CCE-P2107 MOCNESS tows				July - Aug 2021								
R/V Revelle				1 m2 frame, 202-µm mesh, SIO Frame								CYCLE AVERAGE
				Carl Mattson's LED strobe (2 rows)								T,S,rho
HAUL	**CYCLE**	TOW	DATE	Event No.	START IME (PDT	END TIME (PDT)	MAX DEPTH	DEPTH INTERVAL	FIXATIVE	STROBE ON or OFF	COMMENTS	
0	Test	Test	14/Jul/2021	20210714.2349.001	16:55	21:06	1012	100	Live Sorted: Acoustics + rhizarians	OFF		
1	Station N	1	17/Jul/2021	20210717.2010.001	13:29	17:24	1034	100	50% EtOH 25% Size Fract 25% Formalin	ON	significant holes in nets	
2	Station N	2	18/Jul/2021	20210718.0720.001	0:20	4:03	1037	100	50% EtOH 25% Size Fract 25% Formalin	On	significant holes in nets	
3	Station N	3	18/Jul/2021	20210718.1708.002	10:08	13:56	1081	100	Live Sorted: Acoustics + rhizarians	OFF	Skipped nets 1-2 because of holes	
4	**1**	1	22/Jul/2021	20210722.2036.001	13:36	15:35	465	50	50% EtOH 50% Size Fract	OFF		
5	**1**	2	22/Jul/2021	20210723.0535.001	22:35	0:32	465	50	50% EtOH 50% Size Fract	OFF		
6	**1**	3	23/Jul/2021	20210723.2036.001	13:37	17:29	1020	100	50% EtOH 25% Size Fract 25% Formalin	ON		
7	**1**	4	23/Jul/2021	20210724.0453.001	21:54	1:32	1068	100	50% EtOH 25% Size Fract 25% Formalin	ON		
8	**1**	5	24/Jul/2021	20210724.2020.001	13:15	15:04	483	50	50% EtOH 50% Formalin	OFF		
9	**1**	6	24/Jul/2021	20210725.0528.001	22:21	0:16	479	50	50% EtOH 50% Formalin	OFF	Flowmeter not working	
10	**1**	7	25/Jul/2021	20210725.2043.001	13:39	16:24	630	100	Live Sorted: Acoustics + rhizarians	OFF	Flowmeter not working	
11	**2**	1	27/Jul/2021	20210727.1419.001	7:18	9:17	623	100	Live Sorted: Acoustics + rhizarians	OFF	Flowmeter not working	
12	**2**	2	28/Jul/2021	20210728.2023.001	13:27	15:20	482	50	Live Sorted: Acoustics + rhizarians	OFF	because no quantitative flowmeter data	
13	**2**	3	28/Jul/2021	20210729.0151.001	16:41	18:31	483	50	50% Size Fract 50% Formalin	OFF	not working (after changing location)	
14	**2**	4	28/Jul/2021	20210729.0521.001	22:21	23:58	464	50	50% Size Fract 50% Formalin	OFF	New flowmeter	
15	**2**	5	29/Jul/2021	20210729.2035.001	13:31	15:22	475	50	50% Formalin 50% EtOH	OFF		
16	**2**	6	29/Jul/2021	20210730.0518.001	22:13	0:20	459	50m	50% Formalin 50% EtOH	OFF		
17	**2**	7	31/Jul/2021	20210731.2020.001	13:20	17:33	1035	100m	50% EtOH 25% Size Fract 25% Formalin	ON		
18	**2**	8	31/Jul/2021	20210801.0439.001	21:39	1:51	1023	100m	50% EtOH 25% Size Fract 25% Formalin	ON		
19	**3**	1	3/Aug/2021	20210803.2025.001	13:26	15:29	477	50	50% Size Fract 50% Formalin	OFF	ed, washed and repaired prior to cycle	
20	**3**	2	3/Aug/2021	20210804.0556.001	22:52	0:40	466	50	50% Size Fract 50% Formalin	OFF		
21	**3**	3	4/Aug/2021	20210804.2017.001	13:17	14:59	481	50	50% Formalin 50% EtOH	OFF		
22	**3**	4	4/Aug/2021	20210805.0530.002	22:33	0:17	469	50	50% Formalin 50% EtOH	OFF		
23	**3**	5	5/Aug/2021	20210805.2132.001	14:31	17:34	799	100	Live Sorted: Acoustics + rhizarians	OFF		
24	**3**	6	6/Aug/2021	20210806.2122.001	14:21	18:02	1049	100	50% EtOH 25% Size Fract 25% Formalin	ON		
25	**3**	7	6/Aug/2021	20210807.0609.001	23:11	2:43	1019	100	50% EtOH 25% Size Fract 25% Formalin	ON		
26	**DDT**	1	12/Aug/2021	20210813.0138.001	15:40	20:58	794	100	Frozen - Lihini	ON	3 nets only	

(for nearshore)

MOCNESS Data Sheet

Cruise P2107 Date 17 July 2021 Haul # 1 Station ~~Cycle #~~ N Tow # 1

Wind Speed 7 (kts.) Direction 249 (°) Sea State 4-5 (ft.)

File Name: Processed ______ Raw StationNTow1a_01.he

Start Time 1329 (PDT) **End** Time ______ (PDT)

Lat 36 31.077N Lat ______

Long 122 17.119 W Long ______

Pre-deployment checks:
- ✓ Flow Meter
- ✓ Sliders
- ✓ Stepping Motor
- ✓ Net Response
- ✓ Clean Optical Surfaces
- ✓ Transmissometer
- — Fluorometer not working
- ✓ Oxygen Sensor
- ✓ Strobe

Event deploy # 20210717.2010.001 Event rec. # 20210718.0906.001

Frame Size 1 m²

Net Mesh 202 µm

Bottom Depth 1485 (m) Console Operator S. Matthews, M. Deama, G. Cowley

Net Tow Information

Net	Time Open	Angle	Flow Counts	Volume Filtered (m³)	Max Depth (m)	Min Depth (m)	Split	Fixative	Split/Fixative	Net resp?
0	1329	47.2	37442	5642.4	1034	0	25%	5% Form.	50% EtOH 25% SizeFrac -80	✓
1	1518	55.6	11357	1499.1	999.9	800.3	↓	5% Form.	↓	✓
2	1544	47.2	11771	1559.8	800.3	595.3		5% Form.		No Net Rsp manual confirm
3	1610	46.1	5797	751.8	595.3	498.1		5% Form.		manual confirm
4	1624		5885	760	498	399		5% Form.		manual conf. but it didn't conf.
5	1637	48.3	5183	774	399	300		5% Form.		✓
6	1650	49.2	5157	742.2	300	199.4		5% Form.		✓
7	1702	46.8	4684	683.6	199.4	98.4		5% Form.		✓ NOT 400
8	1714	41.4	2079	309.2	98.4	48.5		5% Form.		
9	1719		1	272	48.5	surf	↓	5% Form.	↓	
Closed										

Surface Readings: forgot
Pressure (m) ______
Temp (° C) ______
Salinity (‰) ______
O2 (ml/l) ______
Fluor. (V) ______
BeamC (/m) ______
CTD/M volts (V) ______
wire out (m) ______
Time (PDT) ______

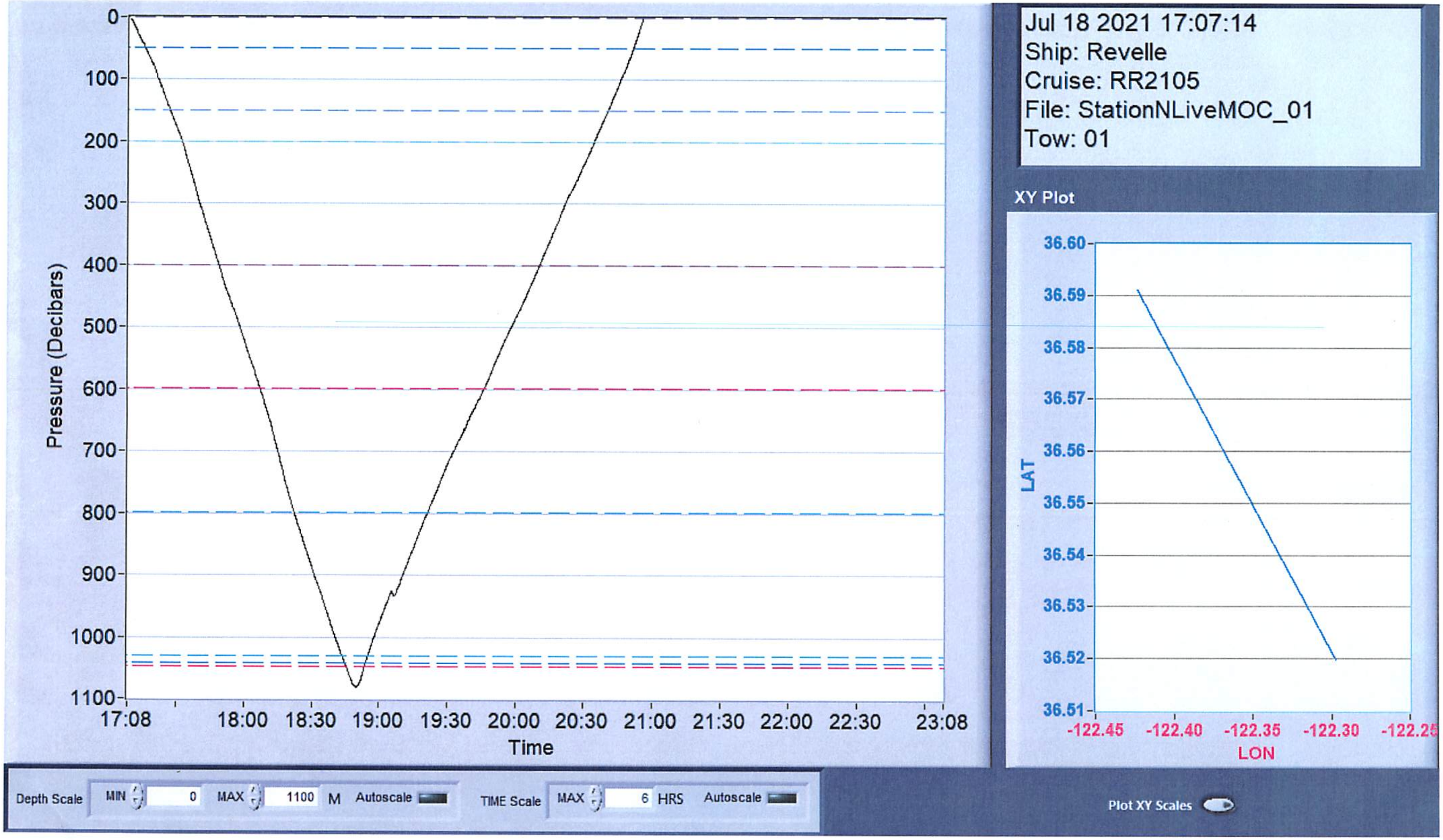
Notes: data recording started @ ~30MWO due to LVPKI restart
fluorometer works once in water - fl. stick may not work in day
wrote down #s for net 4 b/c manual confirm didn't work

Winch stop @ 527 MWO - bad wrap stopped for ~15s

0-1000
1000-800
800-600
600-500
500-400
400-300
300-200
200-100
100-50
50-0

At Depth Readings:
Pressure (m) 1034
Temp (° C) 4.1
Salinity (‰) 34.44
O2 (ml/l) 0.39
Fluor. (V) 0.2
BeamC (/m) 0.045
CTD/M volts (V) 13.78
wire out (m) 19
Time (PDT) 1513

Strobe Parameters:
Time on/off 1316 -
Depths on 1024 -
Interval (ms) 1000
Pulse wdth (m) 40
Intensity (%) 50
Strobe volts (v) 18.7

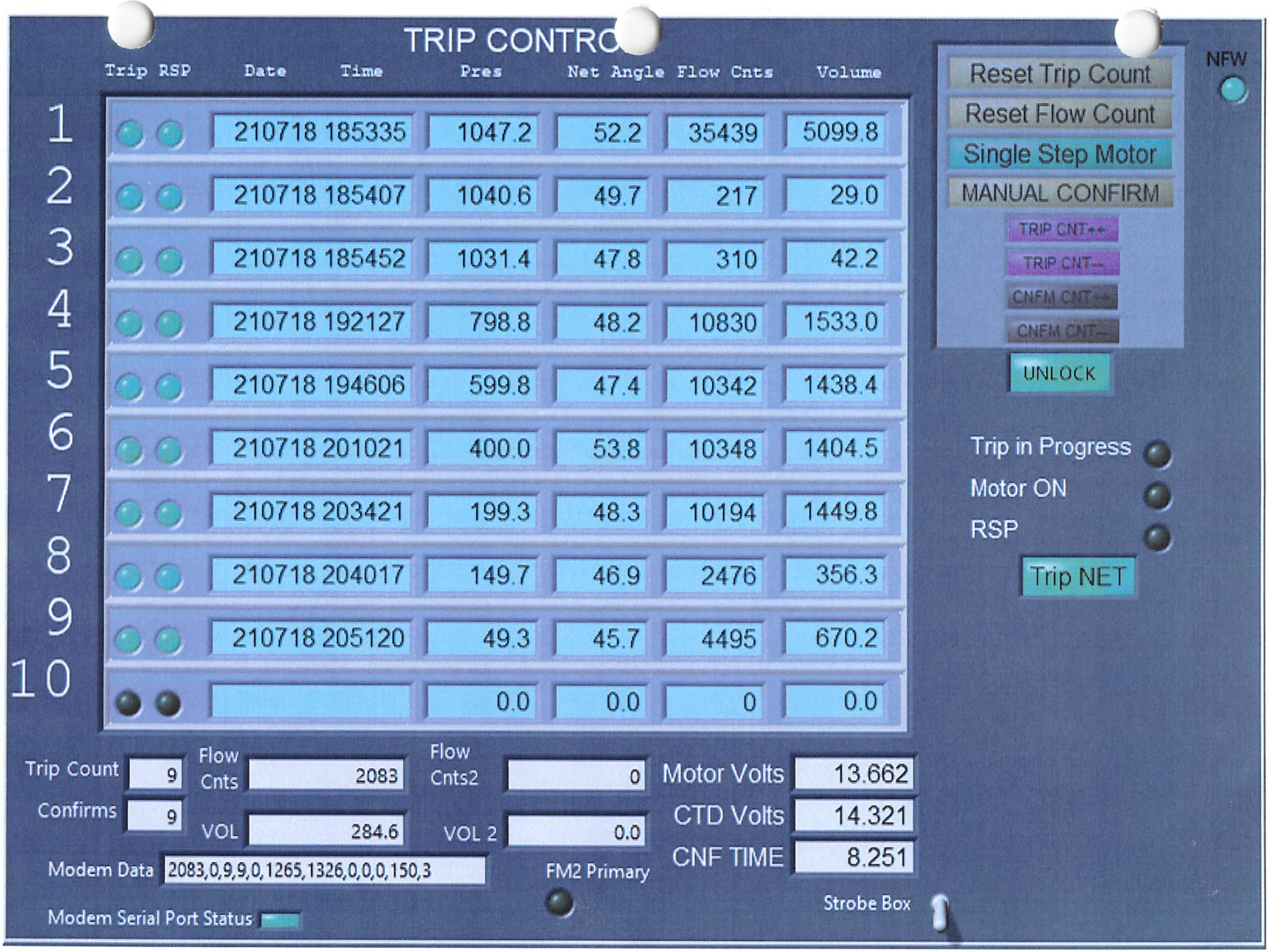


Jul 18 2021 17:07:14
Ship: Revelle
Cruise: RR2105
File: StationNLiveMOC_01
Tow: 01

Depth Scale MIN 0 MAX 1100 M Autoscale

TIME Scale MAX 6 HRS Autoscale

Plot XY Scales

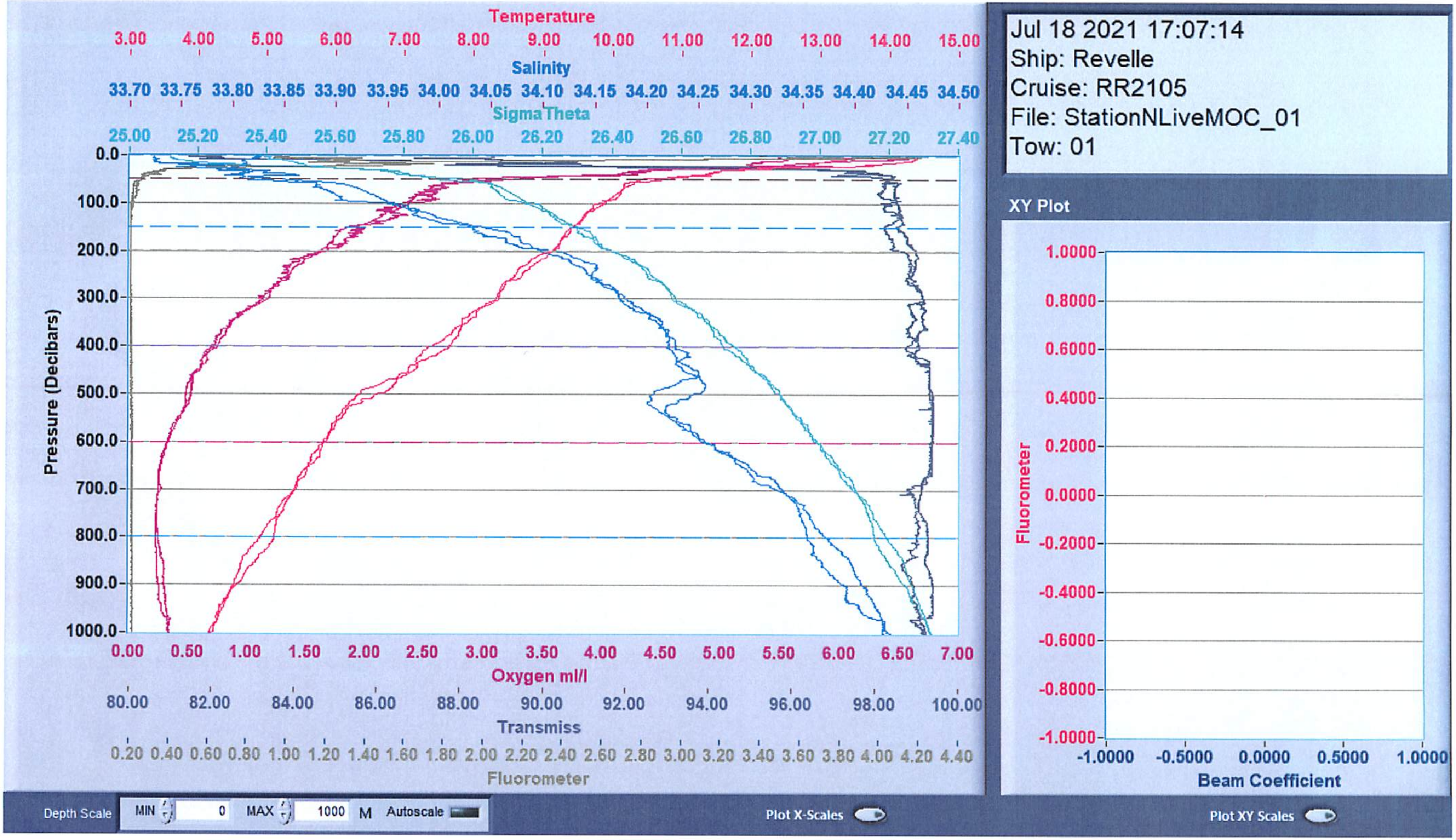


TRIP CONTRO

	Trip	RSP	Date	Time	Pres	Net Angle	Flow Cnts	Volume
1	●	●	210718	185335	1047.2	52.2	35439	5099.8
2	●	●	210718	185407	1040.6	49.7	217	29.0
3	●	●	210718	185452	1031.4	47.8	310	42.2
4	●	●	210718	192127	798.8	48.2	10830	1533.0
5	●	●	210718	194606	599.8	47.4	10342	1438.4
6	●	●	210718	201021	400.0	53.8	10348	1404.5
7	●	●	210718	203421	199.3	48.3	10194	1449.8
8	●	●	210718	204017	149.7	46.9	2476	356.3
9	●	●	210718	205120	49.3	45.7	4495	670.2
10	●	●			0.0	0.0	0	0.0

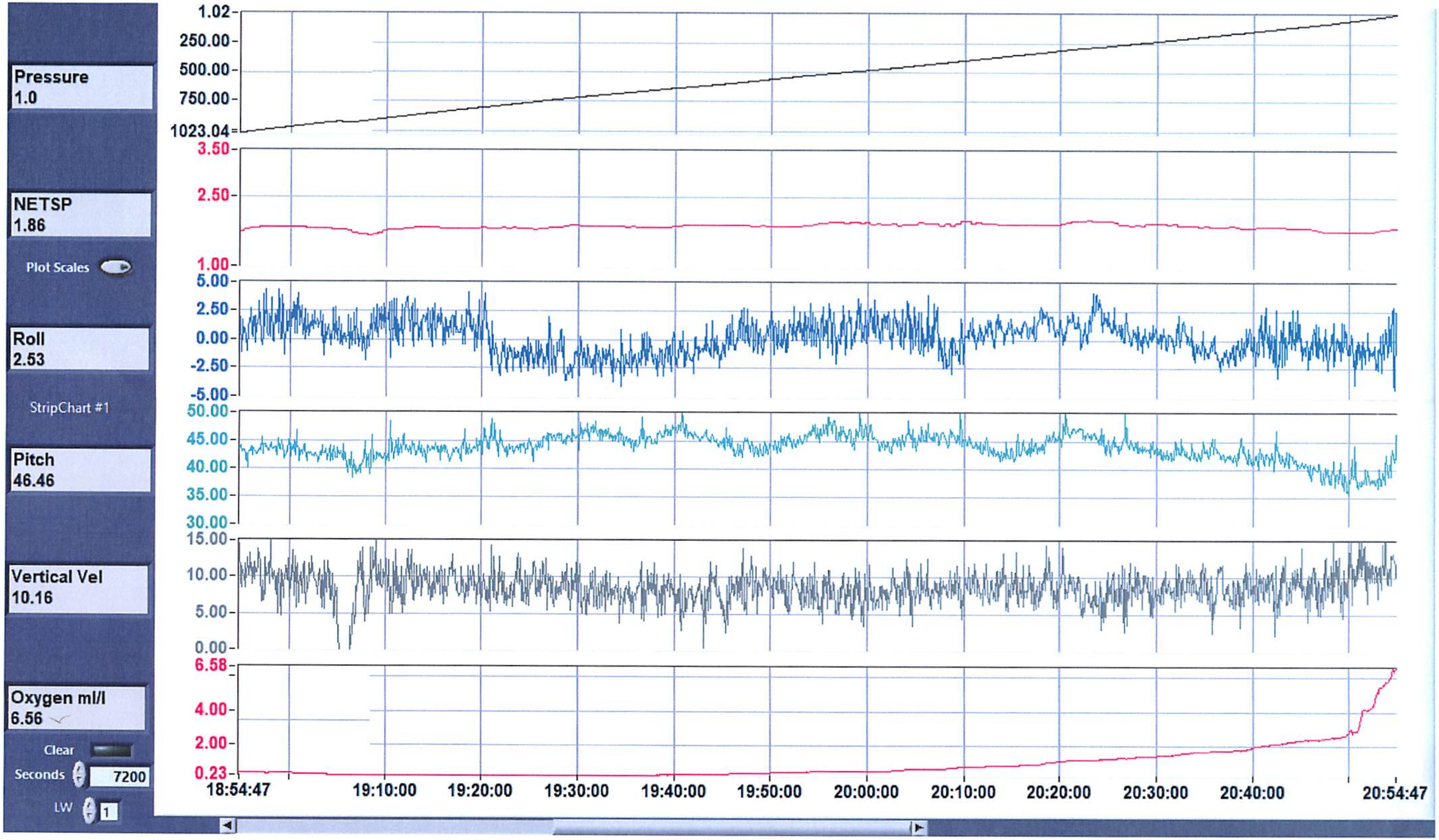
Trip in Progress ●
Motor ON ●
RSP ●

Trip Count 9
Confirms 9
Flow Cnts 2083
VOL 284.6
Flow Cnts2 0
VOL 2 0.0
Motor Volts 13.662
CTD Volts 14.321
CNF TIME 8.251
Modem Data 2083,0,9,9,0,1265,1326,0,0,0,150,3
FM2 Primary ●
Modem Serial Port Status ▬



Jul 18 2021 17:07:14
Ship: Revelle
Cruise: RR2105
File: StationNLiveMOC_01
Tow: 01

Depth Scale MIN 0 MAX 1000 M Autoscale



Pressure 1.0

NETSP 1.86

Roll 2.53

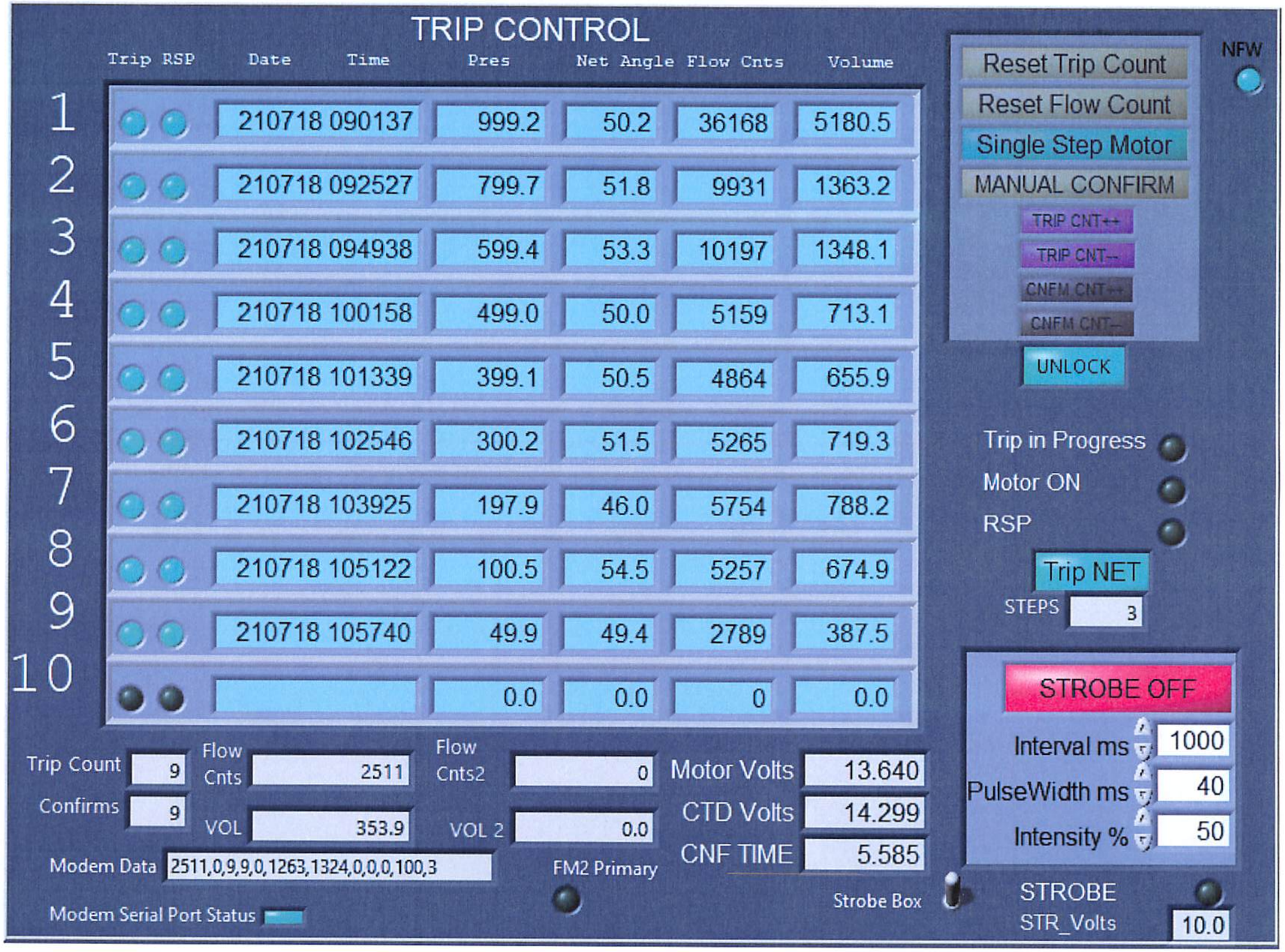
Pitch 46.46

Vertical Vel 10.16

Oxygen ml/l 6.56

Seconds 7200

LW 1



TRIP CONTROL

	Trip	RSP	Date	Time	Pres	Net Angle	Flow Cnts	Volume
1	●	●	210718	090137	999.2	50.2	36168	5180.5
2	●	●	210718	092527	799.7	51.8	9931	1363.2
3	●	●	210718	094938	599.4	53.3	10197	1348.1
4	●	●	210718	100158	499.0	50.0	5159	713.1
5	●	●	210718	101339	399.1	50.5	4864	655.9
6	●	●	210718	102546	300.2	51.5	5265	719.3
7	●	●	210718	103925	197.9	46.0	5754	788.2
8	●	●	210718	105122	100.5	54.5	5257	674.9
9	●	●	210718	105740	49.9	49.4	2789	387.5
10	●	●			0.0	0.0	0	0.0

Trip Count 9

Confirms 9

Flow Cnts 2511

VOL 353.9

Flow Cnts2 0

VOL 2 0.0

Motor Volts 13.640

CTD Volts 14.299

CNF TIME 5.585

Modem Data 2511,0,9,9,0,1263,1324,0,0,0,100,3

Modem Serial Port Status

FM2 Primary ●

Trip in Progress ●

Motor ON ●

RSP ●

STEPS 3

Interval ms 1000

PulseWidth ms 40

Intensity % 50

STROBE ●

STR_Volts 10.0

MOCNESS Data Sheet

Cruise P2107 Date 18 July 2021 Haul # 2 Cycle # Station N Tow # MOCNESS 2

Wind Speed 13.4 (kts.) Direction ____ (°) Sea State 4 (ft.)

Pre-deployment checks:

- ✓ Flow Meter
- ✓ Sliders
- ✓ Stepping Motor
- ✓ Net Response
- ✓ Clean Optical Surfaces
- ✓ Transmissometer
- ✓ Fluorometer
- ✓ Oxygen Sensor
- ✓ Strobe

File Name: Processed ____ Raw Station N Tow2-01.hex

Start Time 0020 (PDT) **End** Time ____ (PDT)

Lat 36 30.696N Lat ____

Long 122 16.600W Long ____

Event deploy # 20210718.0720.001 Event rec. # ____

Frame Size 1 m²

Net Mesh 202 µm

Bottom Depth 1422 (m) Console Operator M. Decima, G. Cawley, D. Capone

10 to 100
15 to 300
20 past

Net Tow Information

Net	Time Open	Angle	Flow Counts	Volume Filtered (m^3)	Max Depth (m)	Min Depth (m)	Split	Fixative	Split/Fixative	Net resp?
0	0020	50.2	36168	5180.5	1037	999.2	25%	5% Form.	50% EtoH 25% Size Frac - 80%	✓
1	0201	51.8	9931	1363.2	999.2	799.7	↓	5% Form.	↓	✓
2	0225	53.3	10197	1348.1	799.7	599.4		5% Form.		✓
3	0249	50.0	5169	713.1	599.4	499.0		5% Form.		✓
4	0301	50.5	4864	655.9	499.0	399.1		5% Form.		✓
5	0313	51.5	5265	719.3	399.1	300.2		5% Form.		✓
6	0325	46.0	5754	788.2	300.2	197.9		5% Form.		manual confirm
7	0339	54.5	5257	674.9	197.9	100.5		5% Form.		✓
8	0351	49.4	2789	387.5	100.5	49.9		5% Form.		✓
9	0357				49.9	0		5% Form.		
Closed										

Surface Readings:

Pressure (m) 2.3
Temp (° C) 13.405
Salinity (‰) 33.833
O2 (ml/l) 6.255
Fluor. (V) 1.8
BeamC (/m) 0.009
CTD/M volts (V) 13.66
wire out (m) 5.8
Time (PDT) 0018

At Depth Readings:

Pressure (m) 1037
Temp (° C) 4.018
Salinity (‰) 34.453
O2 (ml/l) 0.42
Fluor. (V) 0.2
BeamC (/m) 0.065
CTD/M volts (V) 14.29/13.50
wire out (m) 1825.5
Time (PDT) 01:58

Notes: Down @ 10m/min to 100m then
15m/min to 300m then
20m/min from 300m

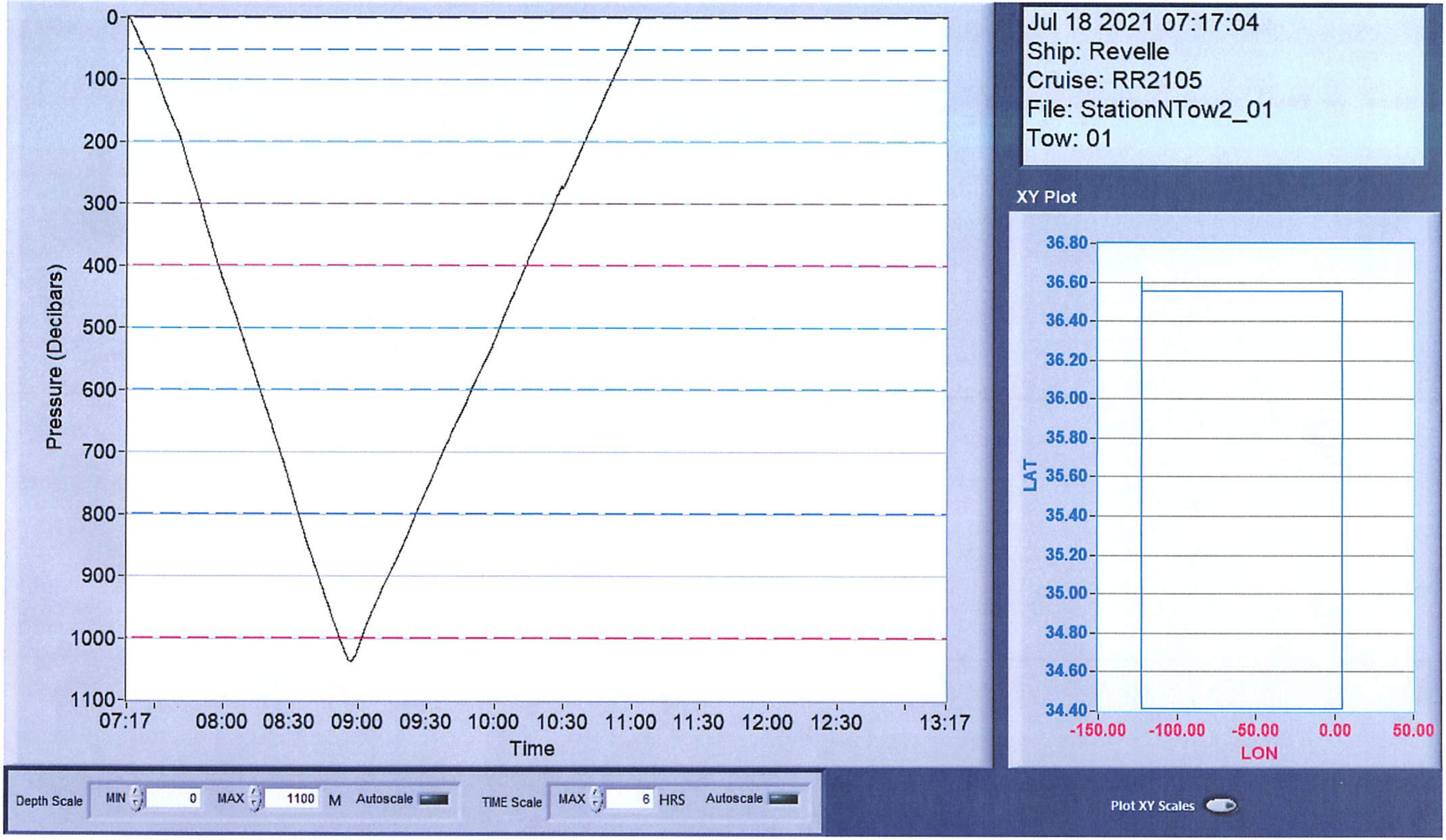
Strobes started a 970m

Stopped at 272.3
Letting out 275.1
Bringing In 8
wire blip

0-1000
~~1000-800~~
~~800-600~~
~~600-500~~
~~500-400~~
~~400-300~~
~~300-200~~
~~200-100~~
~~100-50~~
~~50-0~~

Strobe Parameters:

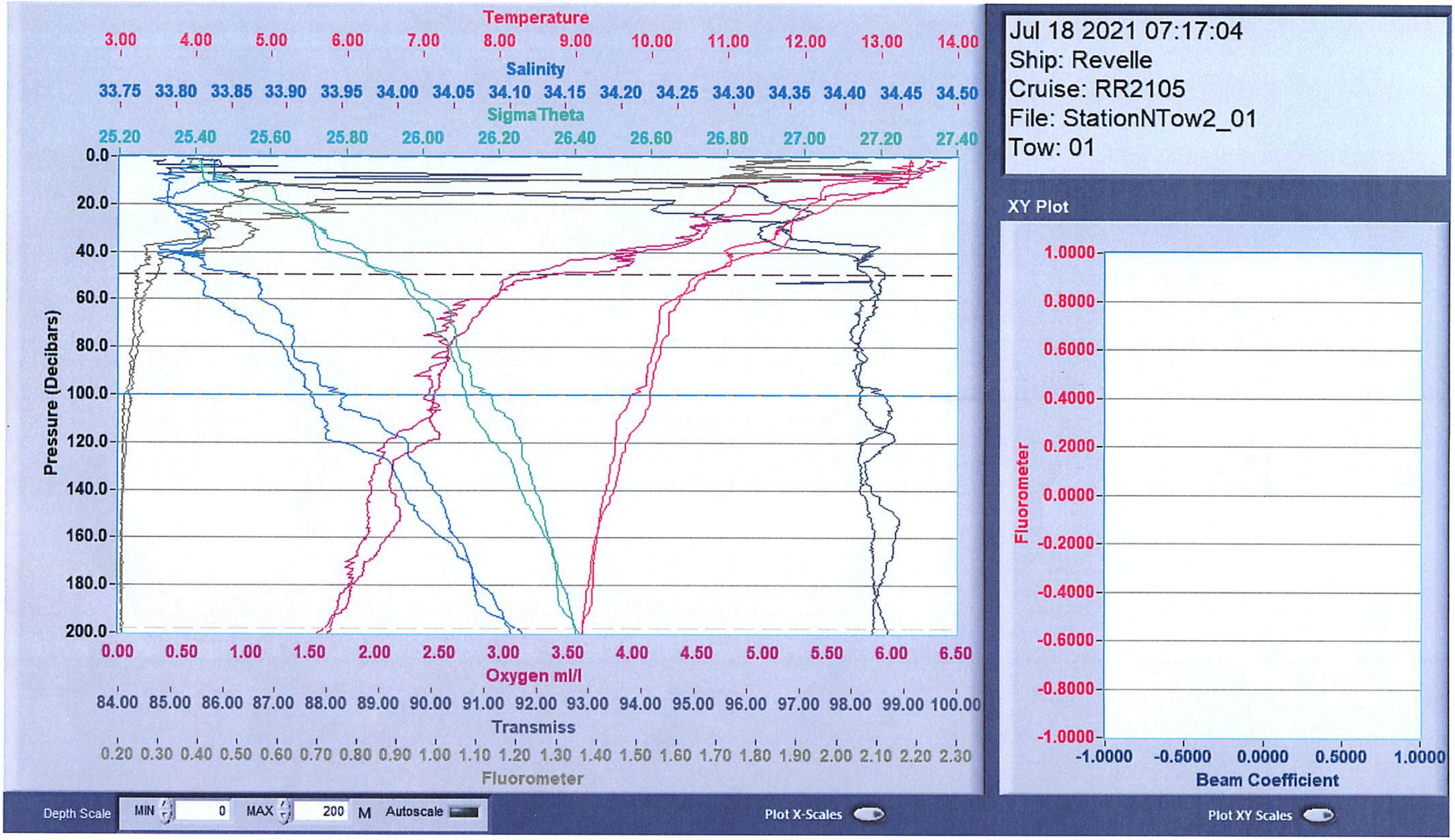
Time on/off 0021/
Depths on 970
Interval (ms) 1000
Pulse wdth (m) 40
Intensity (%) 50
Strobe volts (v) 18.0



Jul 18 2021 07:17:04
Ship: Revelle
Cruise: RR2105
File: StationNTow2_01
Tow: 01

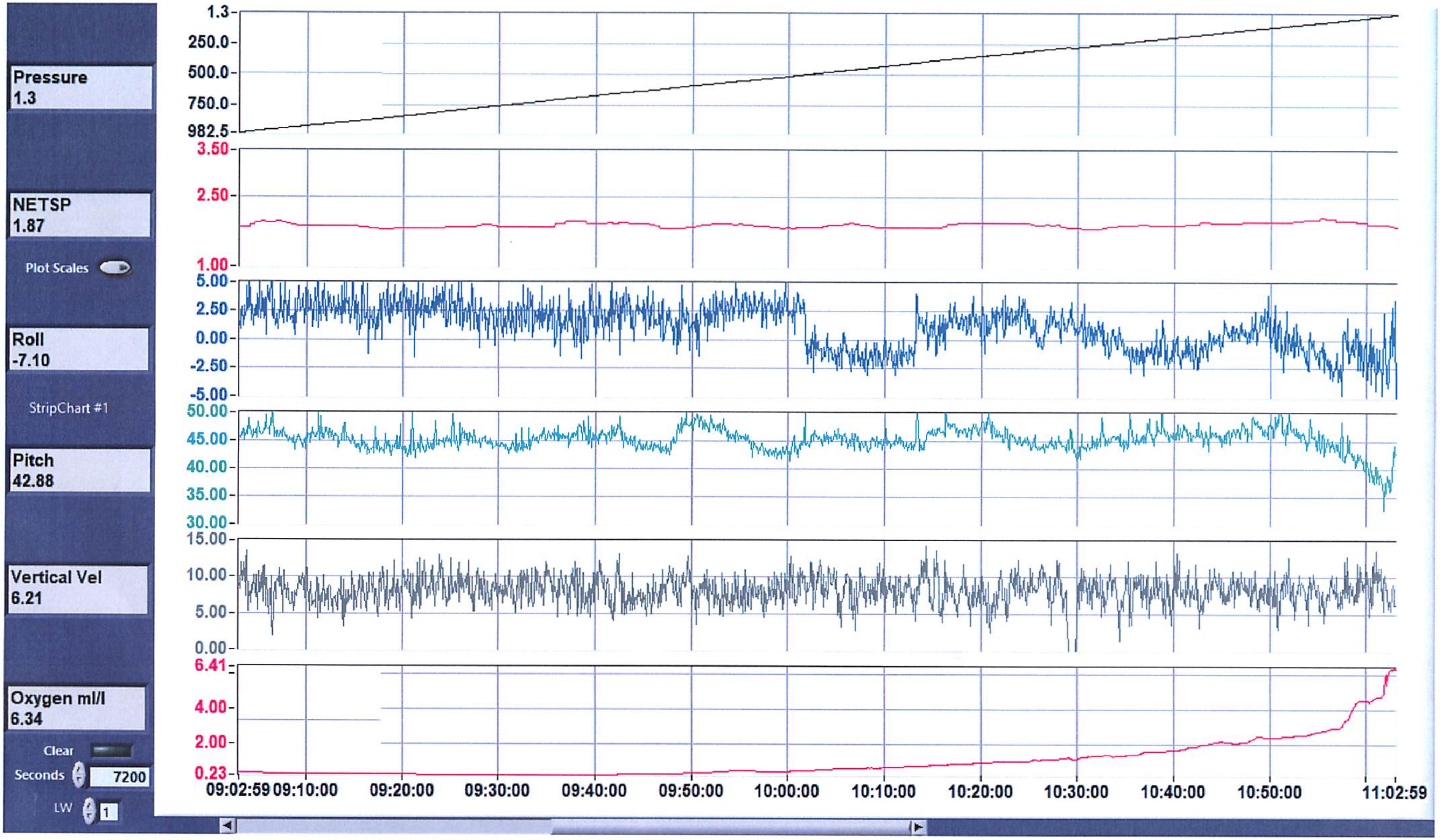
Depth Scale MIN 0 MAX 1100 M

TIME Scale MAX 6 HRS



Jul 18 2021 07:17:04
Ship: Revelle
Cruise: RR2105
File: StationNTow2_01
Tow: 01

Depth Scale MIN 0 MAX 200 M Autoscale



Pressure
1.3

NETSP
1.87

Roll
-7.10

Pitch
42.88

Vertical Vel
6.21

Oxygen ml/l
6.34

Seconds 7200

LW 1

MOCNESS Data Sheet

Cruise P2167 Date 18 July 21 Haul # 3 Station Cycle # N Tow # 3

Wind Speed 5 (kts.) Direction 324 (°) Sea State 3-5 (ft.)

File Name: Processed ______ Raw Station N Live Moc_01.hex

Start Time 1008 (PDT) **End** Time 1:56 (PDT)

Lat 36 31.199 Lat 36 35.474

Long 122 17.854 Long 122 25.453W

Pre-deployment checks:
- ✓ Flow Meter
- ✓ Stepping Motor
- ✓ Net Response
- ✓ Clean Optical Surfaces
- ✓ Transmissometer
- ✓ Fluorometer
- ✓ Oxygen Sensor
- ✓ Strobe
- ✓ Sliders

Event deploy # ______ Event rec. # ______

Frame Size 1 m^2

Net Mesh 202 µm

Bottom Depth 1442 (m) Console Operator S. Matthews, D. Capone

Net Tow Information

Net	Time Open	Angle	Flow Counts	Volume Filtered (m^3)	Max Depth (m)	Min Depth (m)	Split	Fixative	Split/Fixative	Net resp?
0	10:08	52.2	35439	5099.8	1081	0		5% Form.	Live	✓
1								5% Form.		✓
2								5% Form.		✓
3	12:21	48.2	10,836	1533.0	1031.4	798.8		5% Form.		✓
4	12:46	47.4	10,342	1438.4	798.8	599.8		5% Form.		✓
5	1:11	53.8	10,348	1404.5	599.8	400.0		5% Form.		✓
6	1:34	48.3	10,194	1449.8	400.0	199.3		5% Form.		✓
7	1:40	46.9	2,476	356.3	199.3	149.7		5% Form.		✓
8	1:51	45.7	4495	670.2	149.7	49.3		5% Form.		✓
9								5% Form.		
Closed										

Surface Readings:

Pressure (m)	4
Temp (° C)	13.96
Salinity (‰)	33.72
O2 (ml/l)	5.557
Fluor. (V)	1.7
BeamC (/m)	0.482
CTD/M volts (V)	14.28
wire out (m)	1.5
Time (PDT)	1008

At Depth Readings:

Pressure (m)	1081
Temp (° C)	3.94
Salinity (‰)	34.458
O2 (ml/l)	0.438
Fluor. (V)	0.2
BeamC (/m)	.048
CTD/M volts (V)	14.3/13.9
wire out (m)	1861
Time (PDT)	11:50

Notes: Net tow for rhizarians for Biard group and animals for Sven. Nets 1 + 2 torn, not good - will target rhizarians and biomass layers with other nets.

@927.7 wire let out

N0 0-1000
~~N1~~
~~N2~~
N3 8-6
N4 6-4
N5
N6
N7
N8
N9

dead

Strobe Parameters:

Time on/off ______
Depths on ______
Interval (ms) ______
Pulse wdth (m) ______
Intensity (%) ______
Strobe volts (v) ______

MOCNESS Data Sheet

Cruise P2107 Date 22 July 2021 Haul # 4 Cycle # 1 Tow # 1

Wind Speed 17 (kts.) Direction 326 (°) Sea State ____ (ft.)

Pre-deployment checks:
- ✓ Flow Meter
- ✓ Sliders
- ✓ Stepping Motor
- ✓ Net Response
- ✓ Clean Optical Surfaces
- ✓ Transmissometer
- — Fluorometer
- ✓ Oxygen Sensor
- ✓ Strobe

File Name: Processed ____ Raw C1-T1-01.hex

Start Time 1336 (PDT) **End** Time 203.941227 (PDT)

Lat 36.12382 Lat 36.17760

Long -122.03939 Long -122.09756

Event deploy # ____ Event rec. # ____

Frame Size 1 m^2

Net Mesh 202 µm

Bottom Depth 1421 (m) Console Operator ____

Net Tow Information

Net	Time Open	Angle	Flow Counts	Volume Filtered (m^3)	Max Depth (m)	Min Depth (m)	Split	Fixative	Split/Fixative	Net resp?
0	1336	52.5	22503	2889	465	0	50%	5% Form.	50% size frxn + frozen	✓
1	1439	50.6	7276	990.1	449.8	349.7		5% Form.		✓
2	14 56	48.0	2312	315.0	349.7	299.2		5% Form.		✓
3	15 02	49.3	2426	342.0	299.2	248.7		5% Form.		✓
4	1507	49.0	2065	281.2	248.7	200.3		5% Form.		✓
5	1512	49.0	2786	394.3	200.3	148.8		5% Form.		✓
6	1519	51.9	1627	214.8	148.8	99.0		5% Form.		✓
7	1523	59.4	2517	292.8	99.0	50.5		5% Form.		✓
8	1528	46.7	1625	228	50.5	23.3		5% Form.		
9	15 33	37.7	1199	126.2	23.3	0	↓	5% Form.	↓	
Closed										

Surface Readings:
Pressure (m) 0.9
Temp (° C) 12.081
Salinity (‰) 34.977
O2 (ml/l) 4.987
Fluor. (V) 0.90
BeamC (/m) 0.625
CTD/M volts (V) 14.29 / 13.61
wire out (m) 2.6
Time (PDT) 1337

At Depth Readings:
Pressure (m) 465m
Temp (° C) 7.069
Salinity (‰) 34.246
O2 (ml/l) 0.515
Fluor. (V) 0.02
BeamC (/m) 0.051
CTD/M volts (V) 14.29 / 13.80
wire out (m) 882
Time (PDT) 1434

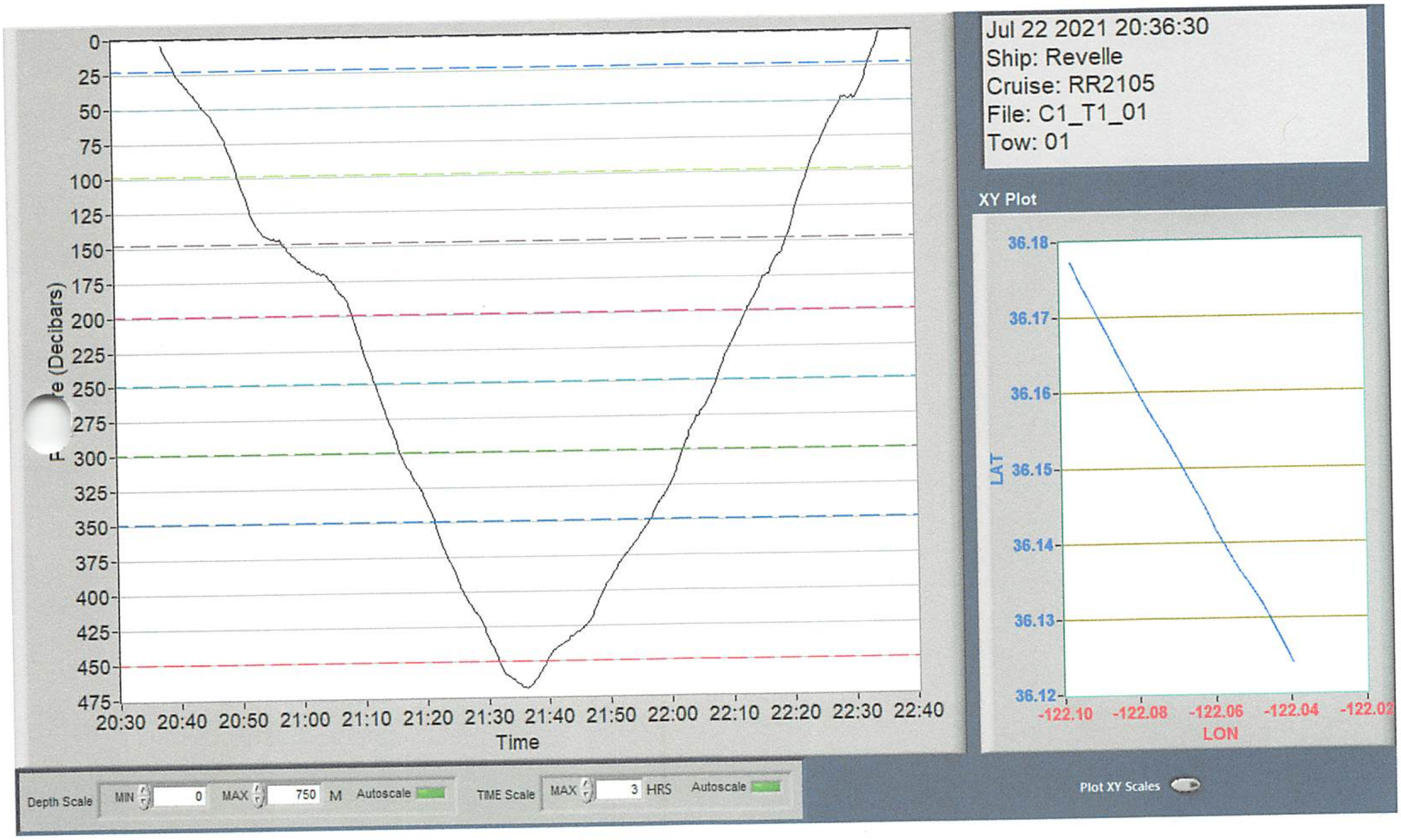
Notes: 1430 - CPA @ 435m net depth on the way down

slowing ship down @ 53m to 2.2 kts Angle getting steep & net speed up to 2.2

going down to 1.9 & angle to ~47 (but bouncing)

Strobe Parameters: OFF
Time on/off ____
Depths on ____
Interval (ms) ____
Pulse wdth (m) ____
Intensity (%) ____
Strobe volts (v) ____

0	0-450
1	450-350
2	350-300
3	300-250
4	250-200
5	200-150
6	150-100
7	100-50
8	50-25
9	25-0

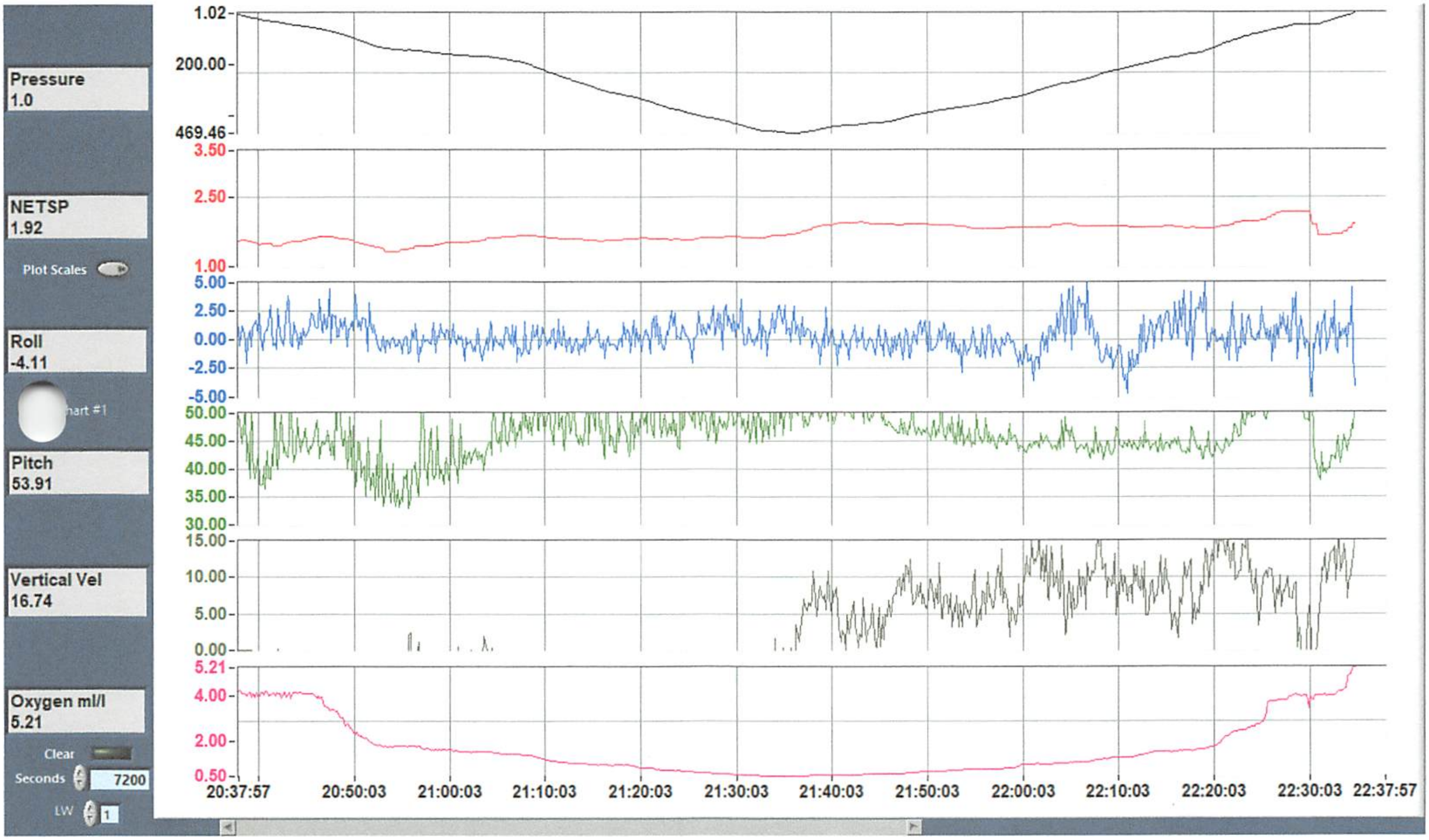


Jul 22 2021 20:36:30
Ship: Revelle
Cruise: RR2105
File: C1_T1_01
Tow: 01

Depth Scale MIN 0 MAX 750 M Autoscale

TIME Scale MAX 3 HRS Autoscale

Plot XY Scales



Pressure
1.0

NETSP
1.92

Roll
-4.11

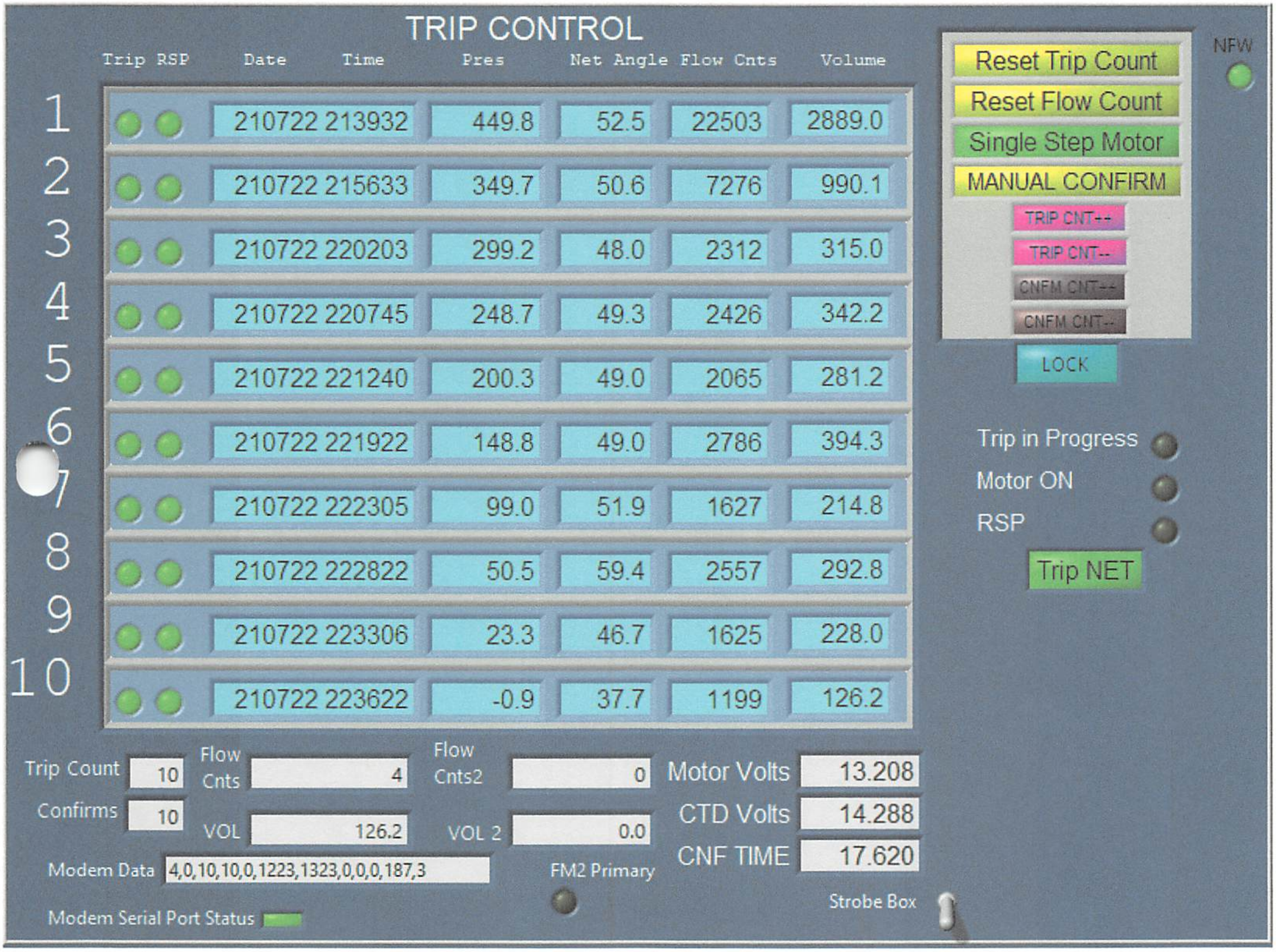
Pitch
53.91

Vertical Vel
16.74

Oxygen ml/l
5.21

Seconds 7200

LW 1



TRIP CONTROL

	Trip	RSP	Date	Time	Pres	Net Angle	Flow Cnts	Volume
1	●	●	210722	213932	449.8	52.5	22503	2889.0
2	●	●	210722	215633	349.7	50.6	7276	990.1
3	●	●	210722	220203	299.2	48.0	2312	315.0
4	●	●	210722	220745	248.7	49.3	2426	342.2
5	●	●	210722	221240	200.3	49.0	2065	281.2
6	●	●	210722	221922	148.8	49.0	2786	394.3
7	●	●	210722	222305	99.0	51.9	1627	214.8
8	●	●	210722	222822	50.5	59.4	2557	292.8
9	●	●	210722	223306	23.3	46.7	1625	228.0
10	●	●	210722	223622	-0.9	37.7	1199	126.2

Trip Count 10

Confirms 10

Flow Cnts 4

VOL 126.2

Flow Cnts2 0

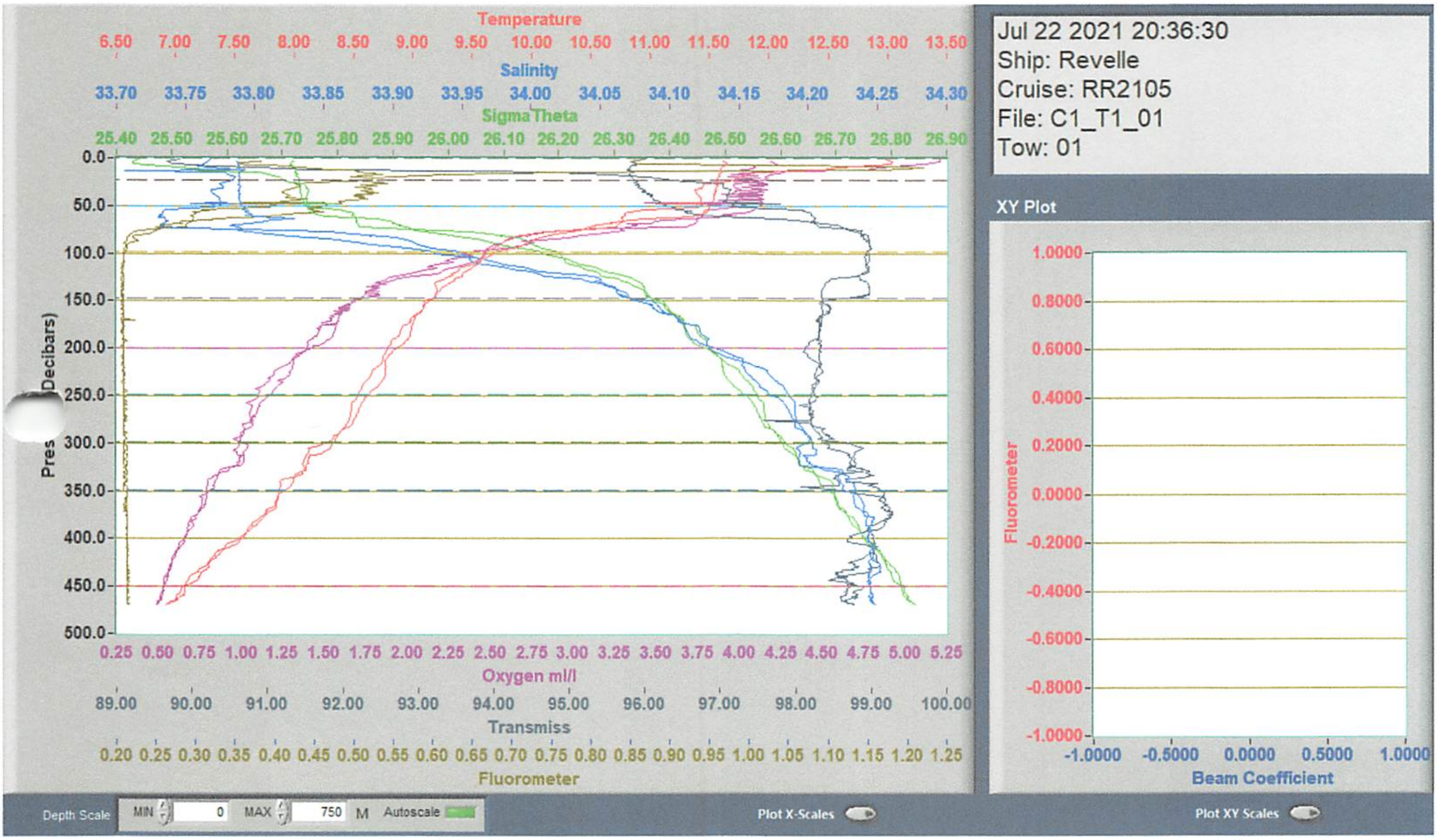
VOL 2 0.0

Motor Volts 13.208

CTD Volts 14.288

CNF TIME 17.620

Modem Data 4,0,10,10,0,1223,1323,0,0,0,187,3



Jul 22 2021 20:36:30
Ship: Revelle
Cruise: RR2105
File: C1_T1_01
Tow: 01

Depth Scale MIN 0 MAX 750 M Autoscale

MOCNESS Data Sheet

Cruise Q2107 Date 22Jul2021 Haul # 5 Cycle # 1 Tow # 2

Wind Speed 14 (kts.) Direction 327 (°) Sea State moderate (ft.)

File Name: Processed ________ Raw c1-T2-01-hex

Start Time 2235 (PDT) **End** Time 204.314109 (PDT)

Lat 36.11613 Lat 36.17917

Long -122.11216 Long -122.16617

Pre-deployment checks:

- ✓ Flow Meter
- ✓ Stepping Motor
- ✓ Net Response
- ✓ Clean Optical Surfaces
- ✓ Transmissometer
- — Fluorometer
- ✓ Oxygen Sensor
- OFF Strobe
- ✓ Sliders

Event deploy # ________ Event rec. # ________

Frame Size 1 m^2

Net Mesh 202 µm

Bottom Depth 1360 (m) Console Operator Dante C.

Net Tow Information

Net	Time Open	Angle	Flow Counts	Volume Filtered (m^3)	Max Depth (m)	Min Depth (m)	Split	Fixative	Split/Fixative	Net resp?
0	2235	55.7	21102	2751.0	~465	0	50%	5% Form.	50% size frac frozen	✓
1	2336	53.6	5695	742.1	449.7	349.6	↓	5% Form.	↓	✓
2	2349	50.6	2969	390.4	349.6	297.7		5% Form.		✓
3	00:55	53.9	2458	315.3	297.7	251.1		5% Form.		✓
4	00:01	53.1	2850	364.4	251.1	200.3		5% Form.		✓
5	00:08	51.0	2668	332.6	200.3	150.4		5% Form.		✓
6	00:14	52.4	2780	357.3	150.4	100.8		5% Form.		✓
7	0020	52	3322	452	100.8	41		5% Form.		✓
8	0027	524	926	125	41	22.5		5% Form.		
9	0029				22.5	0	↓	5% Form.	↓	
Closed										

Surface Readings:

Pressure (m) 7.3

Temp (° C) 12.89

Salinity (‰) 33.71

O2 (ml/l) 4.98

Fluor. (V) 1.0

BeamC (/m) 0.370

CTD/M volts (V) 14.27 / 13.46

wire out (m) 7.0

Time (PDT) 2235

Notes: Forgot to record At depth so recorded as best I could from when net was tripped

Net spd @ 2 kts, but volume filtered is low for net 3

At Depth Readings:

Pressure (m) 449.7

Temp (° C) 6.8

Salinity (‰) 34.254

O2 (ml/l) 0.968

Fluor. (V) 0.2

BeamC (/m) 0.045

CTD/M volts (V) 13.46

wire out (m) 83x

Time (PDT) 16:36

Strobe Parameters: OFF

Time on/off ________

Depths on ________

Interval (ms) ________

Pulse wdth (m) ________

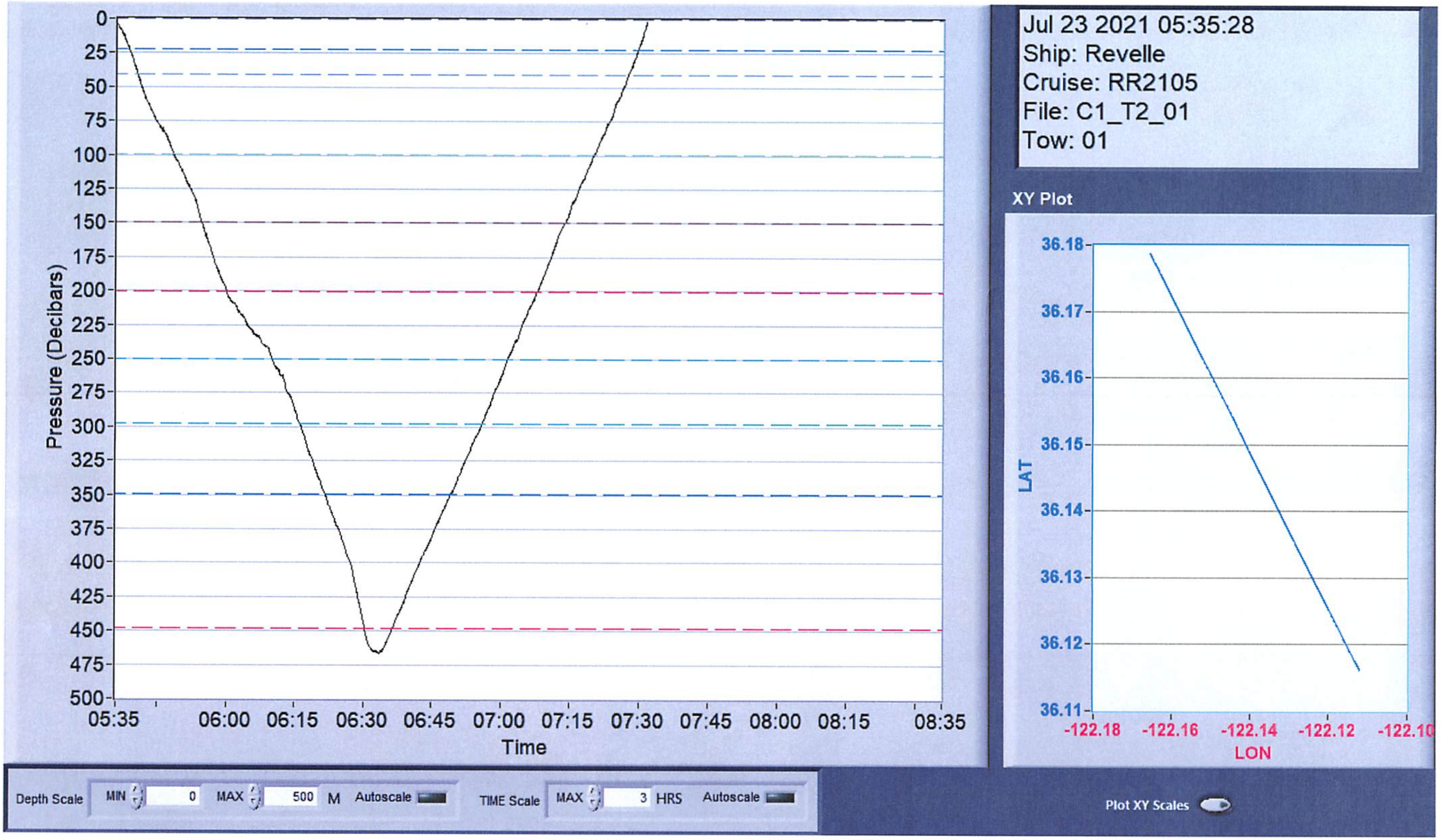
Intensity (%) ________

Strobe volts (v) ________

[illegible] were made

0 0-450
1 450-350
2 350-300
3 300-250
4 250-200
5 200-150
6 150-100
7 100-50
8 50-25
9 25-0


Pyrosomes of the Carribean

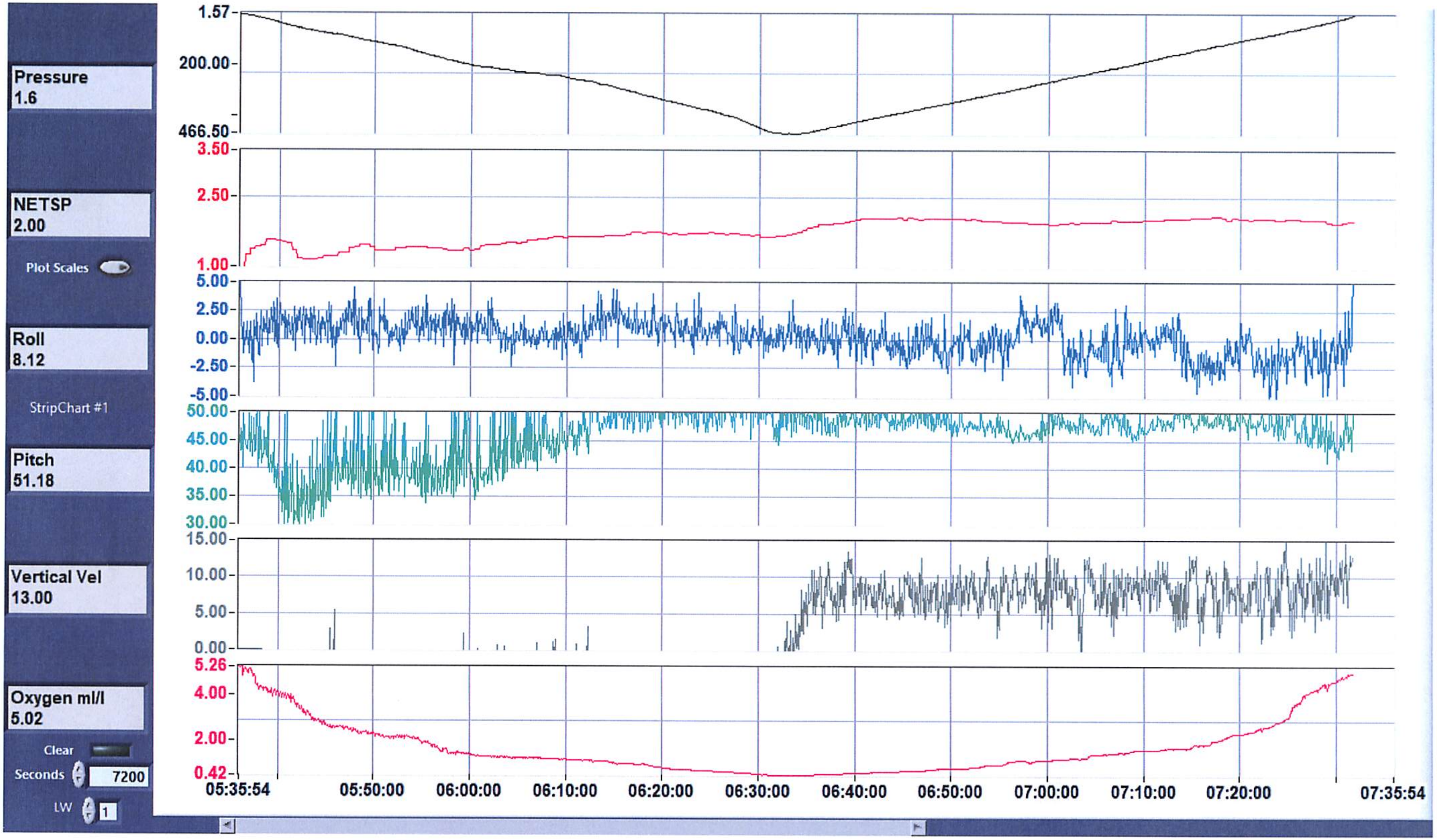


Jul 23 2021 05:35:28
Ship: Revelle
Cruise: RR2105
File: C1_T2_01
Tow: 01

Depth Scale MIN 0 MAX 500 M Autoscale

TIME Scale MAX 3 HRS Autoscale

Plot XY Scales



Pressure
1.6

NETSP
2.00

Roll
8.12

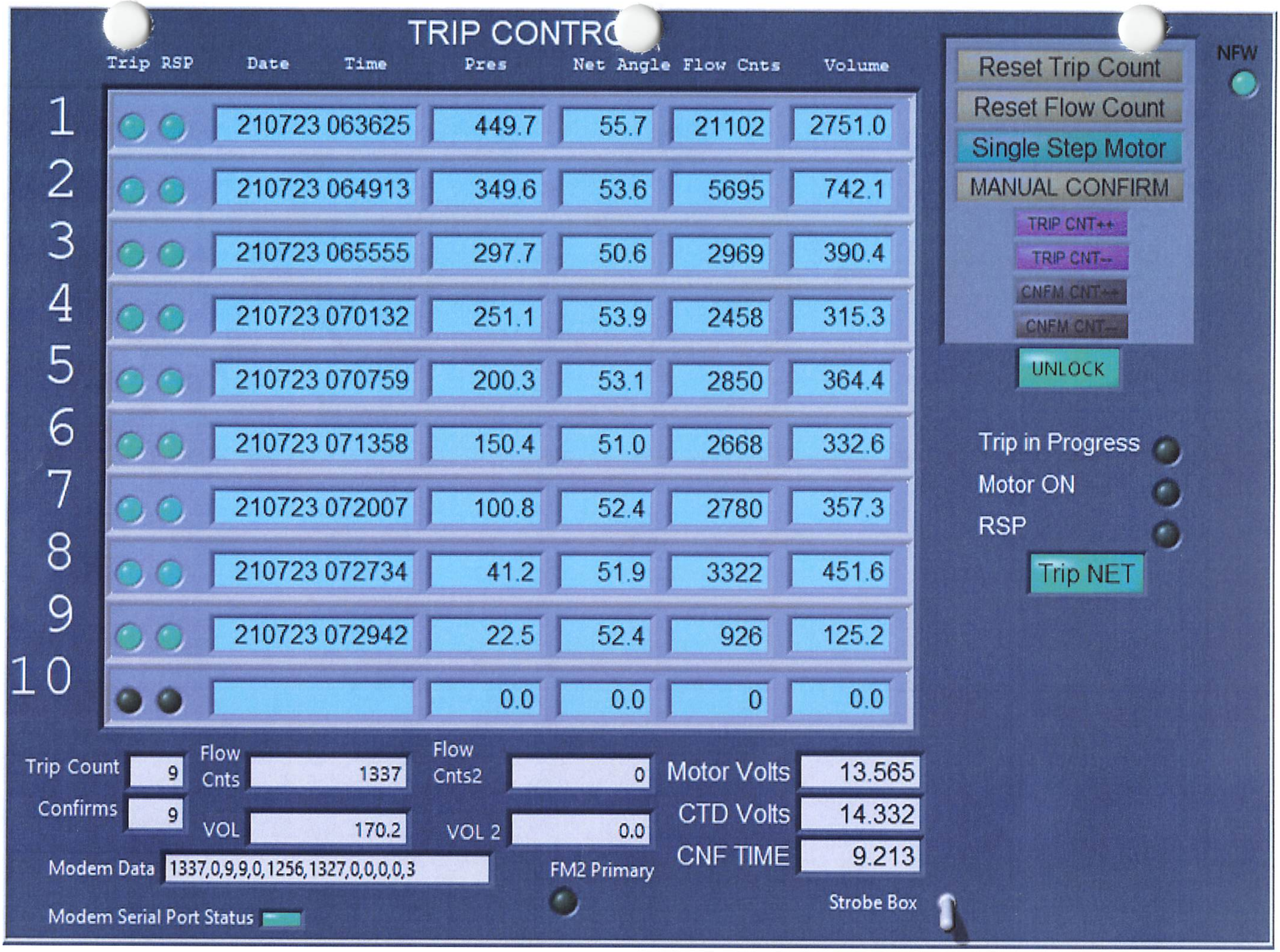
Pitch
51.18

Vertical Vel
13.00

Oxygen ml/l
5.02

Seconds 7200

LW 1



TRIP CONTR

	Trip	RSP	Date	Time	Pres	Net Angle	Flow Cnts	Volume
1	●	●	210723	063625	449.7	55.7	21102	2751.0
2	●	●	210723	064913	349.6	53.6	5695	742.1
3	●	●	210723	065555	297.7	50.6	2969	390.4
4	●	●	210723	070132	251.1	53.9	2458	315.3
5	●	●	210723	070759	200.3	53.1	2850	364.4
6	●	●	210723	071358	150.4	51.0	2668	332.6
7	●	●	210723	072007	100.8	52.4	2780	357.3
8	●	●	210723	072734	41.2	51.9	3322	451.6
9	●	●	210723	072942	22.5	52.4	926	125.2
10	○	○			0.0	0.0	0	0.0

Trip Count 9

Confirms 9

Flow Cnts 1337

VOL 170.2

Flow Cnts2 0

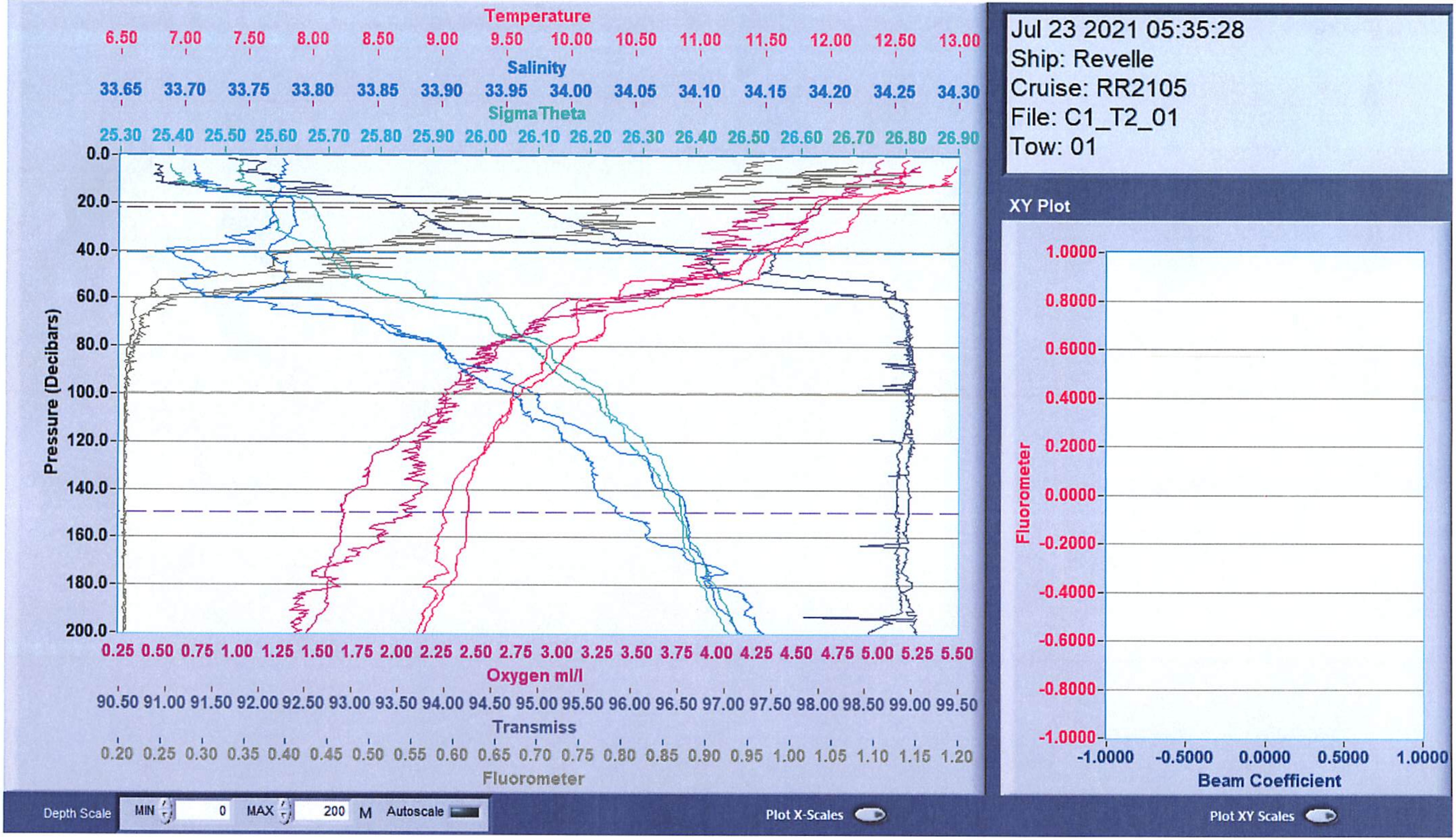
VOL 2 0.0

Motor Volts 13.565

CTD Volts 14.332

CNF TIME 9.213

Modem Data 1337,0,9,9,0,1256,1327,0,0,0,0,3



Jul 23 2021 05:35:28
Ship: Revelle
Cruise: RR2105
File: C1_T2_01
Tow: 01

Depth Scale MIN 0 MAX 200 M

MOCNESS Data Sheet

Cruise P2107 Date 7/23/2021 Haul # 6 Cycle # 1 Tow # 3

Wind Speed 1 (kts.) Direction 22 (°) Sea State 5 (ft.)

Pre-deployment checks:
- ✓ Flow Meter
- ✓ Sliders
- ✓ Stepping Motor
- ✓ Net Response
- ✓ Clean Optical Surfaces
- ✓ Transmissometer
- ✓ Fluorometer
- ✓ Oxygen Sensor
- ✓ Strobe

File Name: Processed ______ Raw ______

Start Time 13:37 (PDT) **End** Time 205.619826(PDT)

Lat 36.16299 Lat 36.25235

Long -122.27697 Long -122.40783

Event deploy # ______ Event rec. # ______

Frame Size 1 m²

Net Mesh 202 µm

Bottom Depth 1386 (m) Console Operator Moira/

Net Tow Information

Net	Time Open	Angle	Flow Counts	Volume Filtered (m³)	Max Depth (m)	Min Depth (m)	Split	Fixative 1/4	ETOH Split/Fixative 1/4 | 1/2	Net resp?
0	1337	54.2	42842	5669.6	1020	0		5% Form.		✓
1	1528	51.3	11434	1517.8	1000.5	799.4		5% Form.		✓
2	1554	53.9	10747	1389.0	799.4	599.3		5% Form.		✓
3	1618	50.6	6014	820.0	599.3	498.8		5% Form.		✓
4	1632	49.0	6627	890.0	498.8	399.2		5% Form.		✓
5	1648	43.4	4711	687.0	399.2	299.2		5% Form.		✓
6	1659	44.0	4126	626.7	299.2	198.3		5% Form.		✓
7	1709	37.5	4050	619.6	198.3	98.0		5% Form.		✓
8	1724	49.2	1626	235.7	98.0	49.2		5% Form.		
9					49.2	0		5% Form.		
Closed										

voltag strobe v9 END

17.9

Surface Readings:

Pressure (m)	0.7
Temp (° C)	12.812
Salinity (‰)	33.839
O2 (ml/l)	5.224
Fluor. (V)	0.9
BeamC (/m)	0.481
CTD/M volts (V)	13.72/14.3
wire out (m)	3.4
Time (PDT)	13:37

At Depth Readings:

Pressure (m)	1018.1
Temp (° C)	4.041
Salinity (‰)	34.451
O2 (ml/l)	.6109
Fluor. (V)	0.2
BeamC (/m)	.040
CTD/M volts (V)	14.27
wire out (m)	1886.9
Time (PDT)	15125

Notes: Tow Starting @ Drifter location due to CTD malfunction

116m out increased to 15mpm

300m out increased to 20 mpm

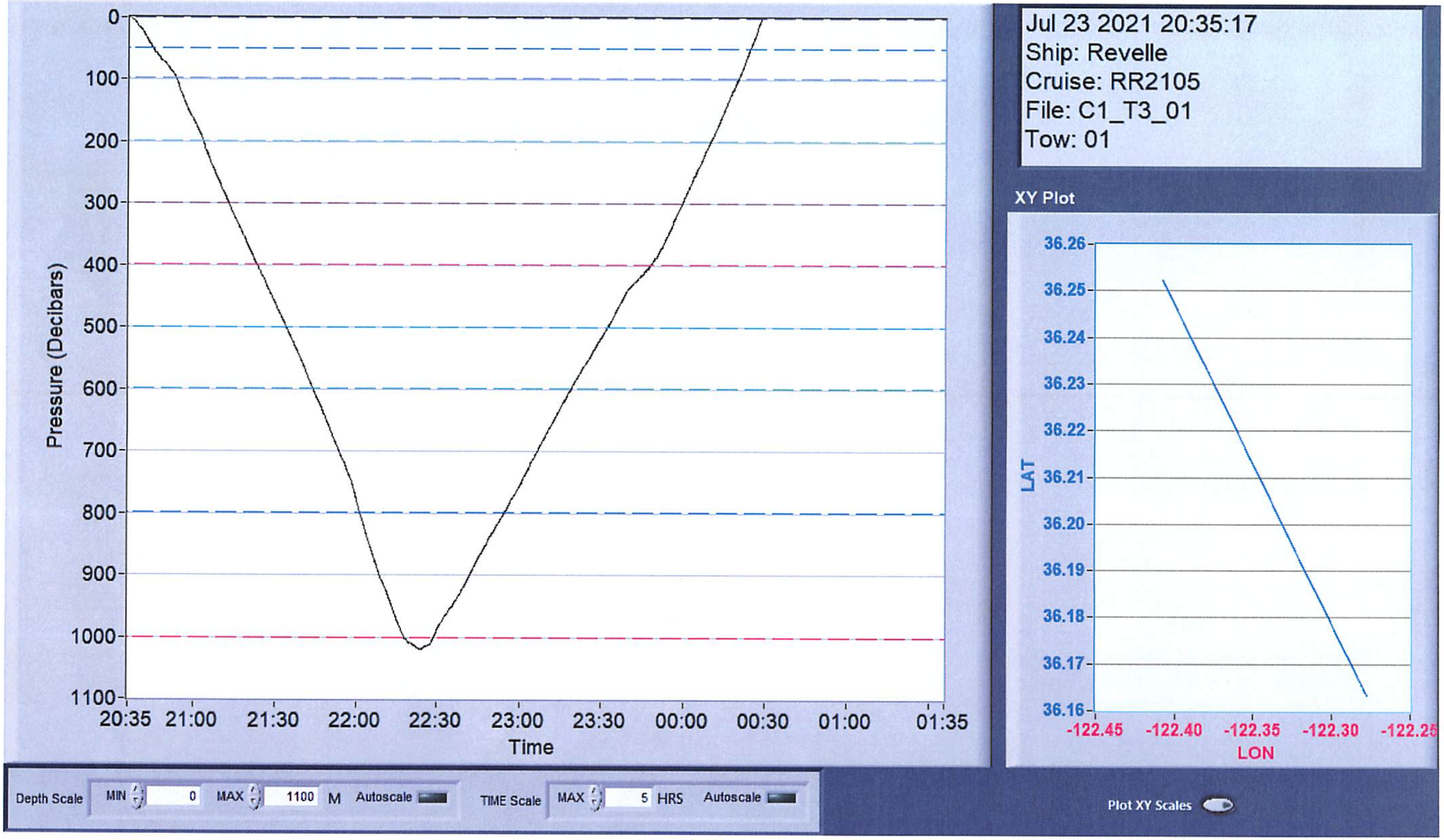
Slowed down to 10mpm @ 1000m

All Stop @ 1020m

Strobe Parameters:

Time on/off	1526/
Depths on	1013.3-0
Interval (ms)	1000
Pulse wdth (m)	40
Intensity (%)	30
Strobe volts (v)	18.2

0 - 1000
~~1000-800~~
~~800-600~~
~~600-500~~
~~500-400~~
~~400-300~~
~~300-200~~
~~200-100~~
100-50
50-0

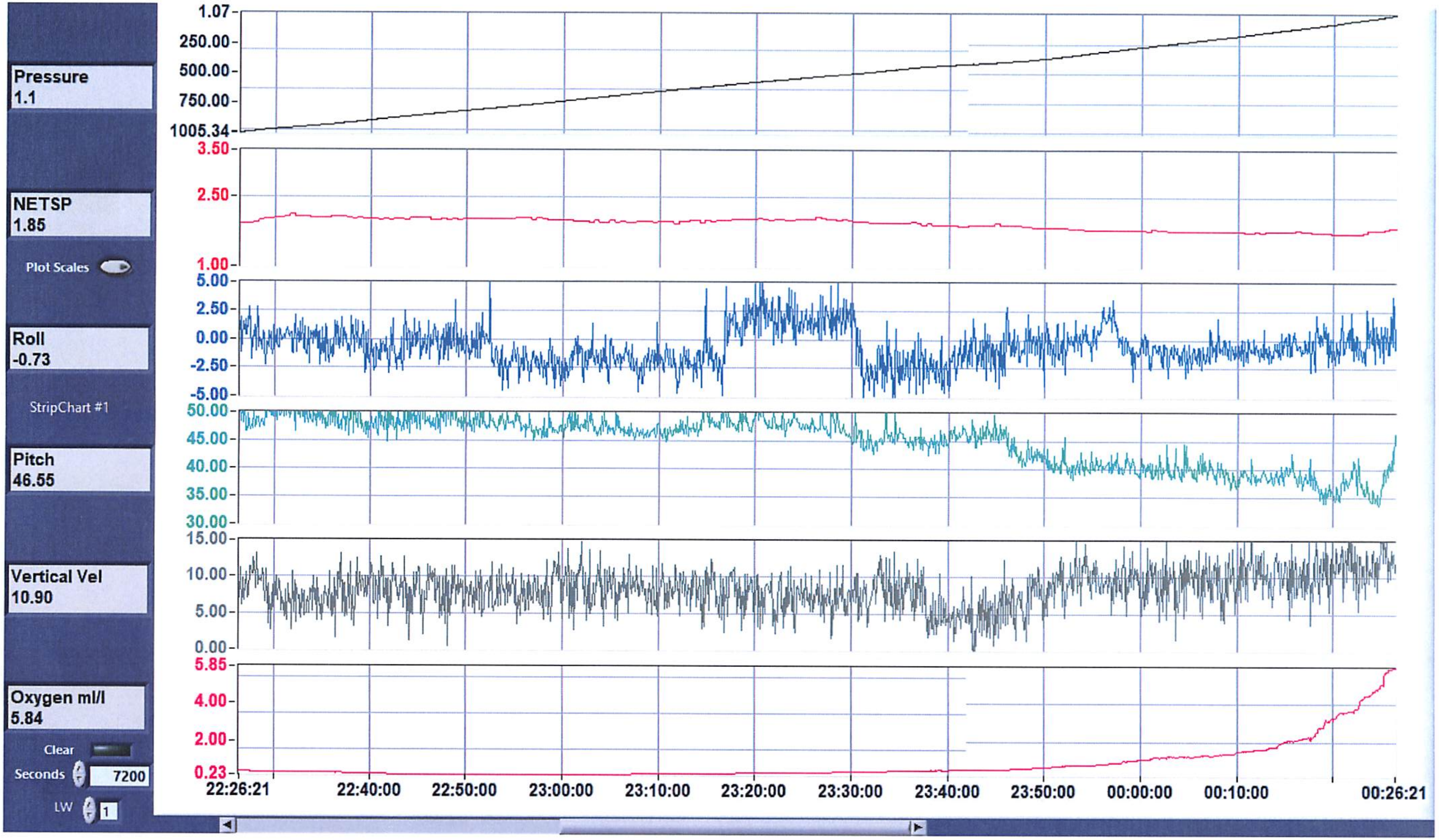


Jul 23 2021 20:35:17
Ship: Revelle
Cruise: RR2105
File: C1_T3_01
Tow: 01

Depth Scale MIN 0 MAX 1100 M Autoscale

TIME Scale MAX 5 HRS Autoscale

Plot XY Scales



Pressure
1.1

NETSP
1.85

Plot Scales

Roll
-0.73

StripChart #1

Pitch
46.55

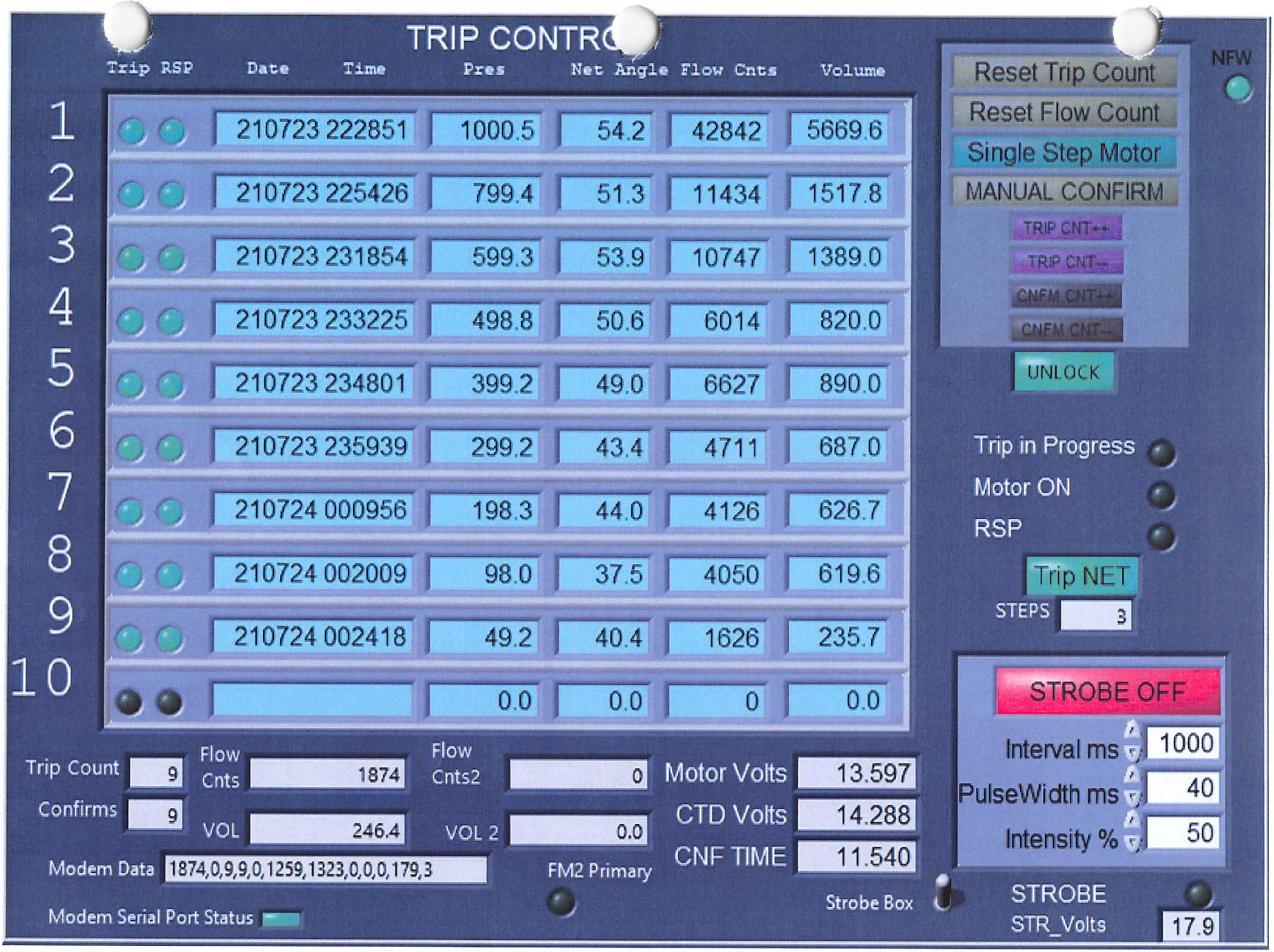
Vertical Vel
10.90

Oxygen ml/l
5.84

Clear

Seconds 7200

LW 1



TRIP CONTR

	Trip	RSP	Date	Time	Pres	Net Angle	Flow Cnts	Volume
1	●	●	210723	222851	1000.5	54.2	42842	5669.6
2	●	●	210723	225426	799.4	51.3	11434	1517.8
3	●	●	210723	231854	599.3	53.9	10747	1389.0
4	●	●	210723	233225	498.8	50.6	6014	820.0
5	●	●	210723	234801	399.2	49.0	6627	890.0
6	●	●	210723	235939	299.2	43.4	4711	687.0
7	●	●	210724	000956	198.3	44.0	4126	626.7
8	●	●	210724	002009	98.0	37.5	4050	619.6
9	●	●	210724	002418	49.2	40.4	1626	235.7
10	○	○			0.0	0.0	0	0.0

Trip Count: 9

Confirms: 9

Flow Cnts: 1874

VOL: 246.4

Flow Cnts2: 0

VOL 2: 0.0

Motor Volts: 13.597

CTD Volts: 14.288

CNF TIME: 11.540

Modem Data: 1874,0,9,9,0,1259,1323,0,0,0,179,3

FM2 Primary ○

Modem Serial Port Status

Strobe Box

Trip in Progress ○

Motor ON ○

RSP ○

STEPS: 3

Interval ms: 1000

PulseWidth ms: 40

Intensity %: 50

STROBE ○

STR_Volts: 17.9

MOCNESS Data Sheet

Cruise P2107 Date 23 Jul2021 Haul # 7 Cycle # 1 Tow # 4

Wind Speed 5.9 (kts.) Direction 322 (°) Sea State 2-4 (ft.)

Pre-deployment checks:
- ☑ Flow Meter
- ☑ Sliders
- ☑ Stepping Motor
- ☑ Net Response
- ☑ Clean Optical Surfaces
- ☑ Transmissometer
- ☑ Fluorometer
- ☑ Oxygen Sensor
- ☑ Strobe

File Name: Processed ____ Raw c1-T4-01.hex

Start Time 2154 (PDT) **End** Time 205.355775 (PDT)

Lat 36 08.057N Lat 36.25392

Long 122 17.659W Long -122.35316

Event deploy # ____ Event rec. # ____

Frame Size 1 m²

Net Mesh 202 µm

Bottom Depth 1636 (m) Console Operator S. Matthews

Net Tow Information

Net	Time Open	Angle	Flow Counts	Volume Filtered (m³)	Max Depth (m)	Min Depth (m)	Split	Fixative	Split/Fixative	Net resp?
0	2154	52	38464	5627	1068	0	25%	5% Form.	25% sterfix + frozen 50% ethanol	✓
1	2341	52	6617	901	1001	799	↓	5% Form.	↓	✓
2	2356	56	7776	979	799	600		5% Form.		✓
3	0013	52	5751	730	600	499		5% Form.		—
4	0025	58	5505	672	499	396		5% Form.		✓
5	0036	58	6934	848	396	300		5% Form.		✓
6	0051	56	6501	803	300	201		5% Form.		✓
7	0104	52	7029	949	201	100		5% Form.		✓
8	0120	46	2684	379	100	49		5% Form.		✓
9	0127				49		↓	5% Form.	→12 pyrosomes	
Closed										

manual conf.

Surface Readings:
Pressure (m) 0.5
Temp (° C) 13.239
Salinity (‰) 33.704
O2 (ml/l) 5.72
Fluor. (V) 1.4
BeamC (/m) 0.591
CTD/M volts (V) 14.26/13.55
wire out (m) 1.4
Time (PDT) 2154

At Depth Readings:
Pressure (m) 1054
Temp (° C) 3.94
Salinity (‰) 34.45
O2 (ml/l) 0.413
Fluor. (V) 0.2
BeamC (/m) 0.034
CTD/M volts (V) 14.29/13.8
wire out (m) 1770
Time (PDT) 2334

Notes: net speed high for nets 1-2 - approx 2-2.3 Kts net speed. Net angle OK so didnt slow the ship.

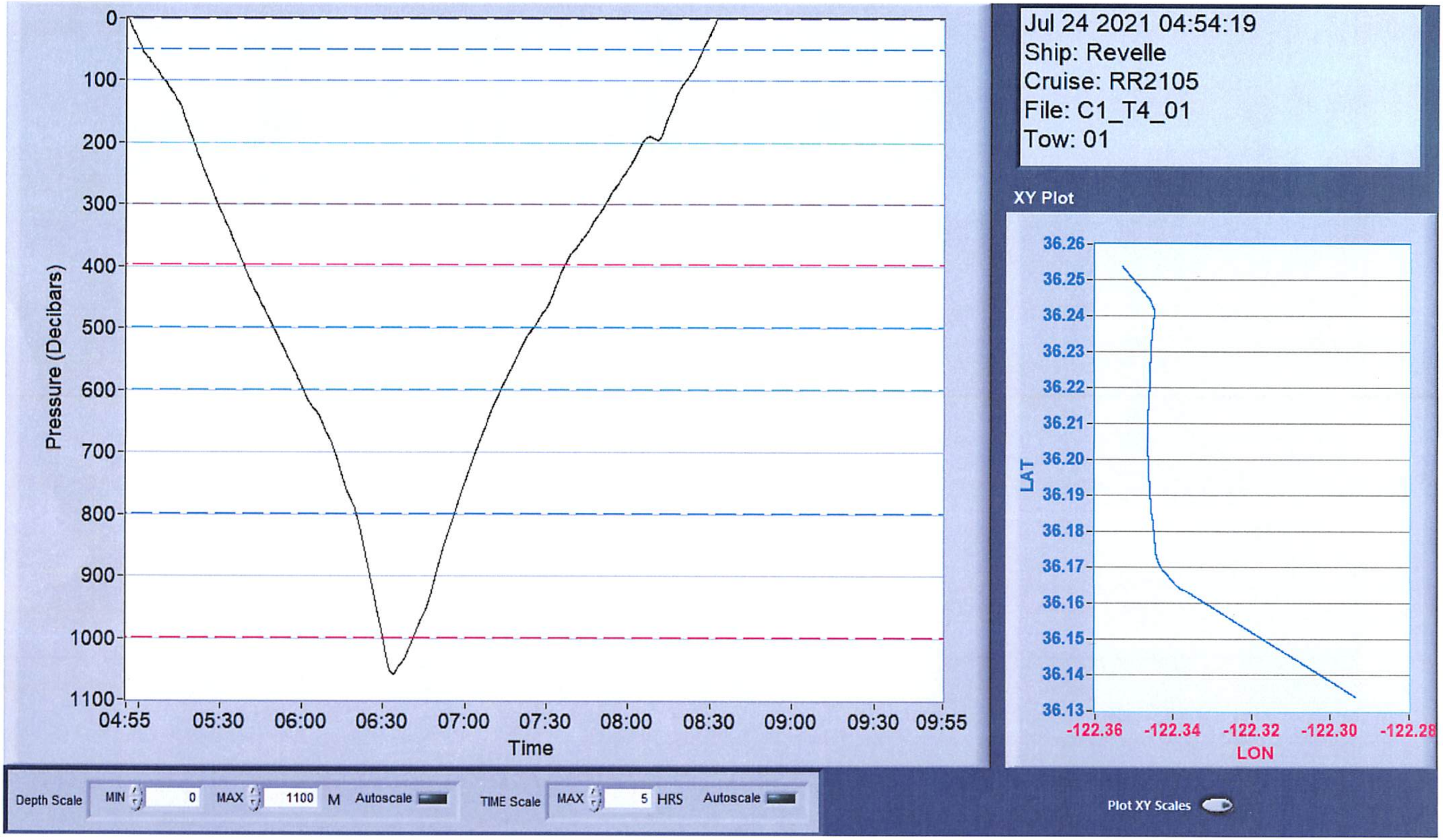
• net decrease in depth at ~180m due to changing direction for recovery

forgot dates on all except net 0, 9 both internal and external labels, formalin and ethanol

~~0-1000~~
~~1000-800~~
~~800-600~~
~~600-500~~
~~500-400~~
~~400-300~~
~~300-200~~
200-100
100-50
50-0

Strobe Parameters:
Time on/off 2334
Depths on 1057-0
Interval (ms) 1000
Pulse wdth (m) 40
Intensity (%) 50
Strobe volts (v) 17.9

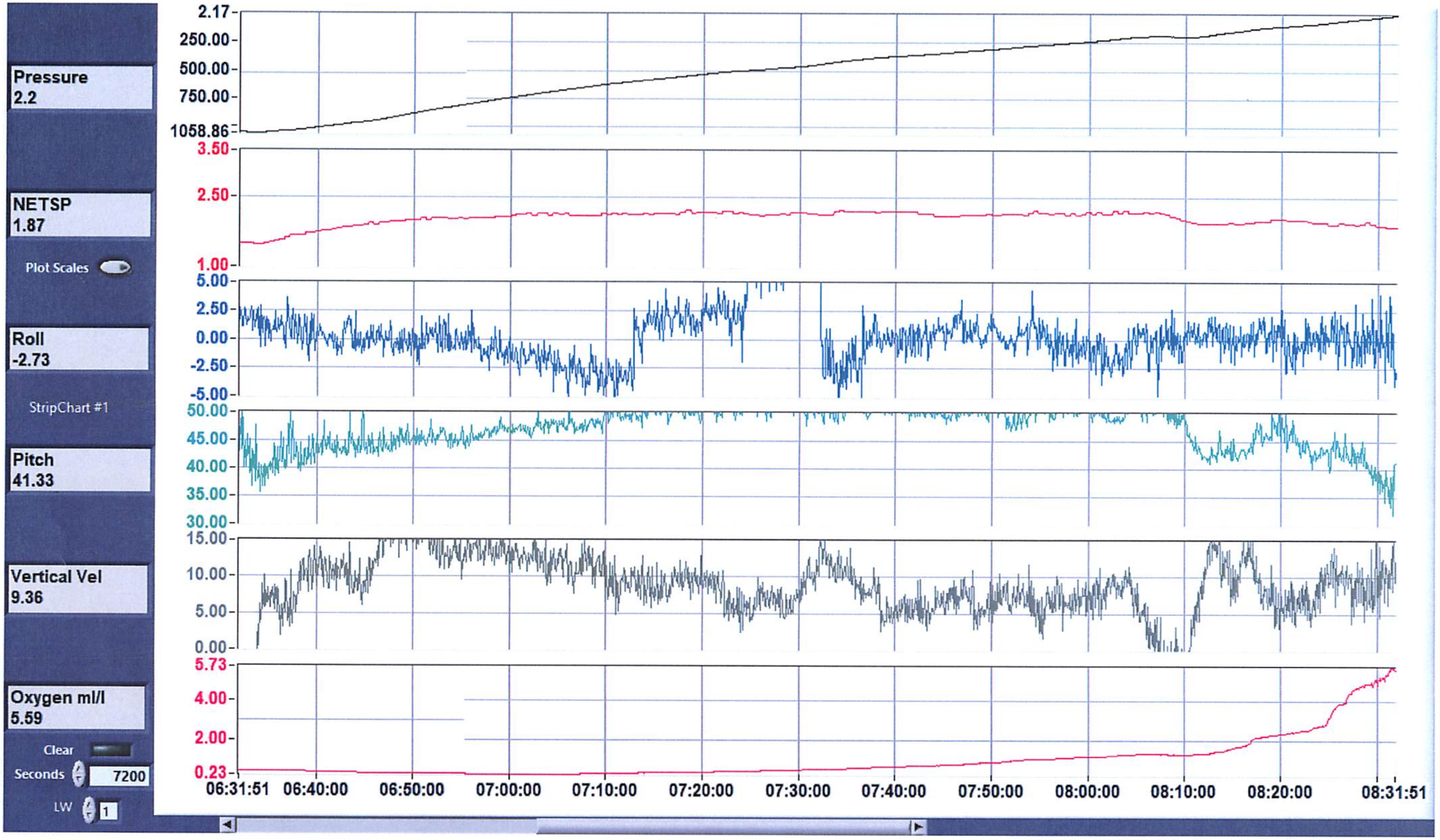
CPA → approx 1130pm



Jul 24 2021 04:54:19
Ship: Revelle
Cruise: RR2105
File: C1_T4_01
Tow: 01

Depth Scale MIN 0 MAX 1100 M Autoscale

TIME Scale MAX 5 HRS Autoscale



Pressure
2.2

NETSP
1.87

Roll
-2.73

Pitch
41.33

Vertical Vel
9.36

Oxygen ml/l
5.59

Seconds 7200

LW 1

TRIP CONTRO

	Trip	RSP	Date Time	Pres	Net Angle	Flow Cnts	Volume
1	●	●	210724 064106	1000.6	51.8	38464	5626.8
2	●	●	210724 065620	799.4	51.8	6617	901.1
3	●	●	210724 071307	600.1	55.8	7776	978.5
4	●	●	210724 072517	498.6	52.3	5751	729.6
5	●	●	210724 073652	396.0	58.1	5505	672.0
6	●	●	210724 075128	300.4	58.1	6934	847.9
7	●	●	210724 080458	200.5	55.7	6501	802.6
8	●	●	210724 082048	100.2	52.1	7029	948.5
9	●	●	210724 082701	49.4	46.1	2684	379.4
10	○	○		0.0	0.0	0	0.0

Trip Count: 9

Confirms: 9

Flow Cnts: 2297

VOL: 343.0

Flow Cnts2: 0

VOL 2: 0.0

Motor Volts: 13.640

CTD Volts: 14.321

CNF TIME: 8.747

Modem Data: 2297,0,9,9,0,1263,1326,0,0,0,128,3

Modem Serial Port Status

FM2 Primary ○

Strobe Box

Trip in Progress ○

Motor ON ○

RSP ○

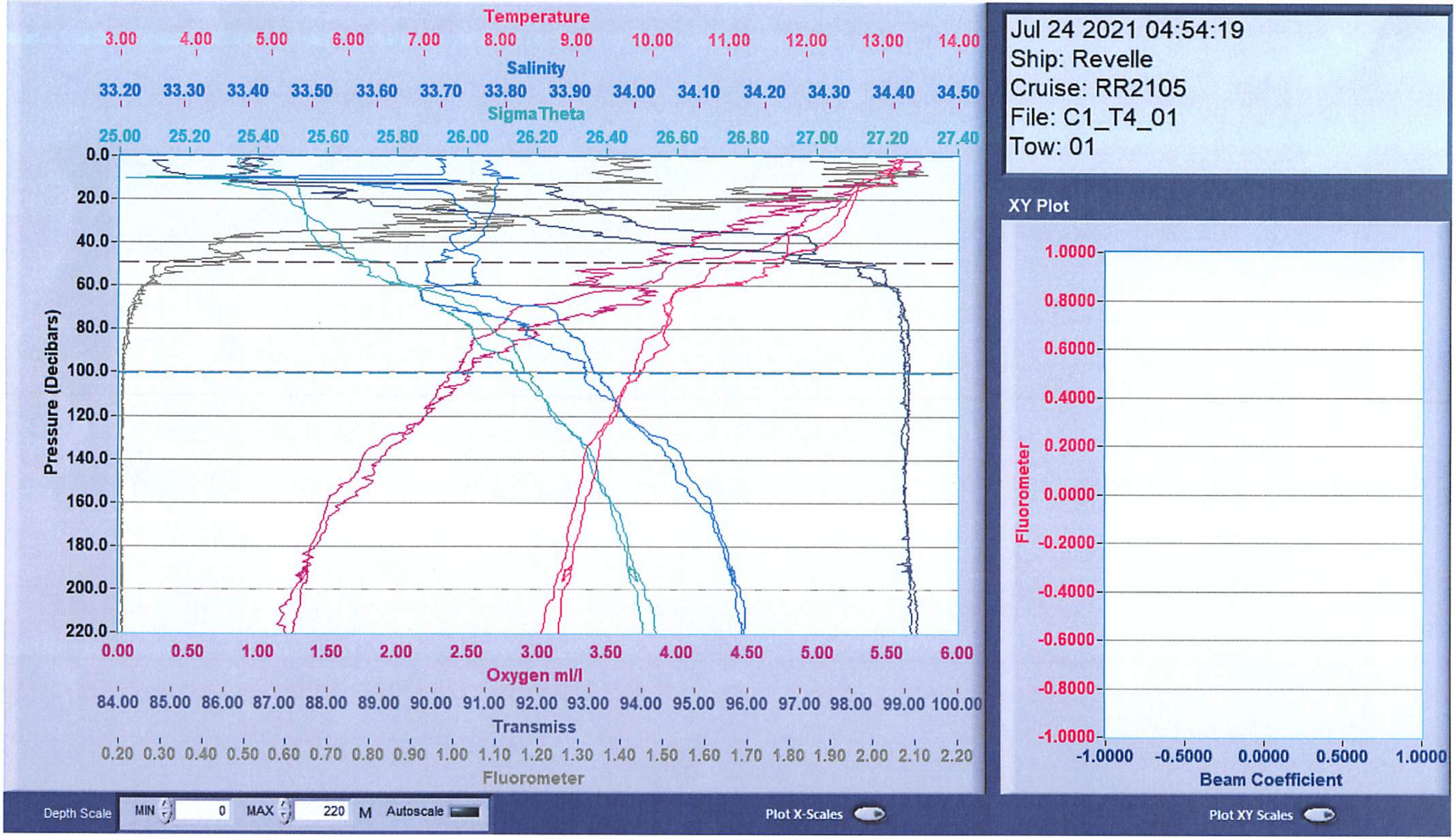
Interval ms: 1000

PulseWidth ms: 40

Intensity %: 50

STROBE ○

STR_Volts: 12.8



Jul 24 2021 04:54:19
Ship: Revelle
Cruise: RR2105
File: C1_T4_01
Tow: 01

Depth Scale MIN 0 MAX 220 M

MOCNESS Data Sheet

Cruise P2107 Date 24 July 2021 Haul # 8 Cycle # 1 Tow # 5

Wind Speed 9 (kts.) Direction 355 (°) Sea State 3 (ft.)

Pre-deployment checks:
- ✓ Flow Meter
- ✓ Sliders
- ✓ Stepping Motor
- ✓ Net Response
- ✓ Clean Optical Surfaces
- ✓ Transmissometer
- ✓ Fluorometer
- ✓ Oxygen Sensor
- ✓ Strobe

File Name: Processed ______ Raw C1_TS-01_01.hex

Start Time 1313 (PDT) **End** Time 1504 (PDT)

Lat 36 09.532N Lat 36 12.700

Long 122 24.813W Long 122 27.527

Event deploy # ______ Event rec. # ______

Frame Size 1 m^2

Net Mesh 202 µm

Bottom Depth 1856 (m) Console Operator G. Cawley

Net Tow Information

Net	Time Open	Angle	Flow Counts	Volume Filtered (m^3)	Max Depth (m)	Min Depth (m)	Split	Fixative	Split/Fixative	Net resp?
0	1315	50.9	20634	2809.9	450.4	0	50%	5% Form.	50% ETOH	✓
1	1412	49.1	5437	802.6	450.4	348.8	↓	5% Form.	↓	✓
2	1426	45.7	2061	297.6	348.8	299.4		5% Form.		✓
3	1436	45.1	2156	314.3	299.4	249.3		5% Form.		✓
4	1441	50.8	2027	286.2	249.3	199.9		5% Form.		✓
5	~~1443~~ 1447	49.5	2525	354.3	199.9	149.6		5% Form.		✓
6	1453	45.3	2390	336.6	149.6	100.1		5% Form.		✓
7	1459	44.4	2230	335.1	100.1	49.2		5% Form.		✓
8	1501	39.7	890	139.1	49.2	23.3		5% Form.		
9					23.3	0	↓	5% Form.	↓	
Closed										

Surface Readings:

Pressure (m)	3.8
Temp (° C)	13.055
Salinity (‰)	33.746
O2 (ml/l)	5.538
Fluor. (V)	1.2
BeamC (/m)	0.556
CTD/M volts (V)	14.28
wire out (m)	10.0
Time (PDT)	13:16

At Depth Readings:

Pressure (m)	483.6
Temp (° C)	6.710
Salinity (‰)	34.268
O2 (ml/l)	.432
Fluor. (V)	0.4
BeamC (/m)	0.028
CTD/M volts (V)	14.30
wire out (m)	824.4
Time (PDT)	14:06

Notes: Sometimes CTD Sig asks for help
387.7 - CTD SIGNAL
404.4 - CTD SIGNAL] Help
415.7
426.3
4788
479.9 - Upcast
383.2 - @ CPA to Drifter

Strobe Parameters:

Time on/off 1412/

Depths on 455.1

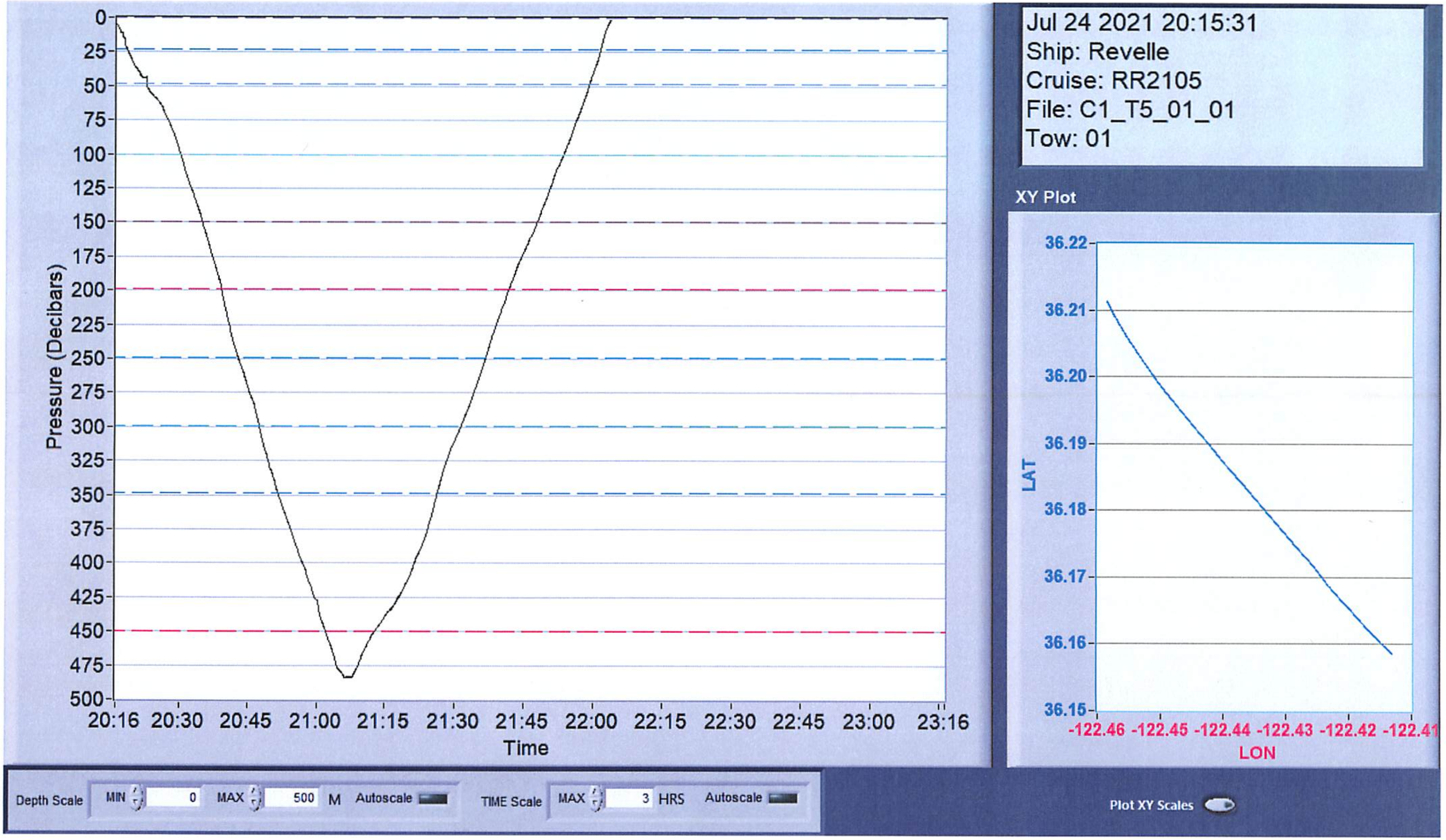
Interval (ms) 1000

Pulse wdth (m) 40

Intensity (%) 50

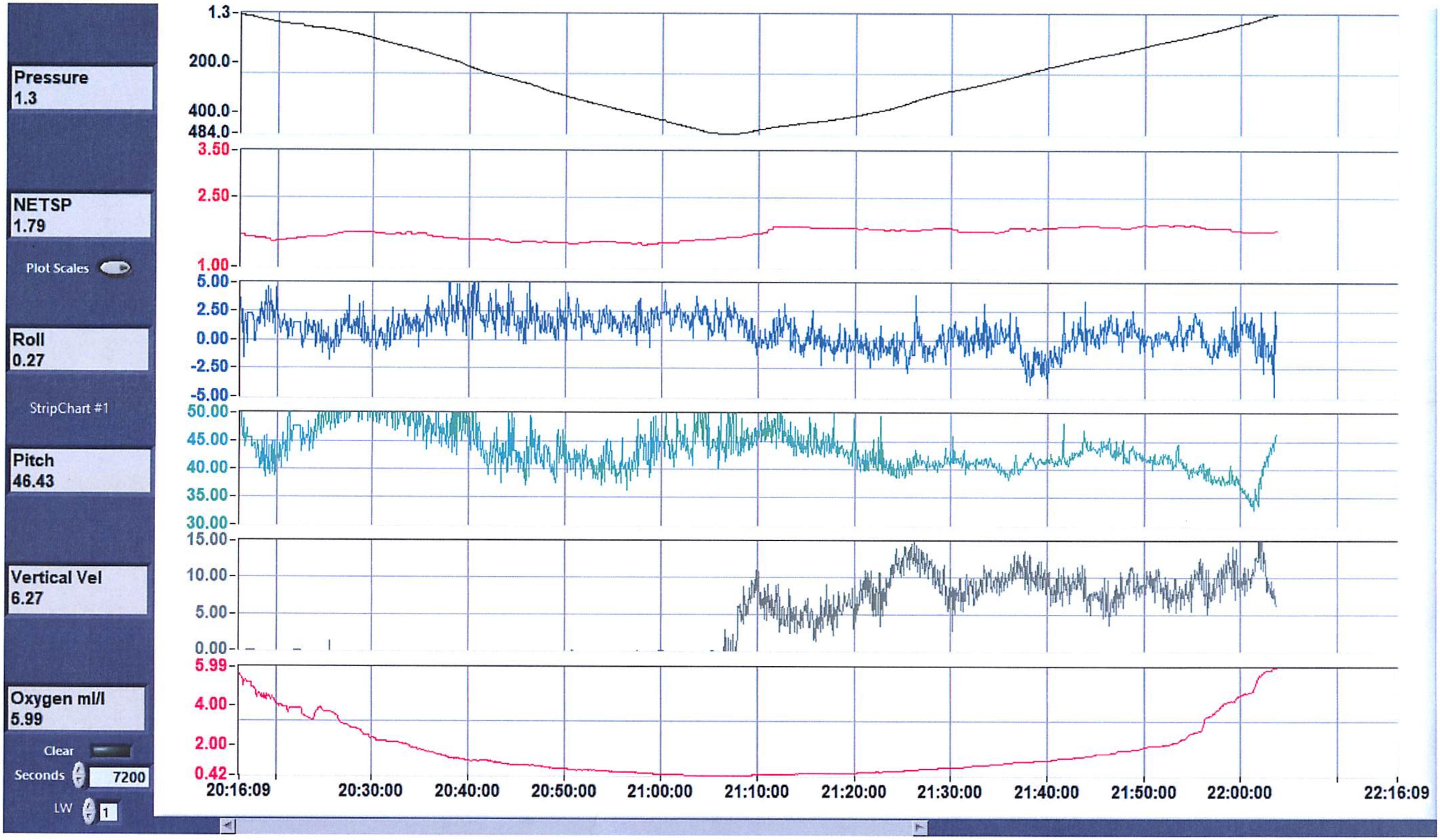
Strobe volts (v) 19.3

~~0-450~~
~~450-350~~
~~350-300~~
~~300-250~~
~~250-200~~
~~200-150~~
~~150-100~~
~~100-50~~
50 - 25
25-0



Jul 24 2021 20:15:31
Ship: Revelle
Cruise: RR2105
File: C1_T5_01_01
Tow: 01

Depth Scale MIN 0 MAX 500 M Autoscale
TIME Scale MAX 3 HRS Autoscale



Pressure
1.3

NETSP
1.79

Roll
0.27

Pitch
46.43

Vertical Vel
6.27

Oxygen ml/l
5.99

Seconds 7200

LW 1

TRIP CONTR

	Trip	RSP	Date	Time	Pres	Net Angle	Flow Cnts	Volume
1	●	●	210724	211247	450.4	50.9	20634	2809.9
2	●	●	210724	212621	348.8	49.1	5437	802.6
3	●	●	210724	213127	299.4	45.7	2061	297.6
4	●	●	210724	213646	249.3	45.1	2156	314.3
5	●	●	210724	214145	199.9	50.8	2027	286.2
6	●	●	210724	214751	149.6	49.5	2525	354.3
7	●	●	210724	215333	100.1	45.3	2390	336.6
8	●	●	210724	215905	49.2	44.4	2230	335.1
9	●	●	210724	220136	23.3	39.7	890	139.1
10	●	○			0.0	0.0	0	0.0

Trip in Progress ●
Motor ON ○
RSP ○
STEPS 3

Interval ms 1000
PulseWidth ms 40
Intensity % 50

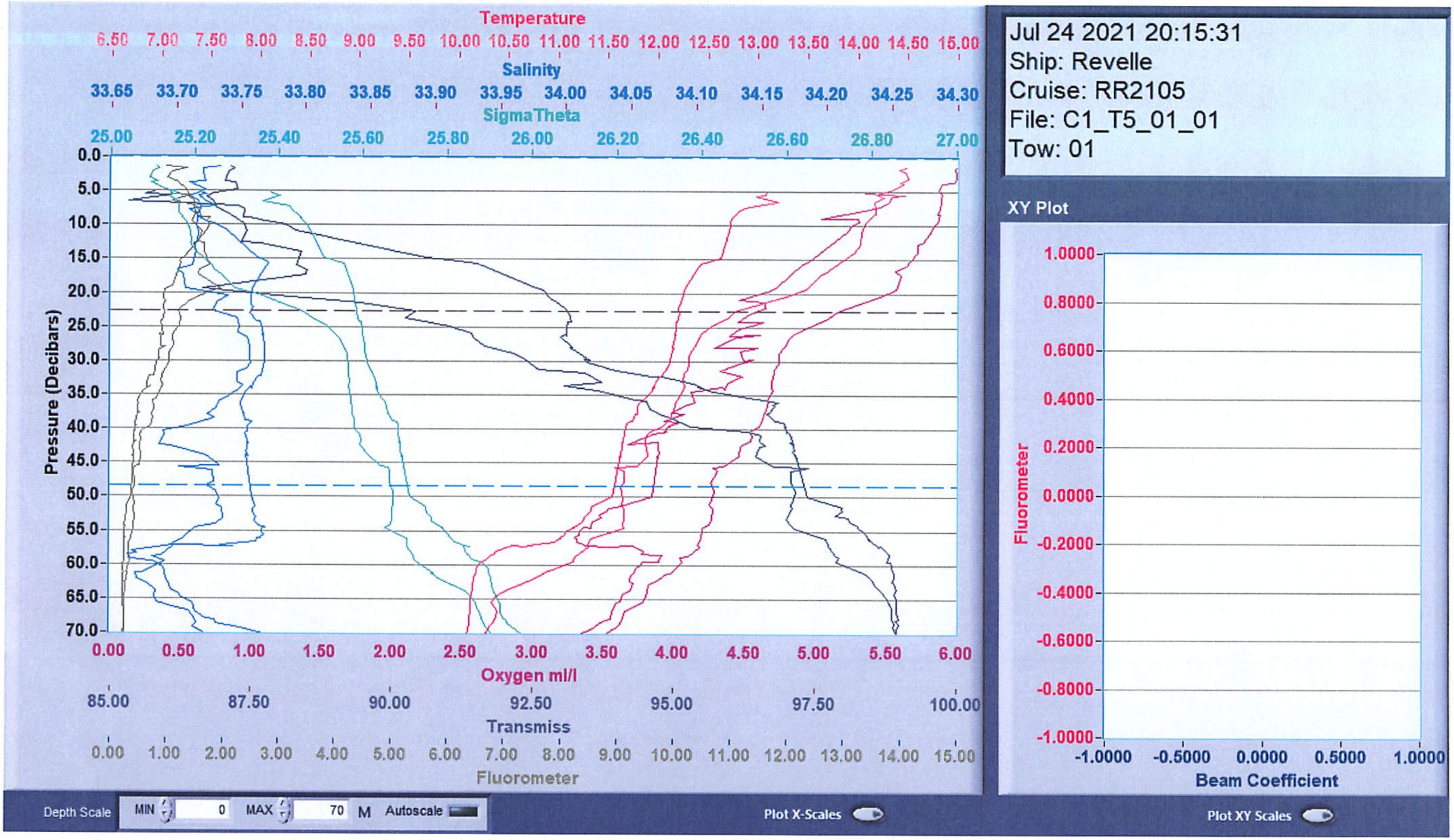
Trip Count 10
Confirms 9
Flow Cnts 1094
VOL 120.9
Flow Cnts2 0
VOL 2 0.0
Motor Volts 13.187
CTD Volts 14.299
CNF TIME 56.976

Modem Data 1094,0,10,9,1,1221,1324,0,0,0,186,3

FM2 Primary ○

STROBE ○
STR_Volts 18.6

Modem Serial Port Status ▬



Jul 24 2021 20:15:31
Ship: Revelle
Cruise: RR2105
File: C1_T5_01_01
Tow: 01

Depth Scale MIN 0 MAX 70 M Autoscale

OBSOLETE

* [illegible] up

MOCNESS Data Sheet

Cruise P2107 Date 24July2021 Haul # 9 Cycle # 1 Tow # 6

Wind Speed 1.6 (kts.) Direction 52 (°) Sea State 0-1 (ft.)

File Name: Processed ______ Raw C1-T6-01.hex

Start Time 2221 (PDT) **End** Time 206.364792 (PDT)

Lat 36 08.884N Lat 36.21621

Long 122 27.252W Long -122.48718

Event deploy # ______ Event rec. # ______

Bottom Depth 2166 (m) Console Operator S. Matthews

Pre-deployment checks:
✓ Flow Meter
✓ Sliders
✓ Stepping Motor
✓ Net Response
✓ Clean Optical Surfaces
✓ Transmissometer
✓ Fluorometer
✓ Oxygen Sensor
OFF Strobe

Frame Size 1 m²
Net Mesh 202 µm

Net Tow Information

Net	Time Open	Angle	Flow Counts	Volume Filtered (m³)	Max Depth (m)	Min Depth (m)	Split	Fixative	Split/Fixative	Net resp?
0	2221	56			479	0	50%	5% Form.	50% etoh	✓
1	2321	59			450	367		5% Form.		✓
2	2330	56			367	299		5% Form.		✓
3	2339	57			299	250		5% Form.		✓
4	2347	59			250	200		5% Form.		✓
5	2352	60	2343	276.3	200	150		5% Form.		✓
6	2358	597	3057	361.9	150	100		5% Form.		✓
7	0005	54	3396	450	100	50		5% Form.		✓
8	0013				50	24		5% Form.		
9	0016				24	0		5% Form.	↓	
Closed										

Surface Readings:
Pressure (m) 0.3
Temp (° C) 14.39
Salinity (‰) 33.723
O2 (ml/l) 6.203
Fluor. (V) 1.5
BeamC (/m) 0.546
CTD/M volts (V) 14.28/13.55
wire out (m) ?
Time (PDT) 2221

At Depth Readings:
Pressure (m) 479
Temp (° C) 6.58
Salinity (‰) 34.25
O2 (ml/l) 0.441
Fluor. (V) 0.2
BeamC (/m) 0.025
CTD/M volts (V) 14.3/13.8
wire out (m) 890
Time (PDT) 2319

Notes: flowmeter stopped working @ 1572 m3 on the way down - hopefully biofouling

- Net tripped at 367 while trying to see ship path !!. Maybe we should see if anybody has an extra normal mouse.
- course curved to fix wire angle
- flowmeter back at 200m net depth on the way up. Started on net trip, so likely dislodged biofouling

~~0-450~~
450-350
~~350-300~~
~~300-250~~
~~250-200~~
~~200-150~~
~~150-100~~
~~100-50~~
50-25
25-0

Strobe Parameters:
Time on/off ______
Depths on ______
Interval (ms) ______
Pulse wdth (m) ______
Intensity (%) ______
Strobe volts (v) ______

- Net 2 - 50% spilled prior to splitting. recovered most, washed through ~~2nd~~ filter prior to splitting and preserving
- Net 0 - 100% in ethanol
- net 9 - pyros imaged, frozen except 8

→ [illegible] up

MOCNESS Data Sheet

Cruise P2107 Date 24 July 2021 Haul # 9 Cycle # 1 Tow # 6

Wind Speed 1.6 (kts.) Direction 52 (°) Sea State 0-1 (ft.)

File Name: Processed ________ Raw C1-T6-01.hex

Start Time 2221 (PDT) **End** Time 206.364792 (PDT)

Lat 36 08.884N Lat 36.21621

Long 122 27.252W Long -122.48718

Pre-deployment checks:
- ✓ Flow Meter
- ✓ Sliders
- ✓ Stepping Motor
- ✓ Net Response
- ✓ Clean Optical Surfaces
- ✓ Transmissometer
- ✓ Fluorometer
- ✓ Oxygen Sensor
- OFF Strobe

Event deploy # ________ Event rec. # ________

Frame Size 1 m^2

Net Mesh 202 µm

Bottom Depth 2166 (m) Console Operator S. Matthews

Net Tow Information

Net	Time Open	Angle	Flow Counts	Volume Filtered (m^3)	Max Depth (m)	Min Depth (m)	Split	Fixative	Split/Fixative	Net resp?
0	2221	56		3,529.8	479	0	50%	5% Form.	50% etoh	✓
1	2321	59		521.3	450	367	|	5% Form.	|	✓
2	2330	56		560.2	367	299	|	5% Form.	|	✓
3	2339	57		432.8	299	250	|	5% Form.	|	✓
4	2347	59		345.3	250	200	|	5% Form.	|	✓
5	2352	60		358.0	200	150	|	5% Form.	|	✓
6	2358	59		398.8	150	100	|	5% Form.	|	✓
7	0005	54		463.9	100	50	|	5% Form.	|	✓
8	0013			210.2	50	24	|	5% Form.	|	
9	0016			166.4	24	0	0	5% Form.	↓	
Closed										

Surface Readings:

Pressure (m) 0.3

Temp (° C) 14.35

Salinity (‰) 33.723

O2 (ml/l) 6.203

Fluor. (V) 1.5

BeamC (/m) 0.546

CTD/M volts (V) 14.28 / 13.55

wire out (m) ?

Time (PDT) 2221

At Depth Readings:

Pressure (m) 479

Temp (° C) 6.58

Salinity (‰) 34.25

O2 (ml/l) 0.441

Fluor. (V) 0.2

BeamC (/m) 0.025

CTD/M volts (V) 14.3 / 13.8

wire out (m) 890

Time (PDT) 2318

Notes: Haul #9

Volumes filtered calculated from regressions of Vol. filt. vs. tow duration for Hauls 14-16 and Hauls 19-22 (S. Matthews)

5 Apr. 2022

ter stopped working @ 1572 m^3

way down - hopefully biofouling

at 367 while trying to see

th 1/2. Maybe we should see if anybody

xtra normal mouse.

ved to fix wire angle

back at 200m net depth on

) up. Started on net trip, so likely

biofouling

- Net 2 - 50% spilled prior to splitting. recovered most, washed through 202 filter prior to splitting and preserving

- Net 0 - 100% in ethanol

- net 9 - pyros imaged, frozen except 8

~~0-450~~

450-350

~~350-300~~

~~300-250~~

~~250-200~~

~~200-150~~

~~150-100~~

~~100-50~~

50-25

25-0

Strobe Parameters:

Time on/off ________

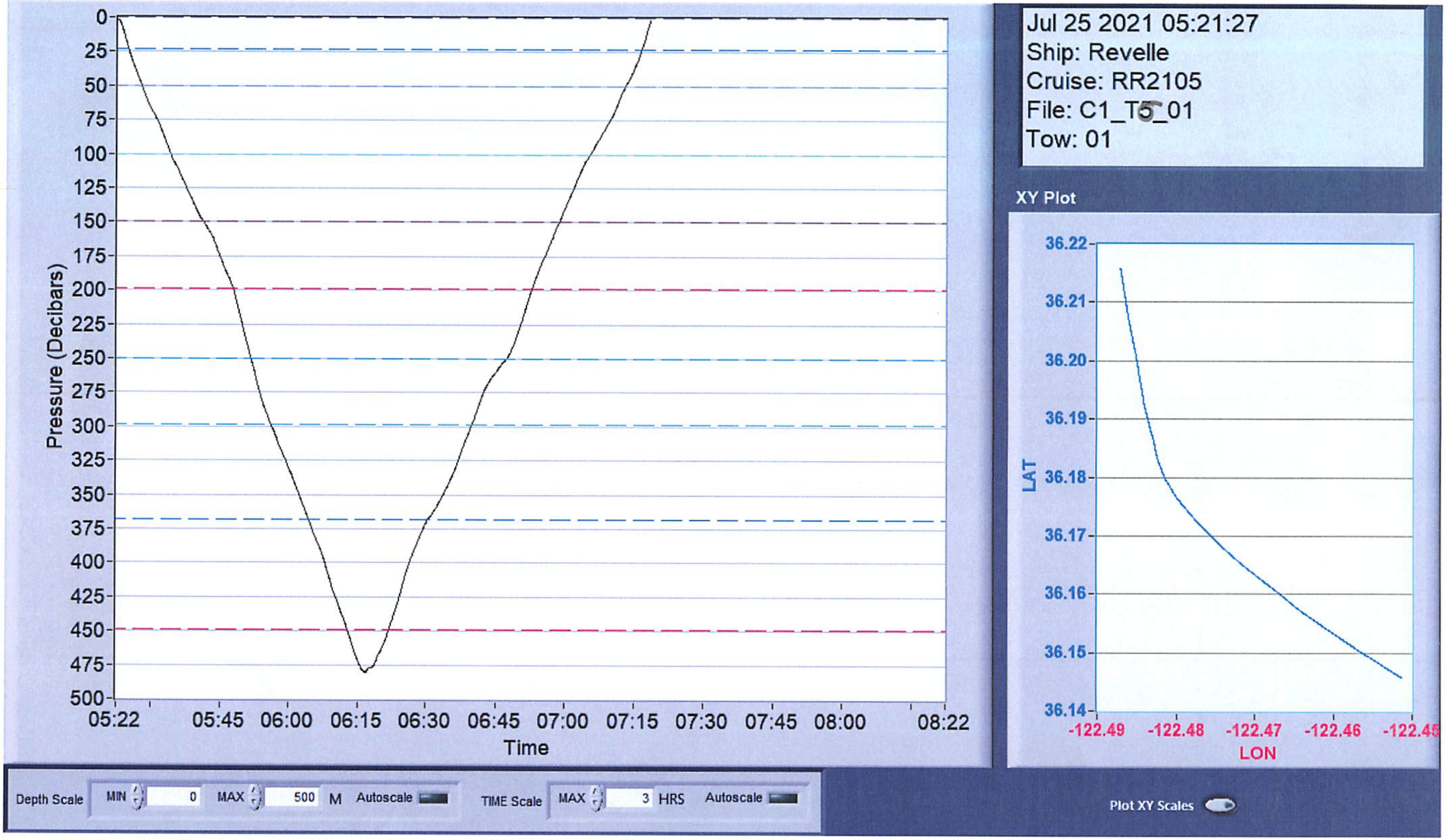
Depths on ________

Interval (ms) ________

Pulse wdth (m) ________

Intensity (%) ________

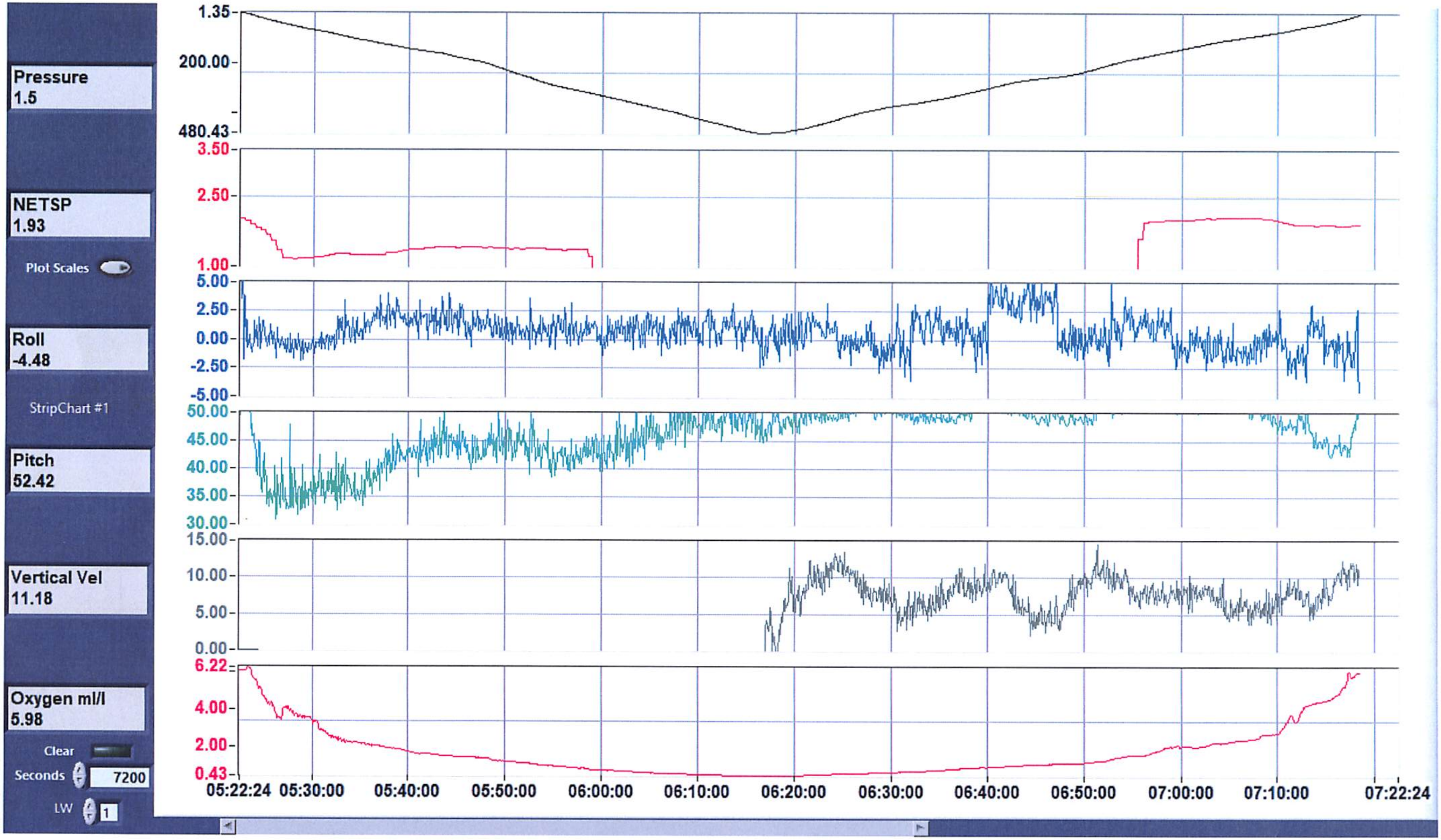
Strobe volts (v) ________



Jul 25 2021 05:21:27
Ship: Revelle
Cruise: RR2105
File: C1_T~~5~~6_01
Tow: 01

Depth Scale MIN 0 MAX 500 M Autoscale

TIME Scale MAX 3 HRS Autoscale



Pressure 1.5

NETSP 1.93

Roll -4.48

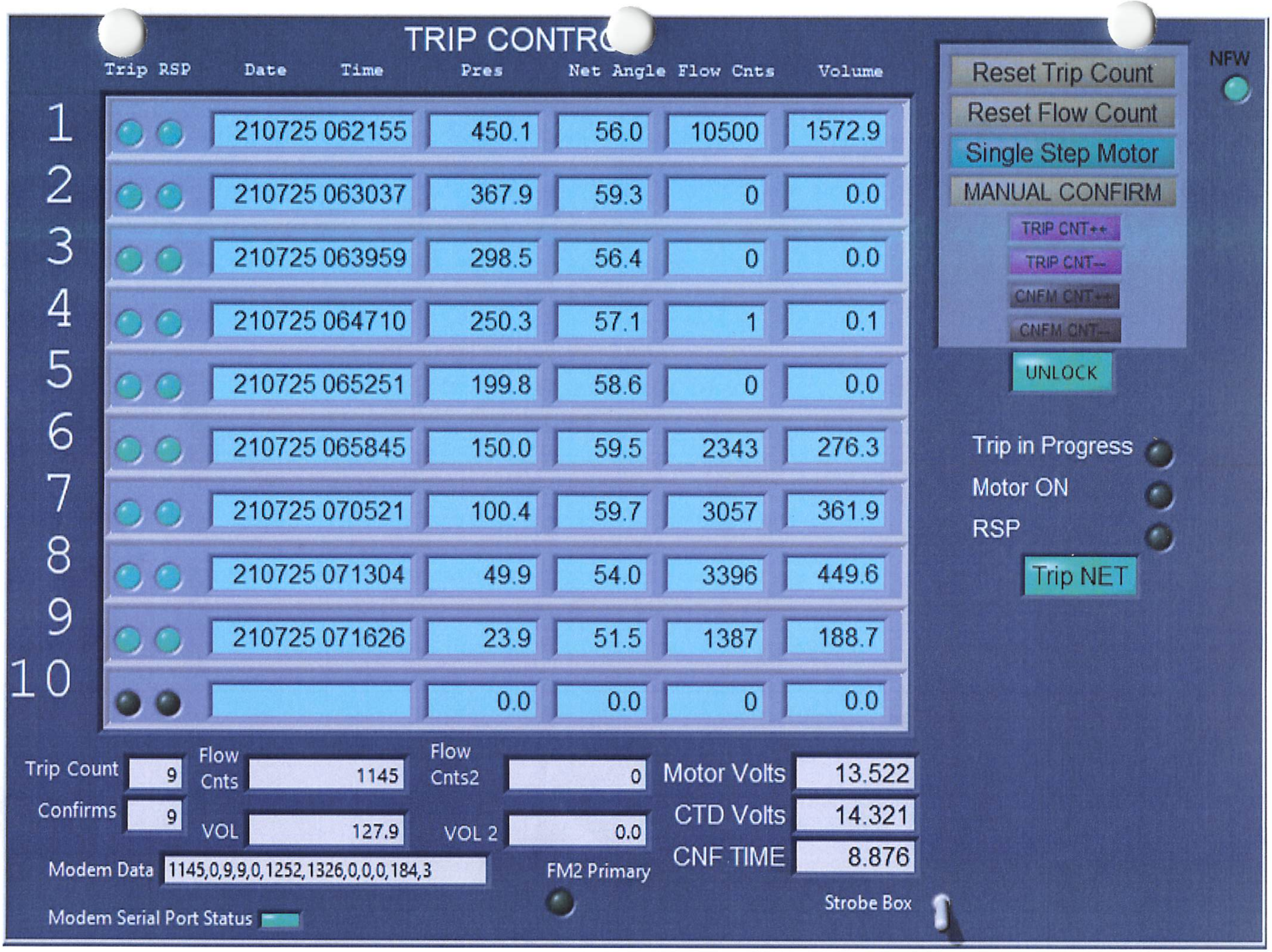
Pitch 52.42

Vertical Vel 11.18

Oxygen ml/l 5.98

Seconds 7200

LW 1



TRIP CONTR

	Trip	RSP	Date	Time	Pres	Net Angle	Flow Cnts	Volume
1	🟢	🟢	210725	062155	450.1	56.0	10500	1572.9
2	🟢	🟢	210725	063037	367.9	59.3	0	0.0
3	🟢	🟢	210725	063959	298.5	56.4	0	0.0
4	🟢	🟢	210725	064710	250.3	57.1	1	0.1
5	🟢	🟢	210725	065251	199.8	58.6	0	0.0
6	🟢	🟢	210725	065845	150.0	59.5	2343	276.3
7	🟢	🟢	210725	070521	100.4	59.7	3057	361.9
8	🟢	🟢	210725	071304	49.9	54.0	3396	449.6
9	🟢	🟢	210725	071626	23.9	51.5	1387	188.7
10	●	●			0.0	0.0	0	0.0

Trip in Progress ●

Motor ON ●

RSP ●

Trip Count 9

Confirms 9

Flow Cnts 1145

VOL 127.9

Flow Cnts2 0

VOL 2 0.0

Motor Volts 13.522

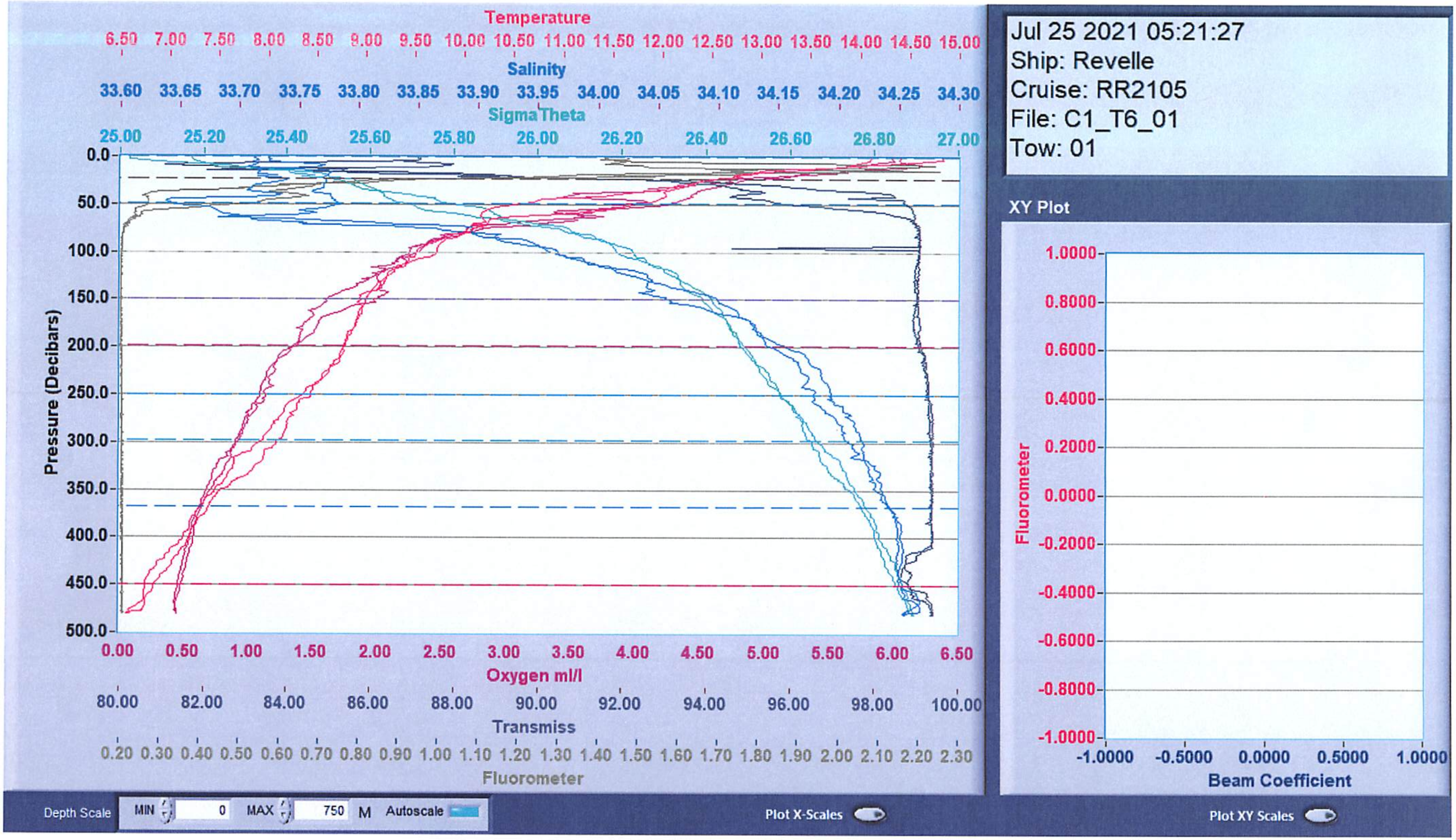
CTD Volts 14.321

CNF TIME 8.876

Modem Data 1145,0,9,9,0,1252,1326,0,0,0,184,3

FM2 Primary ●

Modem Serial Port Status 🟩



Jul 25 2021 05:21:27
Ship: Revelle
Cruise: RR2105
File: C1_T6_01
Tow: 01

Depth Scale MIN 0 MAX 750 M Autoscale

MOCNESS Data Sheet

Cruise P2107 Date 25 July 2021 Haul # 10 Cycle # 1 Tow # 7

Wind Speed 2 (kts.) Direction 351 (°) Sea State 0-1 (ft.)

File Name: Processed ______ Raw C1_T7_01.hex

Start Time 1339 (PDT) **End** Time 1624 (PDT)

Lat 36 09.765 N Lat 36 14.830 N

Long 122 27.736 W Long 122 32.206 W

Pre-deployment checks:
- ✓ Flow Meter ✓ Sliders
- ✓ Stepping Motor
- ✓ Net Response
- ✓ Clean Optical Surfaces
- ✓ Transmissometer
- ✓ Fluorometer
- ✓ Oxygen Sensor
- ✓ Strobe

Event deploy # ______ Event rec. # ______

Frame Size 1 m^2

Net Mesh 202 μm

Bottom Depth 2177 (m) Console Operator G. Cawley

Net Tow Information

Net	Time Open	Angle	Flow Counts	Volume Filtered (m^3)	Max Depth (m)	Min Depth (m)	Split	Fixative	Split/Fixative	Net resp?
0	1339	49.9	22606	3067.2	630.8	0		5% Form.	Live	✓
1	1448	51.2	4495	610.2	599.7	499.4		5% Form.		✓
2	1459	51.5	2442	337.2	499.4	449.2		5% Form.		✓
3	1506	51.7	2600	348.3	449.2	399.5		5% Form.		✓
4	1512	51.5	3631	506.7	399.5	349.6		5% Form.		✓
5	1521	51.0	184	26.0	349.6	248.7		5% Form.		✓
6	1540	48.5	0	0	248.7	200.0		5% Form.		
7	1549	51.3	0	0	200.0	119.8		5% Form.		
8	1603	47.9	0	0	119.8	46.8		5% Form.		
9					46.8			5% Form.		
Closed										

Surface Readings:

Pressure (m)	0.1
Temp (° C)	13.162
Salinity (‰)	33.746
O2 (ml/l)	6.171
Fluor. (V)	2.2
BeamC (/m)	0.852
CTD/M volts (V)	14.27
wire out (m)	0.0
Time (PDT)	1340

At Depth Readings:

Pressure (m)	630.2
Temp (° C)	5.649
Salinity (‰)	34.304
O2 (ml/l)	0.278
Fluor. (V)	0.2
BeamC (/m)	0.044
CTD/M volts (V)	14.28
wire out (m)	1111.8
Time (PDT)	14.44

Notes: Joshua Phillip Manger said to speed up net to 20mpm @ 259.9 :)

277.6 Biofauling - Pyros?

Strobe Parameters:

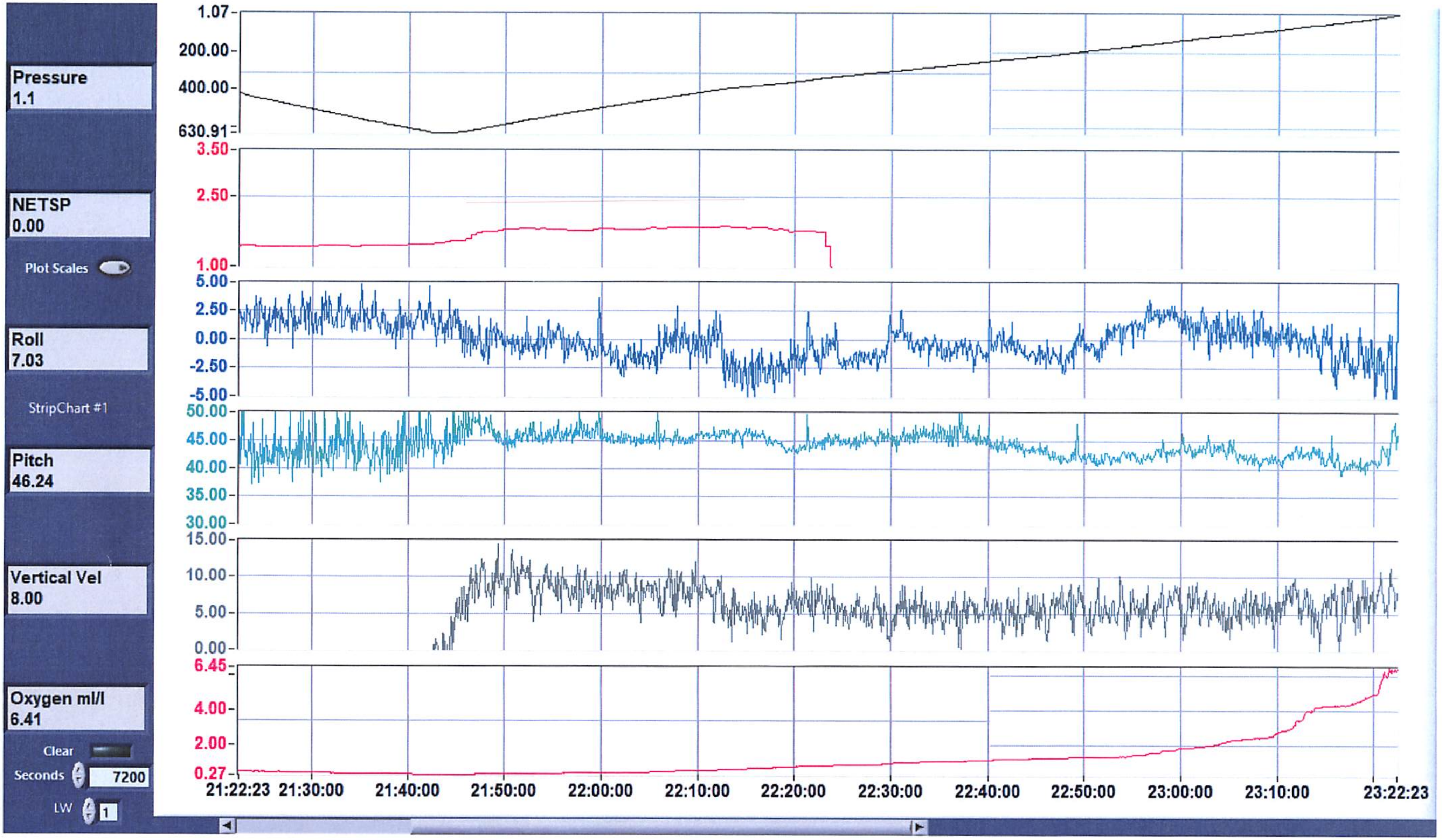
Time on/off	14:481
Depths on	605.6
Interval (ms)	1000
Pulse wdth (m)	40
Intensity (%)	50
Strobe volts (v)	19.1

~~600-500~~
~~500-450~~
~~450-400~~
400 - ~~350~~
3~~50-250~~
Slow to 10mpm ← ~~250-200~~
~~200-120~~
120 - 50
50 - 0

Jul 25 2021 20:38:56
Ship: Revelle
Cruise: RR2105
File: C1_T7_01
Tow: 01

Depth Scale MIN 0 MAX 750 M Autoscale

TIME Scale MAX 3 HRS Autoscale



Pressure
1.1

NETSP
0.00

Plot Scales

Roll
7.03

StripChart #1

Pitch
46.24

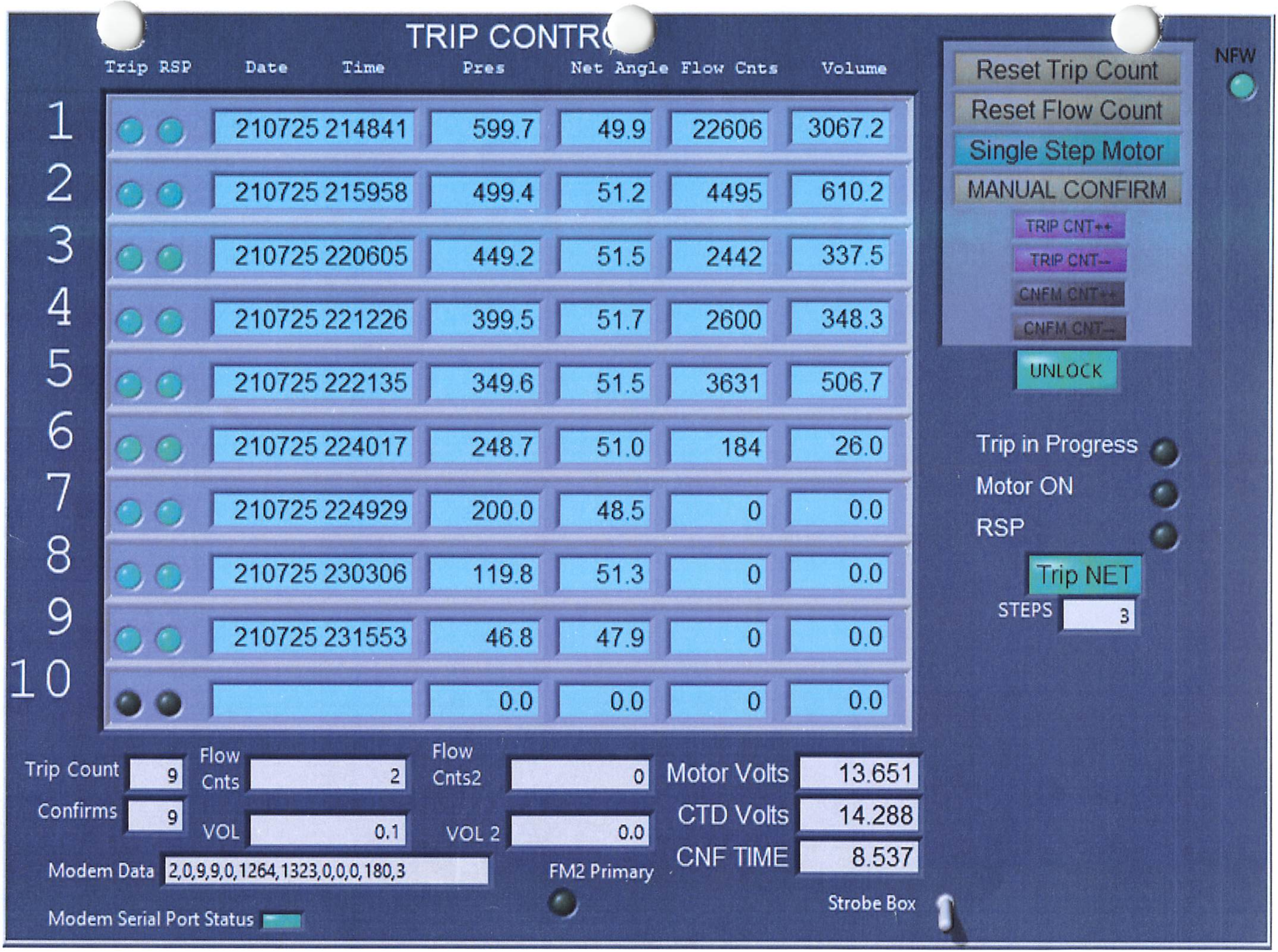
Vertical Vel
8.00

Oxygen ml/l
6.41

Clear

Seconds 7200

LW 1



TRIP CONTR

	Trip	RSP	Date	Time	Pres	Net Angle	Flow Cnts	Volume
1	●	●	210725	214841	599.7	49.9	22606	3067.2
2	●	●	210725	215958	499.4	51.2	4495	610.2
3	●	●	210725	220605	449.2	51.5	2442	337.5
4	●	●	210725	221226	399.5	51.7	2600	348.3
5	●	●	210725	222135	349.6	51.5	3631	506.7
6	●	●	210725	224017	248.7	51.0	184	26.0
7	●	●	210725	224929	200.0	48.5	0	0.0
8	●	●	210725	230306	119.8	51.3	0	0.0
9	●	●	210725	231553	46.8	47.9	0	0.0
10	●	●			0.0	0.0	0	0.0

Trip Count 9

Confirms 9

Flow Cnts 2

VOL 0.1

Flow Cnts2 0

VOL 2 0.0

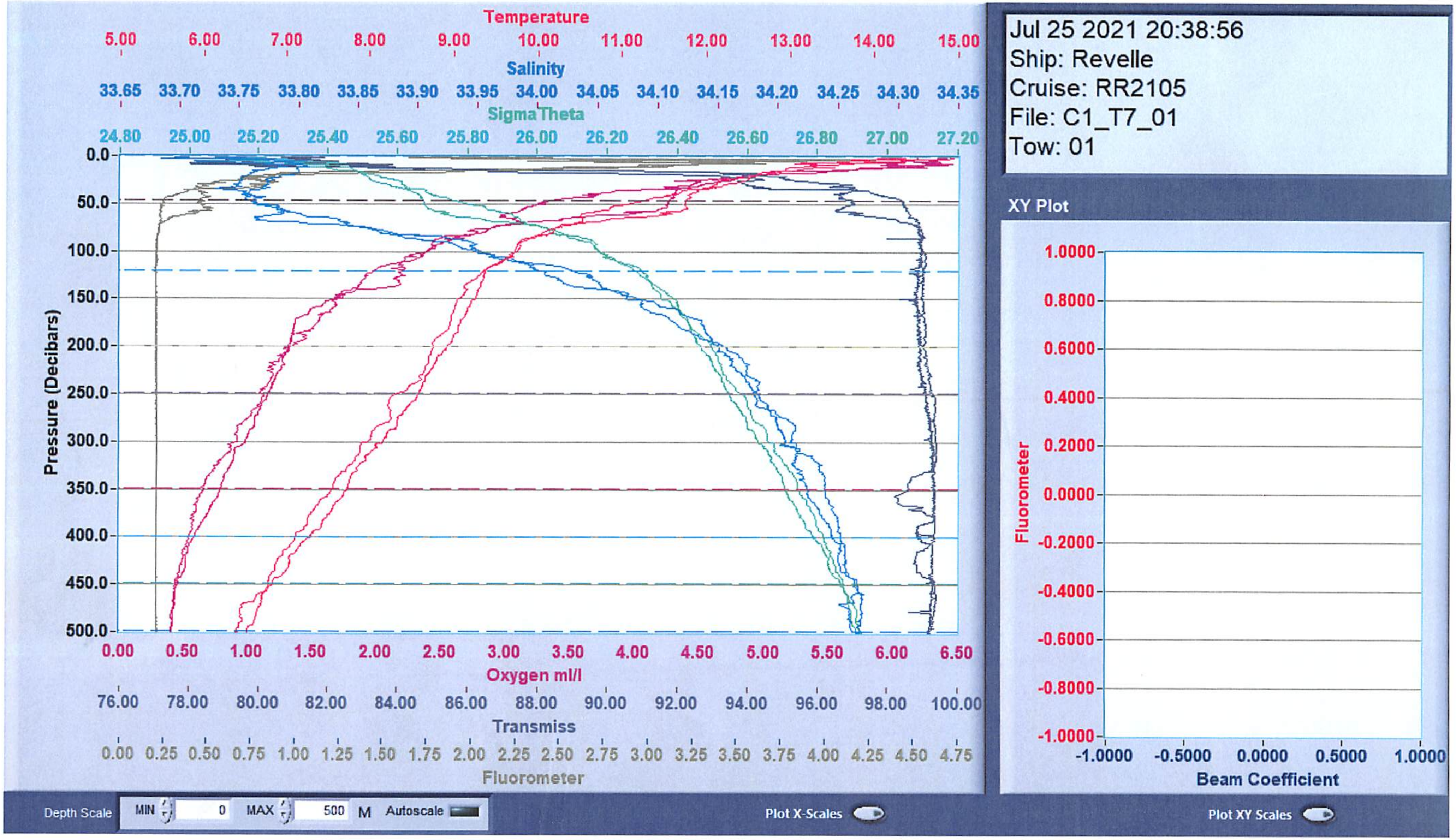
Motor Volts 13.651

CTD Volts 14.288

CNF TIME 8.537

Modem Data 2,0,9,9,0,1264,1323,0,0,0,180,3

STEPS 3



Jul 25 2021 20:38:56
Ship: Revelle
Cruise: RR2105
File: C1_T7_01
Tow: 01

Depth Scale MIN 0 MAX 500 M

MOCNESS Data Sheet

Cruise P2107 Date 27 July 2021 Haul # 11 Cycle # 2 Tow # 1

Wind Speed 6.3 (kts.) Direction 104 (°) Sea State 0-1 (ft.)

Pre-deployment checks:
- ✓ Flow Meter
- ✓ Sliders
- ✓ Stepping Motor
- ✓ Net Response
- ✓ Clean Optical Surfaces
- ✓ Transmissometer
- ✓ Fluorometer
- ✓ Oxygen Sensor
- OFF Strobe

File Name: Processed ______ Raw C2_T1_01.hex

Start Time 0718 (PDT) **End** Time 0917 (PDT)

Lat 36 05.261 Lat 36 07.865

Long 122 19.311 Long 122 22.430

Event deploy # ______ Event rec. # ______

Frame Size 1 m^2

Net Mesh 202 µm

Bottom Depth 1993 (m) Console Operator S. Matthews

Net Tow Information

Net	Time Open	Angle	Flow Counts	Volume Filtered (m^3)	Max Depth (m)	Min Depth (m)	Split	Fixative	Split/Fixative	Net resp?
0	0718	43	—	—	623	0		5% Form.	live	✓
1	0818	45	3437	534	597	499		5% Form.		✓
2	0827	44	—	—	499	400		5% Form.		✓
3	0835	49	—	—	400	300		5% Form.		✓
4	0843	52	—	—	300	250		5% Form.		✓
5	0847	51	—	—	250	200		5% Form.		✓
6	0854	46	—	—	200	120		5% Form.		✓
7	0905	—	—	—	120	80		5% Form.		✓
8	0909	—	—	—	80	40		5% Form.		✓
9	0914	—	—	—	40	0		5% Form.	↓	
Closed	0									

Surface Readings:

Pressure (m) 0.6
Temp (° C) 15.27
Salinity (‰) 33.742
O2 (ml/l) 6.072
Fluor. (V) 1.2
BeamC (/m) 0.341
CTD/M volts (V) 14.28/13.78
wire out (m) 1.2
Time (PDT) 0719

At Depth Readings:

Pressure (m) 623
Temp (° C) 5.81
Salinity (‰) 34.29
2 (ml/l) 0.290
luor. (V) 0.2
BeamC (/m) 0.035
CTD/M volts (V) 14.25/17.0
wire out (m) 925
Time (PDT) 0814

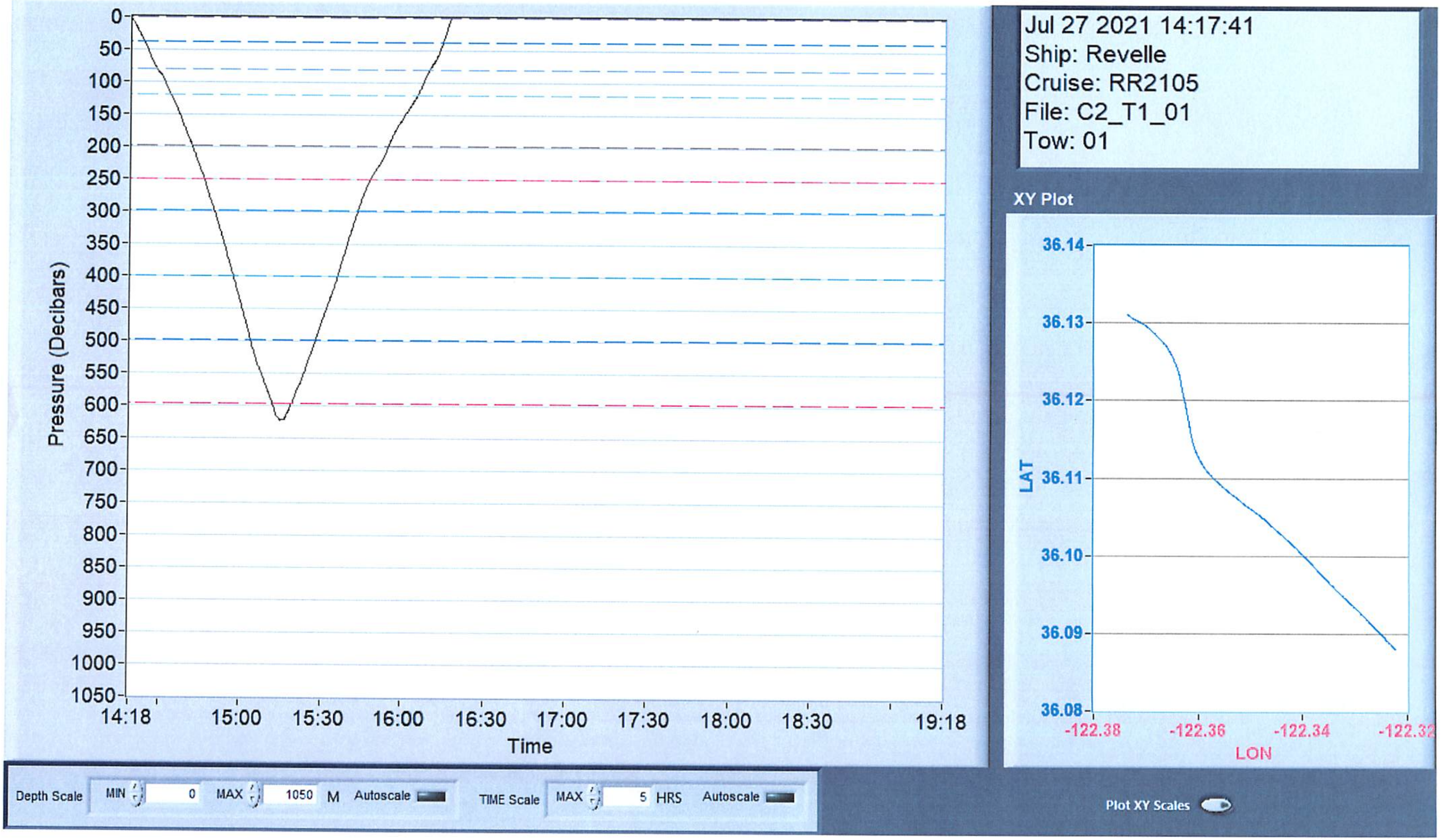
Notes: Tow for rads + sven, no Dres. samples

0735/120m net depth - lost flowmeter data
0748/270m some flow counts, but slow, probably still partly clogged
~350m on the way up - lost flowmeter again - I dont trust the other flowmeter data that did come in

No flow counts or volume filtered recorded because flowmeter was intermittent & dont trust data

Strobe Parameters: OFF

Time on/off ______
Depths on ______
Interval (ms) ______
Pulse wdth (m) ______
Intensity (%) ______
Strobe volts (v) ______

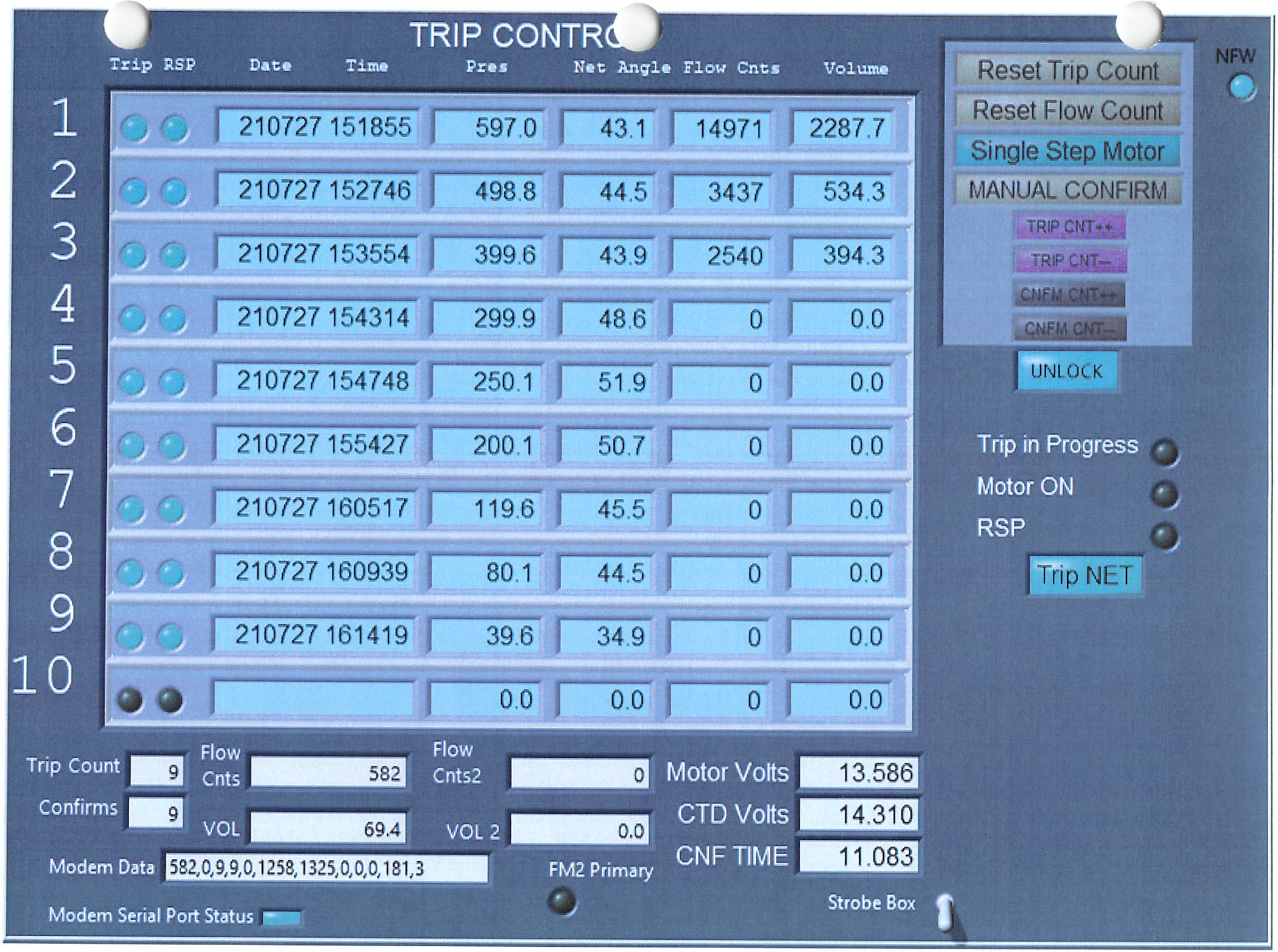


Jul 27 2021 14:17:41
Ship: Revelle
Cruise: RR2105
File: C2_T1_01
Tow: 01

Depth Scale MIN 0 MAX 1050 M Autoscale

TIME Scale MAX 5 HRS Autoscale

Plot XY Scales



	Trip	RSP	Date	Time	Pres	Net Angle	Flow Cnts	Volume
1	●	●	210727	151855	597.0	43.1	14971	2287.7
2	●	●	210727	152746	498.8	44.5	3437	534.3
3	●	●	210727	153554	399.6	43.9	2540	394.3
4	●	●	210727	154314	299.9	48.6	0	0.0
5	●	●	210727	154748	250.1	51.9	0	0.0
6	●	●	210727	155427	200.1	50.7	0	0.0
7	●	●	210727	160517	119.6	45.5	0	0.0
8	●	●	210727	160939	80.1	44.5	0	0.0
9	●	●	210727	161419	39.6	34.9	0	0.0
10	○	○			0.0	0.0	0	0.0

Trip Count 9

Confirms 9

Flow Cnts 582

VOL 69.4

Flow Cnts2 0

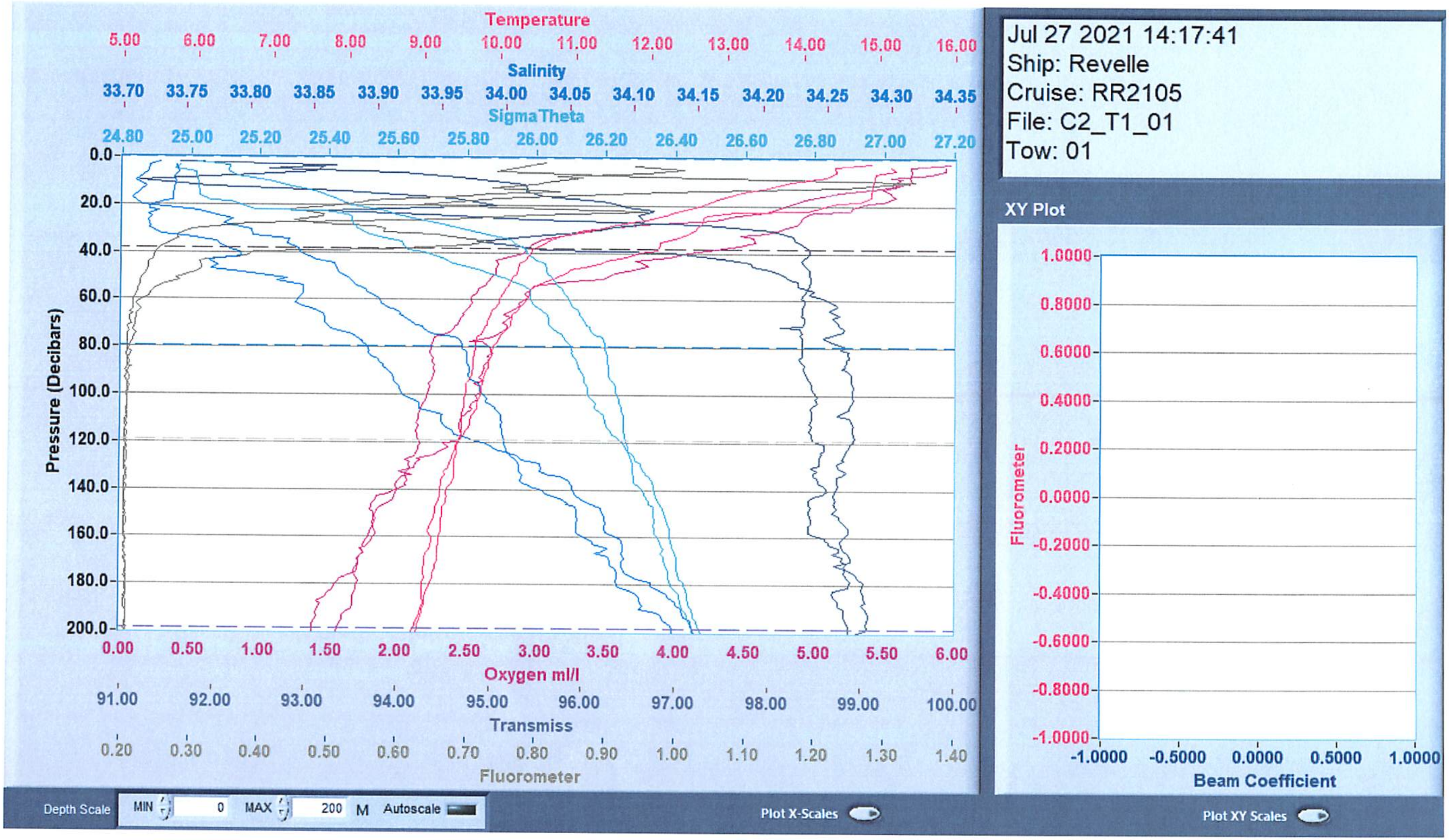
VOL 2 0.0

Motor Volts 13.586

CTD Volts 14.310

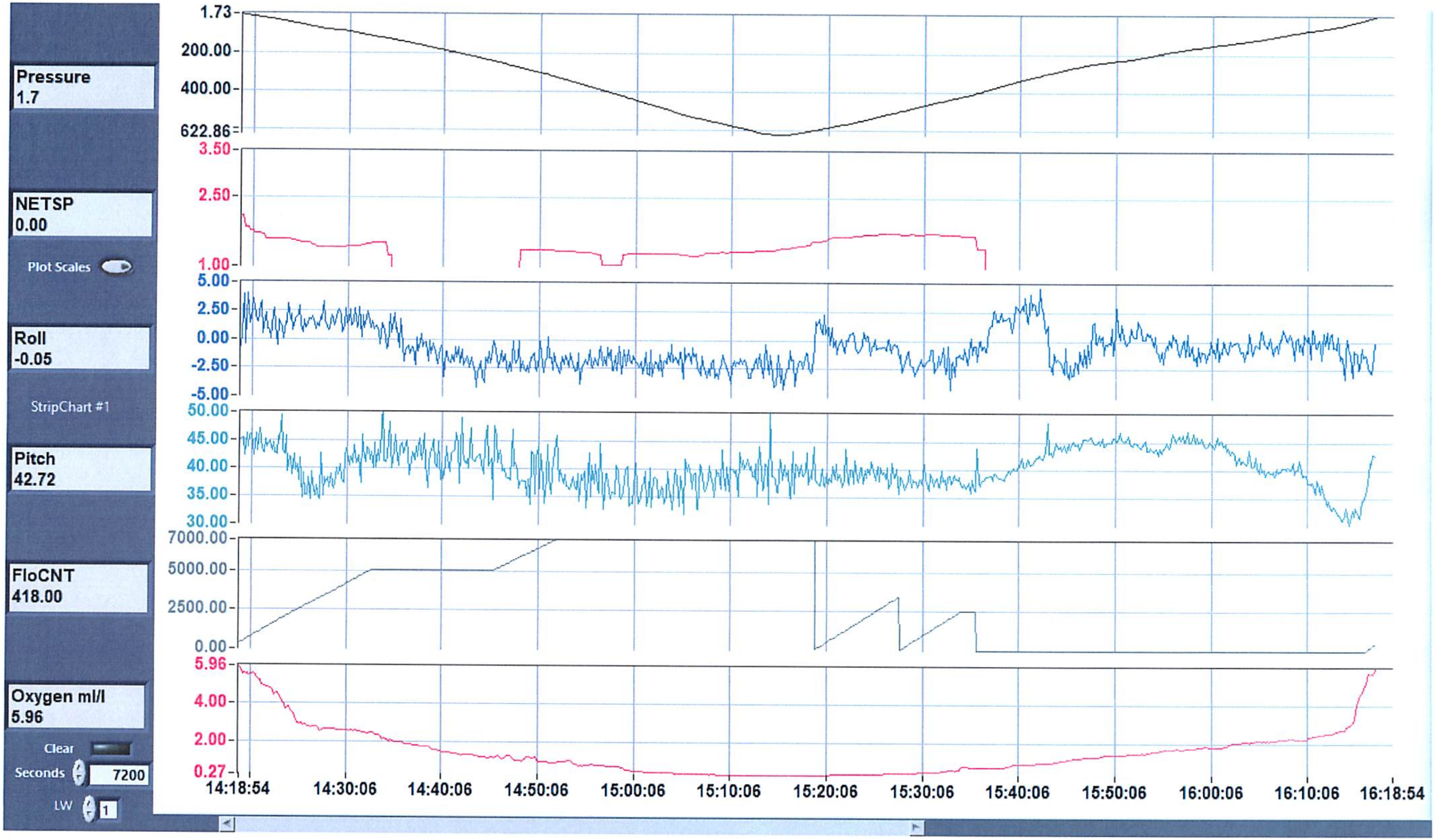
CNF TIME 11.083

Modem Data 582,0,9,9,0,1258,1325,0,0,0,181,3



Jul 27 2021 14:17:41
Ship: Revelle
Cruise: RR2105
File: C2_T1_01
Tow: 01

Depth Scale MIN 0 MAX 200 M



Pressure
1.7

NETSP
0.00

Roll
-0.05

Pitch
42.72

FloCNT
418.00

Oxygen ml/l
5.96

Seconds 7200

LW 1

MOCNESS Data Sheet

Cruise P2107 Date 28/7/2021 Haul # 12 Cycle # 2 Tow # 2

Wind Speed 7 (kts.) Direction 8 (°) Sea State 1 (ft.)

Pre-deployment checks:

- ✓ Flow Meter
- ✓ Sliders
- ✓ Stepping Motor
- ✓ Net Response
- ✓ Clean Optical Surfaces
- ✓ Transmissometer
- ✓ Fluorometer
- ✓ Oxygen Sensor
- ✗ Strobe

File Name: Processed ______ Raw C2_T2A_01
(non-A is test

Start Time 13.27 (PDT) **End** Time ______ (PDT)

Lat 36 17.78 Lat 36 20.746

Long 122 42.691 Long 122 45.886

Event deploy # 20210728 2023001 Event rec. # ______

Frame Size 1 m²

Net Mesh 202 µm

Bottom Depth 3235 (m) Console Operator MD

Net Tow Information

Net	Time Open	Angle	Flow Counts	Volume Filtered (m³)	Max Depth (m)	Min Depth (m)	Split	1/2 Fixative	1/2 Split/Fixative (SF)	Net resp?
0	13.27	56.8	14920	1963.7	482.	0	1/2	5% Form.		✓
1	1422	53.3	54	7	450.4	349.9		5% Form.		✓
2	1435	55.4	0	0	349.9	300.5		5% Form.		✓
3	1441	53.6	0	0	300.5	250.8		5% Form.		✓
4	1449	53.7	0	0	250.8	200.1		5% Form.		✓
5	1455	57.2	0	0	200.1	150.2		5% Form.		✓
6	1501	58.3	0	0	150.2	100.2		5% Form.		✓
7	1507	51.5	1058	135	100.2	50.1		5% Form.		✓
8	1514	48.1	1456	206	50.1	24.2		5% Form.		
9	1517		1110	142	24.2	0	↓	5% Form.		
Closed	1520									

Surface Readings:

Pressure (m) 0.3
Temp (° C) 14.778
Salinity (‰) 6.5
O2 (ml/l) 7.051
Fluor. (V) 4.8
BeamC (/m) 1.149
CTD/M volts (V) 13.73/14.29
wire out (m) 1.3
Time (PDT) 13.27

At Depth Readings:

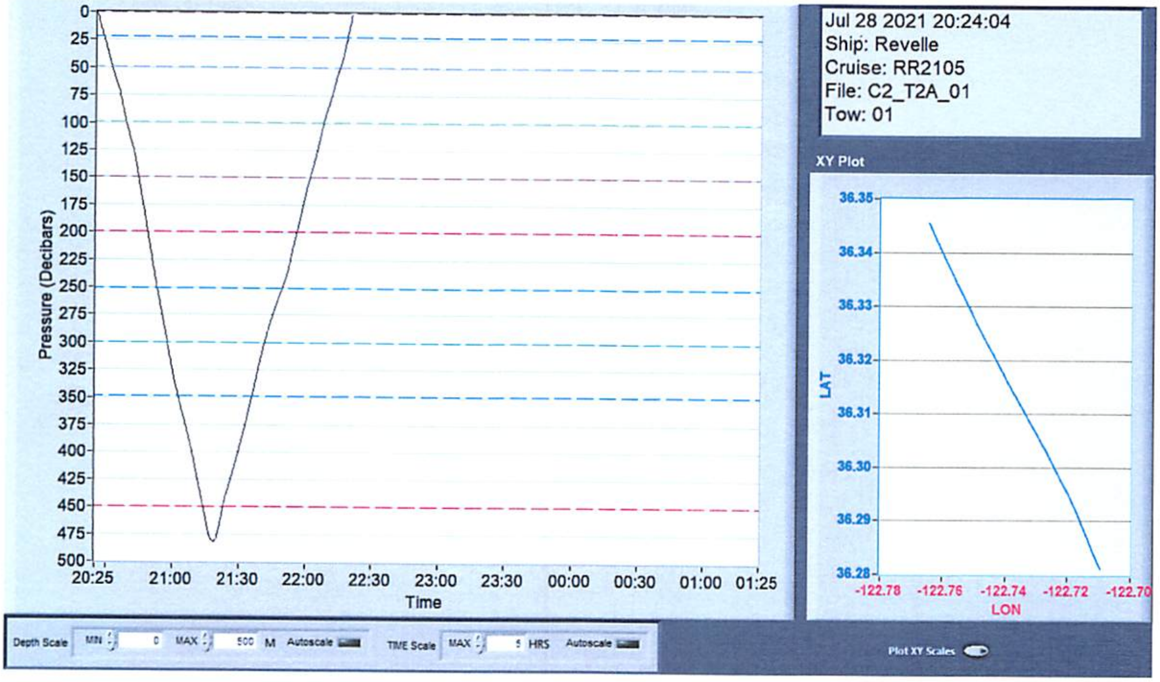
Pressure (m) 482
Temp (° C) 6.791
Salinity (‰) 34.256
O2 (ml/l) 0.481
Fluor. (V) 0.2
BeamC (/m) 0.039
CTD/M volts (V) 13.78
wire out (m) 905
Time (PDT) 1421

Notes: Increased to 15 @ 100 m
~100 m Flow meter jammed (downcast)
200 m wire out - increased to 20 mpm
264 m CPA Sediment trap
Downcast: 294 m Flow meter working again
420 m upcast - Flow m jammed until trip
350 up still jammed all the way
300.5 up still jammed all the way up
250 jammed all the way up
200 jammed all the way up
150 jammed all the way up
100 jammed 65 m
50 clear all the way up

* MADE Rhizarian tow BC it's NOT QUANTITATIVE

Strobe Parameters: No
Time on/off
Depths on
Interval (ms)
Pulse wdth (m)
Intensity (%)
Strobe volts (v)

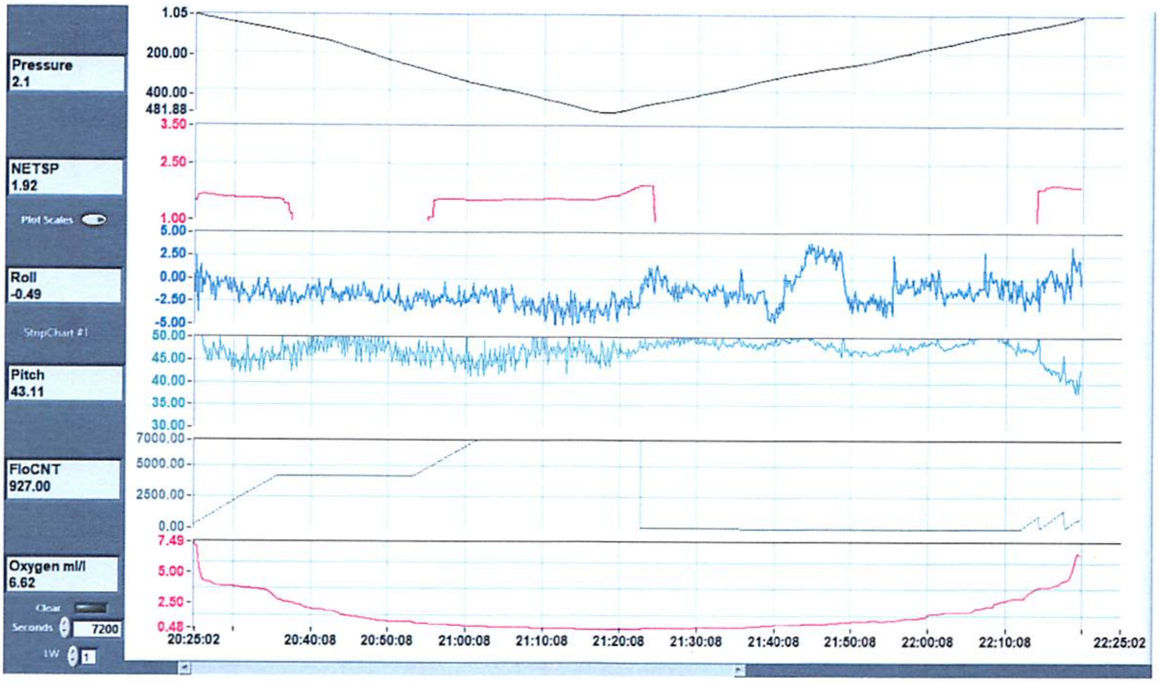
~~0-450~~
~~450-350~~
~~350-300~~
~~300-250~~
~~250-200~~
~~200-150~~
~~150-100~~
100-50
50-25
25-0



Jul 28 2021 20:24:04
Ship: Revelle
Cruise: RR2105
File: C2_T2A_01
Tow: 01

Depth Scale MIN 0 MAX 500 M

TIME Scale MAX 5 HRS



Pressure
2.1

NETSP
1.92

Roll
-0.49

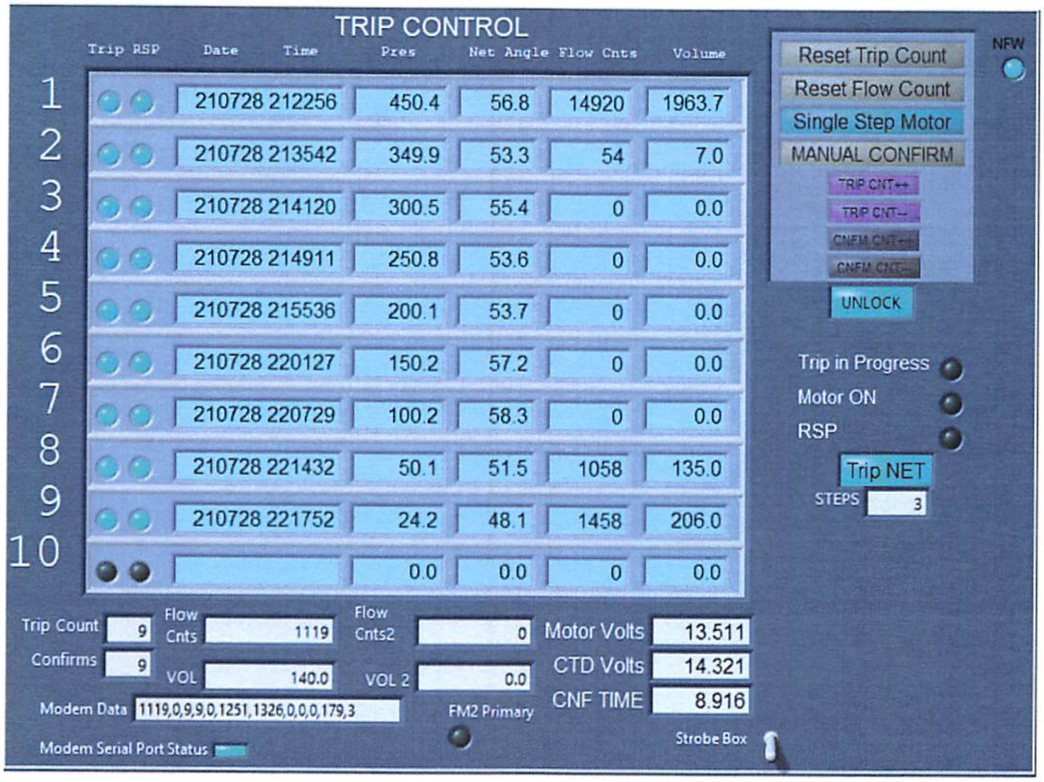
Pitch
43.11

FloCNT
927.00

Oxygen ml/l
6.62

Seconds 7200

LW 1



TRIP CONTROL

	Trip	RSP	Date Time	Pres	Net Angle	Flow Cnts	Volume
1	●	●	210728 212256	450.4	56.8	14920	1963.7
2	●	●	210728 213542	349.9	53.3	54	7.0
3	●	●	210728 214120	300.5	55.4	0	0.0
4	●	●	210728 214911	250.8	53.6	0	0.0
5	●	●	210728 215536	200.1	53.7	0	0.0
6	●	●	210728 220127	150.2	57.2	0	0.0
7	●	●	210728 220729	100.2	58.3	0	0.0
8	●	●	210728 221432	50.1	51.5	1058	135.0
9	●	●	210728 221752	24.2	48.1	1458	206.0
10	●	●		0.0	0.0	0	0.0

STEPS 3

Trip Count 9

Confirms 9

Flow Cnts 1119

VOL 140.0

Flow Cnts2 0

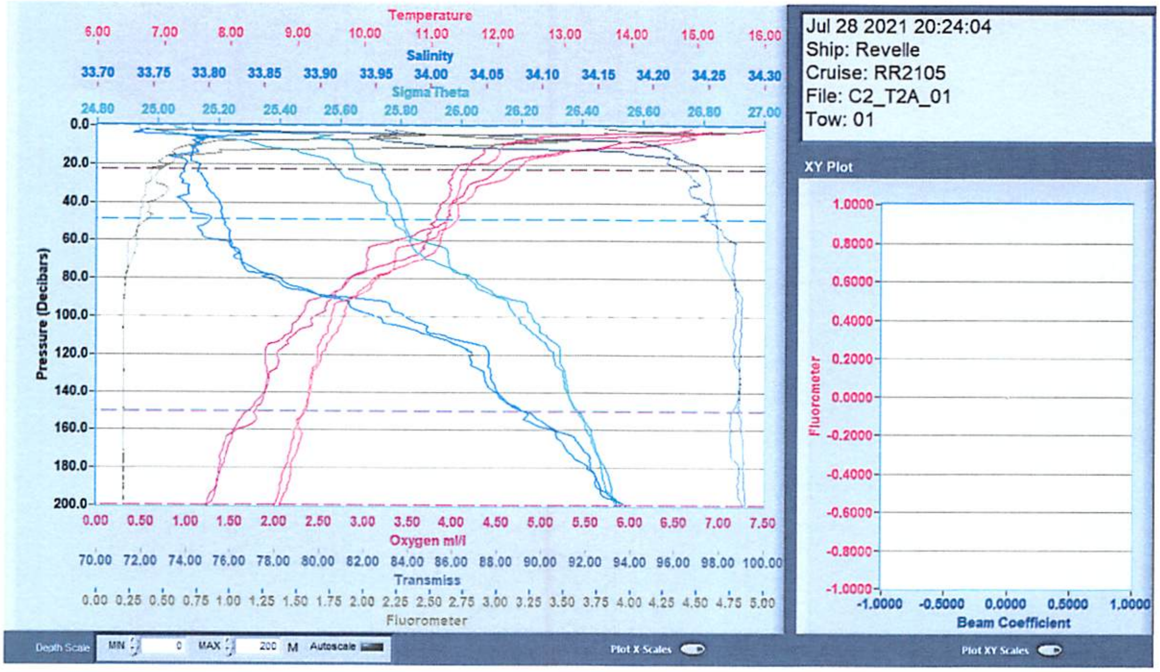
VOL 2 0.0

Motor Volts 13.511

CTD Volts 14.321

CNF TIME 8.916

Modem Data 1119,0,9,9,0,1251,1326,0,0,0,179,3



Jul 28 2021 20:24:04
Ship: Revelle
Cruise: RR2105
File: C2_T2A_01
Tow: 01

Depth Scale MIN 0 MAX 200 M

OBSOLETE

MOCNESS Data Sheet

Cruise 82107 Date 28 July 2021 Haul # 13 Cycle # 2 Tow # 3

Wind Speed 5 (kts.) Direction 270 (°) Sea State 1 (ft.)

Pre-deployment checks:
- ✓ Flow Meter
- ✓ Stepping Motor
- ✓ Net Response
- ✓ Clean Optical Surfaces
- ✓ Transmissometer
- ✓ Fluorometer
- ✓ Oxygen Sensor
- NA Strobe
- ✓ Sliders

File Name: Processed ______ Raw C2_T3_01

Start Time 1641 (PDT) **End** Time 1831 (PDT)

Lat 36.16735 Lat 36 20.941

Long 122 44.379 Long 122 46.907

Event deploy # ______ Event rec. # ______

Frame Size 1 m²

Net Mesh 202 µm

Bottom Depth 3160 (m) Console Operator MD

Net Tow Information

Net	Time Open	Angle	Flow Counts	Volume Filtered (m³)	Max Depth (m)	Min Depth (m)	Split	Fixative	Split/Fixative SF	Net resp?
0	1641	57.3	10699	1448.9	483.3	0	1/2	5% Form.		✓
1	1736	52.2	0	0	450.8	349.9	1/2	5% Form.		✓
2	1746	56.3	0	0	349.9	300.2	1/2	5% Form.		✓
3	1753	56.0	0	0	300.2	250.0	1/2	5% Form.		✓
4	1759	56.5	0	0	250.0	200.3	1/2	5% Form.		✓
5	1805	55.3	0	0	200.3	150.0	1/2	5% Form.		✓
6	1812	47.8	0	0	150.0	99.7	1/2	5% Form.		✓
7	1820	41.1	579	080.9	99.7	49.5	1/2	5% Form.		✓
8	1826	37.8	0	0	49.5	24.2		5% Form.		
9	1829				24.2	0		5% Form.		▨
Closed	1831	▨	▨	▨	▨	▨	▨	▨	▨	▨

Surface Readings:

Pressure (m)	2.7
Temp (° C)	14.854
Salinity (‰)	33.77
O2 (ml/l)	7.045
Fluor. (V)	3.7
BeamC (/m)	0.924
CTD/M volts (V)	13.6
wire out (m)	10.6
Time (PDT)	1641

At Depth Readings:

Pressure (m)	483.3
Temp (° C)	6 482
Salinity (‰)	34.267
O2 (ml/l)	0.413
Fluor. (V)	0.2
BeamC (/m)	0.040
CTD/M volts (V)	13.81
wire out (m)	882
Time (PDT)	1732

X poncast

Notes: 121 m Flow meter clogged
volume 582.7

210 m Flow meter came back

379 Flow meter stopped 8424
450 moving slowly → net SPD going up but @ 0.5 → still pushed vam
up to 1.4 @ 467.5
472 – 1.7 / SOG is 2.0 – 2.2

CPA @ 483

Coming up Net SPD 2.1 470

Strobe Parameters:
Time on/off
Depths on
Interval (ms)
Pulse wdth (m)
Intensity (%)
Strobe volts (v)

NA

Clogged @ 450 up to 350
→ 350 to 300
→ 300 to 250
→ 250 to 200
→ 200 to 150
→ 150 to 100
→ 100 to 50
→ 50 to 25
→ 25 to 0

~~0-450~~
~~450-350~~
~~350-300~~
~~300-250~~
~~250-200~~
~~200-150~~
~~150-100~~
100-50
50-25
25-0

MOCNESS Data Sheet

Cruise 82107 Date 28 July 2021 Haul # 13 Cycle # 2 Tow # 3

Wind Speed 5 (kts.) Direction 270 (°) Sea State 1 (ft.)

Pre-deployment checks:
- ✓ Flow Meter
- ✓ Stepping Motor
- ✓ Net Response
- ✓ Clean Optical Surfaces
- ✓ Transmissometer
- ✓ Fluorometer
- ✓ Oxygen Sensor
- NA Strobe
- ✓ Sliders

File Name: Processed ______ Raw C2_T3_01

Start Time 1641 (PDT) **End** Time 1831 (PDT)

Lat 36.16735 Lat 36 20.941

Long 122 44.379 Long 122 46.907

Event deploy # ______ Event rec. # ______

Frame Size 1 m^2

Net Mesh 202 µm

Bottom Depth 3160 (m) Console Operator MD

Net Tow Information

Net	Time Open	Angle	Flow Counts	Volume Filtered (m^3)	Max Depth (m)	Min Depth (m)	Split	Fixative	Split/Fixative SF	Net resp?
0	1641	57.3		3,409.2	483.3	0	1/2	5% Form.		✓
1	1736	52.2		594.2	450.8	349.9	1/2	5% Form.		✓
2	1746	56.3		401.7	349.9	300.2	1/2	5% Form.		✓
3	1753	56.0		366.7	300.2	250.0	1/2	5% Form.		✓
4	1759	56.5		393.0	250.0	200.3	1/2	5% Form.		✓
5	1805	55.3		412.4	200.3	150.0	1/2	5% Form.		✓
6	1812	47.8		505.8	150.0	99.7	1/2	5% Form.		✓
7	1820	41.1		360.9	99.7	49.5	1/2	5% Form.		✓
8	1826	37.8		147.0	49.5	24.2		5% Form.		
9	1829			127.5	24.2	0		5% Form.		
Closed	1831									

Surface Readings:

Pressure (m) 2.7

Temp (° C) 14.854

Salinity (‰) 33.77

O2 (ml/l) 7.045

Fluor. (V) 3.7

BeamC (/m) 0.924

CTD/M volts (V) 13.6

wire out (m) 10.6

Time (PDT) 1641

At Depth Readings:

Pressure (m) 483.3

Temp (° C) 6.482

Salinity (‰) 34.267

O2 (ml/l) 0.413

Fluor. (V) 0.0

BeamC (/m) 0.040

CTD/M volts (V) 13.81

wire out (m) 882

Time (PDT) 1732

Notes: Haul #13

Volumes filtered calculated from regressions of Vol. filt. vs. tow duration for Hauls 14-16 and Hauls 19-22

(S. Matthews)
5 Apr. 2022

Flow meter clogged

582.7

meter came back

etr stopped 8424

ly → net SPD going up but @ 0.5 → still partial jam

7.5

OG is 2.0 – 2.2

83

Coming up Net SPD 2.1 476]

Clogged @ 450 up to 350

→ 350 to 300

→ 300 to 250

→ 250 to 200

→ 200 to 150

→ 150 to 100

→ 100 to 50

→ 50 to 25

→ 25 to 0

~~0-450~~
~~450-350~~
~~350-300~~
~~300-250~~
~~250-200~~
~~200-150~~
~~150-100~~
~~100-50~~
50-25
25-0

Strobe Parameters:

Time on/off ______

Depths on ______

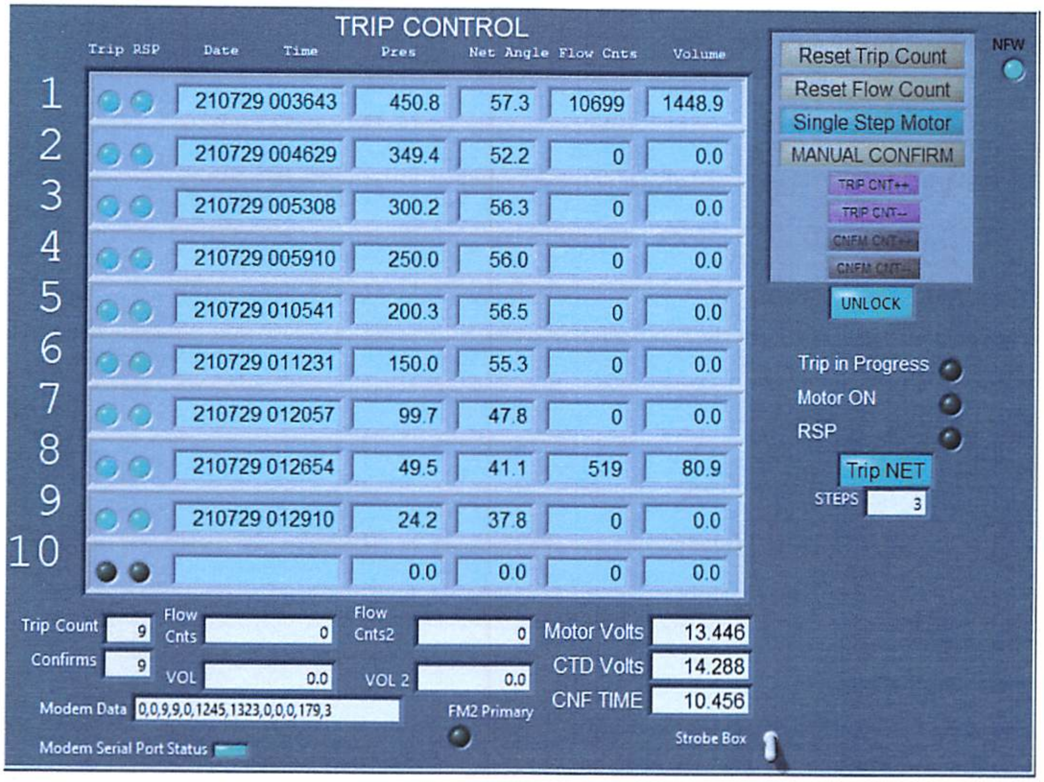
Interval (ms) ______

Pulse wdth (m) ______

Intensity (%) ______

Strobe volts (v) ______

NA



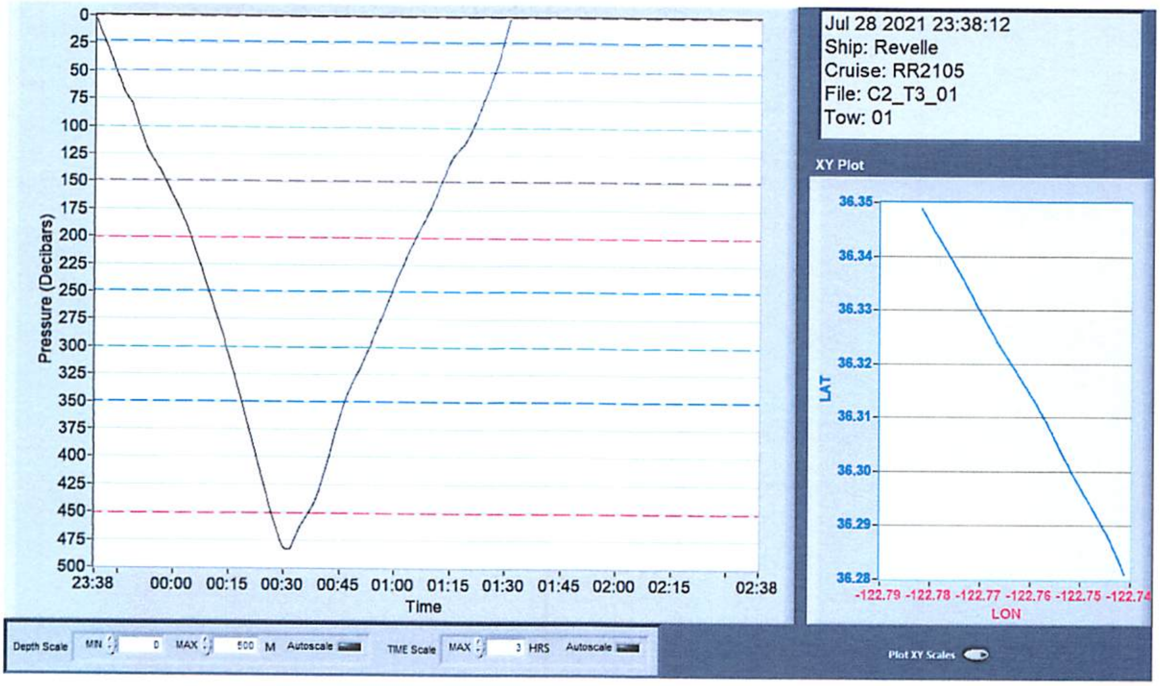
TRIP CONTROL

	Trip	RSP	Date Time	Pres	Net Angle	Flow Cnts	Volume
1	●	●	210729 003643	450.8	57.3	10699	1448.9
2	●	●	210729 004629	349.4	52.2	0	0.0
3	●	●	210729 005308	300.2	56.3	0	0.0
4	●	●	210729 005910	250.0	56.0	0	0.0
5	●	●	210729 010541	200.3	56.5	0	0.0
6	●	●	210729 011231	150.0	55.3	0	0.0
7	●	●	210729 012057	99.7	47.8	0	0.0
8	●	●	210729 012654	49.5	41.1	519	80.9
9	●	●	210729 012910	24.2	37.8	0	0.0
10	●	●		0.0	0.0	0	0.0

Trip Count 9
Confirms 9
Flow Cnts 0
VOL 0.0
Flow Cnts2 0
VOL 2 0.0
Motor Volts 13.446
CTD Volts 14.288
CNF TIME 10.456
Modem Data 0,0,9,9,0,1245,1323,0,0,0,179,3
STEPS 3

Jul 28 2021 23:38:12
Ship: Revelle
Cruise: RR2105
File: C2_T3_01
Tow: 01

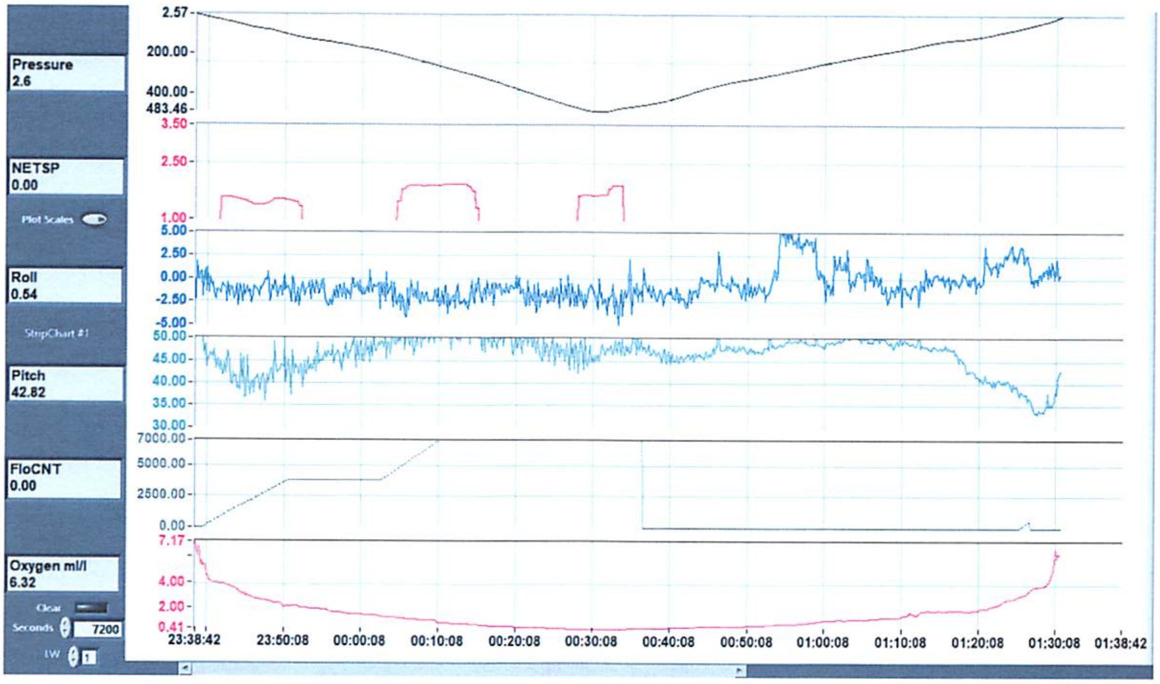
Depth Scale MIN 0 MAX 200 M



Jul 28 2021 23:38:12
Ship: Revelle
Cruise: RR2105
File: C2_T3_01
Tow: 01

Depth Scale MIN 0 MAX 500 M

TIME Scale MAX 3 HRS



Pressure
2.6

NETSP
0.00

Roll
0.54

Pitch
42.82

FloCNT
0.00

Oxygen ml/l
6.32

Seconds 7200

LW 1

MOCNESS Data Sheet

Cruise P2107 Date 28 July 2021 Haul # 14 Cycle # 2 Tow # 4

Wind Speed 4.5 (kts.) Direction 292 (°) Sea State 1-2 (ft.)

Pre-deployment checks:
- ✓ Flow Meter
- ✓ Sliders
- ✓ Stepping Motor
- ✓ Net Response
- ✓ Clean Optical Surfaces
- ✓ Transmissometer
- ✓ Fluorometer
- ✓ Oxygen Sensor
- OFF Strobe

File Name: Processed ________ Raw C2-T4_01.hex

Start Time 2221 (PDT) **End** Time 2358 (PDT)

Lat 36 18. Lat 36 21.207N

Long 122 44. Long 122 46.361W

Event deploy # ________ Event rec. # ________

Frame Size 1 m²

Net Mesh 202 µm

Bottom Depth 3205 (m) Console Operator SM.

Net Tow Information

Net	Time Open	Angle	Flow Counts	Volume Filtered (m³)	Max Depth (m)	Min Depth (m)	Split	Fixative	Split/Fixative	Net resp?
0	2221	45	16850	2468	464	0	50/0	5% Form.	50% size frn frozen	✓
1	2308	49	5021	726	448	337		5% Form.		✓
2	2319	48	1492	206	337	300		5% Form.		✓
3	2323	50	2545	360	300	250		5% Form.		✓
4	2328	49	2698	373	250	200		5% Form.		✓
5	2334	52	2655	368	200	150		5% Form.		✓
6	2340	49	2920	417	150	100		5% Form.		✓
7	2346	50	2483	346	100	50		5% Form.		✓
8	2352	44	1238	178	50	25		5% Form.		✓
9	2355	32	1067	138	25	0	↓	5% Form.	↓	
Closed	2358									

Surface Readings:

Pressure (m) 1.7

Temp (° C) 14.42

Salinity (‰) 33.806

O2 (ml/l) 7.63

Fluor. (V) 4.0

BeamC (/m) 1.102

CTD/M volts (V) 14.28/13.48

wire out (m) -1.3

Time (PDT) 2222

Notes: New flowmeter - same model/ new to restechs, need to check if calib is same

At Depth Readings:

Pressure (m) 464

Temp (° C) 6.75

Salinity (‰) 34.25

O2 (ml/l) 0.484

Fluor. (V) 0.2

BeamC (/m) 0.038

CTD/M volts (V) 14.31 / 13.8

wire out (m) 743

Time (PDT) 2307

Strobe Parameters: OFF

Time on/off ________

Depths on ________

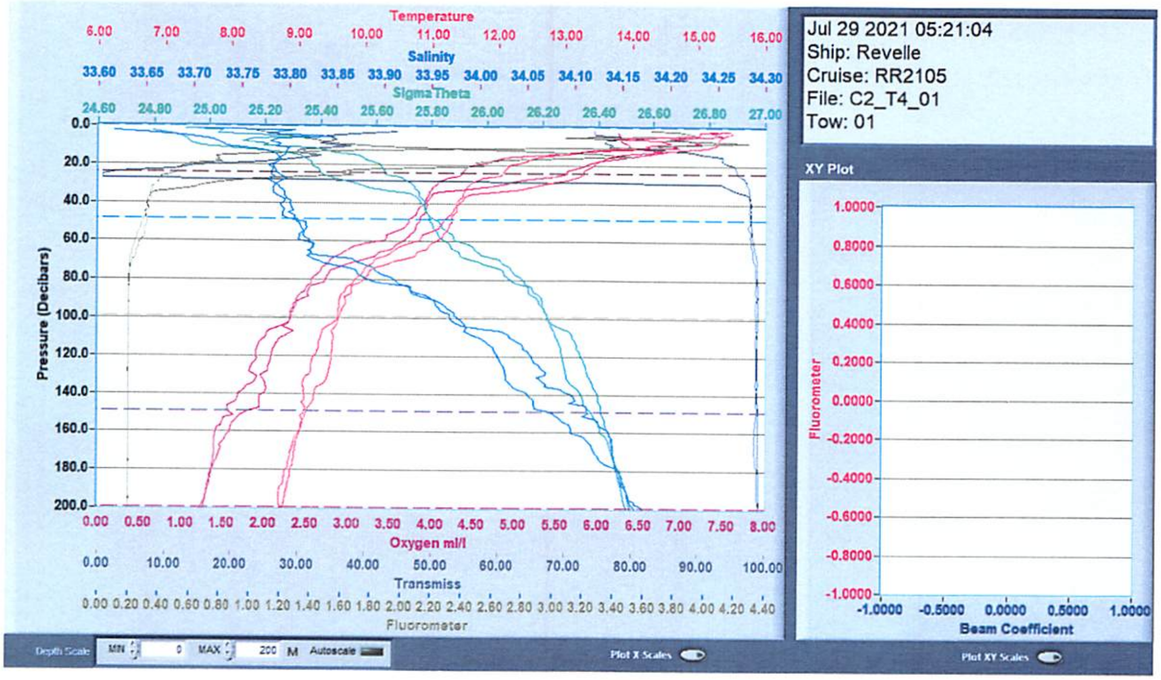
Interval (ms) ________

Pulse wdth (m) ________

Intensity (%) ________

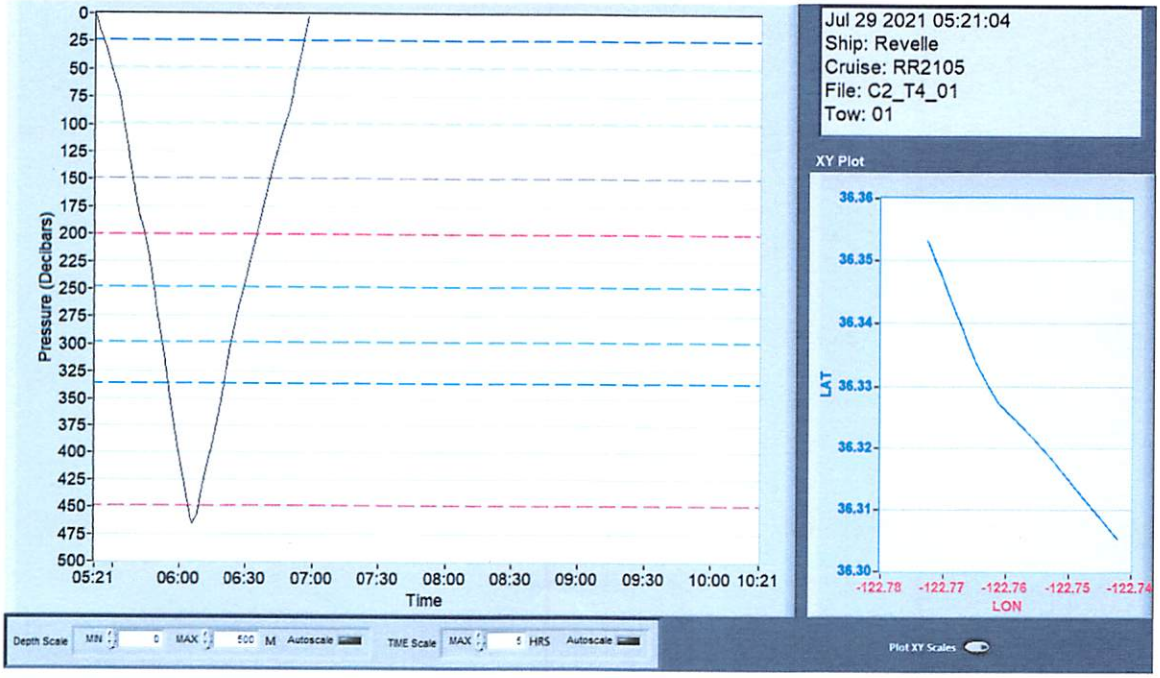
Strobe volts (v) ________

~~0-450~~
~~450-350~~
~~350-300~~
~~300-250~~
~~250-200~~
~~200-150~~
~~150-100~~
~~100~~-50
50-25
25-0



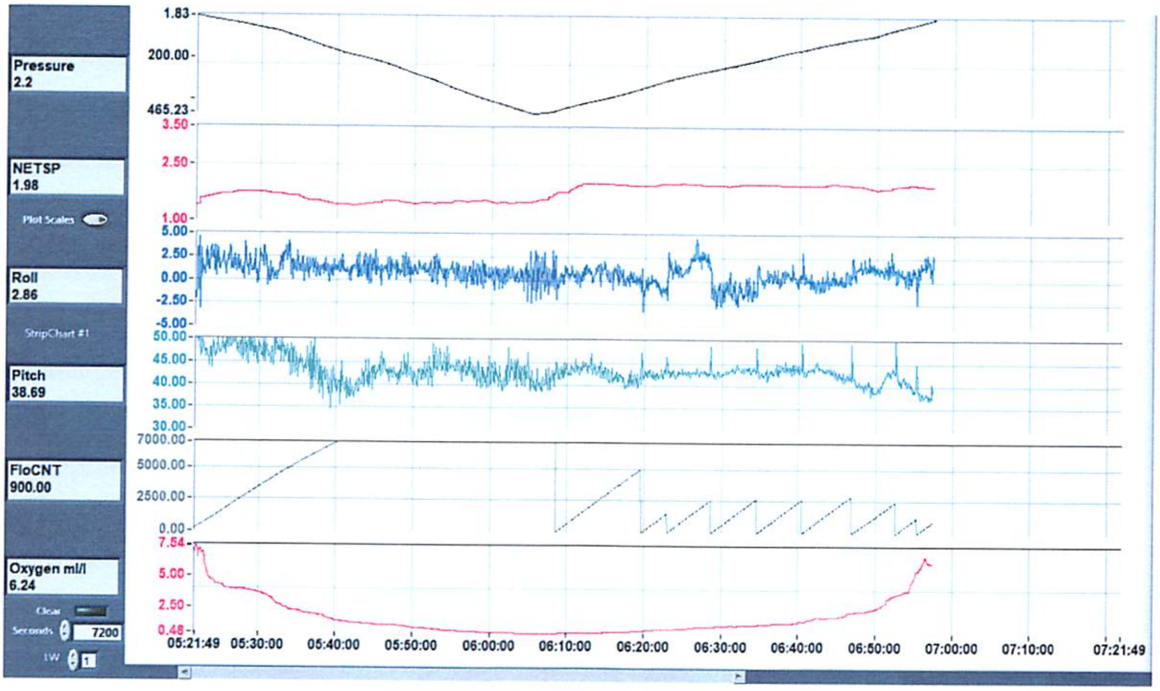
Jul 29 2021 05:21:04
Ship: Revelle
Cruise: RR2105
File: C2_T4_01
Tow: 01

Depth Scale MIN 0 MAX 200 M Autoscale



Jul 29 2021 05:21:04
Ship: Revelle
Cruise: RR2105
File: C2_T4_01
Tow: 01

Depth Scale MIN 0 MAX 500 M Autoscale TIME Scale MAX 5 HRS Autoscale



Pressure 2.2

NETSP 1.98

Roll 2.86

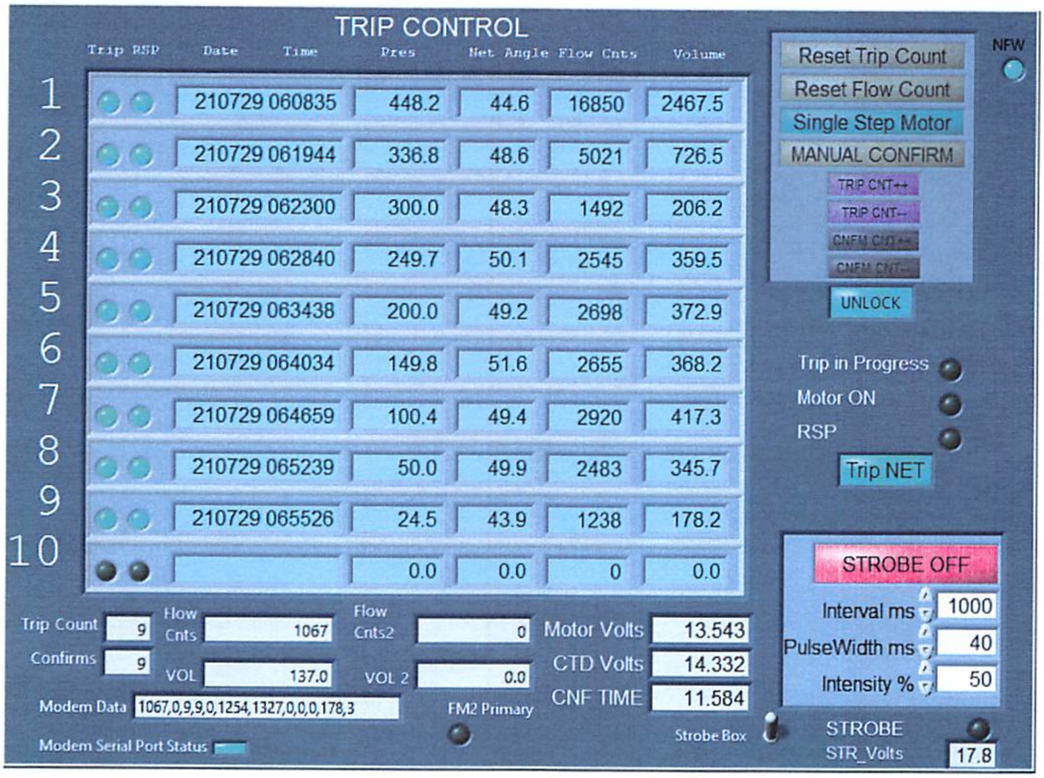
Pitch 38.69

FloCNT 900.00

Oxygen ml/l 6.24

Seconds 7200

LW 1



TRIP CONTROL

	Trip	RSP	Date	Time	Pres	Net Angle	Flow Cnts	Volume
1	●	●	210729	060835	448.2	44.6	16850	2467.5
2	●	●	210729	061944	336.8	48.6	5021	726.5
3	●	●	210729	062300	300.0	48.3	1492	206.2
4	●	●	210729	062840	249.7	50.1	2545	359.5
5	●	●	210729	063438	200.0	49.2	2698	372.9
6	●	●	210729	064034	149.8	51.6	2655	368.2
7	●	●	210729	064659	100.4	49.4	2920	417.3
8	●	●	210729	065239	50.0	49.9	2483	345.7
9	●	●	210729	065526	24.5	43.9	1238	178.2
10	○	○			0.0	0.0	0	0.0

Trip Count 9

Confirms 9

Flow Cnts 1067

VOL 137.0

Flow Cnts2 0

VOL 2 0.0

Motor Volts 13.543

CTD Volts 14.332

CNF TIME 11.584

Modem Data 1067,0,9,9,0,1254,1327,0,0,0,178,3

Interval ms 1000

PulseWidth ms 40

Intensity % 50

STR_Volts 17.8

MOCNESS Data Sheet

Cruise P2107 Date 29-07-21 Haul # 15 Cycle # 2 Tow # 5

Wind Speed 7 (kts.) Direction 322 (°) Sea State 1 (ft.)

Pre-deployment checks:
- ✓ Flow Meter
- ✓ Sliders
- ✓ Stepping Motor
- ✓ Net Response
- ✓ Clean Optical Surfaces
- ✓ Transmissometer
- NA Fluorometer
- ✓ Oxygen Sensor
- NA Strobe

File Name: Processed ______ Raw C2_T5_01

Start Time 1331 (PDT) **End** Time 1522 (PDT)

Lat 36 19.375N Lat 36 12.711 N

Long 122 48.547W Long 122 27.531 W

Event deploy # ______ Event rec. # ______

Frame Size 1 m^2

Net Mesh 202 µm

Bottom Depth 3122 (m) Console Operator Anya♡

Net Tow Information

Net	Time Open	Angle	Flow Counts	Volume Filtered (m^3)	Max Depth (m)	Min Depth (m)	Split	Fixative	Split/Fixative	Net resp?
0	1331	48.6	19537	2815.9	475	0	50%	5% Form.	50% EtOH	
1	1425	51.6	5554	742.6	448.7	350		5% Form.		
2	1430	49.7	2809	376.3	350	300.3		5% Form.		
3	1442	53.9	2841	368.8	300.3	250.2		5% Form.		
4	1448	54.6	3333	434.8	250.2	200.2		5% Form.		
5	1455	50.2	3196	448.9	200.2	149.9		5% Form.		
6	1502	50	2520	349.5	149.9	99.6		5% Form.		
7	1507	54.9	2664	339.2	99.6	50.1		5% Form.		
8	1512	55.9	1550	198.1	50.1	24.6		5% Form.		
9	1515		1094	120	24.6	0		5% Form.		
Closed	1518									

Surface Readings:

Pressure (m) 1.2
Temp (° C) 19.044
Salinity (‰) 41.929
O2 (ml/l) 7026
Fluor. (V) 4.9
BeamC (/m) 1.027
CTD/M volts (V) 14.28
wire out (m) 4.1
Time (PDT) 1332

At Depth Readings:

Pressure (m) 471.2
Temp (° C) 6.682
Salinity (‰) 34.259
O2 (ml/l) 0.452
Fluor. (V) 6.2
BeamC (/m) 0.092
CTD/M volts (V) 14.28
wire out (m) 834.8
Time (PDT) 1423

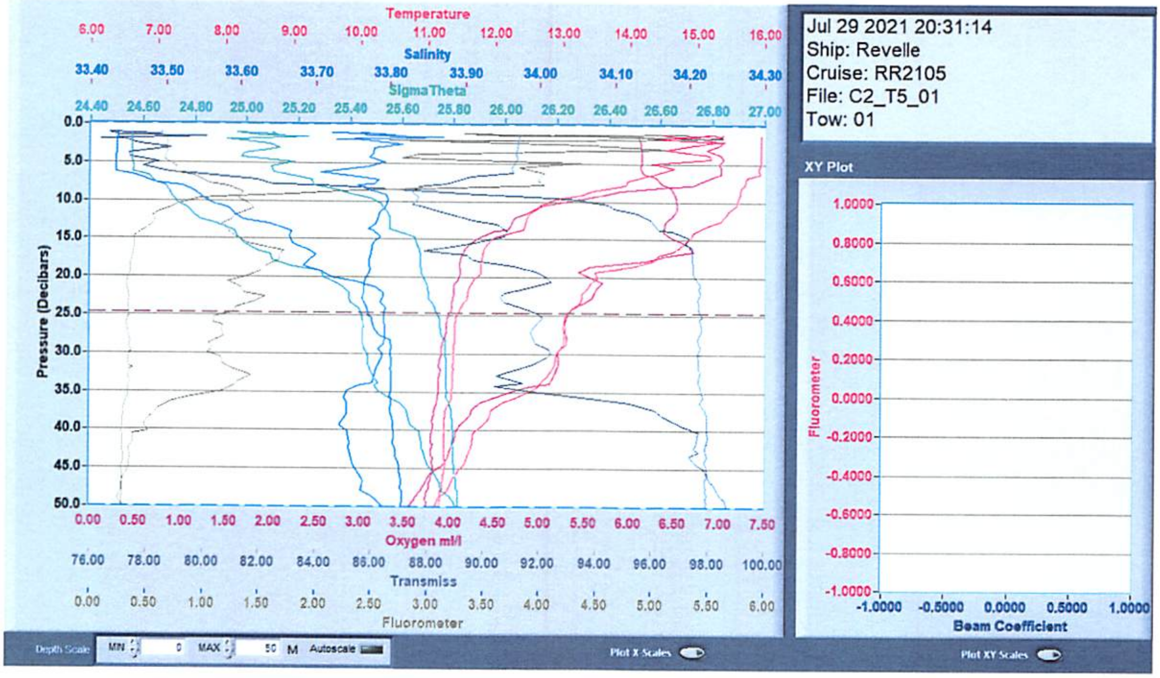
Notes: Net speed 2.2 at ~400m

depth 323 CPA

Strobe Parameters:

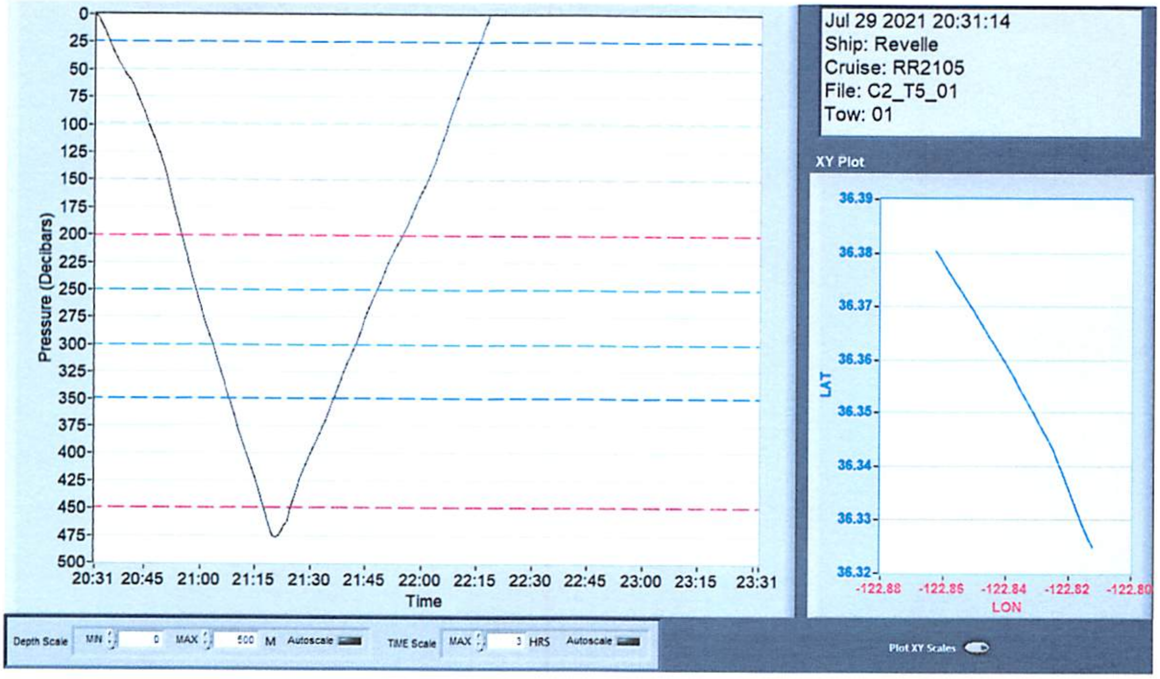
Time on/off ______
Depths on ______
Interval (ms) ______
Pulse wdth (m) ______
Intensity (%) ______
Strobe volts (v) ______

0-450
450-350
350-300
300-250
250-200
200-150
150-100
100-50
50-25
25-0



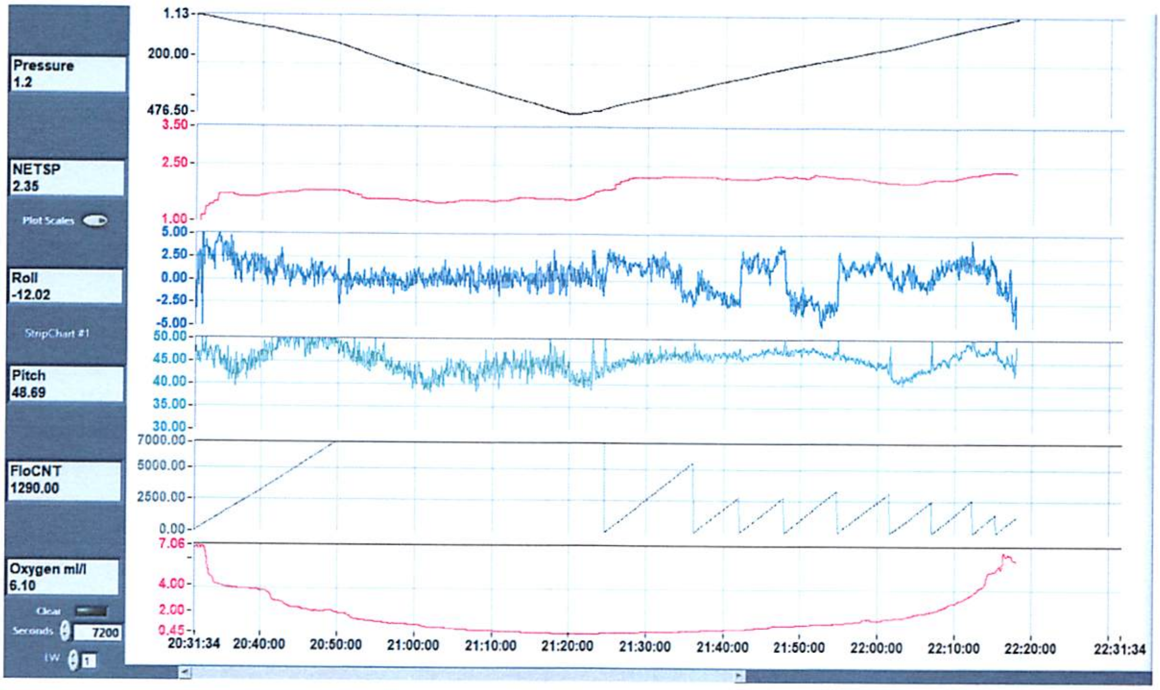
Jul 29 2021 20:31:14
Ship: Revelle
Cruise: RR2105
File: C2_T5_01
Tow: 01

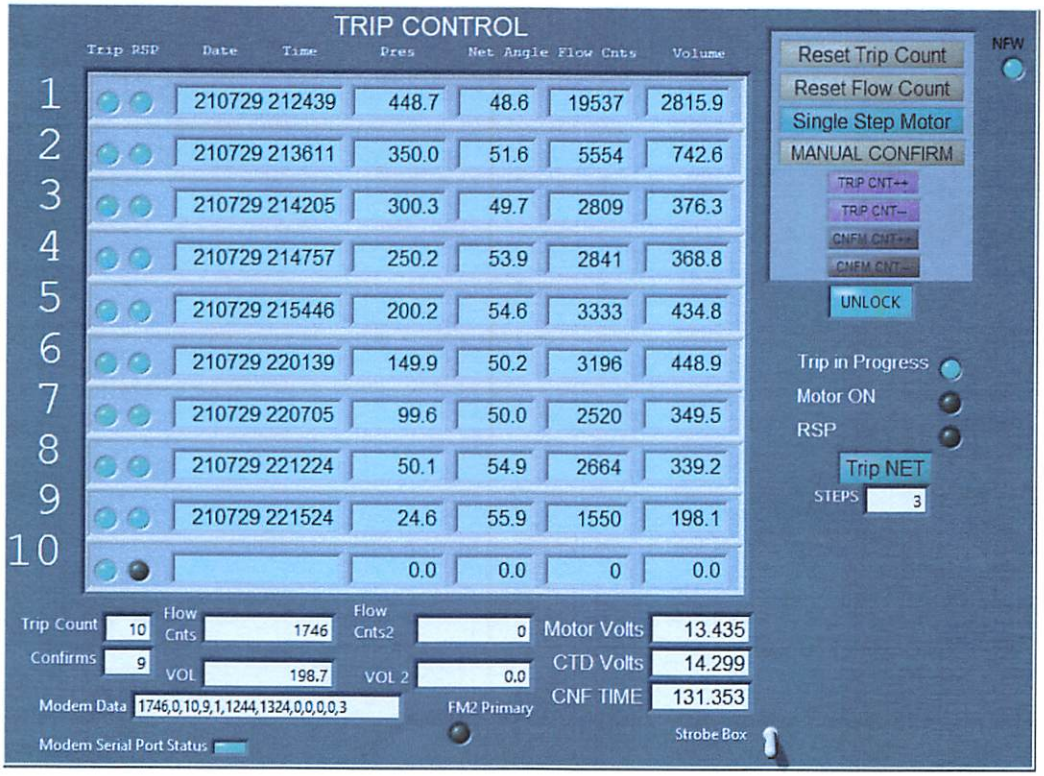
Depth Scale MIN 0 MAX 50 M Autoscale



Jul 29 2021 20:31:14
Ship: Revelle
Cruise: RR2105
File: C2_T5_01
Tow: 01

Depth Scale MIN 0 MAX 500 M Autoscale TIME Scale MAX 3 HRS Autoscale





TRIP CONTROL

	Trip	RSP	Date	Time	Pres	Net Angle	Flow Cnts	Volume
1	●	●	210729	212439	448.7	48.6	19537	2815.9
2	●	●	210729	213611	350.0	51.6	5554	742.6
3	●	●	210729	214205	300.3	49.7	2809	376.3
4	●	●	210729	214757	250.2	53.9	2841	368.8
5	●	●	210729	215446	200.2	54.6	3333	434.8
6	●	●	210729	220139	149.9	50.2	3196	448.9
7	●	●	210729	220705	99.6	50.0	2520	349.5
8	●	●	210729	221224	50.1	54.9	2664	339.2
9	●	●	210729	221524	24.6	55.9	1550	198.1
10	●	○			0.0	0.0	0	0.0

Trip in Progress ●
Motor ON ○
RSP ○
STEPS 3

Trip Count 10
Confirms 9
Flow Cnts 1746
VOL 198.7
Flow Cnts2 0
VOL 2 0.0
Motor Volts 13.435
CTD Volts 14.299
CNF TIME 131.353
Modem Data 1746,0,10,9,1,1244,1324,0,0,0,0,3
FM2 Primary ○
Modem Serial Port Status

MOCNESS Data Sheet

Cruise P2107 Date 29 July 2021/30 July 2021 Haul # 016 Cycle # 2 Tow # 6

Wind Speed 14 (kts.) Direction 350 (°) Sea State ____ (ft.)

File Name: Processed ____ Raw C2-06-01

Start Time 22:13 (PDT) **End** Time 00:20 (PDT)

Lat 36 21.850 N Lat 36 25.634 N

Long 122 52.903 W Long 122 57.108 W

Pre-deployment checks:

- ✓ Flow Meter
- ✓ Sliders
- ✓ Stepping Motor
- ✓ Net Response
- ✓ Clean Optical Surfaces
- ✓ Transmissometer
- ✓ Fluorometer
- ✓ Oxygen Sensor
- ✓ Strobe

Event deploy # ____ Event rec. # ____

Frame Size 1 m^2

Net Mesh 202 µm

Bottom Depth ____ (m) Console Operator Dante

Net Tow Information

Net	Time Open	Angle	Flow Counts	Volume Filtered (m^3)	Max Depth (m)	Min Depth (m)	Split	Fixative	Split/Fixative	Net resp?
0	22:13	53	2475	3267.7	459	0	50%	5% Form.	50% EtOH	
1	23:18	53.3	8108	1055.2	450.9	350.4		5% Form.		
2	23:34	56.2	3150	398.3	350.4	300.7		5% Form.		
3	23:41	52.8	3688	482.6	300.7	251.1		5% Form.		
4	23:48	54.4	3322	428.2	251.1	199.9		5% Form.		
5	23:54	56.2	3147	397.4	199.9	150.1		5% Form.		
6	00:01	52.9	2960	390.3	150.1	100.2		5% Form.		
7	00:07	53.8	3162	407.6	100.2	49.9		5% Form.		
8	00:13	51.3	1526	198.9	49.9	24.2		5% Form.		
9	0016						↓	5% Form.	↓	
Closed										

Surface Readings:

Pressure (m) 0.6
Temp (° C) 15.728
Salinity (‰) 33.551
O2 (ml/l) 6.255
Fluor. (V) 1.5
BeamC (/m) 0.486
CTD/M volts (V) 14.26
wire out (m) ____
Time (PDT) 22:14

At Depth Readings:

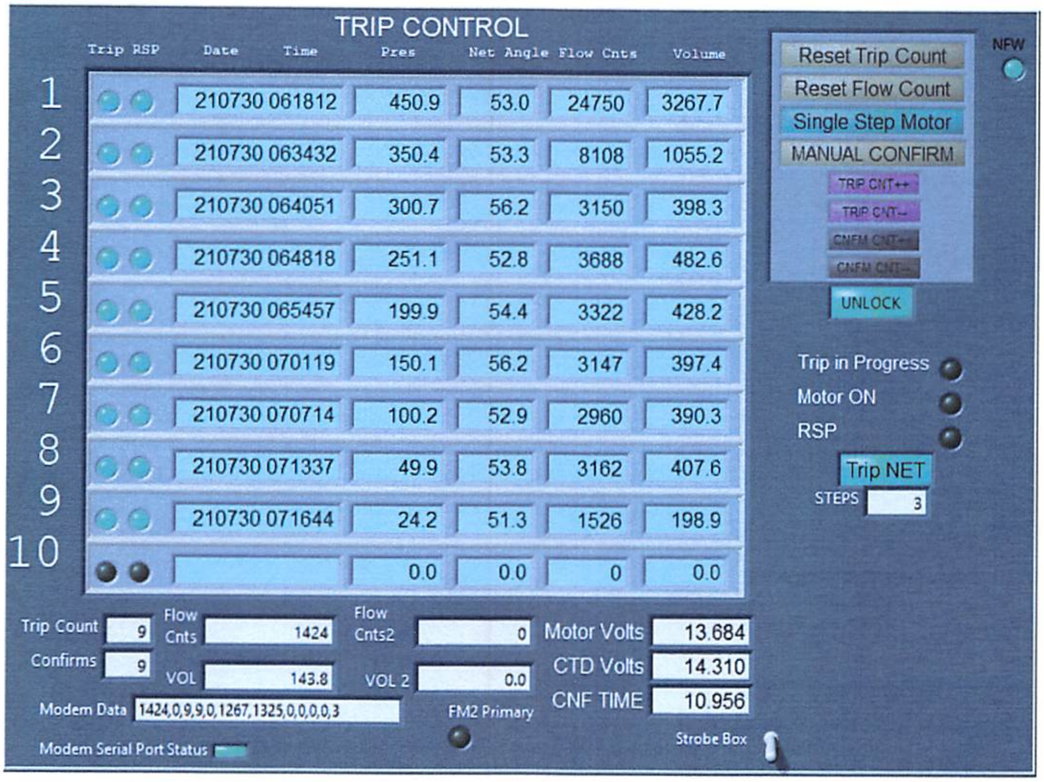
Pressure (m) 459
Temp (° C) 6.736
Salinity (‰) 34.262
O2 (ml/l) 0.456
Fluor. (V) 0.2
BeamC (/m) 0.025
CTD/M volts (V) 13.8
wire out (m) 905
Time (PDT) 23:16

Notes:

Strobe Parameters:

Time on/off ____
Depths on ____
Interval (ms) ____
Pulse wdth (m) ____
Intensity (%) ____
Strobe volts (v) ____

~~0-450~~
450-350
350-300
300-250
250-200
200-150
150-100
100-50
50-25
25-0



TRIP CONTROL

	Trip	RSP	Date	Time	Pres	Net Angle	Flow Cnts	Volume
1	●	●	210730	061812	450.9	53.0	24750	3267.7
2	●	●	210730	063432	350.4	53.3	8108	1055.2
3	●	●	210730	064051	300.7	56.2	3150	398.3
4	●	●	210730	064818	251.1	52.8	3688	482.6
5	●	●	210730	065457	199.9	54.4	3322	428.2
6	●	●	210730	070119	150.1	56.2	3147	397.4
7	●	●	210730	070714	100.2	52.9	2960	390.3
8	●	●	210730	071337	49.9	53.8	3162	407.6
9	●	●	210730	071644	24.2	51.3	1526	198.9
10	●	●			0.0	0.0	0	0.0

Trip Count 9

Confirms 9

Flow Cnts 1424

VOL 143.8

Flow Cnts2 0

VOL 2 0.0

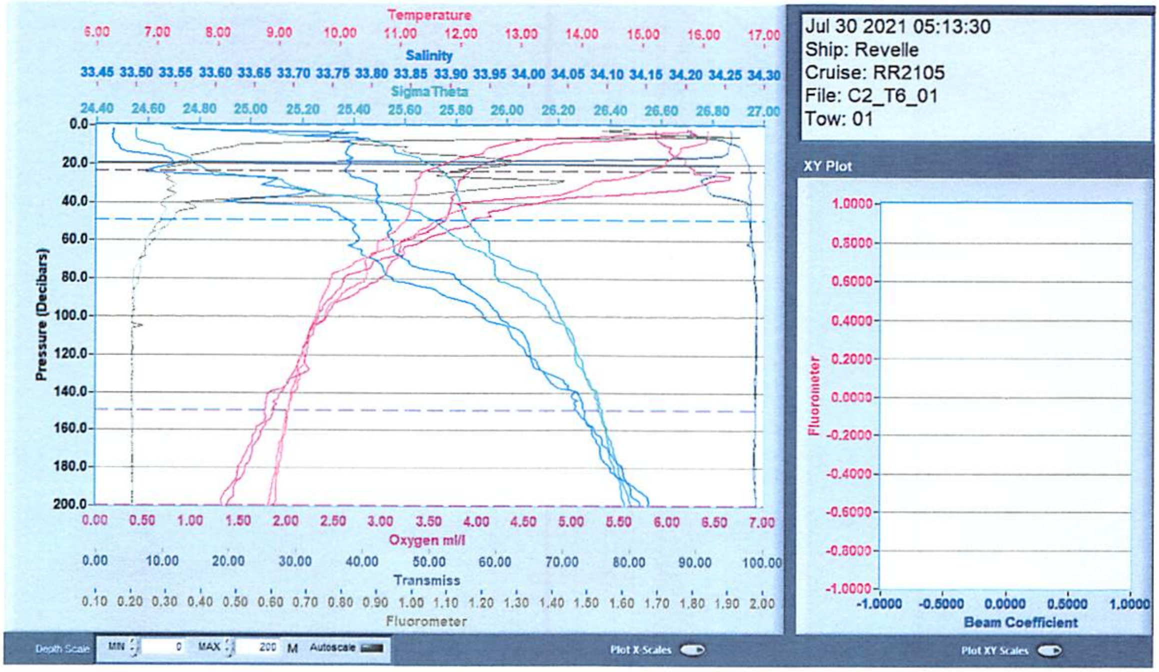
Motor Volts 13.684

CTD Volts 14.310

CNF TIME 10.956

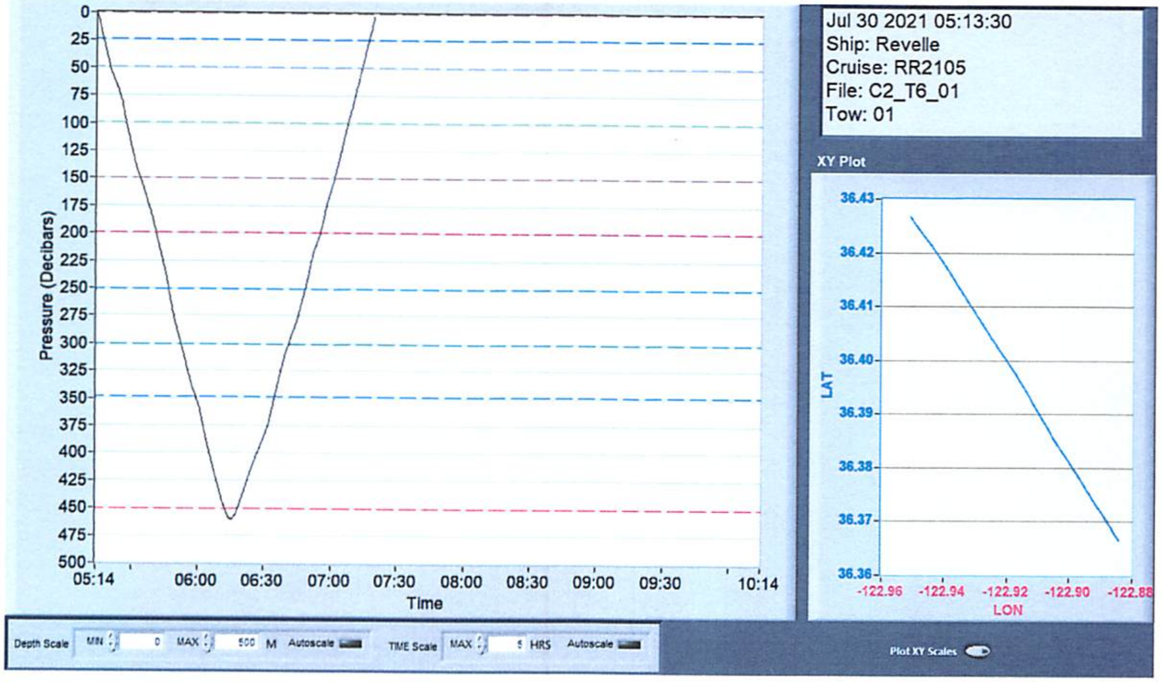
Modem Data 1424,0,9,9,0,1267,1325,0,0,0,0,3

STEPS 3



Jul 30 2021 05:13:30
Ship: Revelle
Cruise: RR2105
File: C2_T6_01
Tow: 01

Depth Scale MIN 0 MAX 200 M Autoscale

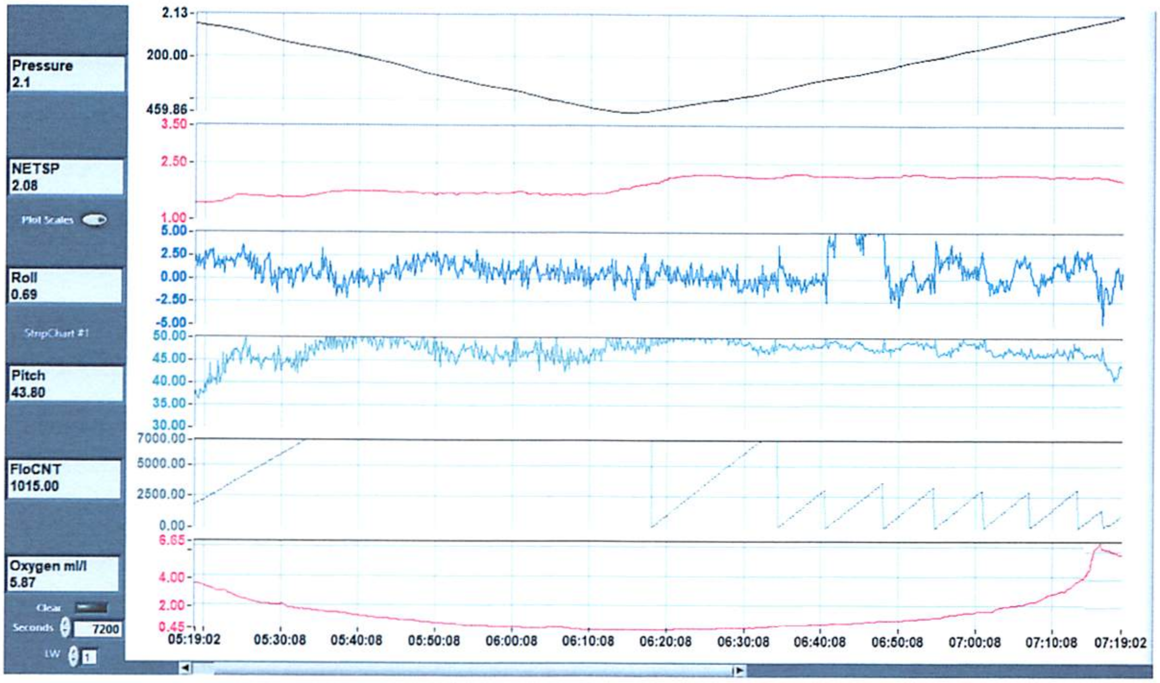


Jul 30 2021 05:13:30
Ship: Revelle
Cruise: RR2105
File: C2_T6_01
Tow: 01

Depth Scale MIN 0 MAX 500 M Autoscale

TIME Scale MAX 5 HRS Autoscale

Plot XY Scales



Pressure
2.1

NETSP
2.08

Plot Scales

Roll
0.69

StripChart #1

Pitch
43.80

FloCNT
1015.00

Oxygen ml/l
5.87

Clear

Seconds 7200

LW 1

MOCNESS Data Sheet

Cruise P2107 Date 31 July 2021 Haul # 17 Cycle # 2 Tow # 7

Wind Speed 1 (kts.) Direction 320 (°) Sea State 10 (ft.)

File Name: Processed ______ Raw C2-T7-01

Start Time 1320 (PDT) **End** Time 1733 (PDT)

Lat 36 24.417N Lat 36 32.030N

Long 123 11.868W Long 123 20.575W

Pre-deployment checks:
- ✓ Flow Meter
- ✓ Stepping Motor
- ✓ Net Response
- ✓ Clean Optical Surfaces
- ✓ Transmissometer
- ✓ Fluorometer
- ✓ Oxygen Sensor
- ✓ Strobe
- ✓ Sliders

Event deploy # 3396 Event rec. # ______

Frame Size 1 m^2

Net Mesh 202 µm

Bottom Depth 3396 (m) Console Operator Anyar

Net Tow Information

Net	Time Open	Angle	Flow Counts	Volume Filtered (m^3)	Max Depth (m)	Min Depth (m)	Split	Fixative	Split/Fixative	Net resp?
0	1320	59.2	44259	5972.1	1034.5	0	25%	5% Form.	25% SF / 50% EtOH	
1	1519	58.4	13138	1623.0	1000.5	800.3		5% Form.		
2	1544	55.5	16178	2005.8	800.3	600.2		5% Form.		
3	1616	54.9	6658	849.0	600.2	500.5		5% Form.		
4	1629	56.0	6473	830.5	500.5	399.8		5% Form.		
5	1642	55.2	6301	802.5	399.8	299.2		5% Form.		
6	1654	54.8	6523	826.6	299.2	199.8		5% Form.		
7	1707	56.0	7281	935.9	199.8	99.6		5% Form.		
8	1721	53.1	3230	429.0	99.6	49.4		5% Form.	↓	
9	1727		2631	315	49.4	0	↓	5% Form.		
Closed	1733									

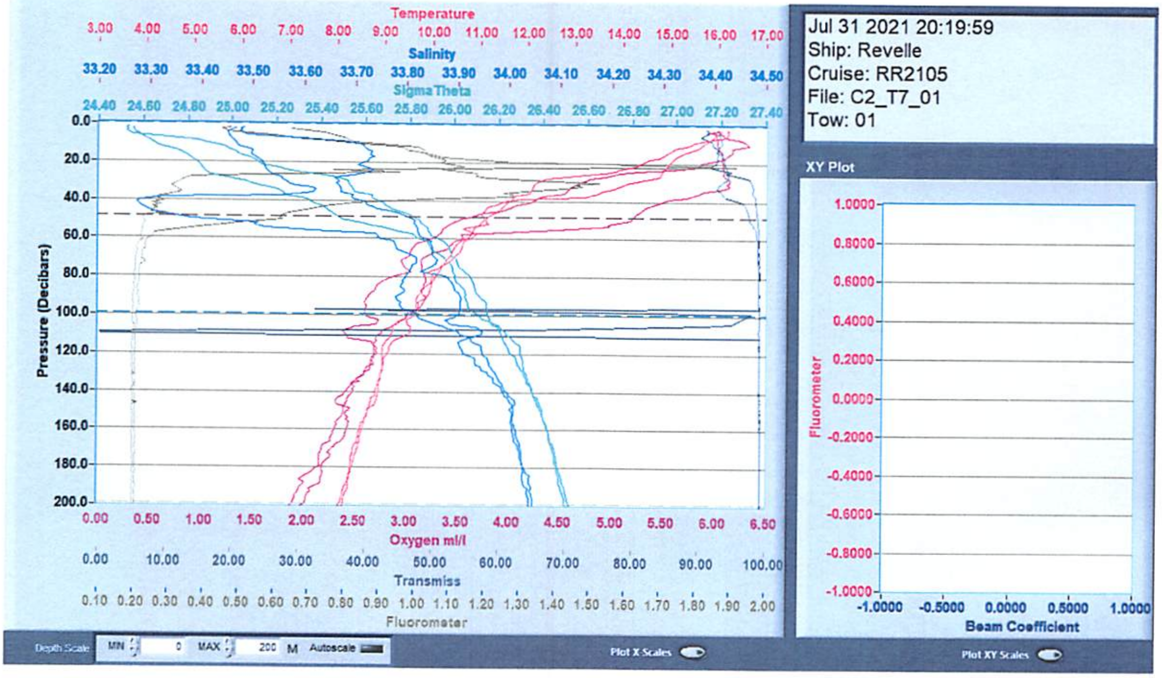
Surface Readings:
Pressure (m) 12.4
Temp (° C) 15.666
Salinity (‰) 33.735
O2 (ml/l) 6.092
Fluor. (V) 1.1
BeamC (/m) 0.303
CTD/M volts (V) 14.29
wire out (m) 27.1
Time (PDT) 1323

At Depth Readings:
Pressure (m) 1034.5
Temp (° C) 3.880
Salinity (‰) 34.466
O2 (ml/l) 0.469
Fluor. (V) 0.2
BeamC (/m) 0.027
CTD/M volts (V) 14.28
wire out (m) 2118.5
Time (PDT) 1514

Notes: at 80m FloCnt and NetSpeed finicky ~ 0.1 knots
137m Flometer and NetSpeed working ~ 1.6 knots
797m winch stopped

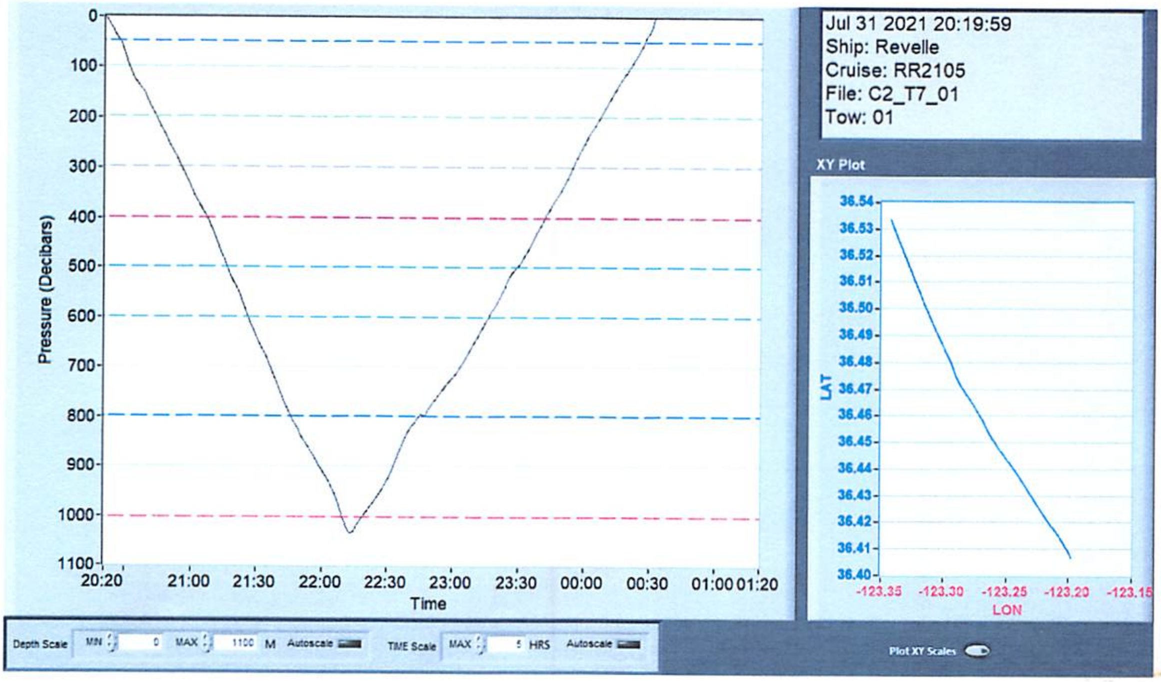
Strobe Parameters:
Time on/off 1515
Depths on 1022.3
Interval (ms) 1000
Pulse wdth (m) 40
Intensity (%) 50
Strobe volts (v) 18.7

~~0-1000~~
~~1000-800~~
~~800-600~~
~~600-500~~
~~500-400~~
~~400-300~~
~~300-200~~
~~200-100~~
100-50
50-0



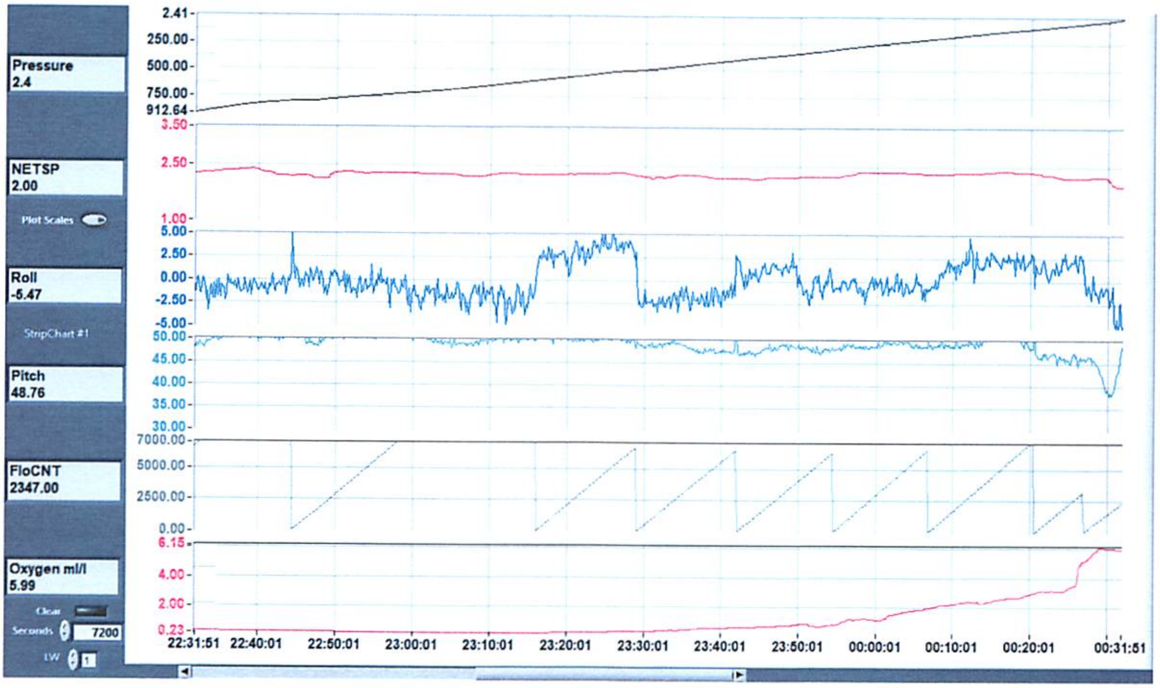
Jul 31 2021 20:19:59
Ship: Revelle
Cruise: RR2105
File: C2_T7_01
Tow: 01

Depth Scale MIN 0 MAX 200 M Autoscale



Jul 31 2021 20:19:59
Ship: Revelle
Cruise: RR2105
File: C2_T7_01
Tow: 01

Depth Scale MIN 0 MAX 1100 M Autoscale TIME Scale MAX 5 HRS Autoscale



Pressure 2.4

NETSP 2.00

Roll -5.47

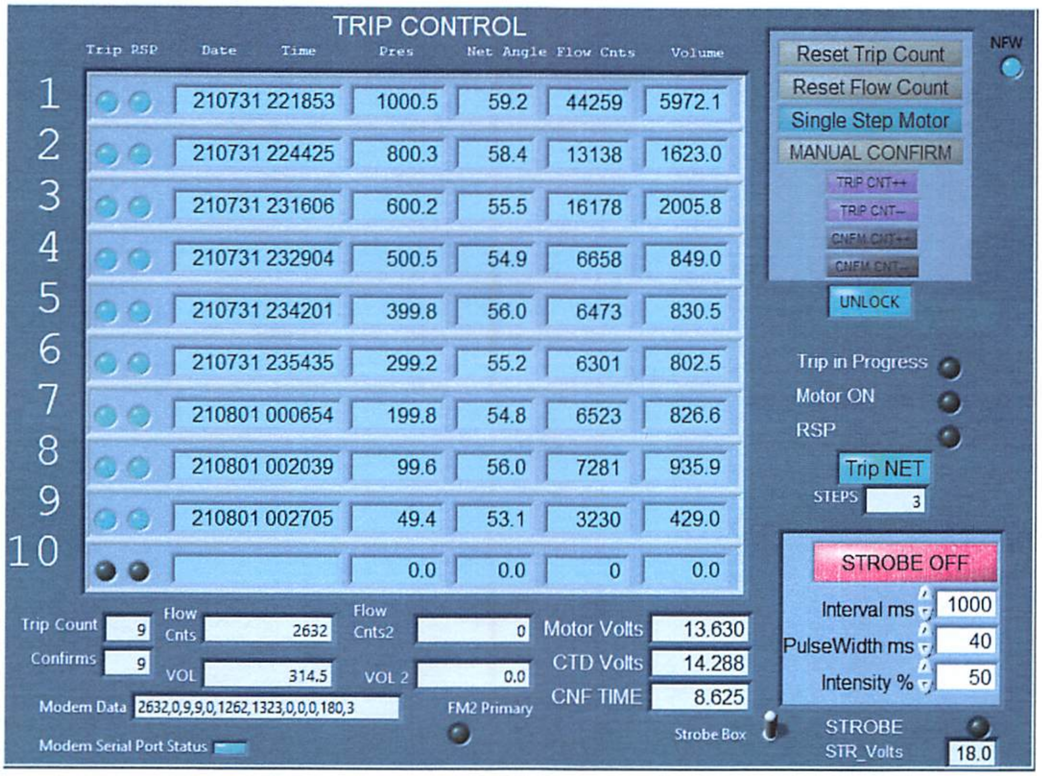
Pitch 48.76

FloCNT 2347.00

Oxygen ml/l 5.99

Seconds 7200

LW 1



TRIP CONTROL

	Trip	RSP	Date	Time	Pres	Net Angle	Flow Cnts	Volume
1	●	●	210731	221853	1000.5	59.2	44259	5972.1
2	●	●	210731	224425	800.3	58.4	13138	1623.0
3	●	●	210731	231606	600.2	55.5	16178	2005.8
4	●	●	210731	232904	500.5	54.9	6658	849.0
5	●	●	210731	234201	399.8	56.0	6473	830.5
6	●	●	210731	235435	299.2	55.2	6301	802.5
7	●	●	210801	000654	199.8	54.8	6523	826.6
8	●	●	210801	002039	99.6	56.0	7281	935.9
9	●	●	210801	002705	49.4	53.1	3230	429.0
10	○	○			0.0	0.0	0	0.0

Trip Count 9

Confirms 9

Flow Cnts 2632

VOL 314.5

Flow Cnts2 0

VOL 2 0.0

Motor Volts 13.630

CTD Volts 14.288

CNF TIME 8.625

Modem Data 2632,0,9,9,0,1262,1323,0,0,0,180,3

STEPS 3

Interval ms 1000

PulseWidth ms 40

Intensity % 50

STR_Volts 18.0

MOCNESS Data Sheet

Cruise P2107 Date 31 July 2021 Haul # 18 Cycle # 2 Tow # 8

Wind Speed 9.7 (kts.) Direction 202 (°) Sea State 2-4 (ft.)

File Name: Processed ______ Raw C2-T8-01.hex

Start Time 2139 (PDT) **End** Time 0151 (PDT)

Lat 36 25.417 Lat 36 31.987

Long 123 15.196 Long 123 25.157

Pre-deployment checks:

- ✓ Flow Meter
- ✓ Sliders
- ✓ Stepping Motor
- ___ Net Response
- ✓ Clean Optical Surfaces
- ✓ Transmissometer
- ✓ Fluorometer
- ✓ Oxygen Sensor
- ✓ Strobe

Event deploy # ______ Event rec. # ______

Frame Size 1 m^2

Net Mesh 202 µm

Bottom Depth 3471 (m) Console Operator SM

Net Tow Information

Net	Time Open	Angle	Flow Counts	Volume Filtered (m^3)	Max Depth (m)	Min Depth (m)	Split	Fixative	Split/Fixative	Net resp?
0	2139	59.6	44489	6040	1023	0	25%	5% Form.	25% size fxn 50% biomass	✓
1	2338	58.9	12889	1543.1	1001	799.7	↓	5% Form.	↓	✓
2	0002	59.8	13057	1507	799.7	601		5% Form.		✓
3	0026	54.7	8551	958	601	497		5% Form.		✓
4	0042	59.7	9718	1019	497	401		5% Form.		✓
5	0057	57.3	6563	811	401	301		5% Form.		✓
6	0110	57.7	7533	935	301	201		5% Form.		✓
7	0124	52	7244	996	201	100		5% Form.		✓
8	0139	53.6	2995	379	100	50		5% Form.		✓
9	0145		2938	437	50	0	↓	5% Form.	↓	
Closed	0151									

manual confirm

tripped on 2nd step

Surface Readings:

Pressure (m) 5.7

Temp (° C) 16.315

Salinity (‰) 33.488

O2 (ml/l) 6.011

Fluor. (V) 1.0

BeamC (/m) 0.325

CTD/M volts (V) 14.29/13.66

wire out (m) 5.5

Time (PDT) 2140

At Depth Readings:

Pressure (m) 1023

Temp (° C) 3.91

Salinity (‰) 34.46

2 (ml/l) 0.45

luor. (V) 0.2

BeamC (/m) 0.025

CTD/M volts (V) 14.3/13.81

wire out (m) 7108

Time (PDT) 2335

Notes: ______

Strobe Parameters:

Time on/off 2333

Depths on 1022

Interval (ms) 1000

Pulse wdth (m) 40

Intensity (%) 50

Strobe volts (v) 18.0

~~0-1000~~

~~1000-800~~

~~800-600~~

~~600-500~~

~~500-400~~

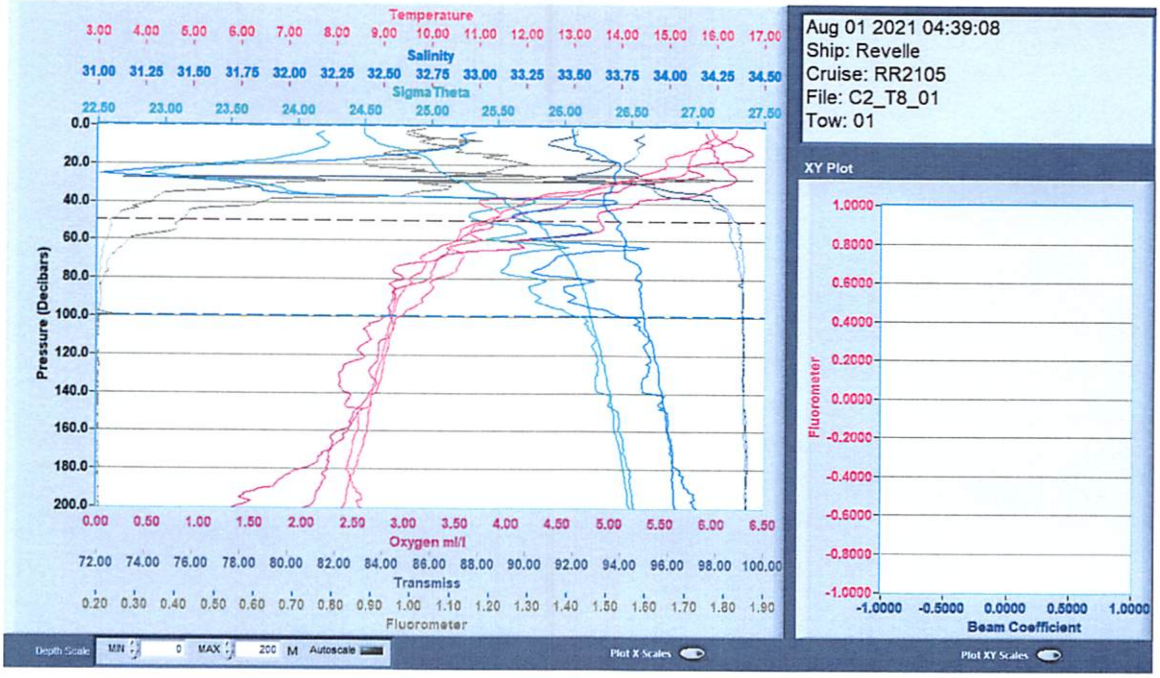
~~400-300~~

~~300-200~~

~~200-100~~

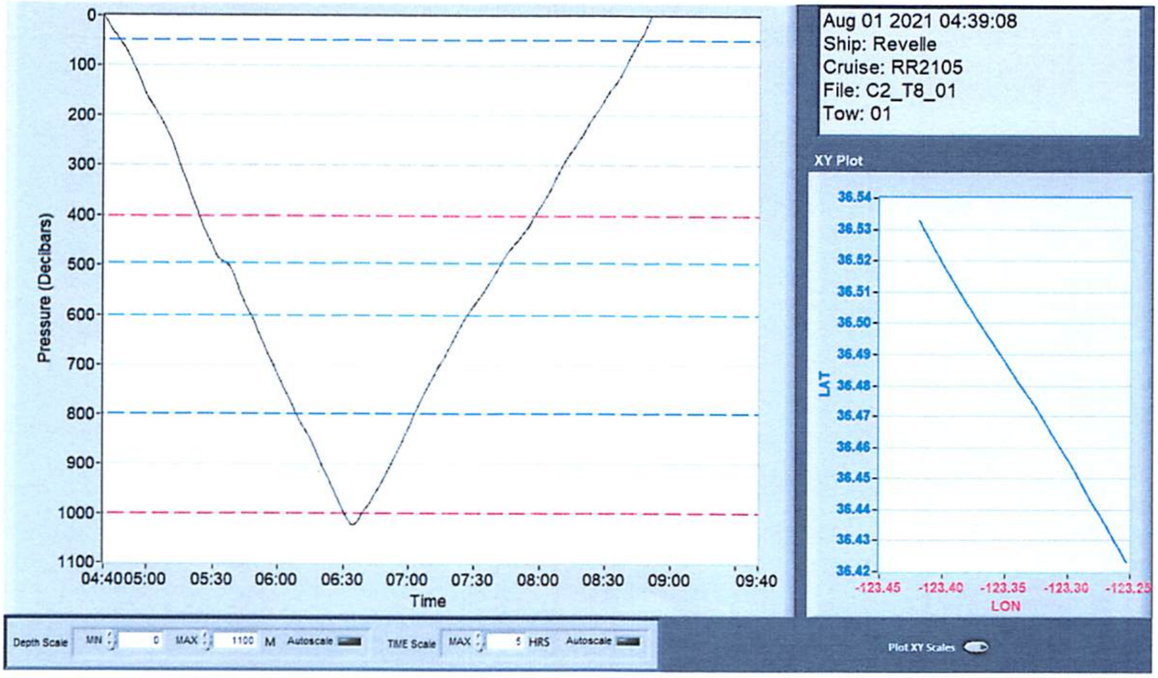
~~100-50~~

50-0



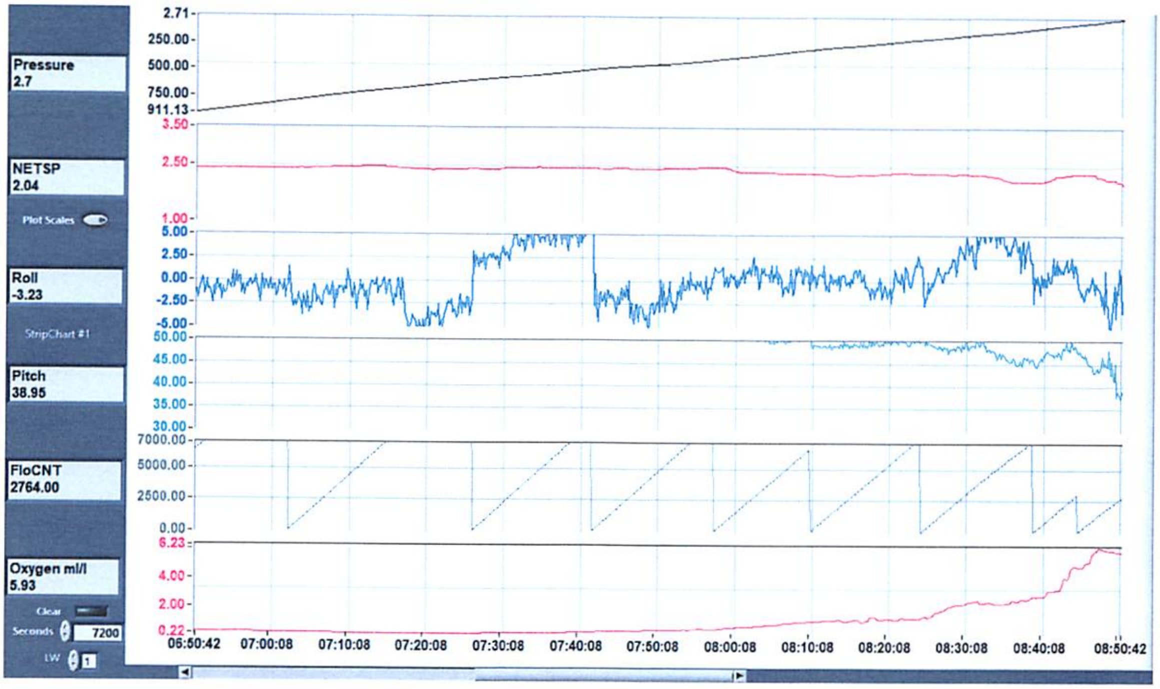
Aug 01 2021 04:39:08
Ship: Revelle
Cruise: RR2105
File: C2_T8_01
Tow: 01

Depth Scale MIN 0 MAX 200 M Autoscale



Aug 01 2021 04:39:08
Ship: Revelle
Cruise: RR2105
File: C2_T8_01
Tow: 01

Depth Scale MIN 0 MAX 1100 M Autoscale TIME Scale MAX 5 HRS Autoscale



Pressure 2.7

NETSP 2.04

Roll -3.23

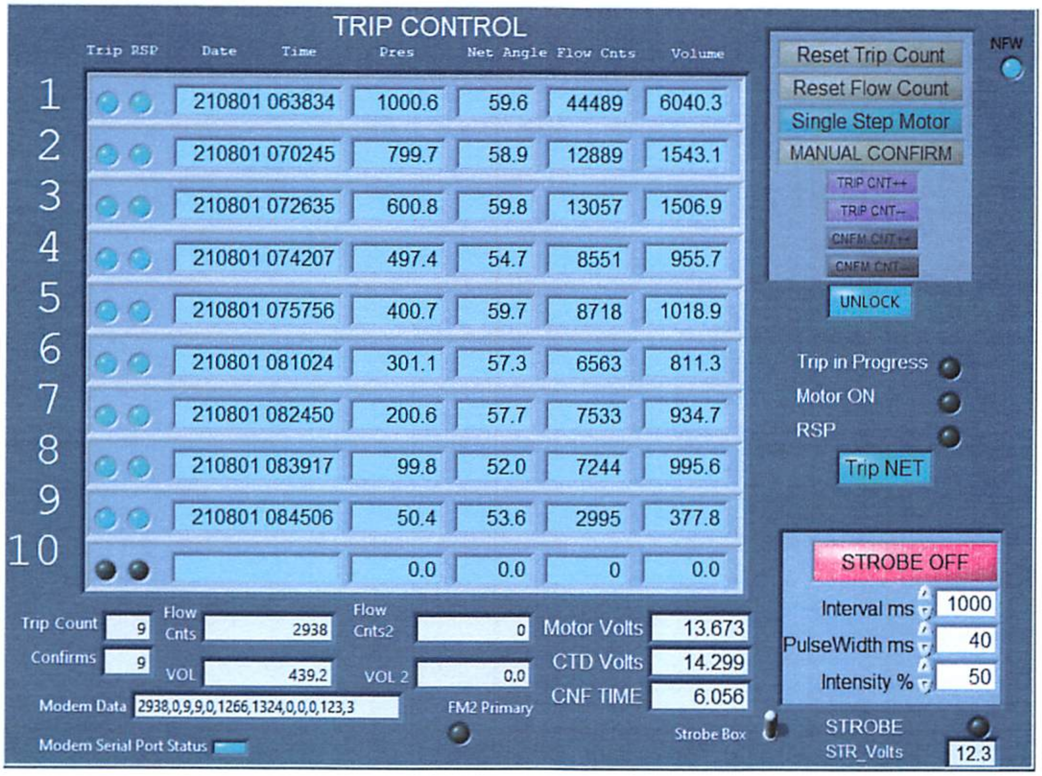
Pitch 38.95

FloCNT 2764.00

Oxygen ml/l 5.93

Seconds 7200

LW 1



	Trip	RSP	Date Time	Pres	Net Angle	Flow Cnts	Volume
1	●	●	210801 063834	1000.6	59.6	44489	6040.3
2	●	●	210801 070245	799.7	58.9	12889	1543.1
3	●	●	210801 072635	600.8	59.8	13057	1506.9
4	●	●	210801 074207	497.4	54.7	8551	955.7
5	●	●	210801 075756	400.7	59.7	8718	1018.9
6	●	●	210801 081024	301.1	57.3	6563	811.3
7	●	●	210801 082450	200.6	57.7	7533	934.7
8	●	●	210801 083917	99.8	52.0	7244	995.6
9	●	●	210801 084506	50.4	53.6	2995	377.8
10	●	●		0.0	0.0	0	0.0

Trip in Progress ●

Motor ON ●

RSP ●

Trip Count 9

Confirms 9

Flow Cnts 2938

VOL 439.2

Flow Cnts2 0

VOL 2 0.0

Motor Volts 13.673

CTD Volts 14.299

CNF TIME 6.056

Modem Data 2938,0,9,9,0,1266,1324,0,0,0,123,3

Interval ms 1000

PulseWidth ms 40

Intensity % 50

STROBE ●

STR_Volts 12.3

Nets changed prior

MOCNESS Data Sheet

Cruise P2107 Date 3August Haul # 19 Cycle # 3 Tow # 1

Wind Speed 7 (kts.) Direction 16 (°) Sea State 2 (ft.)

File Name: Processed ______ Raw C3-T1

Start Time 13:26 (PDT) **End** Time ______ (PDT)

Lat 34 40.949 Lat ______

Long 130 32.156 Long ______

Pre-deployment checks:
- ✓ Flow Meter
- ✓ Stepping Motor
- ✓ Net Response
- ✓ Clean Optical Surfaces
- ✓ Transmissometer
- NA Fluorometer
- ✓ Oxygen Sensor
- NA Strobe
- ✓ Sliders

Event deploy # ______ Event rec. # ______

Frame Size 1 m^2

Net Mesh 202 µm

Bottom Depth 5018 (m) Console Operator MD

Net Tow Information

Net	Time Open	Angle	Flow Counts	Volume Filtered (m^3)	Max Depth (m)	Min Depth (m)	Split	Fixative	Siz frac Split/~~Fixative~~ SF	Net resp?
0	13:26	54.1	24318	3291.6	477	0	1/2	5% Form.		✓
1	14:31	53.0	8253	1128.6	450.3	351.0		5% Form.		✓
2	14:47	50.5	2685	366.5	351.0	300		5% Form.		✓
3	14:52	53.5	2988	386.4	300.4	249.9		5% Form.		✓
4	14:59	50.2	2635	350.1	249.9	200.1		5% Form.		✓
5	15:05	52.0	2333	312.2	200.1	159.6		5% Form.		✓
6	15:10	54.9	3562	458.1	159.6	101.3		5% Form.		✓
7	15:17	52.5	3099	407.4	101.3	49.5		5% Form.		✓
8	15:24	50.5	1409	196.9	49.5	24.8		5% Form.		
9	15:27				24.8		↓	5% Form.		
Closed										

Surface Readings:
- Pressure (m) 0.8
- Temp (° C) 18.829
- Salinity (‰) 32.834
- O2 (ml/l) 5.362
- Fluor. (V) 0.2
- BeamC (/m) 0.169
- CTD/M volts (V) 13.62
- wire out (m) 6.6
- Time (PDT) 13:26

At Depth Readings:
- Pressure (m) 477.1
- Temp (° C) 5.693
- Salinity (‰) 34.064
- O2 (ml/l) 1.098
- luor. (V) 0.2
- amC (/m) 0.022
- TD/M volts (V) 13.78
- wire out (m) 931
- Time (PDT) 14:28

Notes: Prior to this cycle, All nets were removed from frame, soaked overnight in DAWN & water, and scrubbed.
After, they were put in ~10% vinegar: water & soaked overnight, rinsed in freshwater, mended & put back on.

CPA @ 440 m

1426 ship slow down, reason for profile

Strobe Parameters:
- Time on/off
- Depths on
- Interval (ms)
- Pulse wdth (m)
- Intensity (%)
- Strobe volts (v)

~~0-450~~
~~450-350~~
~~350-300~~
~~300-250~~
~~250-200~~
~~200-150~~
~~150-100~~
100-50
50-25
25-0

MOCNESS Data Sheet

Cruise P2107 Date 3 August 2021 - 4 August 2021 Haul # 28 Cycle # 3 Tow # 2

Wind Speed 12 (kts.) Direction 352 (°) Sea State (ft.)

File Name: Processed C3-T2-01 Raw

Start Time 22:52 (PDT) **End** Time 00:40 (PDT)

Lat 34 39.937 Lat 34 43.637N

Long 130 32.203W Long 130 32.356W

Pre-deployment checks:
- ✓ Flow Meter
- ✓ Sliders
- ✓ Stepping Motor
- ✓ Net Response
- ✓ Clean Optical Surfaces
- ✓ Transmissometer
- — Fluorometer
- ✓ Oxygen Sensor
- OFF Strobe

Event deploy # Event rec. #

Frame Size 1 m^2

Net Mesh 202 µm

Bottom Depth 5007 (m) Console Operator Dante "Yung [illegible]"

Net Tow Information

Net	Time Open	Angle	Flow Counts	Volume Filtered (m^3)	Max Depth (m)	Min Depth (m)	Split	Fixative	Split/Fixative	Net resp?
0	22:52	53.0	20541	2917.8	466	0	50%	5% Form.	50% SF	✓
1	23:47	53.7	5461	733.6	450.6	349.7	↓	5% Form.	↓	✓
2	23:59	51.3	2775	372.6	349.7	300.5		5% Form.		✓
3	00:05	51.0	2828	383.3	300.5	250.0		5% Form.		✓
4	00:11	54.1	2468	332	250.0	200		5% Form.		✓
5	0016	44.1	3677	524.5	200	152		5% Form.		✓
6	0024	42.3	2449	359.2	152	99.1		5% Form.		✓
7	0030	48.3	2109	300.9	99.1	49.9		5% Form.		✓
8	0035	48.8	1116	149.5	49.9	24.5		5% Form.		✓
9	0037						↓	5% Form.	↓	
Closed										

Surface Readings:
Pressure (m) 2.8
Temp (° C) 18.892
Salinity (‰) 32.682
O2 (ml/l) 5.370
Fluor. (V) 0.2
BeamC (/m) 0.061
CTD/M volts (V) 13.64
wire out (m) -16
Time (PDT) 22:52

At Depth Readings:
Pressure (m) 432.2
Temp (° C) 6.107
Salinity (‰) 34.050
O2 (ml/l) 1.241
Fluor. (V) 0.2
BeamC (/m) 0.023
CTD/M volts (V) 14.29
wire out (m) 745
Time (PDT) 23:51

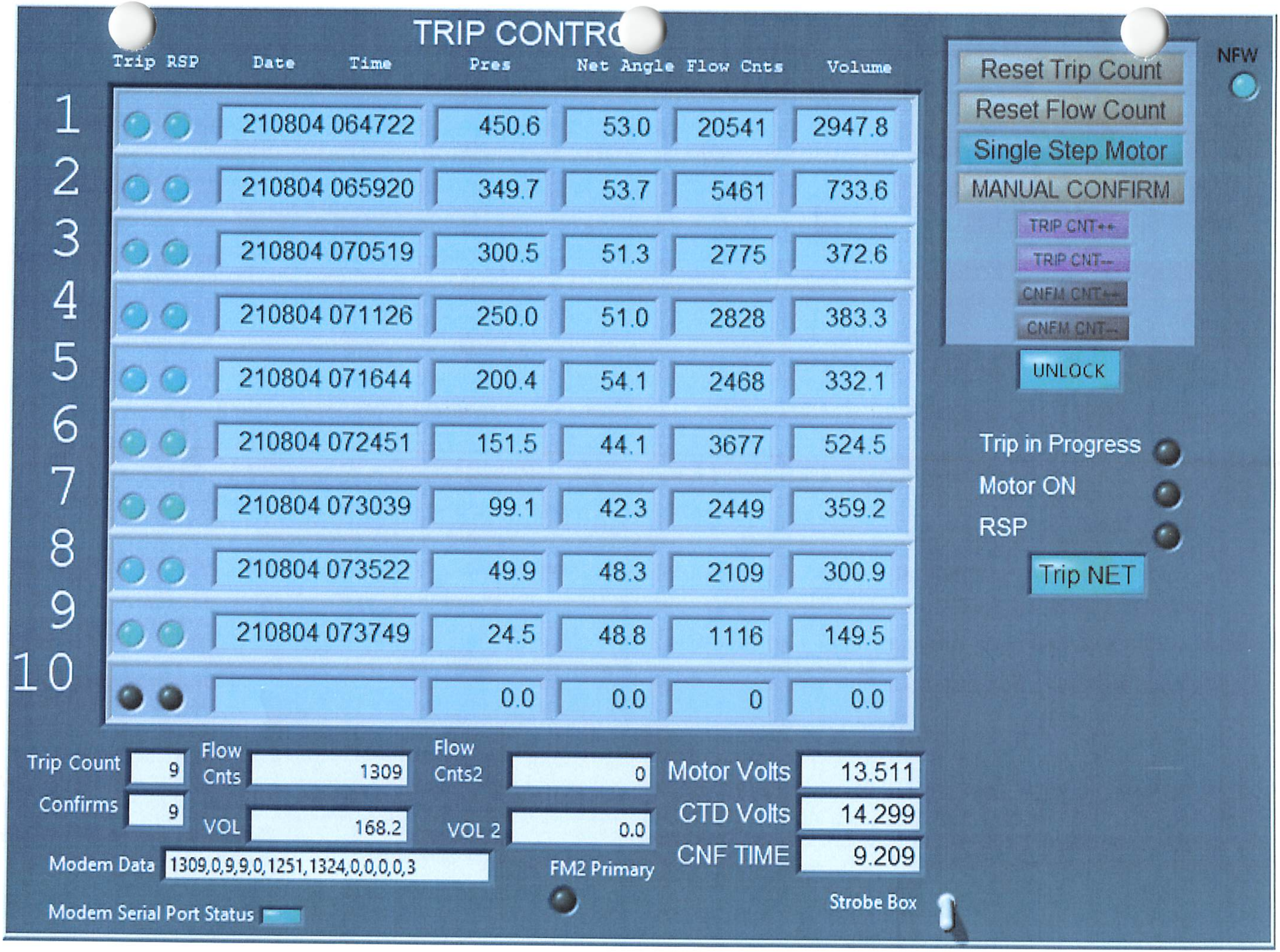
Notes: on deck check for net trip, MOTOR ON light only lit up once, for a longer period. Net tripped OK.

Accidentally had to restart software upon deployment

Prior to deployment saw thousands of pyrosomes surrounding us

0-450
450-350
350-300
300-250
250-200
200-150
150-100
100-50
50-25
25-0

Strobe Parameters: OFF
Time on/off
Depths on
Interval (ms)
Pulse wdth (m)
Intensity (%)
Strobe volts (v)



	Trip	RSP	Date	Time	Pres	Net Angle	Flow Cnts	Volume
1	●	●	210804	064722	450.6	53.0	20541	2947.8
2	●	●	210804	065920	349.7	53.7	5461	733.6
3	●	●	210804	070519	300.5	51.3	2775	372.6
4	●	●	210804	071126	250.0	51.0	2828	383.3
5	●	●	210804	071644	200.4	54.1	2468	332.1
6	●	●	210804	072451	151.5	44.1	3677	524.5
7	●	●	210804	073039	99.1	42.3	2449	359.2
8	●	●	210804	073522	49.9	48.3	2109	300.9
9	●	●	210804	073749	24.5	48.8	1116	149.5
10	○	○			0.0	0.0	0	0.0

Trip Count 9

Confirms 9

Flow Cnts 1309

VOL 168.2

Flow Cnts2 0

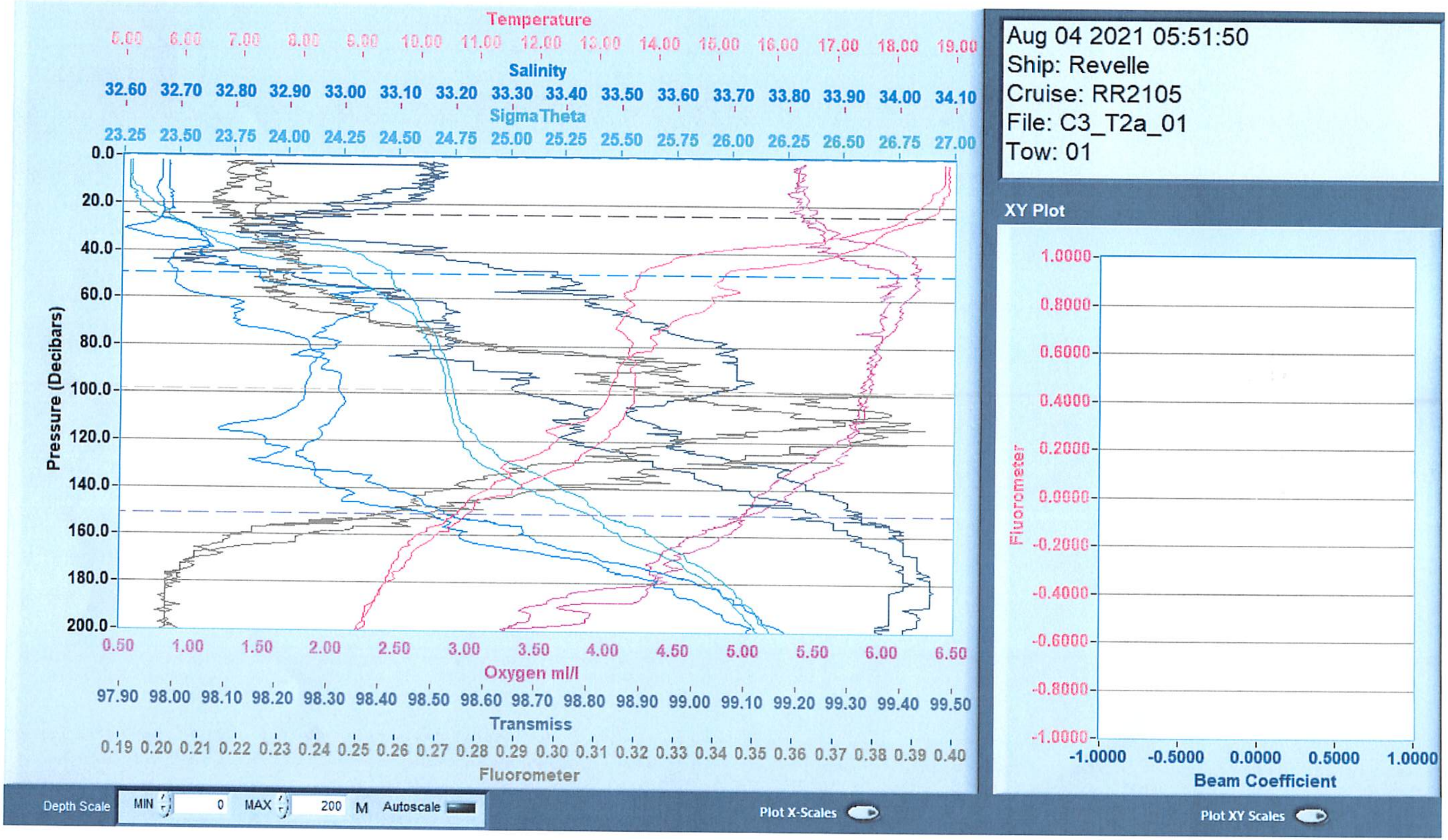
VOL 2 0.0

Motor Volts 13.511

CTD Volts 14.299

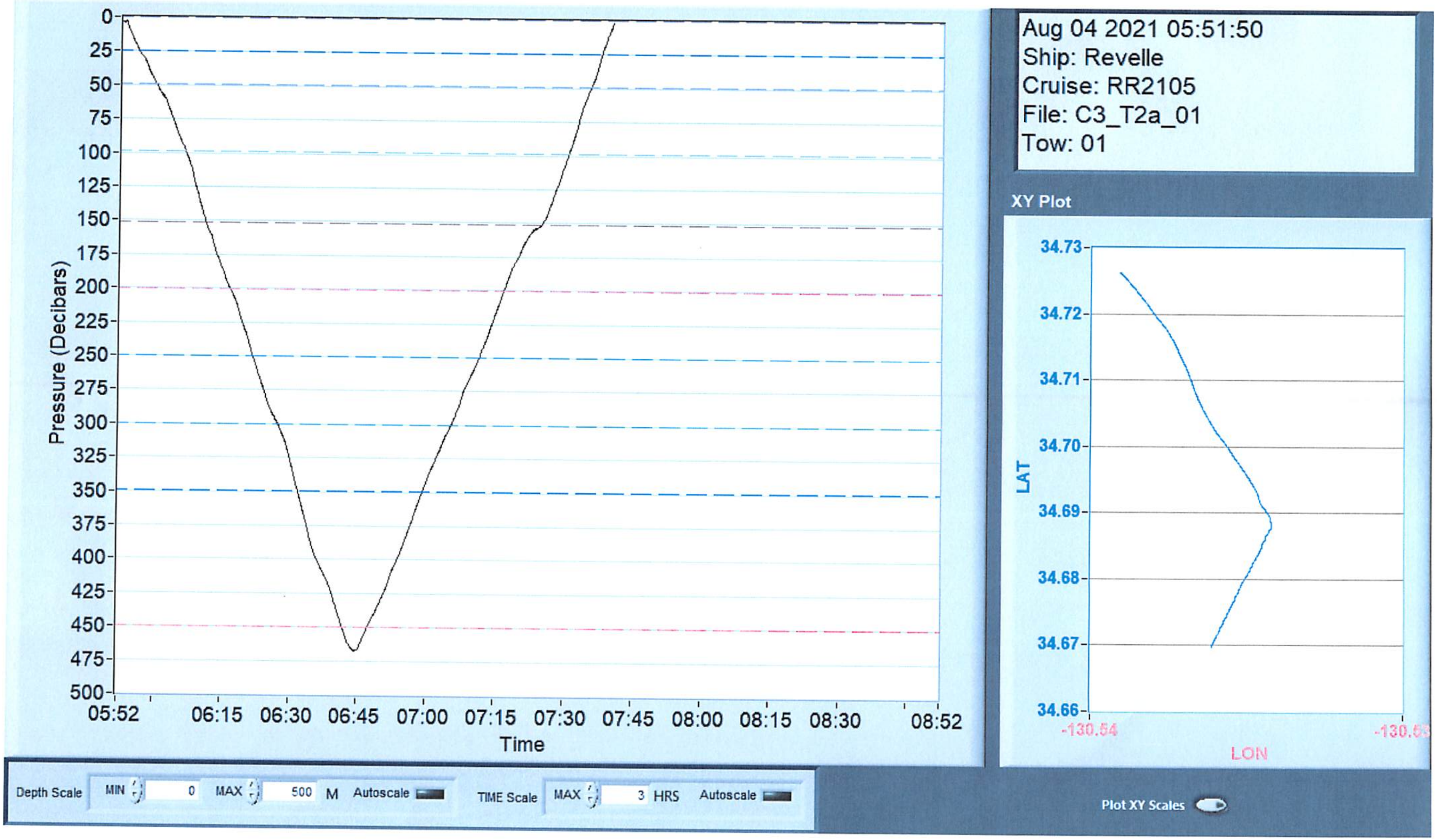
CNF TIME 9.209

Modem Data 1309,0,9,9,0,1251,1324,0,0,0,0,3



Aug 04 2021 05:51:50
Ship: Revelle
Cruise: RR2105
File: C3_T2a_01
Tow: 01

Depth Scale MIN 0 MAX 200 M Autoscale

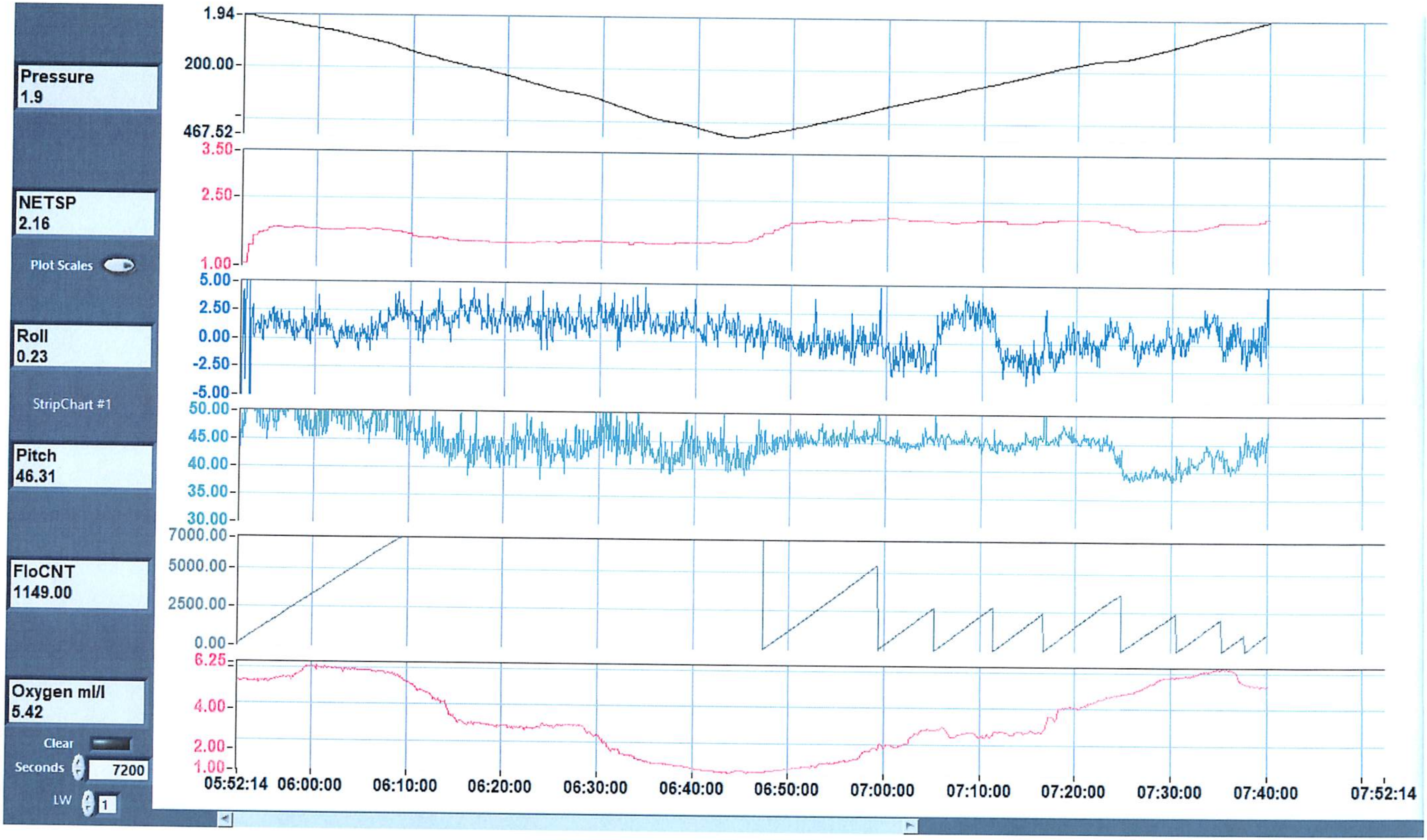


Aug 04 2021 05:51:50
Ship: Revelle
Cruise: RR2105
File: C3_T2a_01
Tow: 01

Depth Scale MIN 0 MAX 500 M Autoscale

TIME Scale MAX 3 HRS Autoscale

Plot XY Scales



Pressure 1.9

NETSP 2.16

Roll 0.23

Pitch 46.31

FloCNT 1149.00

Oxygen ml/l 5.42

Seconds 7200

LW 1

MOCNESS Data Sheet

Cruise P2107 Date 4 Aug 2021 Haul # 21 Cycle # 3 Tow # 3

Wind Speed 12 (kts.) Direction 341 (°) Sea State 2 (ft.)

File Name: Processed C3_T3_01 Raw

Start Time 1317 (PDT) **End** Time 1458 (PDT)

Lat 34 36.086N Lat 34 39.363N

Long 130 31.319W Long 130 31.686W

Pre-deployment checks:
- ✓ Flow Meter
- ✓ Sliders
- ✓ Stepping Motor
- ✓ Net Response
- ✓ Clean Optical Surfaces
- ✓ Transmissometer
- ✓ Fluorometer
- ✓ Oxygen Sensor
- off Strobe

Event deploy # Event rec. #

Frame Size 1 m^2

Net Mesh 202 µm

Bottom Depth 4379 (m) Console Operator Anya

Net Tow Information

Net	Time Open	Angle	Flow Counts	Volume Filtered (m^3)	Max Depth (m)	Min Depth (m)	Split	Fixative	Split/Fixative	Net resp?
0	1317	46.6	17686	2658.2	481.4	0		5% Form.		
1	1408	49.8	4277	603.2	448.7	350.3		5% Form.		
2	1418	48.7	2290	315.9	350.3	300.1		5% Form.		
3	1425	50.2	2554	361.9	300.1	250.2		5% Form.		
4	1429	43.3	2409	355.5	250.2	200.2		5% Form.		
5	1434	45.6	2114	313.4	200.2	149.6		5% Form.		
6	1439	49.7	2250	313.6	149.6	99.9		5% Form.		
7	1444	50.1	2549	348.2	99.9	50.4		5% Form.		
8	1450	45.6	1163	158.0	50.4	25.8		5% Form.		
9	1452				25.8	0		5% Form.		
Closed	1454									

Surface Readings:

Pressure (m)	1.3
Temp (° C)	18.895
Salinity (‰)	33.307
O2 (ml/l)	5.375
Fluor. (V)	0.2
BeamC (/m)	0.058
CTD/M volts (V)	14.29
wire out (m)	8.6
Time (PDT)	1318

At Depth Readings:

Pressure (m)	481.4
Temp (° C)	5.720
Salinity (‰)	34.070
O2 (ml/l)	1.037
Fluor. (V)	0.2
BeamC (/m)	0.022
CTD/M volts (V)	14.27
wire out (m)	753.3
Time (PDT)	1405

Notes: CPA 155

Strobe Parameters:

Time on/off

Depths on

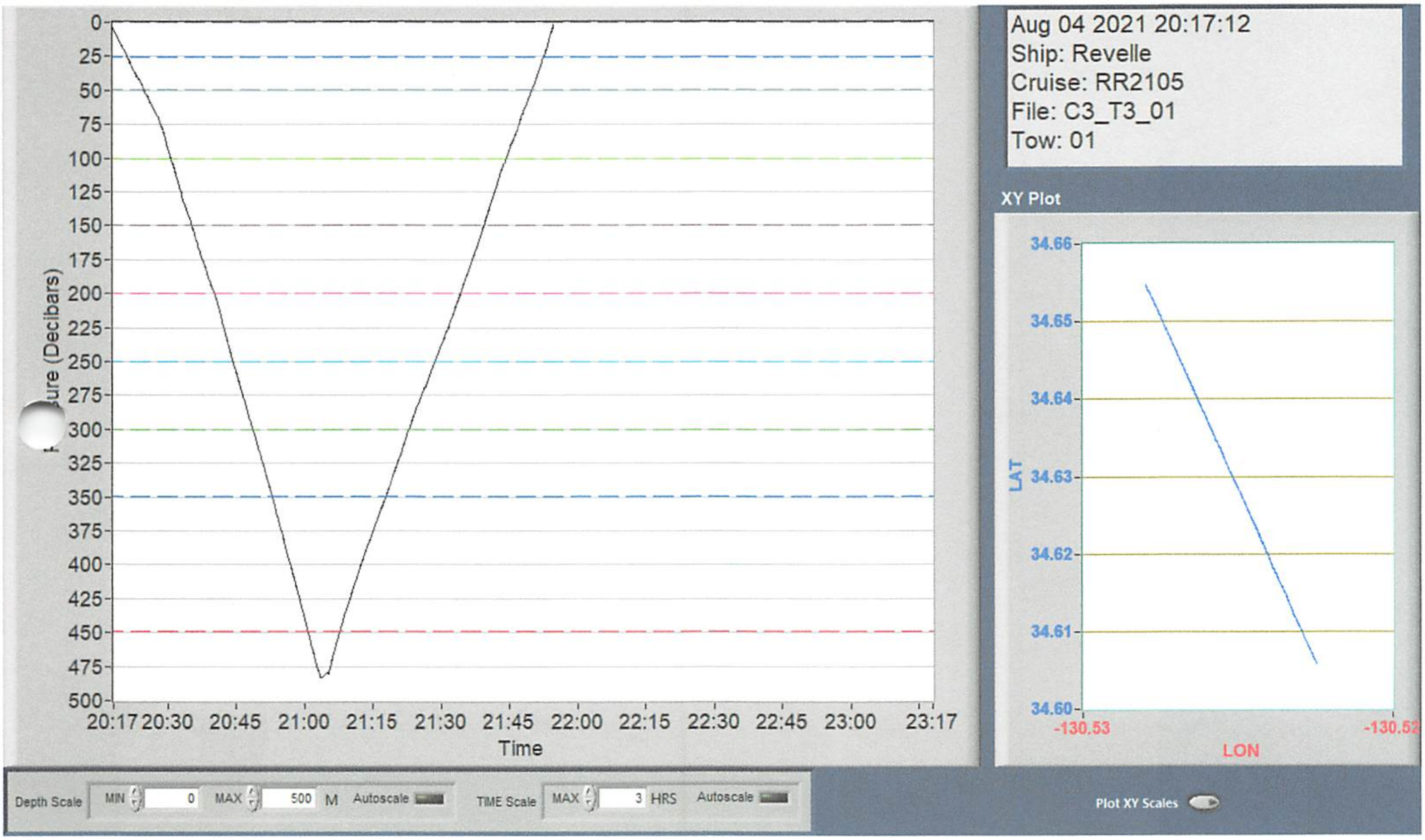
Interval (ms)

Pulse wdth (m)

Intensity (%)

Strobe volts (v)

~~0-450~~
~~450-350~~
~~350-300~~
~~300-250~~
~~250-200~~
~~200-150~~
~~150-100~~
~~100-50~~
50-25
25-0

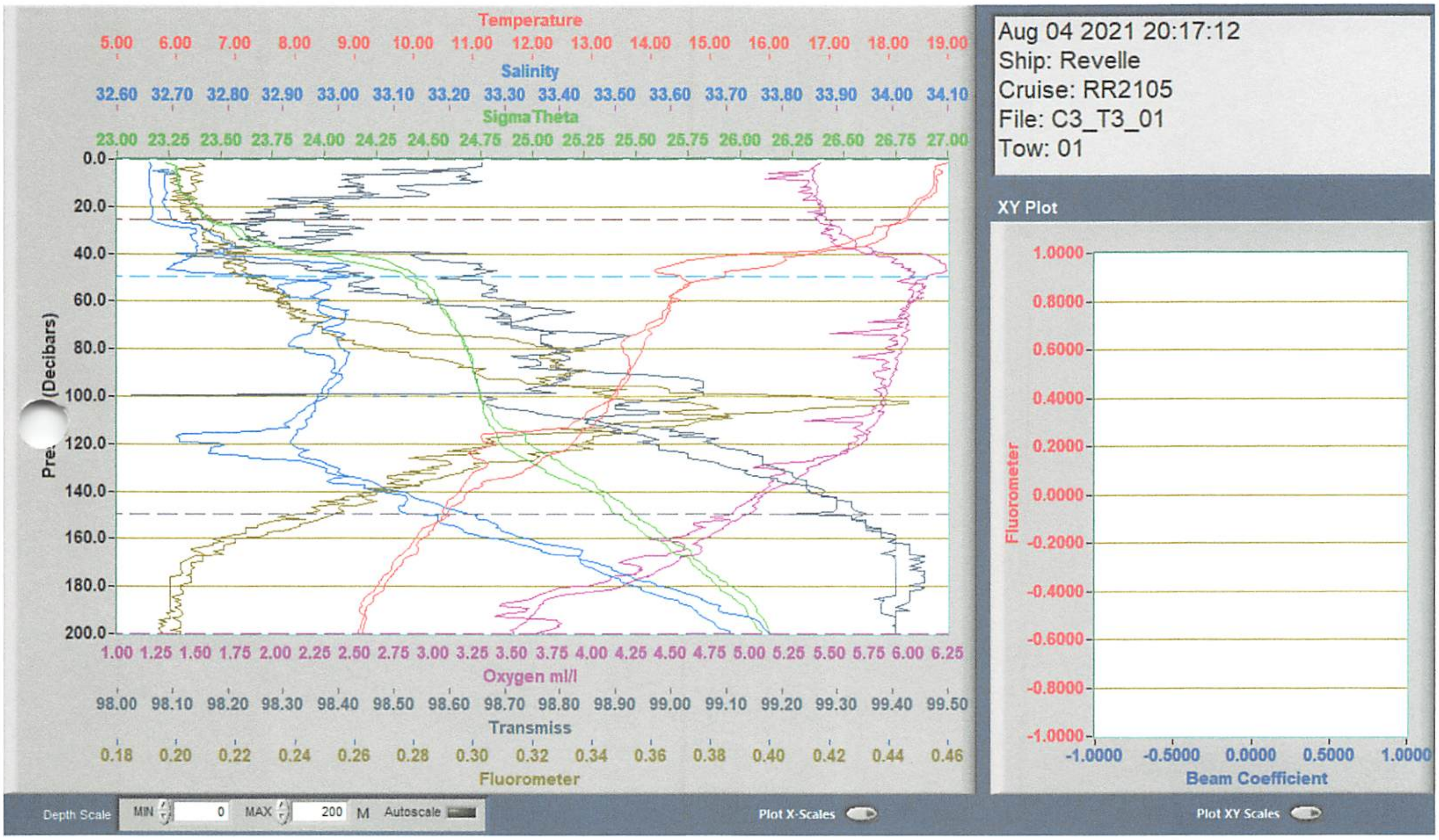


Aug 04 2021 20:17:12
Ship: Revelle
Cruise: RR2105
File: C3_T3_01
Tow: 01

Depth Scale MIN 0 MAX 500 M Autoscale

TIME Scale MAX 3 HRS Autoscale

Plot XY Scales



Aug 04 2021 20:17:12
Ship: Revelle
Cruise: RR2105
File: C3_T3_01
Tow: 01

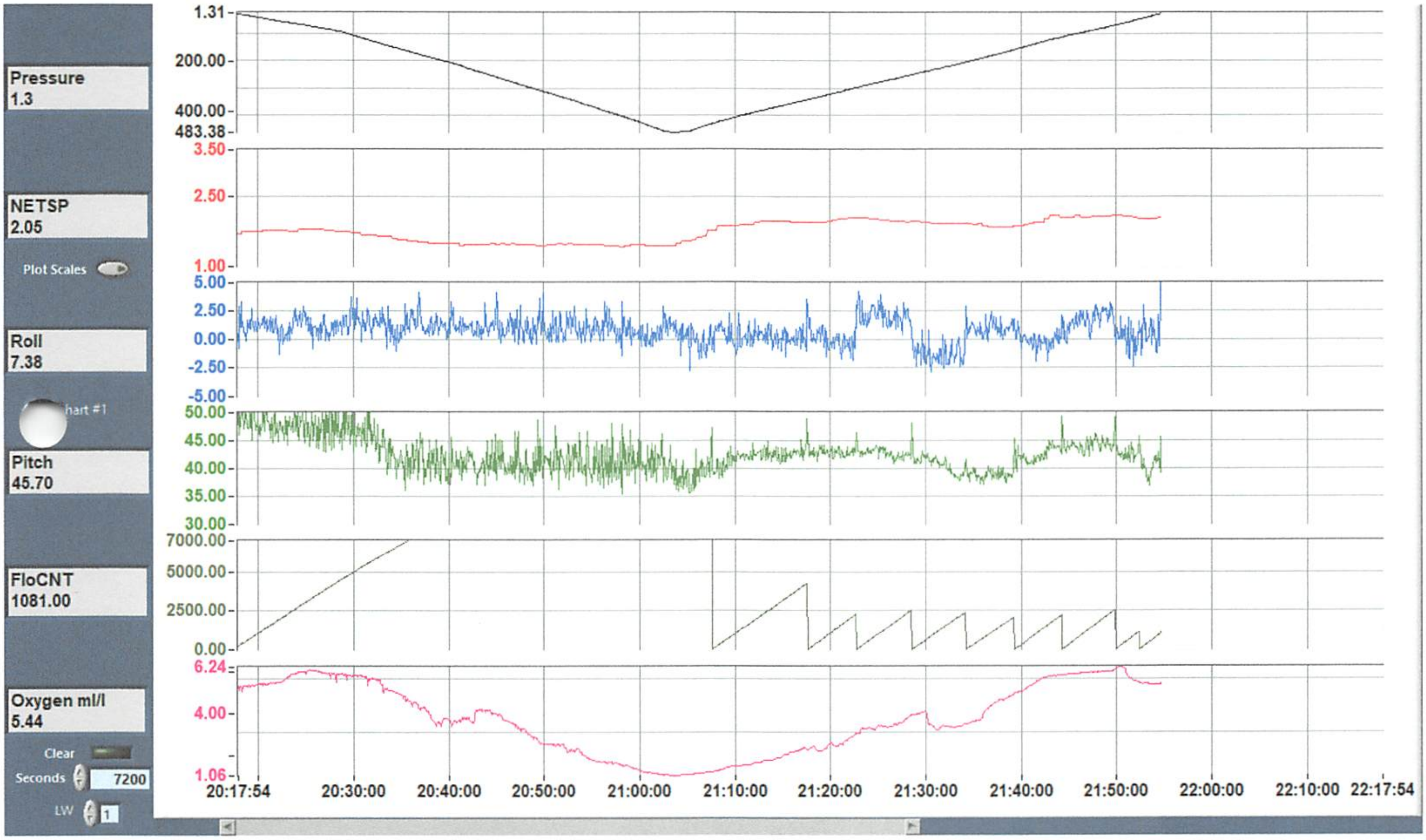
Depth Scale MIN 0 MAX 200 M Autoscale

TRIP CONTROL

	Trip	RSP	Date	Time	Pres	Net Angle	Flow Cnts	Volume
1	●	●	210804	210738	448.7	46.6	17686	2658.2
2	●	●	210804	211740	350.3	49.8	4277	603.2
3	●	●	210804	212246	300.1	48.7	2290	315.9
4	●	●	210804	212838	250.2	50.2	2554	361.9
5	●	●	210804	213418	200.2	43.3	2409	355.5
6	●	●	210804	213922	149.6	45.6	2114	313.4
7	●	●	210804	214423	99.9	49.7	2250	313.6
8	●	●	210804	214955	50.4	50.1	2549	348.2
9	●	●	210804	215229	25.8	45.6	1163	158.0
10	●	●			0.0	0.0	0	0.0

STEPS 3

Trip Count 9
Confirms 9
Flow Cnts 1224
VOL 162.6
Flow Cnts2 0
VOL 2 0.0
Motor Volts 13.532
CTD Volts 14.299
CNF TIME 11.625
Modem Data 1224,0,9,9,0,1253,1324,0,0,0,0,3
FM2 Primary ●
Modem Serial Port Status 🟩



Pressure
1.3

NETSP
2.05

Roll
7.38

Pitch
45.70

FloCNT
1081.00

Oxygen ml/l
5.44

Seconds 7200

LW 1

MOCNESS Data Sheet

Cruise P2107 Date 4 Aug Haul # 22 Cycle # 3 Tow # 4

Wind Speed 17 (kts.) Direction 355 (°) Sea State 1-2 (ft.)

File Name: Processed C3-T4a-01 Raw ______

Start Time 2233 (PDT) **End** Time 0017 (PDT)

Lat 34 35.551N Lat 34 39.066

Long 130 30.264W Long 130 31.010 W

Pre-deployment checks:
- ✓ Flow Meter
- ✓ Sliders
- ✓ Stepping Motor
- ✓ Net Response
- ✓ Clean Optical Surfaces
- ✓ Transmissometer
- — Fluorometer
- ✓ Oxygen Sensor
- OFF Strobe

Event deploy # ______ Event rec. # ______

Frame Size 1 m^2

Net Mesh 202 µm

Bottom Depth 4712 (m) Console Operator Dante

Net Tow Information

Net	Time Open	Angle	Flow Counts	Volume Filtered (m^3)	Max Depth (m)	Min Depth (m)	Split	Fixative	Split/Fixative	Net resp?
0	22:32	50.9	18513	2625.2	469	0	50%	5% Form.	50% 95% eth	✓
1	23:22	54.4	5781	743	450.7	350		5% Form.		✓
2	2334	48.7	3172	426	350	300		5% Form.		✓
3	2341	50.5	2846	385	300	250		5% Form.		✓
4	2347	52.8	2989	407.3	250	199.5		5% Form.		✓
5	23:53	51.9	2721	365.2	199.5	149		5% Form.		✓
6	23:59	53.0	2789	360.6	149.9	100.4		5% Form.		✓
7	0005	56	3184	410.7	100.4	50.1		5% Form.		
8	~0010?	53.8	1482	190.8	50.1	24.6		5% Form.		
9	0014						↓	5% Form.	↓	
Closed										

Surface Readings:
Pressure (m) 1.6
Temp (° C) 19.052
Salinity (‰) 32.683
O2 (ml/l) 5.378
Fluor. (V) 0.2
BeamC (/m) 0.064
CTD/M volts (V) 14.31
wire out (m) 16.6
Time (PDT) 22:33

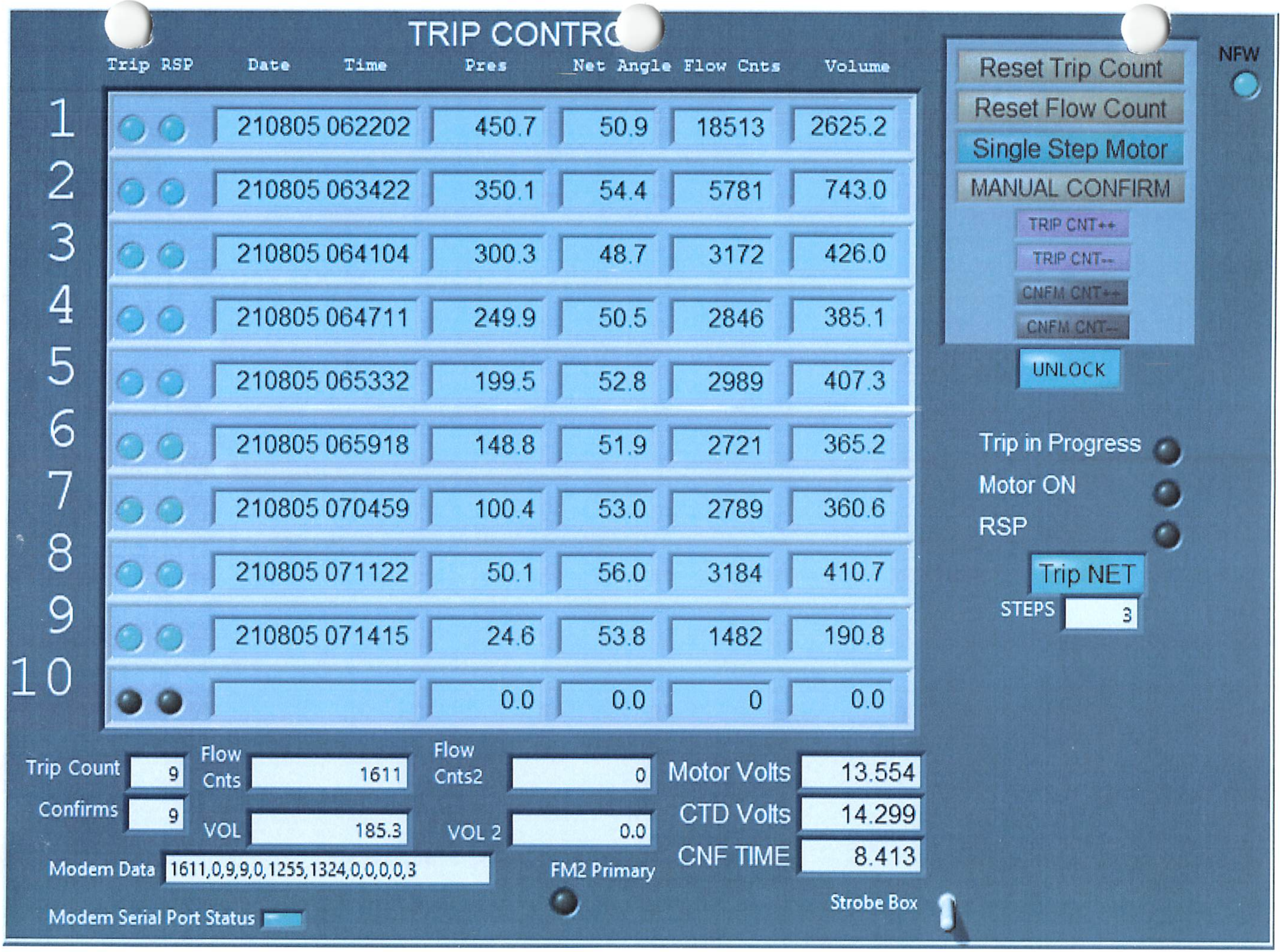
At Depth Readings:
Pressure (m) 469.5
Temp (° C) 5.730
Salinity (‰) 34.072
O2 (ml/l) 1.070
Fluor. (V) 0.2
BeamC (/m) 0.073
CTD/M volts (V) 13.81/14.25
wire out (m) 847.3
Time (PDT) 23.19

Notes: Had to restart w/new file since CTD wasn't reading

*Accidentally missed time dripping Net 8

~~0-450~~
~~450-350~~
~~350-300~~
300-250
250-200
200-150
150-100
100-50
50-25
25-0

Strobe Parameters: OFF
Time on/off
Depths on
Interval (ms)
Pulse wdth (m)
Intensity (%)
Strobe volts (v)



	Trip	RSP	Date	Time	Pres	Net Angle	Flow Cnts	Volume
1	●	●	210805	062202	450.7	50.9	18513	2625.2
2	●	●	210805	063422	350.1	54.4	5781	743.0
3	●	●	210805	064104	300.3	48.7	3172	426.0
4	●	●	210805	064711	249.9	50.5	2846	385.1
5	●	●	210805	065332	199.5	52.8	2989	407.3
6	●	●	210805	065918	148.8	51.9	2721	365.2
7	●	●	210805	070459	100.4	53.0	2789	360.6
8	●	●	210805	071122	50.1	56.0	3184	410.7
9	●	●	210805	071415	24.6	53.8	1482	190.8
10	○	○			0.0	0.0	0	0.0

Trip in Progress ○

Motor ON ○

RSP ○

STEPS 3

Trip Count 9

Confirms 9

Flow Cnts 1611

VOL 185.3

Flow Cnts2 0

VOL 2 0.0

Motor Volts 13.554

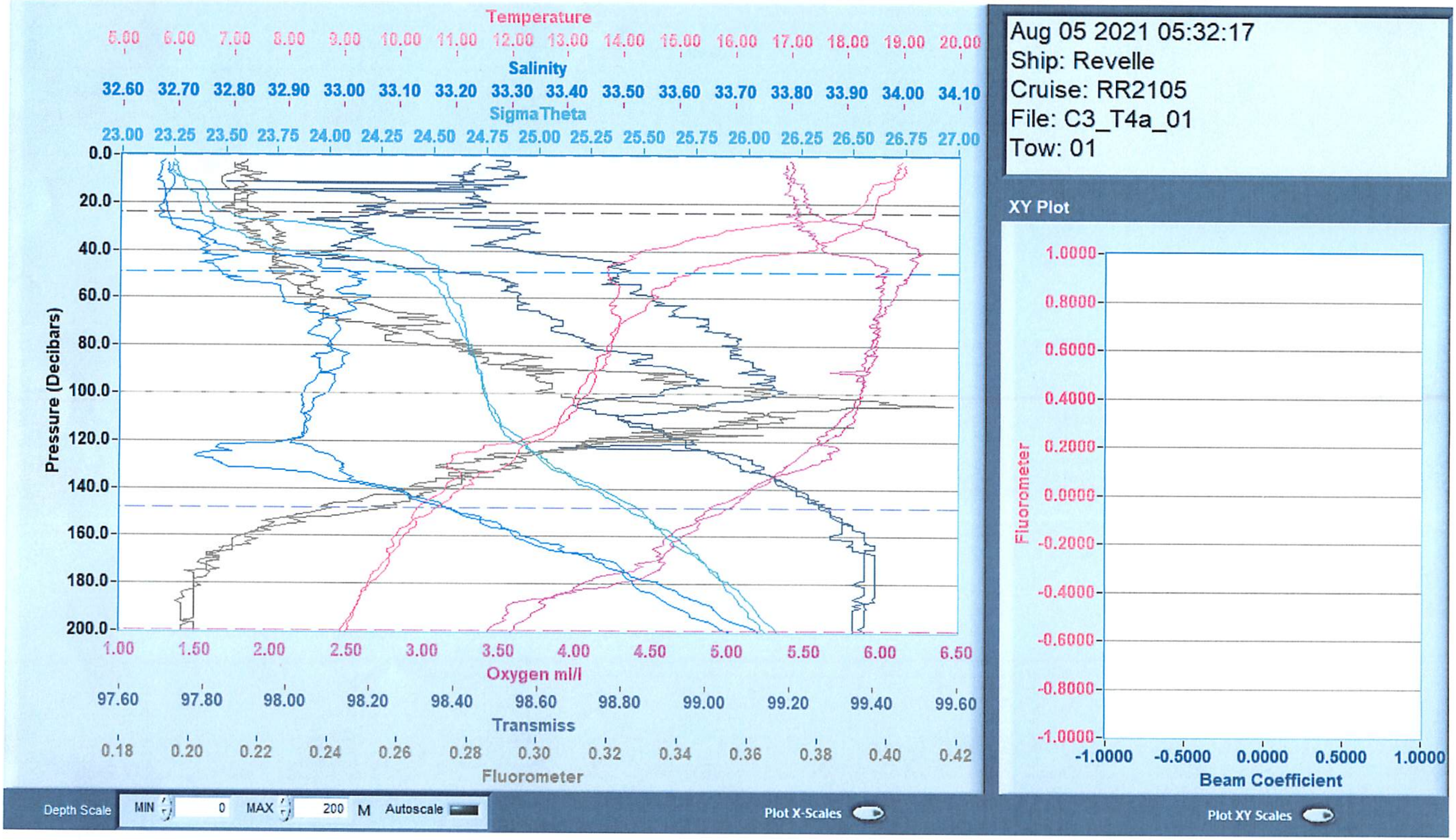
CTD Volts 14.299

CNF TIME 8.413

Modem Data 1611,0,9,9,0,1255,1324,0,0,0,0,3

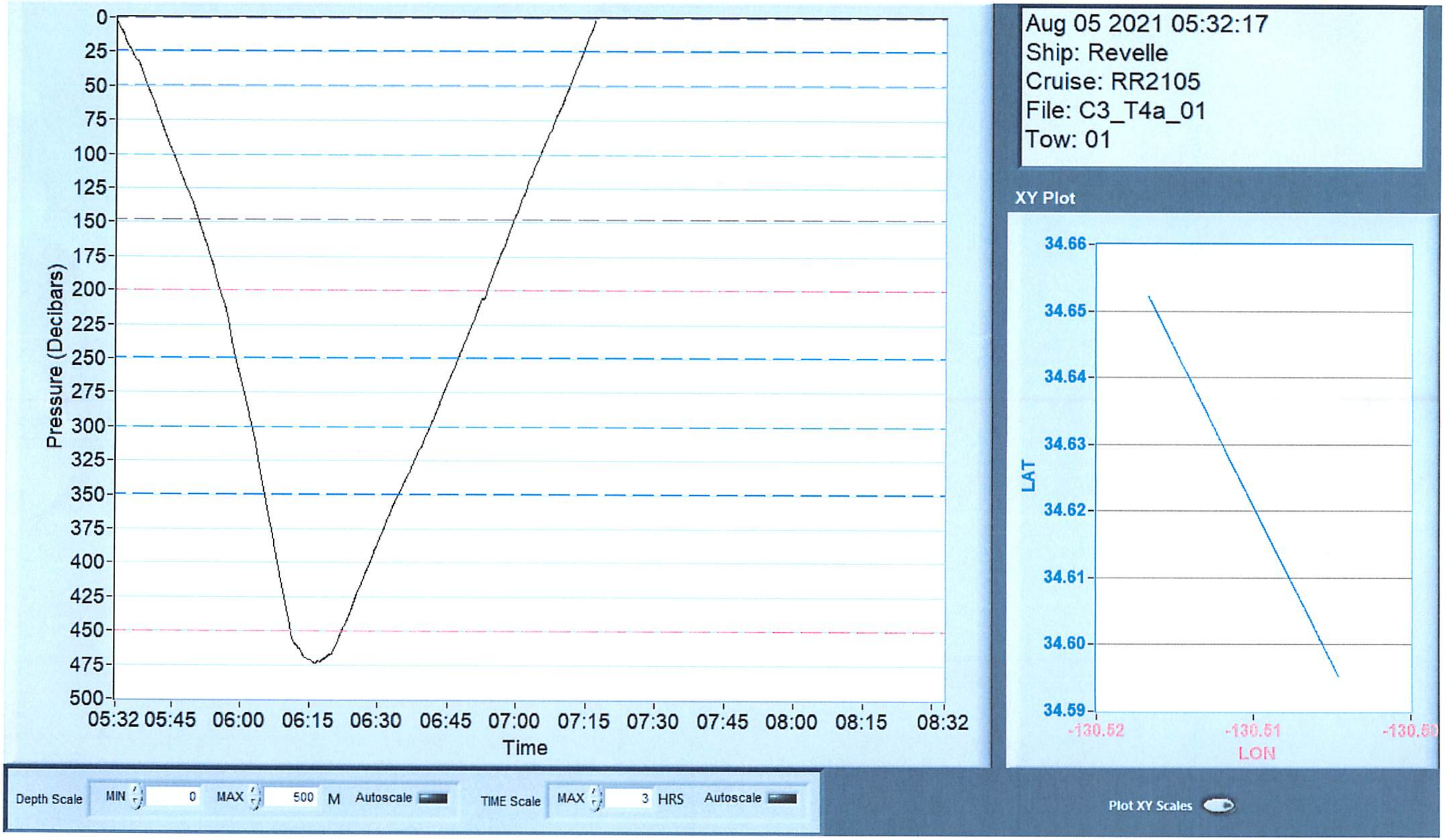
FM2 Primary ○

Modem Serial Port Status



Aug 05 2021 05:32:17
Ship: Revelle
Cruise: RR2105
File: C3_T4a_01
Tow: 01

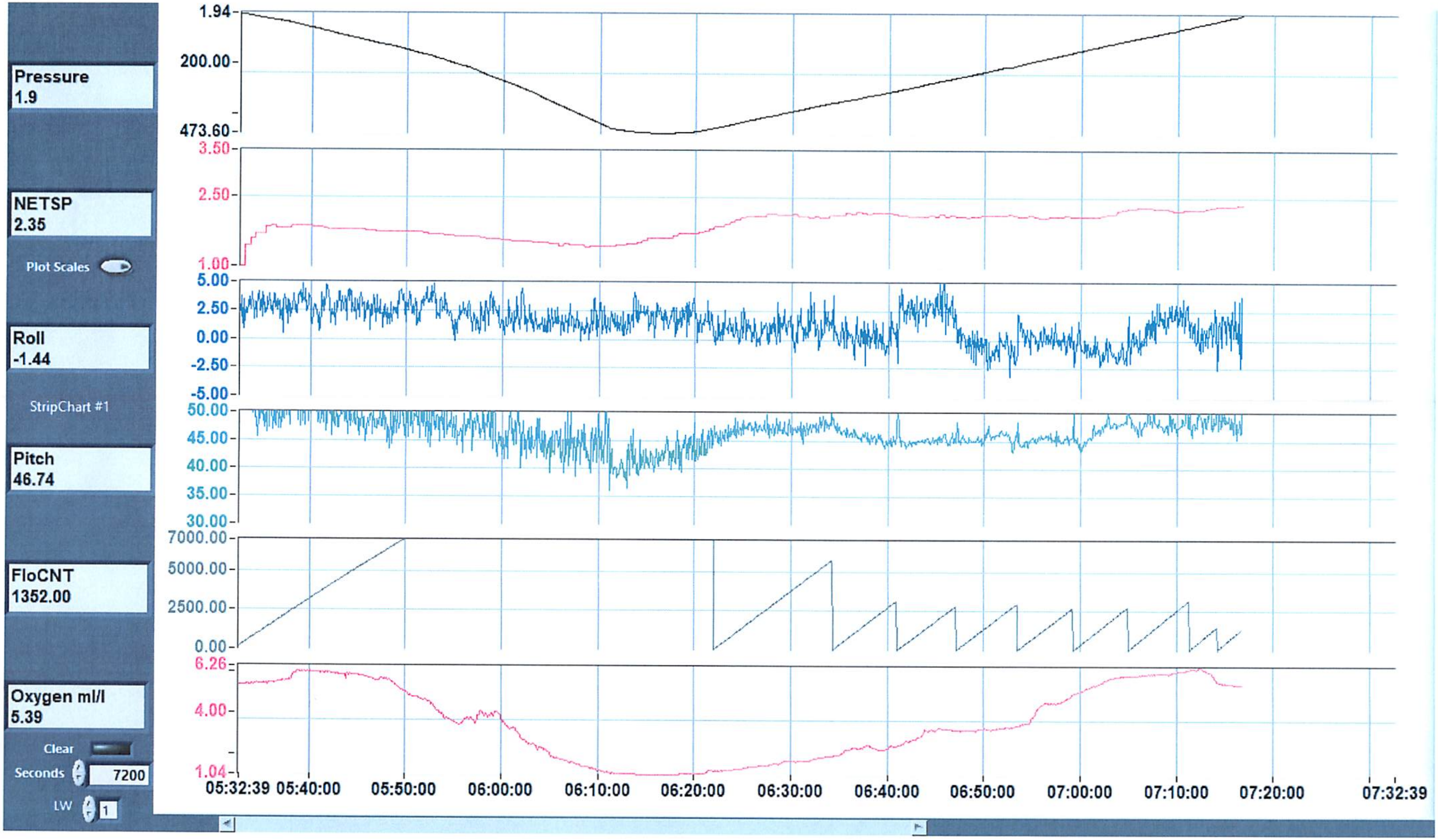
Depth Scale MIN 0 MAX 200 M Autoscale



Aug 05 2021 05:32:17
Ship: Revelle
Cruise: RR2105
File: C3_T4a_01
Tow: 01

Depth Scale MIN 0 MAX 500 M Autoscale

TIME Scale MAX 3 HRS Autoscale



Pressure
1.9

NETSP
2.35

Roll
-1.44

Pitch
46.74

FloCNT
1352.00

Oxygen ml/l
5.39

Seconds 7200

LW 1

MOCNESS Data Sheet

Cruise P2107 Date 5 Aug 2021 Haul # 23 Cycle # 3 Tow # 5

Wind Speed 8 (kts.) Direction 322 (°) Sea State 1 (ft.)

Pre-deployment checks:
- ✓ Flow Meter
- ✓ Sliders
- ✓ Stepping Motor
- ✓ Net Response
- ✓ Clean Optical Surfaces
- ✓ Transmissometer
- ✓ Fluorometer
- ✓ Oxygen Sensor
- N/A Strobe

File Name: Processed C3_T5_01 Raw

Start Time 1431 (PDT) **End** Time 1734 (PDT)

Lat 34 32.179 N Lat 34 38.517 N

Long 130 28.978W Long 130 28.977W

Event deploy # Event rec. #

Frame Size 1 m²

Net Mesh 202 µm

Bottom Depth 4673 (m) Console Operator Anya♡

Net Tow Information

Net	Time Open	Angle	Flow Counts	Volume Filtered (m³)	Max Depth (m)	Min Depth (m)	Split	Fixative	Split/Fixative	Net resp?
0	1431	54.2	33799	4251.9	799.4	0		5% Form.		
1	1559	49.7	12696	1707.2	749.8	599.8		5% Form.		
2	1626	48.9	2799	389.6	599.8	550.3		5% Form.		
3	1632	51.6	2763	383.5	550.3	499.5		5% Form.		
4	1638	41.9	5362	731.9	499.5	400.3		5% Form.		
5	1650	46.6	5367	773.9	400.3	299.6		5% Form.		
6	1702	43.8	6968	1042.0	299.6	149.8		5% Form.		
7	1718	43.2	3232	471.1	149.8	75.1		5% Form.		
8	1726	43.8	1061	159.6	75.1	49.1		5% Form.		
9	1728				49.1	0		5% Form.		
Closed										

Surface Readings:

Pressure (m) 0.9
Temp (° C) 19.156
Salinity (‰) 32.989
O2 (ml/l) 5.380
Fluor. (V) 0.2
BeamC (/m) 0.067
CTD/M volts (V) 13.76
wire out (m) 8.6
Time (PDT) 1432

At Depth Readings:

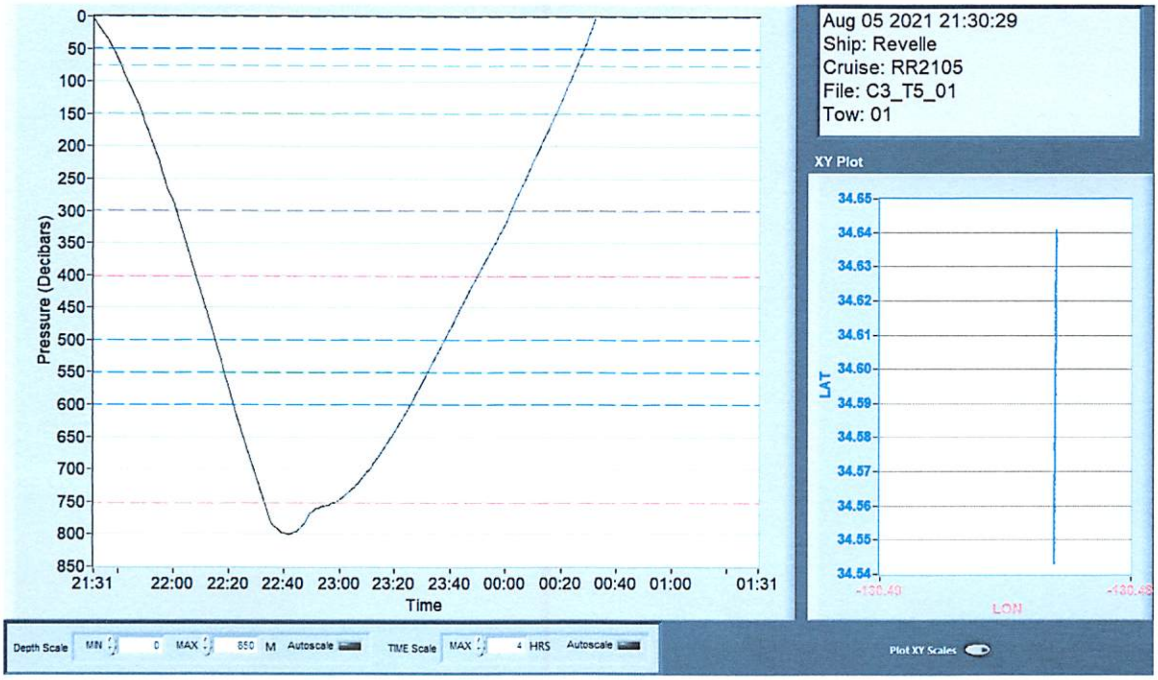
Pressure (m) 799.4
Temp (° C) 4.146
Salinity (‰) 34.421
O2 (ml/l) 0.199
Fluor. (V) 0.2
BeamC (/m) 0.019
CTD/M volts (V) 14.28
wire out (m) 1628.7
Time (PDT) 1543

Notes: CPA 706m

Strobe Parameters:

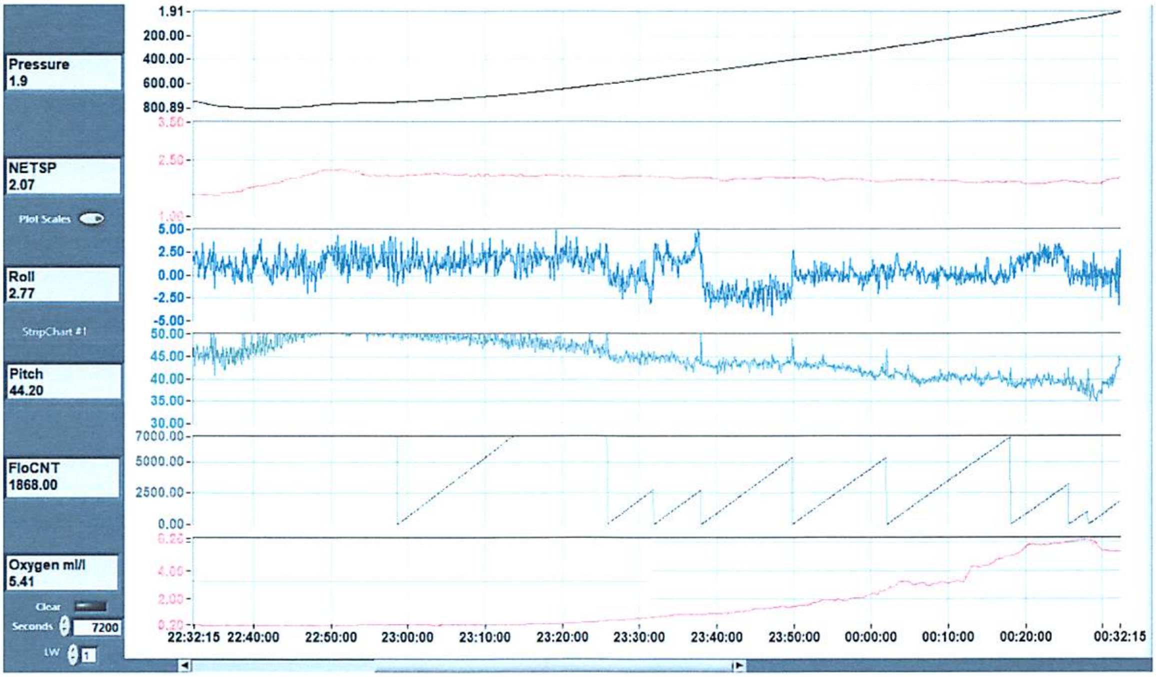
Time on/off
Depths on
Interval (ms)
Pulse wdth (m)
Intensity (%)
Strobe volts (v)

~~0-750~~
~~750-600~~
~~600-550~~
~~550-500~~
~~500-400~~
~~400-300~~
~~300-150~~
~~150-75~~
~~75-50~~
50-0



Aug 05 2021 21:30:29
Ship: Revelle
Cruise: RR2105
File: C3_T5_01
Tow: 01

Depth Scale MIN 0 MAX 850 M Autoscale
TIME Scale MAX 4 HRS Autoscale



Pressure
1.9

NETSP
2.07

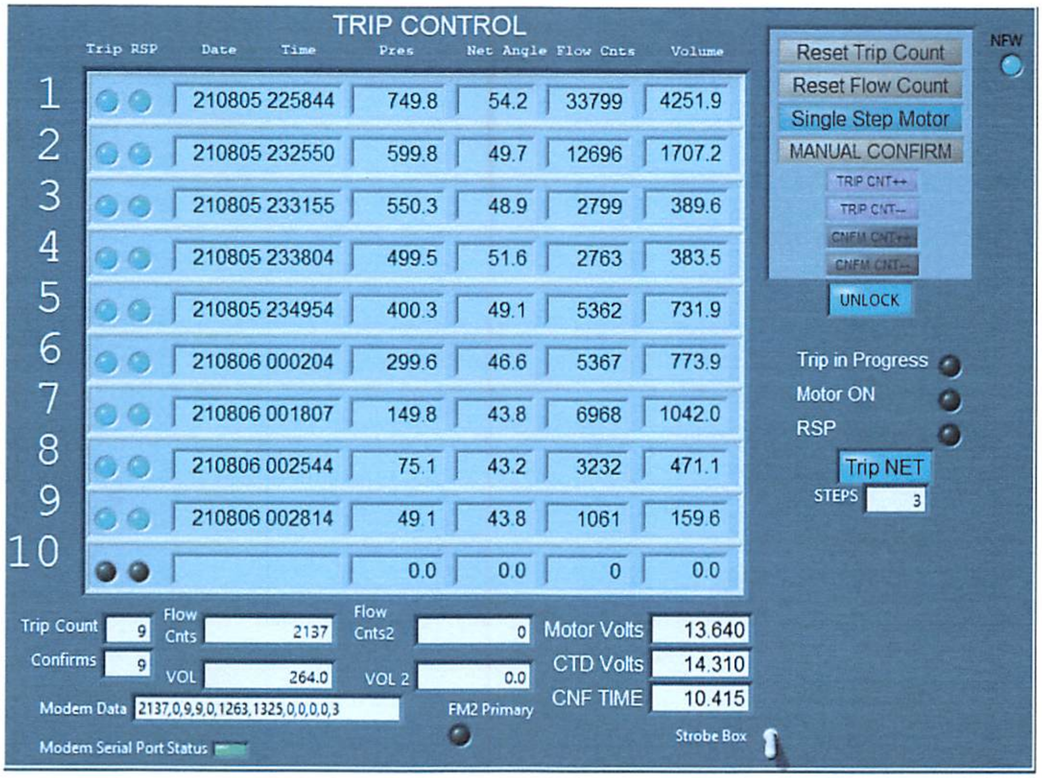
Roll
2.77

Pitch
44.20

FloCNT
1868.00

Oxygen ml/l
5.41

Seconds 7200
LW 1



TRIP CONTROL

	Trip RSP	Date Time	Pres	Net Angle	Flow Cnts	Volume
1	● ●	210805 225844	749.8	54.2	33799	4251.9
2	● ●	210805 232550	599.8	49.7	12696	1707.2
3	● ●	210805 233155	550.3	48.9	2799	389.6
4	● ●	210805 233804	499.5	51.6	2763	383.5
5	● ●	210805 234954	400.3	49.1	5362	731.9
6	● ●	210806 000204	299.6	46.6	5367	773.9
7	● ●	210806 001807	149.8	43.8	6968	1042.0
8	● ●	210806 002544	75.1	43.2	3232	471.1
9	● ●	210806 002814	49.1	43.8	1061	159.6
10	● ●		0.0	0.0	0	0.0

Trip Count 9

Confirms 9

Flow Cnts 2137

VOL 264.0

Flow Cnts2 0

VOL 2 0.0

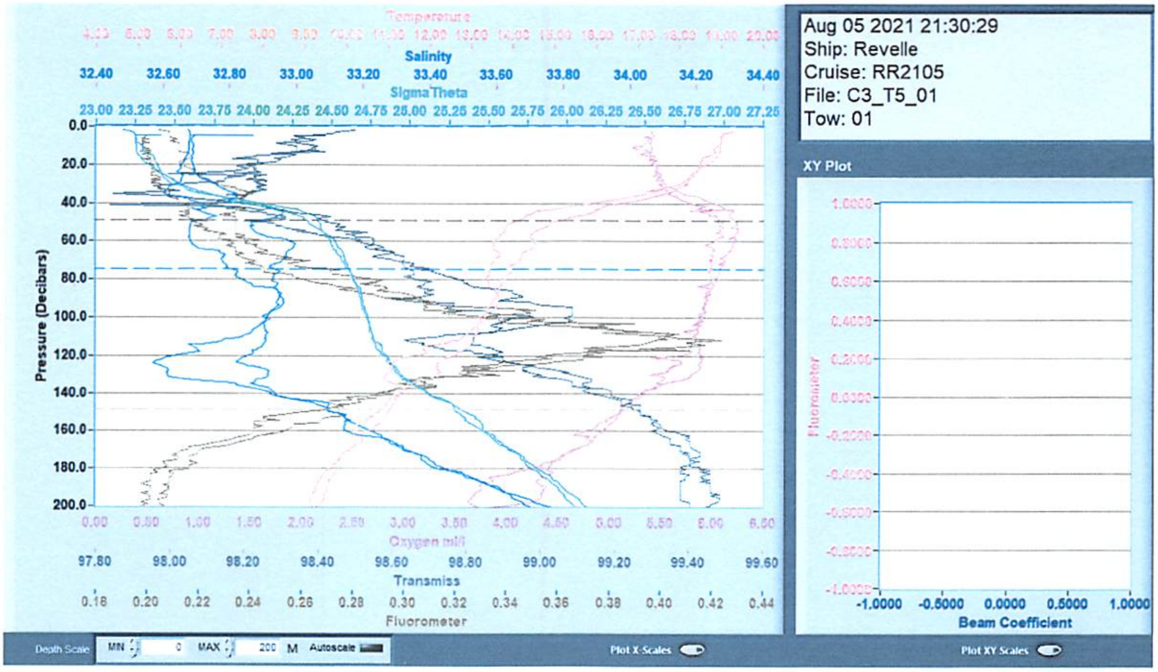
Motor Volts 13.640

CTD Volts 14.310

CNF TIME 10.415

Modem Data 2137,0,9,9,0,1263,1325,0,0,0,0,3

STEPS 3



Aug 05 2021 21:30:29
Ship: Revelle
Cruise: RR2105
File: C3_T5_01
Tow: 01

Depth Scale MIN 0 MAX 200 M

MOCNESS Data Sheet

Cruise P2107 Date 6 Aug 2021 Haul # 24 Cycle # 3 Tow # 6

Wind Speed 11 (kts.) Direction 338 (°) Sea State 1-2 (ft.)

Pre-deployment checks:
- ✓ Flow Meter
- ✓ Sliders
- ✓ Stepping Motor
- ✓ Net Response
- ✓ Clean Optical Surfaces
- ✓ Transmissometer
- ✓ Fluorometer
- ✓ Oxygen Sensor
- ✓ Strobe

File Name: Processed C3_T6-01 Raw

Start Time 1421 (PDT) Lat 34 25.851 N Long 130 24.800 W

End Time 1802 (PDT) Lat 34 33.261 N Long 130 25.507 W

Event deploy # Event rec. #

Frame Size 1 m²

Net Mesh 202 µm

Bottom Depth 5075 (m) Console Operator Anya

Net Tow Information

Net	Time Open	Angle	Flow Counts	Volume Filtered (m³)	Max Depth (m)	Min Depth (m)	Split	Fixative	Split/Fixative	Net resp?
0	1421	51.4	30694	4303.7	1048.5	0		5% Form.		
1	1552	54.7	11640	1504.5	1000	799.9		5% Form.		
2	1618	53.0	11609	1499.0	799.9	600.5		5% Form.		
3	1641	54.0	6383	849.2	600.3	499.3		5% Form.		
4	1654	53.3	5877	775.7	499.3	399.6		5% Form.		
5	1707	50.2	7258	981.0	399.6	300.2		5% Form.		
6	1722	51.4	6719	924.2	300.2	200.4		5% Form.		
7	1736	50.4	5580	758.2	200.4	100.0		5% Form.		
8	1749	49.4	2764	366.1	100.0	49.4		5% Form.		
9	1754				49.4	0		5% Form.		
Closed										

Surface Readings:

Pressure (m)	1
Temp (° C)	20.192
Salinity (‰)	32.691
O2 (ml/l)	5.867
Fluor. (V)	0.2
BeamC (/m)	0.058
CTD/M volts (V)	14.3
wire out (m)	3.6
Time (PDT)	1422

At Depth Readings:

Pressure (m)	1048.5
Temp (° C)	3.528
Salinity (‰)	34.448
O2 (ml/l)	0.382
Fluor. (V)	0.2
BeamC (/m)	0.018
CTD/M volts (V)	14.21
wire out (m)	1938.4
Time (PDT)	1545

Notes: 626.6 passing a drifter
325m bad wrap coming to a stop
271m bad wrap went out then came back

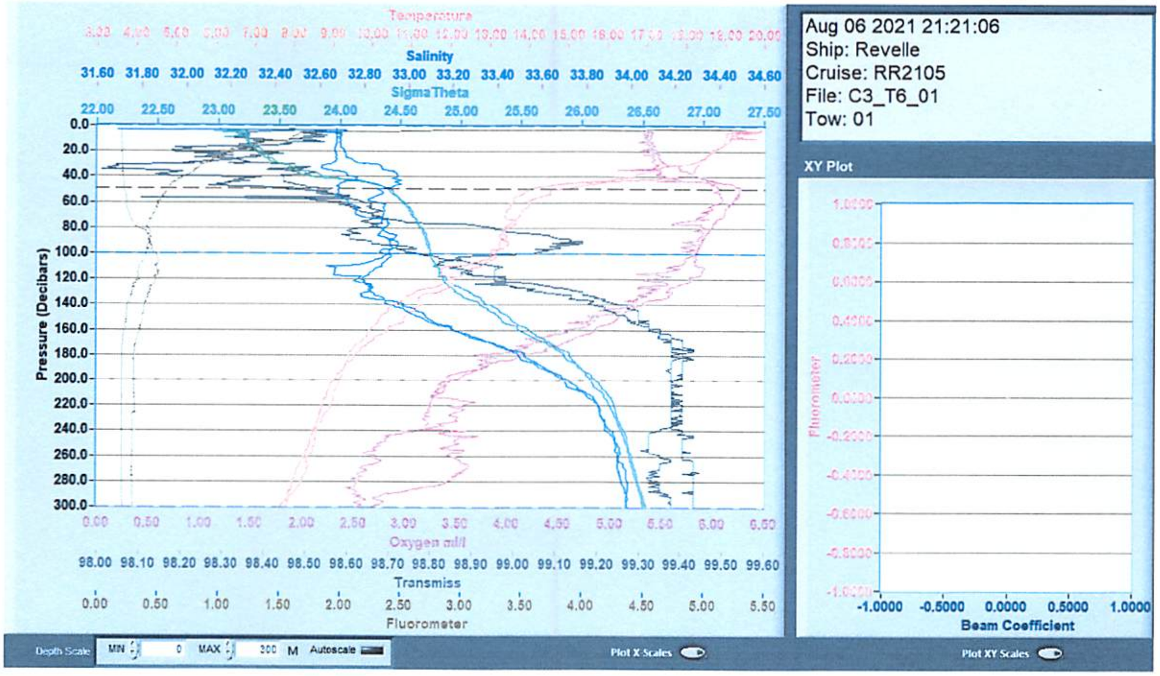
Formalin, Ethanol, & size fractionation

Strobe off after we broke the surface

Strobe Parameters:

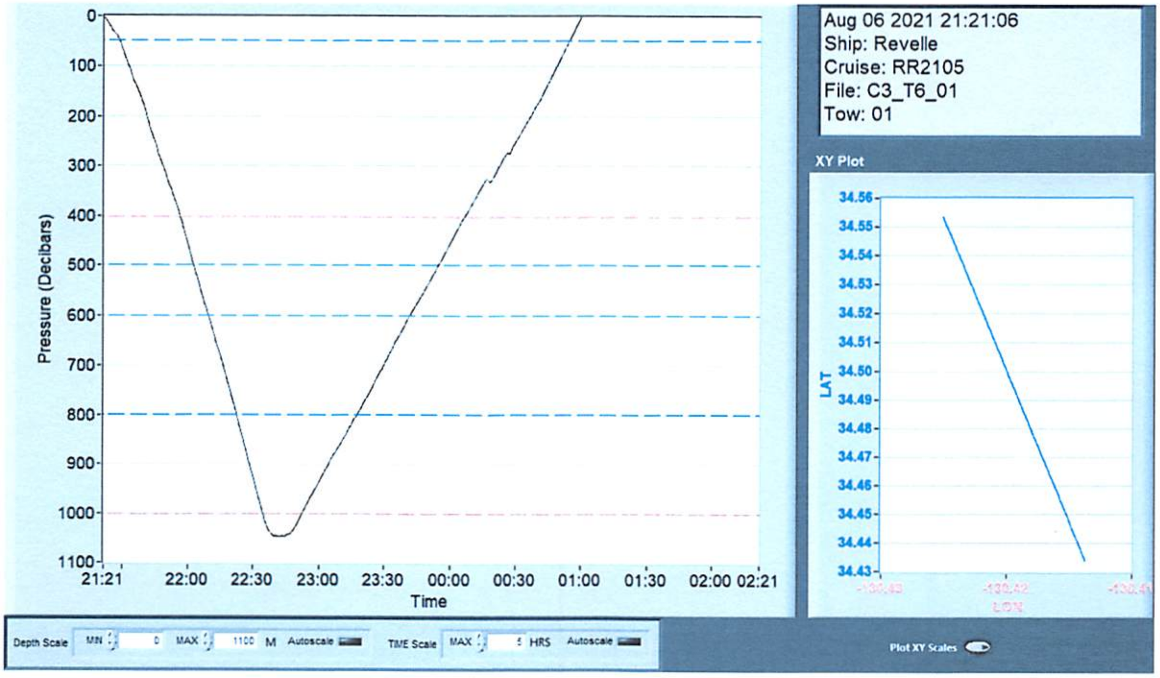
Time on/off	1551
Depths on	1014.6
Interval (ms)	1000
Pulse wdth (m)	40
Intensity (%)	50
Strobe volts (v)	18.4

~~0-1000~~
~~1000-800~~
~~800-600~~
~~600-500~~
~~500-400~~
~~400-300~~
~~300-200~~
~~200-100~~
~~100-50~~
50-0



Aug 06 2021 21:21:06
Ship: Revelle
Cruise: RR2105
File: C3_T6_01
Tow: 01

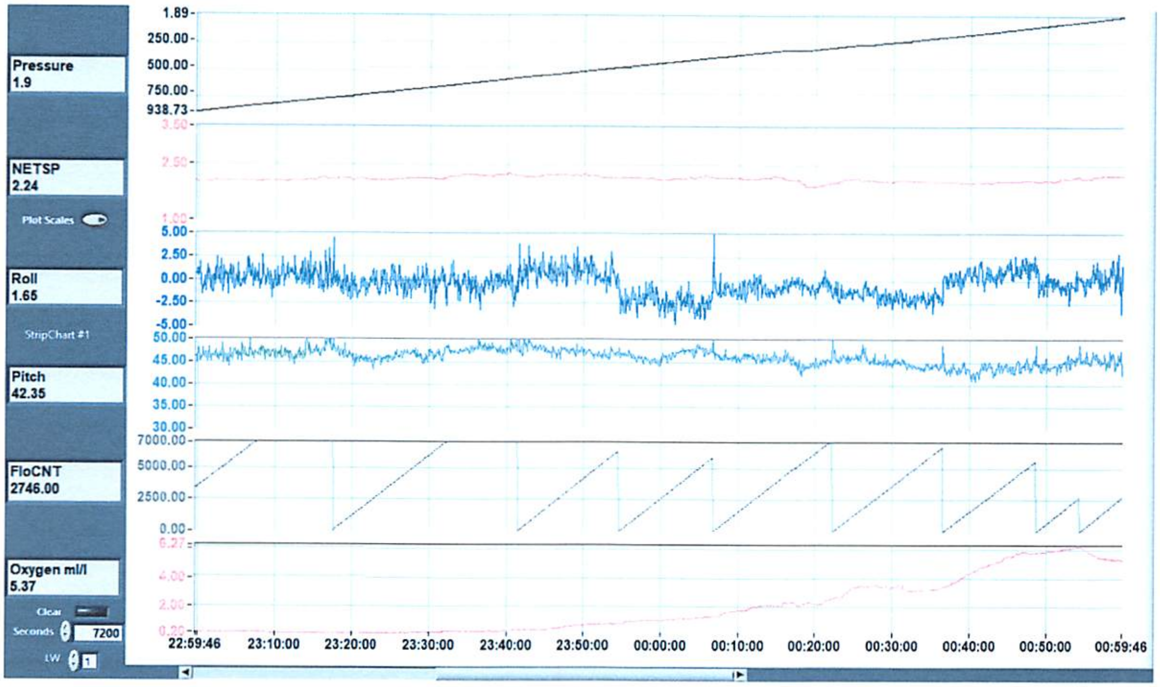
Depth Scale MIN 0 MAX 300 M Autoscale



Aug 06 2021 21:21:06
Ship: Revelle
Cruise: RR2105
File: C3_T6_01
Tow: 01

Depth Scale MIN 0 MAX 1100 M Autoscale

TIME Scale MAX 5 HRS Autoscale



Pressure 1.9

NETSP 2.24

Roll 1.65

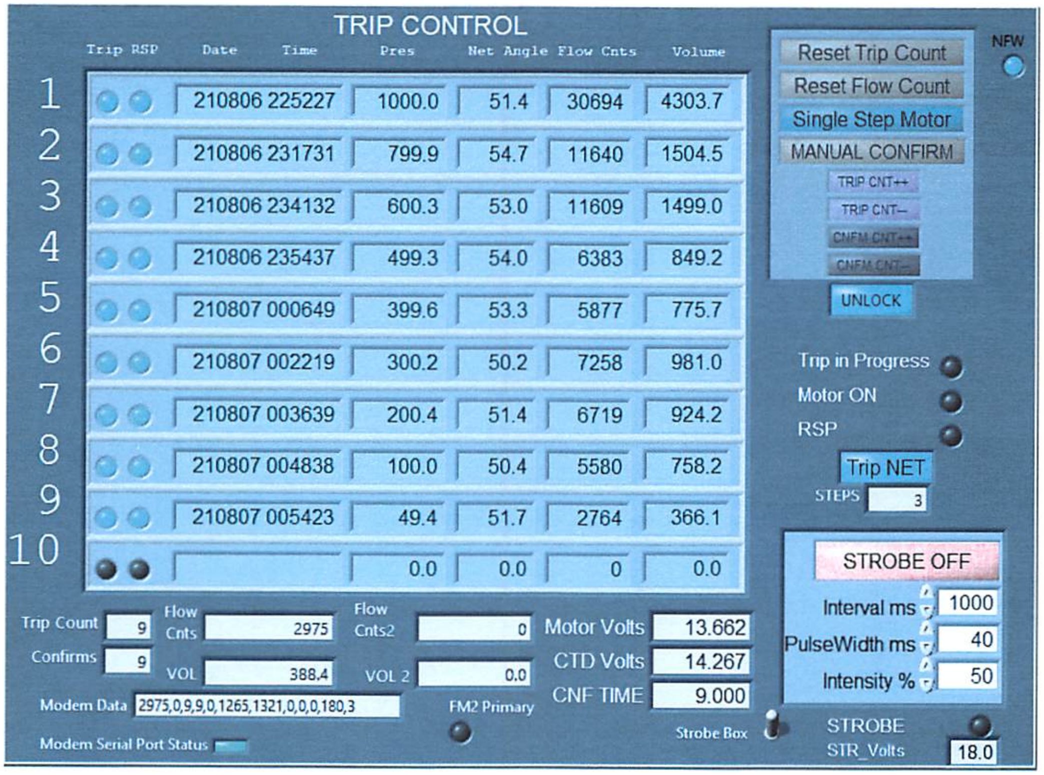
Pitch 42.35

FloCNT 2746.00

Oxygen ml/l 5.37

Seconds 7200

LW 1



TRIP CONTROL

	Trip	RSP	Date Time	Pres	Net Angle	Flow Cnts	Volume
1	🔵	🔵	210806 225227	1000.0	51.4	30694	4303.7
2	🔵	🔵	210806 231731	799.9	54.7	11640	1504.5
3	🔵	🔵	210806 234132	600.3	53.0	11609	1499.0
4	🔵	🔵	210806 235437	499.3	54.0	6383	849.2
5	🔵	🔵	210807 000649	399.6	53.3	5877	775.7
6	🔵	🔵	210807 002219	300.2	50.2	7258	981.0
7	🔵	🔵	210807 003639	200.4	51.4	6719	924.2
8	🔵	🔵	210807 004838	100.0	50.4	5580	758.2
9	🔵	🔵	210807 005423	49.4	51.7	2764	366.1
10	●	●		0.0	0.0	0	0.0

Trip in Progress ●
Motor ON ●
RSP ●
STEPS 3

Trip Count 9
Confirms 9
Flow Cnts 2975
VOL 388.4
Flow Cnts2 0
VOL 2 0.0
Motor Volts 13.662
CTD Volts 14.267
CNF TIME 9.000
Modem Data 2975,0,9,9,0,1265,1321,0,0,0,180,3
Modem Serial Port Status

Interval ms 1000
PulseWidth ms 40
Intensity % 50
STROBE ●
STR_Volts 18.0

MOCNESS Data Sheet

Cruise P2107 Date 6 Aug 21 Haul # 25 Cycle # 3 Tow # 7

Wind Speed 11.3 (kts.) Direction 16.9 (°) Sea State 2-4 (ft.)

Pre-deployment checks:
- ✓ Flow Meter
- ✓ Sliders
- ✓ Stepping Motor
- ✓ Net Response
- ✓ Clean Optical Surfaces
- ✓ Transmissometer
- — Fluorometer
- ✓ Oxygen Sensor
- ✓ Strobe 18.2V ✓

File Name: Processed ______ Raw C3-T7-01.hex

Start Time 2311 (PDT) **End** Time 0243 (PDT)

Lat 34 24.765 N Lat 34 31.412N

Long 130 24.747W Long 130 26.842W

Event deploy # ______ Event rec. # ______

Frame Size 1 m²

Net Mesh 202 µm

Bottom Depth 5057 (m) Console Operator SM, Dante

Net Tow Information

Net	Time Open	Angle	Flow Counts	Volume Filtered (m³)	Max Depth (m)	Min Depth (m)	Split	Fixative	Split/Fixative	Net resp?
0	23:11	49.4	30108	4287.2	1101.9	0	25%	5% Form.	50% EtOH/25% biomass	✓
1	00:39	54.0	12139	1566.4	999.2	799.8	↓	5% Form.	↓ ↓	✓
2	0105	52.3	12562	1725.0	799.8	600.5	↓	5% Form.	↓ ↓	✓
3	0131	55.1	5619	740.8	600.5	500.0	↓	5% Form.	↓ ↓	✓
4	0143	50.0	5689	779.7	500.0	399.7	↓	5% Form.	↓ ↓	✓
5	0155	56.0	5491	743.0	399.7	299.9	↓	5% Form.	↓ ↓	
6	0207	52.8	5687	766.4	299.9	200.1	↓	5% Form.	↓ ↓	
7	0218	52.6	6149	801.9	200.1	100.1	↓	5% Form.	↓ ↓	
8	0231	52.6	3045	412.1	100.1	49.9	↓	5% Form.	↓ ↓	
9	0237						↓	5% Form.	↓ ↓	
Closed										

Surface Readings:

Pressure (m)	3.6
Temp (° C)	19.512
Salinity (‰)	32.6880
O2 (ml/l)	5.279
Fluor. (V)	0.4
BeamC (/m)	0.065
CTD/M volts (V)	14.29 / 13.35
wire out (m)	-3.4
Time (PDT)	2312

At Depth Readings:

Pressure (m)	1009.7
Temp (° C)	3.659
Salinity (‰)	34.436
O2 (ml/l)	0.364
Fluor. (V)	0.4
BeamC (/m)	0.021
CTD/M volts (V)	14.30
wire out (m)	1830.9
Time (PDT)	0032

Notes: Spent a while at depth and had to trip while net was @ 0mpm for 1000m trip

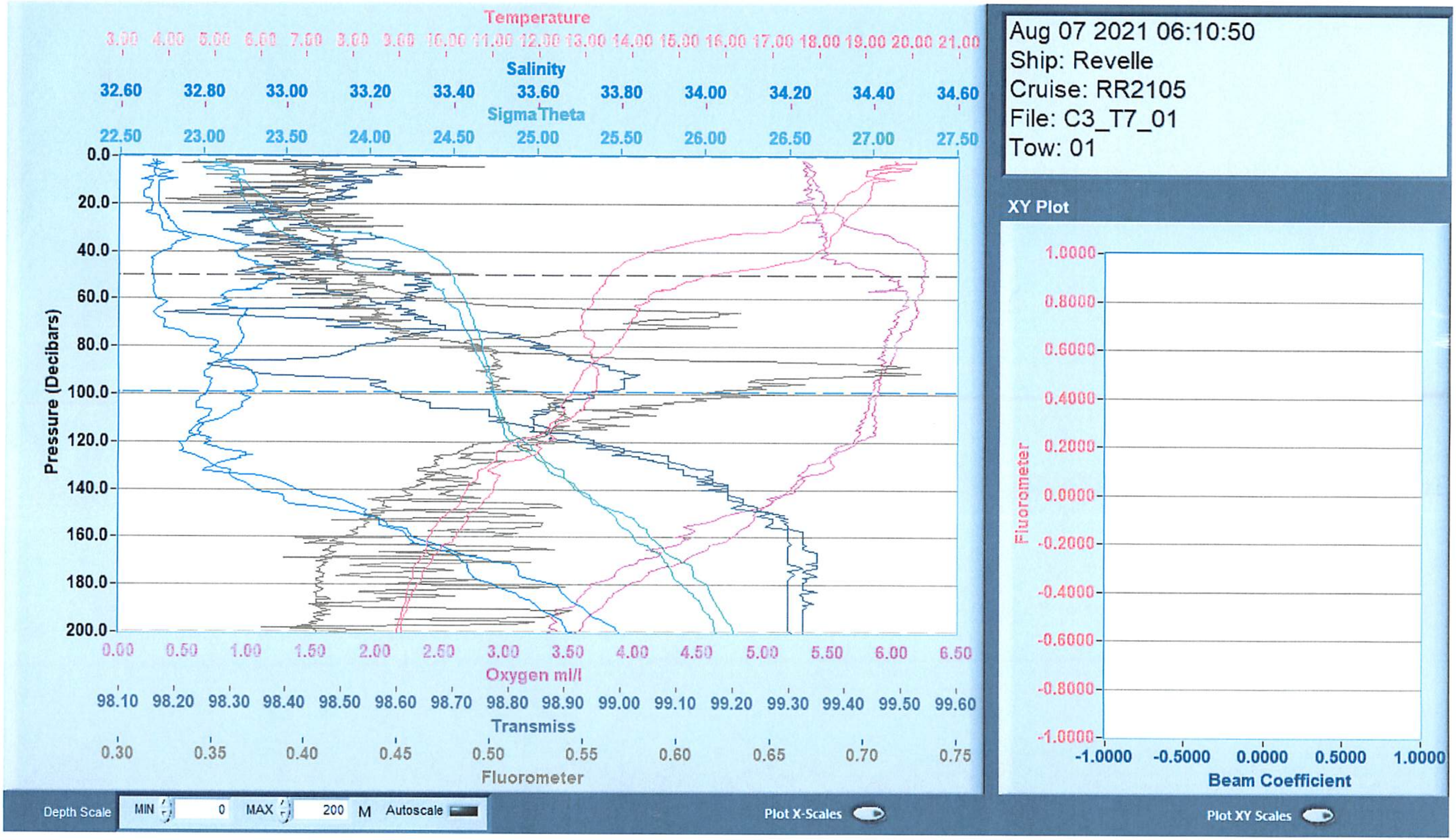
0115 → CPA
723.1m depth
1321.1MWO

The MOCNESS was feeling fairly energetic today after starting the day w/ an intense calisthenics session and a strong espresso

Strobe Parameters:

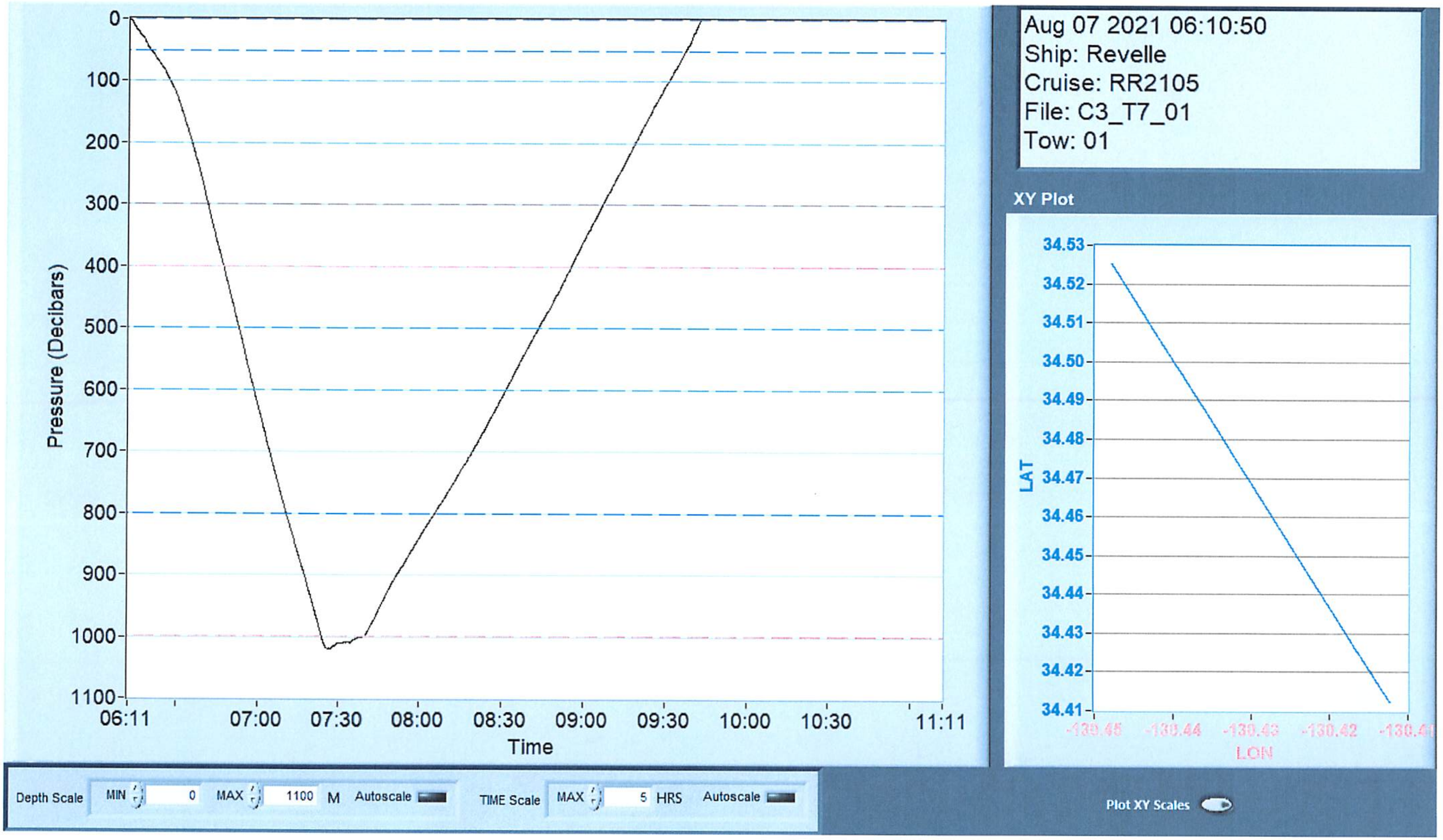
Time on/off ______
Depths on ______
Interval (ms) ______
Pulse wdth (m) ______
Intensity (%) ______
Strobe volts (v) ______

~~0-1000~~
~~1000-800~~
~~800-600~~
~~600-500~~
~~500-400~~
~~400-300~~
300-200
200-100
100-50
50-0



Aug 07 2021 06:10:50
Ship: Revelle
Cruise: RR2105
File: C3_T7_01
Tow: 01

Depth Scale MIN 0 MAX 200 M Autoscale

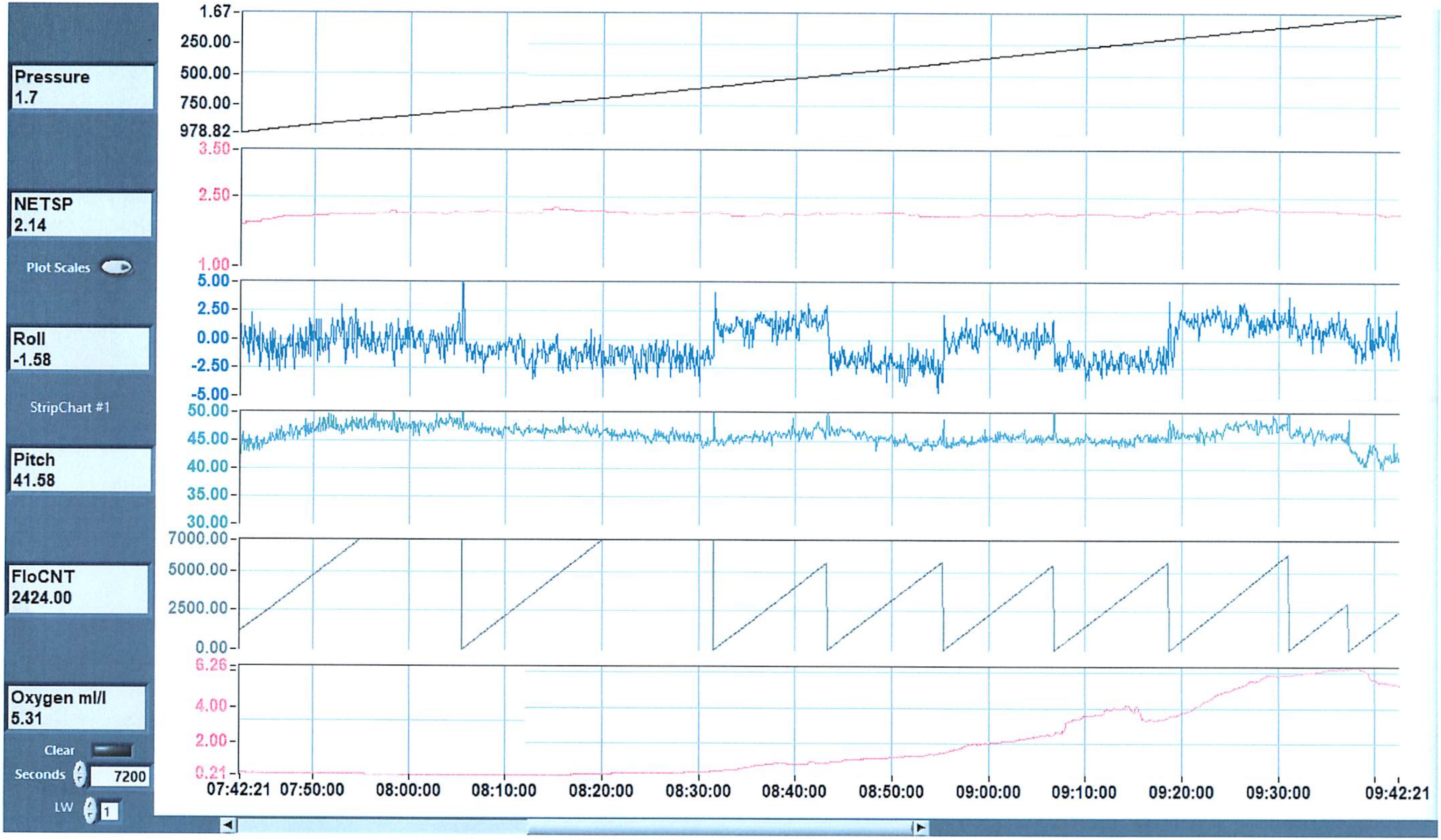


Aug 07 2021 06:10:50
Ship: Revelle
Cruise: RR2105
File: C3_T7_01
Tow: 01

Depth Scale MIN 0 MAX 1100 M Autoscale

TIME Scale MAX 5 HRS Autoscale

Plot XY Scales



Pressure
1.7

NETSP
2.14

Plot Scales

Roll
-1.58

StripChart #1

Pitch
41.58

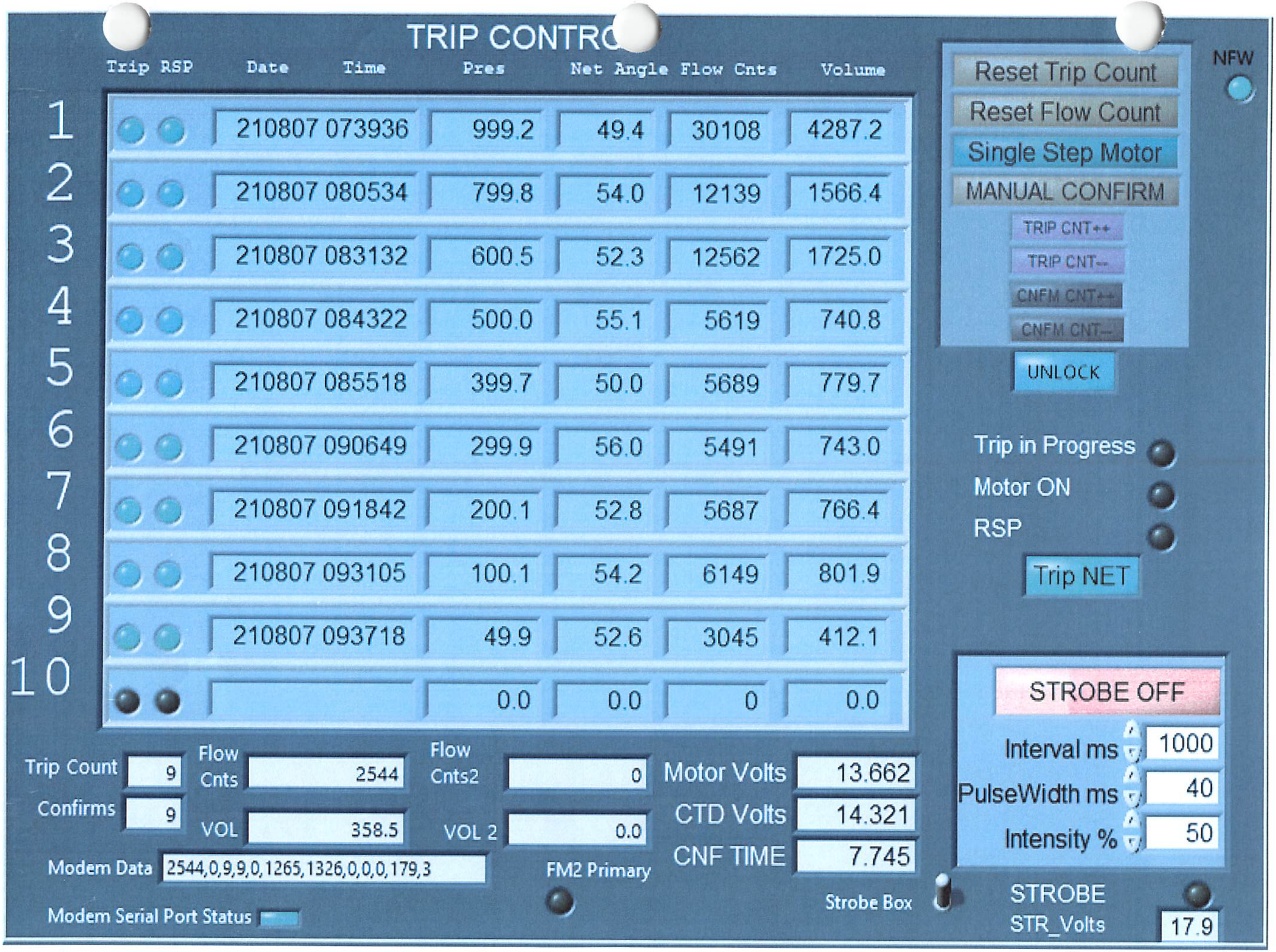
FloCNT
2424.00

Oxygen ml/l
5.31

Clear

Seconds 7200

LW 1



TRIP CONTRO

	Trip	RSP	Date Time	Pres	Net Angle	Flow Cnts	Volume
1	●	●	210807 073936	999.2	49.4	30108	4287.2
2	●	●	210807 080534	799.8	54.0	12139	1566.4
3	●	●	210807 083132	600.5	52.3	12562	1725.0
4	●	●	210807 084322	500.0	55.1	5619	740.8
5	●	●	210807 085518	399.7	50.0	5689	779.7
6	●	●	210807 090649	299.9	56.0	5491	743.0
7	●	●	210807 091842	200.1	52.8	5687	766.4
8	●	●	210807 093105	100.1	54.2	6149	801.9
9	●	●	210807 093718	49.9	52.6	3045	412.1
10	○	○		0.0	0.0	0	0.0

NFW ●

Trip in Progress ○
Motor ON ○
RSP ○

Trip Count 9
Confirms 9
Flow Cnts 2544
VOL 358.5
Flow Cnts2 0
VOL 2 0.0
Motor Volts 13.662
CTD Volts 14.321
CNF TIME 7.745
Modem Data 2544,0,9,9,0,1265,1326,0,0,0,179,3
Modem Serial Port Status ▬
FM2 Primary ○

Interval ms 1000
PulseWidth ms 40
Intensity % 50
STROBE ○
STR_Volts 17.9