

EXPORTS 2021

MOCNESS Log

N. Atlantic

Epoch	Day 0	Event jc214-SE- 20210504.1720.001	Tow		Date 2021/05/04 UTC	local
START		Time	Latitude		Longitude	Voltage
1751 UTC		local	49 41.2446 N		14 57.52776 W	
END		1839 UTC	local	49 4.90495 N		14 59.10172 W
Day / Night		Heading Gyro 323	SOG 1.3 knot			
Water Depth 465.11 m		Wind Spd/Dir 7.28/70 knot/°	Sky/% Cloud Cover 60% cover			
Seas 1m		SST/SSS 12.65/35.524°C/psu	Net Size / Mesh / Condition 1m/200μ/Good			
Directory\Filename wettest			Sensors Temp / Cond / O ₂ / Fluor / Pres 4126 1749 1230 0231 607		CTD Event jc214-SE- 20210504.1453.001	
Personnel Zooplankton Team Martin Harrison / Iain Forbes / Burt (Brian Burton) / Dave Childs Debbie Steinberg Amy Maas Kristen Sharpe Hannah Gossner Joe Cope						

Net	Depth Interval	Time (UTC)	Pressure (m)	Angle (°)	Flow Counts	Vol Filt	Temp (°C)	Salinity (kg/m ³)	Notes
									Maximum Depth 110.6 m
0									
1	0 - 100	1810	100	55.4	282	589.4	11.572	35.533	10
2	100 - 50	1822	51.3	54.7	152	351.7	12.174	35.535	10m/min
3	50 - 0								10
4									
5									
6									
7									
8									
9									

No GPS

Pinger on wire - put close to frame next time
Lanyard on Net 3 broke - repaired before next tow
(metal balloon end)

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N. Atlantic

Epoch	Day 2	Event jc214-SE- 20210506.1053,00)	Tow	10 Cast 1	Date 2021/05/06 UTC	local
START	Time		Latitude		Longitude	Voltage
	1053 UTC	local	48 56.15448 N	1448.20982 W		
END	1454 UTC	local	48 58.145 N	1502.572 W		
(Day) Night		Heading	283 °	SOG 1.7	knot	
Water Depth	4665.1 m	Wind Spd/Dir	6.24 / 270 knot/°	Sky/% Cloud Cover	40% cover	
Seas	1m	SST/SSS	12.42 / 35.516 °C/psu	Net Size / Mesh / Condition	1m / 200m / Good	
Directory\Filename	Cast 1	Sensors		CTD Event 09	jc214-SE-20210506.1658,00	
Personnel	Debbie Amy Hannah Joe Tim Martin Powell					

Maximum Depth 1013.7 m

Wire Out 2000 m

Net	Depth Interval	Time (UTC)	Pressure (m)	Angle (°)	Flow Counts	Vol Filt	Temp (°C)	Salinity (kg/m³)	Notes
1	0-1000	1206	1000.0	50.5	915	2123.8	9.086	35.464	10-20-30-40-30-20 -10-0
2	1000-750	1243	750.4	58.1	538	1057.7	10.585	35.437	110-15
3	750-500	1319	499.2	56.5	507	1019.1	10.861	35.461	15
4	300-400	1334	399.8	58.0	202	387	10.888	35.461	10
5	400-300	1355	300.3	57.0	301	582.5	10.987	35.466	10
6	300-200	1415	200.0	57.7	271	550.7	11.005	35.473	10
7	200-150	1425	150.6	54.2	136	265.7	11.155	35.486	10
8	150-100	1433	99.7	51.2	122	2404	11.459	35.522	10
9	100-50	1443	49.5	58.1	145	283.0	11.642	35.534	10 Switch over to back deck @ 1437
10	50-0	1454			144	342.6			10

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Epoch	1 Day 2	Event jc214-SF- 20210506, 2137.001	Tow	11 Cast 2	Date 2021/05/06 UTC	local
START	Time		Latitude		Longitude	Voltage
	2130 UTC	local	48 58.125	N	14 48.108 W	
END	0128 UTC	local	48 58.493	N	15 02.144 W	
Day / Night		Heading	271.3 °	SOG	2.2	knot
Water Depth	4659.9 m	Wind Spd/Dir	2.15 / 180 knot/°	Sky/% Cloud Cover		
Seas	1 m	SST/SSS	12.86 / 35.511 °C/psu	Net Size / Mesh / Condition		
Directory\Filename	Cast_02	Sensors		CTD Event 10/ jc214-SF-20210506, 2300.001		
Personnel	Zoo Team Martin Dave Scott MacKenzie Agnew	Dave Scott John Nathan Allen Gregory				

Maximum Depth 1017.4 m

Wire Out 1964.8 m

Net	Depth Interval	Time (UTC)	Pressure (m)	Angle (°)	Flow Counts	Vol Filt	Temp (°C)	Salinity (kg/m³)	Notes
1	0-1000	2241	999.9	52.9	916	2045.3	8.906	35.430	10-20-30-40-30 -20-10-0
2	1000-750	2326	748.7	53.5	510	1092.1	10.595	35.417	10-15
3	750-500	2348	500.5	59.0	385	735.9	10.860	35.441	15-10-15
4	500-400	0008	399.1	57.2	278	546.6	10.856	35.442	10
5	400-300	0025	300.6	63.8	232	411.7	10.892	35.446	10
6	300-200	0045	199.5	60.0	298	586.5	10.963	35.449	10
7	200-150	0059	150.5	55.0	191	385.2	11.131	35.466	10
8	150-100	0109	100.7	51.3	140	293.6	11.380	35.497	10
9	100-50	0117	50.5	60.1	122	240.1	12.370	35.520	10 Switch to deck box @ 0113
10	50-0	0128			134	323.9			10

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Epoch	Day 13	Event jc214-SE- 20210507_0205.001	Tow 12 Cast 3	Date 2021/05/07 UTC	local
START	Time		Latitude	Longitude	Voltage
	0202 UTC	local	48° 58.549' N	154° 05.5' W	
END	0231 UTC	local	48° 58.592' N	155° 5.518' W	
Day/Night		Heading 268°	SOG 2.2	knot	
Water Depth 4660	m	Wind Spd/Dir 140/160 knot/°	Sky/% Cloud Cover		
Seas	SST/SSS 12.82/35.531 °C/psu	Net Size / Mesh / Condition 1m / 200 μm / Good			
Directory\Filename	Sensors			CTD Event 11 jc214-SE-20210507_0502.001	
Personnel	Debbie Amy Joe Dave Tim Martin				

Continuation of Cast 2

Maximum Depth 119.7 m Wire Out 61.5 m

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Epoch	2 Day 1	Event jc214-56- 20210511.2140.001	Tow	14 Cast 4	Date	2021/05/11 UTC	local		
START	Time		Latitude		Longitude		Voltage		
	2139 UTC	local	49 1.33494	N	151.23708	W			
END	0109 UTC	local	49.5.855	N	159.620	W			
Day/Night		Heading 336 °		SOG	2.1	knot			
Water Depth 4674 m		Wind Spd/Dir 26.3 / 270 knot/°		Sky/% Cloud Cover					
Seas 1.5m		SST/SSS 12.22 / 35.59 °C/psu		Net Size / Mesh / Condition 1m / 200 μm / Good					
Directory\Filename Cast_04			Sensors			CTD Event			
Personnel	Zoo Gang	Steve Martin	Nate	John	Dave C.				
	Captain	Dave Scott	m						

Maximum Depth 017.2 m

Wire Out 1488.6 m

Net	Depth Interval	Time (UTC)	Pressure (m)	Angle (°)	Flow Counts	Vol Filt	Temp (°C)	Salinity (kg/m³)	Notes
1	0-100	2242	1002.0	47.5	611	143258;889	35.463	10-20-30-40-30 -20-10-6	Net full fast
2	100-200	2309	748.2	46.3	322	768.7	10,246	35.389	10
3	200-300	2344	499.9	53.0	428	944.8	10.851	35.449	10-15-10
4	300-400	0001	398.4	47.9	214	459.1	10.948	35.459	10
5	400-500	0013	299.3	55.3	163	342.1	11.022	35.467	10
6	300-200	0028	199.7	58.1	214	430.0	11.230	35.491	10
7	200-150	0038	149.6	59.8	143	278.2	11.478	35.524	10
8	150-100	0050	99.4	50.2	178	390.5	11.921	35.543	10
9	100-50	0057	51.4	64.4	97	177.5	12.220	35.537	10
10	50-0	0109			191	403.8			10

Note: Nets were twisted on the recovery; very windy.
 But we think it fished ok; as net 1 was full of stuff (so fished
 on the way down), and things in net 9 were swimming + happy.
 * update: not much stuff in nets 2-6 → we suspect not quantitative for those

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Epoch 2	Day 2	Event fc214-SE 20210512.1053.001	Tow 15 Cast 5	Date 2021/05/12 UTC	local
START	Time		Latitude	Longitude	Voltage
	1052 UTC	local	49 10.053 N	14 54.725 W	
END	1506 UTC	local	49 15.965 N	15 06.612 W	
Day/ Night		Heading	311 °	SOG 2.3 knot	
Water Depth		m	Wind Spd/Dir 25/290 knot/°	Sky/% Cloud Cover Overcast 90%	
Seas			SST/SSS 12.24 / 35.534 °C/psu	Net Size / Mesh / Condition 1m / 200µ / Good	
Directory\Filename			Sensors	CTD Event	
Personnel Debbie, Amy, Joe, Tim, Nate, Dave, Darren, Scott, John					

Started tow 1km west of lagrangian float. Heading 310°.

Maximum Depth 1005 m

Wire Out 2135 m

Net	Depth Interval	Time (UTC)	Pressure (m)	Angle (°)	Flow Counts	Vol Filt	Temp (°C)	Salinity (kg/m³)	Notes
1	0-1000	1210	997.2	47.3	922	1988.4	8.796	35.447	10-20-30-40-30 -20-10
*2	1000-750	1248	748.0	61.9	562	1065.1	10.182	35.386	10-15-20-15
*3	750-500	1317	498.2	60	453	808.3	10.865	35.453	10
+4	500-400	1339	394.9	56.4	328	587.7	10.910	35.460	10
5	400-300	1403	299.7	59.1	364	655.1	11.048	35.468	10
6	300-200	1424	199.3	58.0	320	614.6	11.373	35.508	10
7	200-150	1434	150.8	58.2	150	273.4	11.700	35.556	10 Sample lost
8	150-100	1444	100.8	65.0	145	257.4	12.101	35.525	10
9	100-50	1455	50.2	55.5	185	372.2	12.263	35.533	10
10	50-0	1506			148	316.1			10

*RSP did not register after tripping net. Hit "MANUAL CONFIRM". At ~950m, hit "Single Step Motor" + RSP lit up - Net probably fished 950-750m
+ RSP did not register after tripping net. Hit "Single Step Motor" but no RSP, Hit "MANUAL CONFIRM" - are ball pieces in cam? Yes

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Epoch	2 ^{Day} 7	Event 2021-05-17, 1014.00	Tow	47	Cast 6	Date	2021/05/17 UTC	local
START	Time		Latitude			Longitude		Voltage
	1007 UTC	local	48 56.149	N	14 49.821	W		
END	1409 UTC	local	48 53.604	N	15 02.906	W		
<u>Day</u> / Night			Heading	269	°	SOG	2.2	knot
Water Depth	4666.8 m		Wind Spd/Dir	13.9 / 225	knot/°	Sky/% Cloud Cover	40% cover	
Seas	/m		SST/SSS	12.54 / 35.542 °C/psu		Net Size / Mesh / Condition	1m / 200m / Good	
Directory\Filename	Cast_206			Sensors			CTD Event	
Personnel	Debbie Kristen Hannah Joe Ian Nate John							

Maximum Depth 1020.2 m

Wire Out 2007.1 m

Net	Depth Interval	Time (UTC)	Pressure (m)	Angle (°)	Flow Counts	Vol Filt	Temp (°C)	Salinity (kg/m³)	Notes
1	0-100	1119	997.7	45	853	199.9	9.023	35.453	10-20 @ 75m - 30 @ 183m - 40 @ 250m - 30 @ 970m - 20
2	100-750	1149	748.6	63.1	446	794.0	10.447	35.426	-10 - 0 - 10 10-0-10-15
3	750-500	1222	500.6	63.6	533	905.1	10.861	35.460	15
4	500-400	1245	399.4	62.3	350	646.4	10.885	35.458	15-10
5	400-300	1304	299.7	60.0	295	532.9	10.963	35.462	10
6	300-200	1331	199.1	55.0	391	762.0	11.205	35.491	10
7	200-150	1340	149.6	56.7	122	235.6	11.398	35.514	10
8	150-100	1348	99.2	61.7	121	234.1	12.065	35.546	10
9	100-50	1358	49.9	60.0	141	265.3	12.367	35.544	10
10	50-0	1409			167	430.4			

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Epoch 2	Day 7	Event jc214-SE- 20210517, 2231001	Tow 48	Cast 7	Date 2021/05/17 UTC	local			
START	Time		Latitude		Longitude	Voltage			
	2225 UTC	local	48 56,371	N	14 50,415 W				
END	0218 UTC	local	48 59,551	N	15 02,750 W				
Day / Night		Heading	290	°	SOG	knot			
Water Depth	4666,6 m	Wind Spd/Dir	16,3 / 190 knot/°	Sky/% Cloud Cover					
Seas	SST/SSS	12,60 / 35,551 °C/psu	Net Size / Mesh / Condition						
Directory\Filename	Cast-07	Sensors	CTD Event Cast 35 (or 34) jc214-SE-20210518, 0412001						
Personnel	Zoo Gang Nate John Dave M Scott Dave C								

Maximum Depth 1009,5 m

Wire Out 1786,1 m

Net	Depth Interval	Time (UTC)	Pressure (m)	Angle (°)	Flow Counts	Vol Filt	Temp (°C)	Salinity (kg/m³)	Notes
1	0-1000	2333	999,1	44,3	747	1823,9	8,883	35,448	10-20@75m-30@170m -40@295m-30@950m-20
2	1000-750	0001	748,3	55,8	362	757,2	10,476	35,428	-10-0 0-10-15
3	750-500	0030	499,0	60,7	414	752,9	10,863	35,592	15-10-15
4	500-400	0057	399,5	54,9	373	725,3	10,912	35,461	10
5	400-300	0115	299,5	57,2	250	471,3	10,975	35,462	10
6	300-200	0134	200,2	58,5	266	599,7	11,175	35,485	10
7	200-150	0143	150,4	61,8	129	233,0	11,331	35,504	10
8	150-100	0157	100,4	55,1	192	383,9	11,912	35,561	10
9	100-50	0208	49,8	58,4	156	327,0	12,508	35,561	10
10	50-0	0218			128	336,5			10

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Epoch 3	Day 1	Event jc214-SE- 20210521.2109.001	Tow 62	Cast 8	Date 2021/05/21 UTC	local
START	Time		* Latitude		Longitude	Voltage
	2105 UTC	local	48 55.401	N	14 46.958 W	
END	0037 UTC	local	49 02.806	N	14 51.118 W	
Day / Night		Heading	339	°	SOG 2.2	knot
Water Depth	4662.1 m	Wind Spd/Dir	18/340	knot/°	Sky/% Cloud Cover 80% cover	
Seas - 1.5m		SST/SSS	12.50 / 35.539 °C/psu		Net Size / Mesh / Condition 1m / 200m / Good	
Directory\Filename	Cast_08	Sensors			CTD Event 44 jc214-SE-20210522.0316.001	
Personnel	Zoo Gang, Stone Martin Dave C Dave M John					

* Did not wait for LF position to update, towed from morning LF position toward eddy center instead.

Maximum Depth 1012.7 m

Wire Out 1592.5 m

Net	Depth Interval	Time (UTC)	Pressure (m)	Angle (°)	Flow Counts	Vol Filt	Temp (°C)	Salinity (kg/m³)	Notes
1	0-100	2206	999.1	49.0	609	1509.5	8.977	35.446	10-20-30-40-30- 20-10-0-110
2	100-750	2235	736.1	49.6	362	802.6	10.568	35.435	10 Net shot up + I wasn't paying attention
3	750-500	2305	500.8	58.7	376	743.0	10.857	35.460	10
4	500-400	2330	398.8	52.9	315	738.2	10.889	35.461	10-15-10 Dip in profile - ship too slow?
5	400-300	2347	299.1	51.2	213	465.3	10.955	35.464	10
6	300-200	0001	200.6	55.8	196	398.3	11.098	35.478	10
7	200-150	0012	151.0	52.5	143	298.7	11.253	35.496	10
8	150-100	0021	99.6	49.7	124	280.4	11.771	35.544	10
9	100-50	0029	49.0	42.8	106	245.2	12.704	35.584	10
10	50-0	0037			96	246.7			

Switch over winch control @ 100m wire out
 Went down fast - 400m of wire less than usual at bottom
 - nets came up severely tangled - tow discarded

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N. Atlantic

Epoch 3	Day 6	Event JC214-SE- 20210526, 1017.001	Tow 89	Cast 9	Date 2021/05/26 UTC	local
START	Time		Latitude		Longitude	
	1016 UTC	local	48 44.533	N	14 51.716 W	Voltage
END	1417 UTC	local	48 35.500	N	14 48.978 W	
(Day) Night		Heading	165 °	SOG	2.2 knot	
Water Depth	4694.4 m	Wind Spd/Dir	18/170 knot/°	Sky/% Cloud Cover	Rain / 100% cover	
Seas	1.5	SST/SSS	12.38 / 35.513 °C/psu	Net Size / Mesh / Condition	1m / 200 μm / Good	
Directory\Filename	Cast_09	Sensors		CTD Event		
Personnel	Debbie Kristen Hannah Joe Martin Tim Nate John Mike					

Maximum Depth 1005.7 m

Wire Out 2006.5 m

Net	Depth Interval	Time (UTC)	Pressure (m)	Angle (°)	Flow Counts	Vol Filt	Temp (°C)	Salinity (kg/m³)	Notes
1	0-1000	1126	999.5	527	784	1681.9	9.168	35.435	10-20-30-40-30-20-10-0
2	1000-750	1159	749.0	56.5	494	965.6	10.515	35.432	0-10-15
3	750-500	1229	499.1	58.8	447	828.9	10.850	35.460	15
4	500-400	1248	400.3	583	285	533.6	10.904	35.589	10-15-10
5	400-300	1311	299.6	58.2	323	611.8	10.964	35.462	10-15-10
6	300-200	1334	199.1	59.4	322	628.1	11.186	35.487	10
7	200-150	1344	150.2	61.2	140	257.6	11.446	35.508	10
8	150-100	1354	100.1	57.4	141	256.8	12.361	35.571	10
9	100-50	1406	49.7	55.9	166	331.1	12.557	35.562	10
10	50-0	1417			144	360.6			10

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Epoch 3	Day 6	Event 20210526, 2119.001	Tow 90	Cast 10	Date 2021/05/26 UTC	local		
START	Time		Latitude		Longitude			
	2118 UTC		48 44.599 N		14 52.693 W			
END	0146 UTC		48 50.089 N		15 06.525 W			
Day / Night		Heading 300 °		SOG 2.3 knot				
Water Depth 4714.0 m		Wind Spd/Dir 11/290 knot/°		Sky/% Cloud Cover				
Seas		SST/SSS 12.85 / 35.849 °C/psu		Net Size / Mesh / Condition 1m/200 μ Good				
Directory\Filename Cast_10			Sensors			CTD Event		
Personnel Zoo Gang Martin Dave C								

Maximum Depth 1015.2 m

Wire Out 1862.5 m

Net	Depth Interval	Time (UTC)	Pressure (m)	Angle (°)	Flow Counts	Vol Filt	Temp (°C)	Salinity (kg/m³)	Notes
1	0-100	2253	999.6	40.9	1122	2852.9	8.941	35.449	Brought up to check nets 10-20-30-20-10
2	100-200	2321	747.9	57.2	393	755.5	10.578	35.434	0-10-15-10
3	200-300	2353	500.0	62.5	482	840.9	10.874	35.460	10-15-10
4	300-400	0017	400.4	59.0	360	672.0	10.937	35.460	10-15-10
5	400-500	0041	299.7	61.4	358	663.5	11.100	35.476	10
6	300-200	0105	200.1	58.8	343	656.1	11.565	35.523	10
7	200-150	0114	149.8	60.5	130	232.4	11.959	35.553	10
8	150-100	0125	100.0	62.2	153	280.3	12.533	35.567	10
9	100-50	0135	50.0	59.3	152	286.7	12.656	35.573	10
10	50-0	0146			149	365.8			10