008946	01226.7	
CB 1	55535	56290	40304.8	46783.6	87115.1	90301.0	01226.7	015947.3	
END 2	56780		4112.71		90686.4		018488		
CB 3160	57489.1		41489.6		91036.6		02250.0		
57942			41865.8		91370.4		02623.7		
58465			42216.1		91689.2		0284.2		
58989			42546.0		92005.7		03157.7		
60094			43003.5		92513.0		03559.1		
62345			43909.5		93446.0		04002.1		
61740			44057.7		93839.5		04084.6		
62341			44426.7		94173.7		04474.9		
62900			4444.7		94494.2		04688.8		
63375			45073.0		94806.7		4908.6		
69900			46461.8		95125.5		5133.8		

AG5 - wire angle 10°

t = 15.53

1 - cast 100 m

CBI - cast

CTDH - 3

1 t = 9.05

L = 70

② 9.30

L 70

mk 7

① 7.16 no wire angle

② 7.40 20
windy

CBI

① 2.50

② 3.10

windy

sk-24	150 - 592	53 - 591	53 - 593
CB2A	639110	45460.8	51338
2	65585	45617.5	54843
2	65647	46173.8	56578
2	66231	46573.6	6203.7
2	66231	46952.4	6512.1
2	66231	47368.0	6823.3
2	66231	47724.6	6839.8
2	66231	48041.6	71255
2	66231	48312.0	74637
2	66231	48635.9	7740.6
2	66231	49173.2	8115.2
2	66231	49444.7	8422.1
2	66231	49727.3	8760.1
2	66231	50148.1	9099.9
2	66231	50920.2	9221.8

CB2A - 1 - 9:37

CB4 - 1 2:50
2 3:15

- Small tear near top of
black mesh (150 - 236?)

STA	LSK	150562	53561	53563
Sta-a	1	219.9	50520.2	50521.8
	1	0 557.3	50526.9	50510.7
	2	0 883.0	50171.8	09504.8
CB24	1	0 127.6	51522.1	09899.9
	2	0 1546.9	51893.2	101743.1
MK6	1	1884.4	50006.9	105058
	2	1884.4	50006.9	105058
CB28b	1	0 1982.5	50542.2	00687.4
	2	0 2584.9	52914.1	00613.0
MK3	1	0 2914.7	53296.2	01400.8
	2	0 3237.2	53596.4	01774.4
MK21	1	0 3508.1	53934.3	00636.3
	2	0 3953.1	54326.2	11765.3
CB (DM)	1	0 4112.3	54489.9	12438.2
	2			1159.6
				12309.8
				12428.8

SN	TSK	10592	53	53593
CB22	77845	0412.3	54489.9	12428.3
	78434	04456.9	54817.0	12809.0
	79095	4774.0	55105.4	13074.3
CB21	79565	51063	55482.9	13359.4
5.00	79575?	5443.1	55788.5	13676.5
5.15	80200	05804.2	56165.2	14015.9
5.36	80603	6171.8	56511.6	14384.0
2.30	80910	6517.7	56845.9	14730.9
2.45	81220	6879.9	57213.0	15197.7
2.50	81800	07201.9	57557.2	15449.9
CB2	82360	7861.3	57889.9	15890.4
CB8	82798	07972.5	58246.4	16156.6
5	83500	8378.0	58665.9	16521.3
CB12	get ready at 5:30	02738.5	59010.3	16831.7

Shn	tsk	sq2	sq1	sq3
CB2 22	84090	8736.5	5900.3	16830.9
	84385	9068.3	59242.7	17193.7
CB9 1	86820	9671.0	59744.5	17696.3
1300 2	cancelled			
5800 13.35	87195	10014.9	60094.9	18998.8
5811	87680	10350.4	60410.2	18013.9
5816	188654	10674.4	60719.8	18340.5
CB16 5	88592	16996.6	61039.1	18666.3
11:50 11.2	88581			
CB6 1	88630	11321.3	61371.0	18801.4
10.19 12	89230	11683.6	61707.2	19065.9
0500 1	92040	13321.0	63414.7	20792.8
71-1 13	92439	13655.3	63751.6	10828.8
15.15	93040	14028.7	64084.2	11225.2

SIN	Tuz	4.17	T5K	93040	SG2	140287	561	64084.2	563	11225.2
				2	93730	14409.9		6477.2		11626.4
					94335	148278		648460		118355
Comp	10	1501		94595	152641			652243		120254
						157041		656035		124553
220°	2:10	2		95170						
				95180		160369		65690.1		12788.8
08105	13:23	5		95730		16358.4		66039.5		23889.9
	13:26	5		95740						13122.4
0815						166993		66359.4		132794
				96318		170188		66732		135507
				96760						13551.9
PP7	18:02	1		97336		17343.5		66907.0		14962.7
	18:15	2		97705		17693.9		67340.3		14293.2
PP6	12:15	1		98050		176939		676602		145195
	12:40	2		98640		176939		2222.19		137416

STN
C 6:50
7:05

TSK
98641
99220

SGZ
170939
180481

GL
33310
13528
~~44499~~

1363
137429
126686

99525

142821

332791
44041

151809

2-1356

100702
01370

187087
190755

343313
316806

133175
138394

the River

