

MOCNESS DATA SHEET

Cruise TN 368 Location (A14) Tow # 01

Date 7/06/2019 Wind Speed low Direction _____

Year/Day _____ Sea State Flat Calm, Sunny

Local Time 0745 to 0824 Start Lat _____ Long _____

GMT Time _____ to _____ End Lat _____ Long _____

Target depths.
 0
 38
 57

Net Size 1/4 m Net Condition _____
 Net Mesh 100, 150um

Processed MOC1 Raw Filename MOC1
 Filename _____

39, 8802
 - 70, 8303
 690m

NET TOW INFORMATION

SAMPLE INFORMATION

Time Angle Flow Volume MWO
 Open Depth Counts Filtered Net

Jar # Jar #

2 kts TW
 2 1/4 kts

102m
 w/o

100
 Net 0

-8

Net	Time	Angle	Flow	Volume	MWO	Formalin	Alcohol
Net 0	0 → 57				0745(L) N.R.		
Net 1	57 → 57		0759 →				
Net 2	57 → 38		8102				
Net 3	38 → 38		806				
Net 4	38 → 0		808				
Net 5	0 → 0		813				
Net 6			816				
Net 7			8:24 recover				
Net 8							
Closed							

Net 3 (100um?)

Net 5 (100um)

P. A. Ztal

COMMENTS: _____

MOCNESS DATA SHEET

Cruise TN 368 Location AL2 Tow # MOC 2

Date July 7 (Z) Wind Speed _____ Direction _____
2019

Year/Day _____ Sea State ~ 4' swell

Local Time 14:58 to _____ Start Lat _____ Long _____

GMT Time 19:00 to _____ End Lat _____ Long _____

Net Size 1/4 M Net Condition _____
 Net Mesh 100/150um

Processed MOC 2 Raw Filename MOC 2
 Filename _____

BAT = 20.8V

2 1/4 kt.

49.00
- 70.86

0
21
32

NET TOW INFORMATION

Time	Angle	Flow	Volume	MWO
Open	Depth	Counts	Filtered	Net

SAMPLE INFORMATION

Jar # Jar #

Start				
Net 0	0 → 32m		N.N.R.	
Down		close	NR.	
Net 1	32 → 32m	1509	✓	-32m
Net 2	32 → 21	1511	✓	
Net 3	21 → 21	1513	✓	
Net 4	21 → 21	1515	✓	21m
Net 5	21 → 0	1519	✓	
Net 6	0 → 0	1521	✓	-0m
Net 7				
Net 8				
Closed				

Formalin Alcohol

Net 0	
Net 1	
Net 2	
Net 3	100um
Net 4	
Net 5	100um
Net 6	
Net 7	
Net 8	

COMMENTS: _____

MOCNESS DATA SHEET

Cruise TN368 Location _____ Tow # 3

Date 7/8/19 (Z) Wind Speed _____ Direction _____

Year/Day _____ Sea State _____

Local Time _____ to _____ Start Lat _____ Long _____

GMT Time 1225 to 1258 End Lat _____ Long _____

Net Size _____ Net Condition _____
 Net Mesh _____

39.25
71.00

0
25 > incub.
38

Processed MOC3 Raw Filename MOC3
 Filename _____

08:25 (L)

NET TOW INFORMATION

Time	Angle	Flow	Volume	MWO
Open	Depth	Counts	Filtered	Net

SAMPLE INFORMATION

Jar #	Jar #
-------	-------

Net	Time	Angle	Flow	Volume	MWO	Formalin	Alcohol
Start	08:25			close time			
Net 0	0 → 0	→	0 → 38m	8:34 ✓			
Net 1	38 → 38			08:37 ✓			
Net 2	38 → 25			08:39 ✓			
Net 3	25 → 25	-100m		08:41 ✓			
Net 4	25 → 25	→ 150m		08:44 ✓			
Net 5	25 → 0			08:50 ✓			
Net 6	0 → 0			08:52			
Net 7	close						
Net 8							
Closed	on board			~ 8:58 (L)			

COMMENTS: w/ repaired flowmeter bracket

20.0 ✓

MOCNESS DATA SHEET

Cruise TN368 Location A5 Tow # 4

Date 7/9/2019 Wind Speed _____ Direction _____

Year/Day _____ Sea State _____

Local Time 06:20 to 06:45 Start Lat _____ Long _____

GMT Time _____ to _____ End Lat _____ Long _____

Net Size 1/4 m Net Condition _____
 Net Mesh 150/100 μm

Processed MOC 4 Raw Filename MOC 4
 Filename _____

0
 11 - 150/100
 26
 40.46
 70.83

31‰

NET TOW INFORMATION

	Time	Angle	Flow	Volume	MWO
	Open	Depth	Counts	Filtered	Net
Start		<u>06:20</u>		<u>close</u>	<u>NB2</u>
Net 0					
Down		<u>Net 0 → 26</u>		<u>6:25</u>	<input checked="" type="checkbox"/>
Net 1		<u>26 → 26</u>		<u>06:28</u>	<input checked="" type="checkbox"/>
Net 2		<u>26 → 11</u>		<u>06:30</u>	<input checked="" type="checkbox"/>
Net 3		<u>11 → 11</u>		<u>06:32</u>	<input checked="" type="checkbox"/>
Net 4		<u>11 → 11</u>		<u>06:34</u>	<input checked="" type="checkbox"/>
Net 5		<u>11 → 0</u>		<u>06:37</u>	<input checked="" type="checkbox"/>
Net 6		<u>0 → 0</u>		<u>06:39</u>	<input checked="" type="checkbox"/>
Net 7		<u>close</u>			
Net 8					
Closed					

SAMPLE INFORMATION

Formalin	Alcohol
Jar #	Jar #
Net 0	_____
Net 1	_____
Net 2	_____
Net 3	_____
Net 4	_____
Net 5	_____
Net 6	_____
Net 7	_____
Net 8	_____

COMMENTS: low salinity not 31‰!

MOCNESS DATA SHEET

Cruise TN 368 Location SSF2 Tow # 5

Date 7/10/19 Wind Speed _____ Direction _____

Year/Day _____ Sea State _____

Local Time _____ to _____ Start Lat _____ Long 39.6

GMT Time 1640 to _____ End Lat _____ Long -70.4

Net Size 0.25m² Net Condition _____
 Net Mesh 150/100um

0
50
80

Processed MOC5 Raw Filename MOC5
 Filename _____

NET TOW INFORMATION

Time Angle Flow Volume MWO
 Open Depth Counts Filtered Net

SAMPLE INFORMATION

Jar # Jar #

Start	Time	Angle	Flow	Volume	MWO	Formalin	Alcohol
Net	Open	Depth	Counts	Filtered	Net	Jar #	Jar #
Net 0	0 → 80		12:49 →	1259 ✓			
Net 1	80 → 80	150m		13:02 ✓			
Net 2	80 → 50			1306 ✓			
Net 3	50 → 50	100m	1 min	1307 ✓			
Net 4	50 → 50	150m	2 min	1310 ✓			
Net 5	50 → 0			1315 ✓			
Net 6	0 → 0	150m		1317 ✓			
Net 7	close						
Net 8							
Closed							

COMMENTS: 20, 1 V bat Codend #6 - rip - needs repair

MOCNESS DATA SHEET

Cruise TN 368 Location AIG Tow # 6

Date 7/11/19 Wind Speed _____ Direction _____

Year/Day _____ Sea State calm

Local Time _____ to _____ Start Lat 39.75 Long -70.84

GMT Time 2259 to _____ End Lat _____ Long _____

Net Size 1/2-m² Net Condition _____
 Net Mesh 150/100um

Ø
25
6Ø

Processed MOC6 Raw Filename MOC6
 Filename _____

NET TOW INFORMATION

	Time	Angle	Flow	Volume	MWO
	Open	Depth	Counts	Filtered	Net
Start	<u>1859 - start close</u>				
Net 0	<u>0 → 60</u>	<u>19:00 →</u>	<u>19:07</u>	<u>N/R</u>	
Down	<u>ship in way</u>				
Net 1	<u>60 → 60</u>		<u>19:09</u>	✓	
Net 2	<u>60 → 25</u>		<u>19:16</u>	✓	
Net 3	<u>25 → 25</u>	<u>100um</u>	<u>19:18</u>	✓	
Net 4	<u>25 → 25</u>	<u>150um</u>	<u>19:21</u>	✓	
Net 5	<u>25 → Ø</u>		<u>19:25</u>	✓	
Net 6	<u>Ø → Ø</u>		<u>19:27</u>	✓	
Net 7	<u>close</u>				
Net 8			<u>19:30 (local)</u>	<u>close</u>	
Closed	_____				

SAMPLE INFORMATION

Jar #	Jar #
Formalin	Alcohol
Net 0	_____
Net 1	_____
Net 2	_____
Net 3	_____
Net 4	_____
Net 5	_____
Net 6	_____
Net 7	_____
Net 8	_____

COMMENTS: _____

MOCNESS DATA SHEET

Cruise TN 368 Location A7 Tow # 7

Date 7/12/2019 Wind Speed _____ Direction _____

Year/Day _____ Sea State ~ 3' swell, Cloudy, Rainy.

Local Time 0645 to _____ Start Lat _____ Long _____

GMT Time _____ to _____ End Lat _____ Long _____

Net Size 1/4 M Net Condition _____
 Net Mesh 100/150um

40° 34
70.83

0m
30m
50m

Processed Mac 7 Raw Filename MOC7
 Filename _____

NET TOW INFORMATION

Time Angle Flow Volume MWO
 Open Depth Counts Filtered Net

SAMPLE INFORMATION

Jar # Jar #

Start	Down	Close Time	Net Response	Formalin	Alcohol
Net 0	0 → 50	0654	✓	Net 0	
Net 1	50 → 50	0656	✓	Net 1	
Net 2	50 → 30	0700	✓	Net 2	
Net 3	30 → 30	0703	✓	Net 3	
Net 4	30 → 30	0705	✓	Net 4	
Net 5	30 → 0	0710	✓	Net 5	
Net 6	0 → 0	0712	✓	Net 6	
Net 7	close.			Net 7	
Net 8				Net 8	
Closed					

COMMENTS: 20.0V → 19.9V

MOCNESS DATA SHEET

Cruise TN368 Location ~~A12.5~~
A13 Tow # 8

Date 7/13/19 Wind Speed 11kt Direction _____

STA 12.5

Year/Day _____ Sea State low swell ; Sunny

Local Time 1204 to _____ Start Lat _____ Long _____

GMT Time 1604 to 1645 End Lat _____ Long _____

39.95,
-70.83

Net Size 1/4 m² Net Condition _____
Net Mesh 100/150um

~~15~~
80

Processed MOC 8 Raw Filename MOC 8
Filename _____

NET TOW INFORMATION

Time Angle Flow Volume MWO
Open Depth Counts Filtered Net

SAMPLE INFORMATION

Jar # Jar #

Start	Time	Angle	Flow	Volume	MWO	Formalin	Alcohol
Net	Open	Depth	Counts	Filtered	Net	Jar #	Jar #
Net 0	8 → 80m		12:21	✓			
Net 1	80 → 80		1224	✓			
Net 2	80 → 50 45		1229	✓			
Net 3	50 → 50 45-45		1231	✓			
Net 4	50 → 50 45-45		1233	✓			
Net 5	50 → 50 45 → ∅		1238	✓			
Net 6	∅ → ∅		1241	✓			
Net 7	close		12:45	on board			
Net 8							
Closed							

COMMENTS: 20.0 ✓

MOCNESS DATA SHEET

Cruise TN368 Location A13 Tow # 9

Date 7/14/19 Wind Speed _____ Direction _____

Year/Day _____ Sea State calm, sunny

Local Time _____ to _____ Start Lat _____ Long 39.94
-70.83

GMT Time 10:42 to 11:14(2) End Lat _____ Long _____

Net Size 1/4 m² Net Condition _____
Net Mesh 150/100um

0 m
35 m
51 m

Processed MOC9 Raw Filename MOC9
Filename _____

NET TOW INFORMATION

Time	Open	Depth	Angle	Flow	Volume	MWO	SAMPLE INFORMATION	
							Counts	Filtered
<u>06:42</u>	<u>local</u>							
Start								
Net 0	<u>0 → 51</u>			<u>close(t)</u>	<u>Net Response</u>			
Down				<u>0655</u>	<u>✓</u>	<u>17.8</u>	Net 0	_____
Net 1	<u>51 → 51</u>			<u>0657</u>	<u>✓</u>		Net 1	_____
Net 2	<u>51 → 35</u>			<u>07:01</u>	<u>✓</u>	<u>19.6°C</u>	Net 2	_____
Net 3	<u>35 → 35</u>			<u>07:04</u>	<u>✓</u>		Net 3	_____
Net 4	<u>35 → 35</u>			<u>07:06</u>	<u>✓</u>		Net 4	_____
Net 5	<u>35 → ∅</u>			<u>07:10</u>	<u>✓</u>	<u>24°C</u>	Net 5	_____
Net 6	<u>∅ → ∅</u>			<u>07:12</u>	<u>✓</u>		Net 6	_____
Net 7	<u>close</u>			<u>07:14 end</u>			Net 7	_____
Net 8							Net 8	_____
Closed							Net 8	_____

COMMENTS: _____

MOCNESS DATA SHEET

Cruise TN368 Location A13 Tow # 10

Date 7-15-2019 Wind Speed 4kt Direction _____

Year/Day _____ Sea State flat calm; Sunny - hazy

Local Time 2121 to 2149 Start Lat _____ Long _____

GMT Time _____ to _____ End Lat _____ Long _____

Net Size 1/4-m² Net Condition _____
 Net Mesh 150/100um

Processed MOC10 Raw Filename MOC10
 Filename _____

7.378 cal-flaw
count

39.94
- 70.83

0
28
50

NET TOW INFORMATION

SAMPLE INFORMATION

Time	Angle	Flow	Volume	MWO	Jar #	Jar #
Open	Depth	Counts	Filtered	Net	Formalin	Alcohol
Start		Time closed		Net Repase		
Net 0	0 → 50m	17:22 → 17:28		✓	Net 0	
Net 1	50 → 50m	1730		✓	Net 1	
Net 2	50 → 28	1734		✓	Net 2	
Net 3	28 → 28 100um	1737		✓	Net 3	
Net 4	28 → 28 150um	1739		✓	Net 4	
Net 5	28 → 0	1742		✓	Net 5	
Net 6	0 → 0m	1745		✓	Net 6	
Net 7	close				Net 7	
Net 8					Net 8	
Closed						

1721(2)

COMMENTS: 20.1 Volts

MOCNESS DATA SHEET

Cruise TN368 Location A13 Tr. 46 Tow # 11

Date 07/16/2019 Wind Speed 15 kt. Direction _____

Year/Day _____ Sea State Flat

Local Time _____ to _____ Start Lat _____ Long _____

GMT Time 1718 to 1750 (Z) End Lat _____ Long _____

Net Size 1/4 m² Net Condition _____
 Net Mesh 150/100um

Processed MOC11 Raw Filename MOC11
 Filename _____

39.94
 -070.83
 TARGET DEPTHS
 0m
 56m
 80m

13:18 (Local)

NET TOW INFORMATION

Time Angle Flow Volume MWO
 Open Depth Counts Filtered Net

SAMPLE INFORMATION

Jar # Jar #

Start	Time	Angle	Flow	Volume	MWO	Formalin	Alcohol
Net	Open	Depth	Counts	Filtered	Net	Jar #	Jar #
Net 0	0 → 80m	1318 →	1329	✓			
Net 1	80 → 80m		1331	✓	18°C		
Net 2	80 → 56m		1335	✓			
Net 3	56 _{100um} → 56m		1337	✓	12°C		
Net 4	56 _{150um} → 56m		1339	✓			
Net 5	56 → 0		1346	✓			
Net 6	0 → 0		1348	✓	21.08°C		
Net 7	close						
Net 8			1350 - recover				
Closed							

COMMENTS: 20.0v

Note - Flowmeter broke off its bracket @ some point - right after Net 0 closed. (i)

MOCNESS DATA SHEET

Cruise TN 368 Location A5 Tow # 12

Date 7/17/2019 Wind Speed 15kt Direction _____

Year/Day _____ Sea State Low swell; DARK, "full" moon
FLAT

Local Time 03:35 to _____ Start Lat _____ Long _____

GMT Time _____ to _____ End Lat _____ Long _____

Net Size 1/4 m² Net Condition _____
Net Mesh 100/150um

0
26
40

40°.46
-70°.83

Processed MOC12 Raw Filename MOC12
Filename _____

NET TOW INFORMATION

	Time		Angle	Flow	Volume	MWO	SAMPLE INFORMATION	
	Open	Depth					Counts	Filtered
Start							Formalin	Alcohol
Net 0	0 → 40m	03:35 →		0343	✓	8°C	Net 0	_____
Down							Net 1	_____
Net 1	40m → 40m	∅		0345	✓		Net 2	_____
Net 2	40 → 26			0348	✓	9.5°C	Net 3	_____
Net 3	26 → 26			0350	✓		Net 4	_____
Net 4	26 → 26			0352	✓		Net 5	_____
Net 5	26 → ∅			0357	✓	21°C	Net 6	_____
Net 6	∅ → ∅			0359	✓		Net 7	_____
Net 7	∅/∅			0405			Net 8	_____
Net 8								_____
Closed								_____

COMMENTS: 19.9V, 19.8V