

MOCNESS DATA SHEET

39° 56'
70° 50'

Cruise RB 1904 Location A13 Tow # 1

Date 5/13/19 Wind Speed _____ Direction _____

Year/Day 19 Sea State 6'-8' swells

Local Time 11:00 to _____ Start Lat 39.9417 Long -070.8346

GMT Time 1500 to _____ End Lat 39.9472 Long -070.8048

Net Size 150/100mm Net Condition Good
Net Mesh _____

Processed RB1904-M Raw Filename RB1904-M 11° deg.

70°
on
deck

NET TOW INFORMATION

	Time	Angle	Flow	Volume	MWO	SAMPLE INFORMATION	
	Open	Depth	Counts	Filtered	Net	Jar #	Jar #
Start	1100	0			transit	Formalin	Alcohol
Net 0	11:08	1	no resp	150	3m 42m	Net 0	
Net 1	11:13	2	✓	100		Net 1	
Net 2	11:15	3	✓		transit	Net 2	
Net 3	11:20	4	✓	150		Net 3	
Net 4	11:24	5	✓	100	17	Net 4	
Net 5	11:26	6	✓	150	- transit	Net 5	
Net 6	11:29	7	✓	150	Surf	Net 6	
Net 7	11:33	8	✓	100		Net 7	
Net 8						Net 8	
Closed	1135		✓				

Surf enr. 1 m

COMMENTS: Net 8 (100mm) ripped out.
30 m/min out Milkcrate very tangled
15 m/min in up in head of nets
also ripped a bit.
Too rough for tow?

MOCNESS DATA SHEET

40° 23.9
70° 49.9
89m

Cruise RB1904 Location AG Tow # 2

Date 5-14-19 Wind Speed light Direction _____

Year/Day _____ Sea State 2

Local Time _____ to _____ Start Lat _____ Long _____

Seas much calmer
~ 4' swell

GMT Time _____ to _____ End Lat _____ Long _____

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

Processed MOC2.PRO Raw Filename MOC2.raw
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 0	9:50 (2)						
Down	10:06	NO NR	Transit to	49m	150	Net 0	
Net 1	10:11	✓				Net 1	
Net 2		✓			100	Net 2	
Net 3	10:13	✓	Transit to	19m	150	Net 3	
Net 4	10:19	✓			150	Net 4	
Net 5	10:23	✓			100	Net 5	
Net 6	10:25	✓			150	Net 6	
Net 7	10:28	✓			150	Net 7	
Net 8	10:32	✓			100	Net 8	
Closed	10:34	✓					

COMMENTS:

#8 net blew out again - near the same place. Defective
Net (100um) also had a 20cm tear, up near mouth opening -
#5 repaired, but not a good, strong repair job.

MOCNESS DATA SHEET

40° 08.278
070° 49.936

Cruise R31904 Location _____ Tow # (3)

Date 5/15/19 Wind Speed < 10 kt. Direction _____

Year/Day _____ Sea State calm / ~ 1 m swell ~ 130 m depth

Local Time 0915 to _____ Start Lat _____ Long _____

GMT Time 1315 to 1405 End Lat _____ Long _____

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

Processed MOC3 Raw Filename MOC3
Filename _____

Ø m
56 m
80 m

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 0	Open	Depth	Counts	Filtered	Net	Jar #	Jar #
Net 0	0917	0 → 80			0-		
Net 1	0933	N.N.R.			2 Jar		
Net 2	0938	✓			5		
Net 3	0940	✓			transit		
Net 4	0945	✓			56		
Net 5	0949	✓					
Net 6	0951	✓			3 transit		
Net 7	0959	✓			- surf (2.5 m)		
Net 8	1003	✓					
Closed							

COMMENTS: _____

MOCNESS DATA SHEET

Cruise RB1904 Location A18 Tow # (4)

Date 5/16/2019 Wind Speed ~10kt. Direction _____

Year/Day _____ Sea State calm

Local Time 0701 to _____ Start Lat _____ Long _____

39° 37.215

GMT Time _____ to _____ End Lat _____ Long _____

70° 49.804

Net Size 4m Net Condition _____

Net Mesh 150/100um

Processed MOC 4. PRO Raw Filename MOC4.raw
 Filename _____

Check for - no
 LAT/LON 12th/10m

USB cable
 connector
 not
 seated!

NET TOW INFORMATION

Time Angle Flow Volume MWO
 Open Depth Counts Filtered Net

SAMPLE INFORMATION

Jar # Jar #

Start	Time	Angle	Flow	Volume	MWO
Net 0	Open	Depth	Counts	Filtered	Net
Net 0	0655	0-21m			
Net 1	0715	21m		(150)	
Net 2	0719	21m		(100)	
Net 3	0721	TRANSIT			
Net 4	0725	Ø (150um)			21m
Net 5	0729	Ø (100)			
Net 6	0731	close			
Net 7					
Net 8					
Closed					

Formalin Alcohol

Net 0	_____
Net 1	_____
Net 2	_____
Net 3	_____
Net 4	_____
Net 5	_____
Net 6	_____
Net 7	_____
Net 8	_____

COMMENTS:

STBD stand pulled off @ launch.

MOCNESS DATA SHEET

Cruise RB 1904 Location A9 Tow # 5

Date 5/17/19 Wind Speed < 10, Sunny Direction _____

Year/Day _____ Sea State Calm, low swell

Local Time ~~14~~ to _____ Start Lat _____ Long _____

GMT Time 14 to _____ End Lat _____ Long _____

40 12
70 49
NOT LAT/LON again.

Net Size _____ Net Condition _____
Net Mesh _____

0
22
31

Processed MOC 5 Raw Filename MOC 5
Filename _____

1110 - deploy

NET TOW INFORMATION

Time Angle Flow Volume MWO
Open Depth Counts Filtered Net

SAMPLE INFORMATION

Jar # Jar #

Start Net	Time	Angle	Flow	Volume	MWO
Down	Open	Depth	Counts	Filtered	Net
Net 0	1111				Transit
Net 1	1127	NWR		34m	150m
Net 2	1131	NWR		34m	100m
Net 3	1134	✓		Transit	150
Net 4	1138	✓		22m	150
Net 5	1143	✓		22m	100m
Net 6	1145	✓		transit	150m
Net 7	1148	✓		0.5 → 0	150m
Net 8	1152	✓			10
Closed					

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 RB1904 Location NS10 Tow # 6

Date 5/18/2019 Wind Speed _____ Direction _____

Year/Day _____ Sea State _____

Local Time _____ to _____ Start Lat _____ Long ~~_____~~

GMT Time 19:15 to 20:15 End Lat _____ Long ~~_____~~

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

Processed MOC 6 Raw Filename MOC 6
 Filename _____

40° 0.76
 71° 4.998

282m

0 m
 30 m
 60 m

NET TOW INFORMATION

SAMPLE INFORMATION

Time Angle Flow Volume MWO
 Open Depth Counts Filtered Net

Jar # Jar #

Start Net 0 150 1541 transit to 60m Formalin Alcohol

Down Net 1 150 1547 Net 0 _____

Net 2 ~~X~~ 1551 ✓ Net 1 _____

Net 3 150 1552 ✓ transit to 30m Net 2 _____

Net 4 150 1557 ✓ Net 3 _____

Net 5 100um 1601 ✓ Net 4 _____

Net 6 150um 1604 ✓ Net 5 _____

Net 7 150um 1607 ✓ ~2.5m = surface Net 6 _____

Net 8 ~~X~~ 1611 ✓ Net 7 _____

Closed Net 8 _____

COMMENTS: _____

MOCNESS DATA SHEET

Cruise RB1904 Location ALB Tow # 7

Date 5/19/19 Wind Speed _____ Direction _____

Year/Day _____ Sea State calm, low chop

Local Time 1917^(L) to _____ Start Lat _____ START
~~Long~~ 40.16

GMT Time 1317^(Z) to _____ End Lat _____ Long 7049.40

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

Processed _____ Raw Filename _____
 Filename _____

40.01
 70.83
 0
 14
 29

NET TOW INFORMATION

Time Angle Flow Volume MWO
 Open Depth Counts Filtered Net

Start	Time	Angle	Flow	Volume	MWO
Net 0	Open	Depth	Counts	Filtered	Net
Net 0	1317 deploy 0917		transit	N.R.	150
Net 1	0928	29			150
Net 2	0932	29	✓		0
Net 3	0933		transit	✓	150
Net 4	0936		mid sample	✓	150
Net 5	0940		mid sample	✓	100
Net 6	0942		transit	✓	150
Net 7	0945		surf sample	✓	150
Net 8	0949		free	✓	0
Closed					

SAMPLE INFORMATION

Jar #	Jar #
Formalin	Alcohol
Net 0	
Net 1	
Net 2	
Net 3	
Net 4	75C, 33.2%
Net 5	
Net 6	
Net 7	
Net 8	

COMMENTS:

19.8 V battery level

MOCNESS DATA SHEET

Cruise RB1904 Location A18 Tow # 8

Date 5/20/19 Wind Speed 7.8 kt Direction _____

Year/Day _____ Sea State low chgs

Local Time 1440 to _____ Start Lat 39.3602 Long 70 49.85

GMT Time 0640 to _____ End Lat _____ Long _____

Net Size _____ Net Condition _____
 Net Mesh _____

Processed MOC8 Raw Filename MOC8
 Filename _____

39 37.1
70 49.7

0
32
45

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 → 45		214 m ³	48 m		
Net 1	1455	45 → 45	✓	95	95		
Net 2	1459	X	✓	31	31		
Net 3	1500	NNR transit	45 → 32	71	71		
Net 4	1503	NNR 32-32 m	(150)	114	114 39°		
Net 5	1507	NNR 32-32	(100)	91	91		
Net 6	1510	NNR transit	32 → 1		late incr 4 net		
Net 7	1514	surf.	✓	67 m ³	45-48°		
Net 8	1517	X	✓	51	transit no net		
Closed							

COMMENTS: _____

MOCNESS DATA SHEET

Cruise RB1904 Location A18 Tow # 9

Date 5/21/19 Wind Speed _____ Direction _____

Year/Day _____ Sea State 2-4 swells

Local Time 636 to 70 Start Lat 39° 37.2 Long 70° 49.8

GMT Time 1857 to _____ End Lat _____ Long _____

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

Processed MOC9.pro Raw Filename MOC9.raw
 Filename

39 37,201
70 49.807

0 m
41 m
62 m

NET TOW INFORMATION

	Time	Angle	Flow	Volume	MWO	SAMPLE INFORMATION		
						Open	Depth	Counts
Start	0 → 62	06:57		187 m ³				
Net 0								
Down								
Net 1	62 → 62 (150m)	07:05		92 m ³				
Net 2	X	07:10 ✓		11				
Net 3	62 → 41	7:10 ✓		117 m ³				
Net 4	41 → 41 (150m)	07:15 ✓		93 m ³				
Net 5	41 → 41 (100m)	07:19 ✓		50 m ³				
Net 6	41 → 0 tram	07:22 ✓		108				
Net 7	0 → 0 (150)	07:27 ✓		91 m ³				
Net 8	X	07:31 ✓		6				
Closed								

BAF = 19.9 v

COMMENTS:

7.378 Flow Cal.

MOCNESS DATA SHEET

Cruise R81904 Location A8 Tow # 10

Date 5/22/2019 Wind Speed Lt. Direction _____

Year/Day Sunny Sea State Low chop 113 m bot. (Z)

Local Time _____ to _____ Start Lat _____ Long _____

GMT Time _____ to _____ End Lat _____ Long _____

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

40° 16.25
70° 49.90

0
27
40 m

Processed MOC 10 Raw Filename MOC10
 Filename _____

16:37 deploy

NET TOW INFORMATION

Time	Angle	Flow	Volume	MWO
Open	Depth	Counts Filtered	Net	

SAMPLE INFORMATION

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

Start Net 0	0 → 40 (150m)	1237	local
Net 1	40 → 40 (150)	1243	
Net 2	X	1247	✓
Net 3	40 → 27 Trans.	1248	✓
Net 4	27 → 27 (150)	1252	✓
Net 5	27 → 27 (100)	1256	✓
Net 6	27 → surf. Transit	1258	✓
Net 7	surf → surf. (150)	1302	✓
Net 8	X	1307	✓

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

7°C
10°C
32.3%

Closed

COMMENTS: 19.8V 1310 - retrieval

MOCNESS DATA SHEET

Cruise RB1904 Location NSA Tow # 11

Date 5/23/19 Wind Speed _____ Direction _____

Year/Day _____ Sea State calm

Local Time 2010 to _____ Start Lat _____ Long _____

GMT Time 0010 to _____ End Lat _____ Long _____

40.006
71.007
40° 00P
- 70° 999

Net Size _____ Net Condition _____
Net Mesh _____

Processed MOC11 Raw Filename MOC11
Filename _____

8
10
20

NET TOW INFORMATION

Time Angle Flow Volume MWO
Open Depth Counts Filtered Net

Start Net 0 0 → 20 transit 2011
Down _____
Net 1 20 → 20 (150) 2014 nnr
Net 2 X 2019 ✓
Net 3 20 → 10 transit 2019 ✓
Net 4 10 → 10 (150) 2020 ✓
Net 5 10 → 10 (100) 2026 ✓
Net 6 transit 10 → 1 2028 ✓
Net 7 1 → 1 (150) 2030 ✓
Net 8 X 2034 ✓
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 _____

19.6 ✓

COMMENTS: _____

MOCNESS DATA SHEET

#2 Nbd.

Cruise RB 1909 Location NSA Tow # 12

Date 5/24/19 GMT Wind Speed _____ Direction _____

Year/Day _____ Sea State 4-6' CALIBRATION

Local Time 21:42 to 1302 Start Lat _____ Long _____

GMT Time ~~21:42~~ to _____ End Lat _____ Long _____

Net Size 150/100 Net Condition _____

Net Mesh _____ CALIBRATION -

01:40 (Z)
deploy

.5 NM

Processed CAL. PRO Raw Filename CAL PRO

#1

31m

40.00.553
70.59.779
40.00.045
70.59.874

NET TOW INFORMATION

Time Angle Flow Volume MWO
Open Depth Counts Filtered Net

SAMPLE INFORMATION

Jar # Jar #

S bnd.

Start	Time	Angle	Flow	Volume	MWO	Formalin	Alcohol
Net 0	Open	Depth	Counts	Filtered	Net	Jar #	Jar #
Net 0				52 cts	42 deg.		
Down						Net 0	
Net 1				248	234	Net 1	
Net 2	22:00			= 196 cts.	1st pass	Net 2	
Net 3						Net 3	
Net 4	22:13			0 ct	11 m depth	Net 4	
Net 5	22:21			157 ct.	64 deg.	Net 5	
Net 6						Net 6	
Net 7						Net 7	
Net 8						Net 8	
Closed							

COMMENTS:

MOCNESS DATA SHEET

Cruise RB1904 Location NSC Tow # 13

3952.0P
7100.023

Date 5/24/19 Wind Speed _____ Direction _____

Year/Day _____ Sea State _____

Local Time _____ to _____ Start Lat _____ Long _____

GMT Time 0950 to _____ End Lat _____ Long _____

5/24/19

Net Size 1/2m Net Condition _____

Net Mesh 100, 150um

0
20
30

Processed MOC13 Raw Filename MOC13
Filename _____



NET TOW INFORMATION

Time Angle Flow Volume MWO
Open Depth Counts Filtered Net

SAMPLE INFORMATION

Jar # Jar #

Time	Angle	Flow	Volume	MWO
Open	Depth	Counts	Filtered	Net
Start	0 → 30m transit	0552		
Net 0		0555	nwr	
Down				
Net 1	30 → 30 (150um)	0559	✓	
Net 2	X	0600	✓	
Net 3	30 → 20 transit	0602	✓	
Net 4	20 → 20 (150um)	0606	✓	
Net 5	20 → 20 (150um)	0608	✓	
Net 6	20 → 10 transit	0611	✓	
Net 7	10 → 10 (150um)	0615	✓	
Net 8	X	0616		
Closed				

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

COMMENTS: 19.6V