

And Super-Geof (surface samples) = "Fish"

Acropak-200 Cast Sheet	
<b>SUPER STATION</b>	
Station #	<u>Station 1</u>
Deep, Mid, Shallow,	<u>Shallow</u>
Cast #	<u>5</u>
Event #	<u>4016</u>
Date	<u>10/29/13</u>
ODF Salinity Box	<u>D</u>
ODF Nutrients Rack	<u>White</u>

Sampling Order	
ODF Salinity	250 mL
ODF Nutrients	30 mL
Resing - Al	100 mL Fish
Resing - Mn	100 mL Fish
Saito, Co no headspace	2 x 60mL Fish
Sedwick - dFe	2 x 125mL Fish
Shiller - Ga <del>moffett - Fe(II)</del>	125 mL Fish
Barbeau - Fe sp freeze	900 mL fish
Buck - Fe sp freeze	450 mL Fish
Bruland - metals	500 mL Fish
Wu - metals	500 mL Fish
Wu - colloids	500 mL Fish
<del>Moffett - Zn shallow</del>	250 mL
Flegal - Pb shallow	1000 mL Fish
<del>Boyle - Pb mid/deep</del>	2000 mL Fish
John - isos shallow	4000 mL Fish
<del>John - isos mid/deep</del>	1000 mL
Aguilar - Islas - soan? <u>(Fish only for Ag)</u>	

Geotraces 2104	Geotraces 2106	Geotraces 2108
Acropak: <u>C</u>	Acropak: <u>C</u>	Acropak: <u>C</u>
Sampler: <u>CZ</u>	Sampler: <u>CZ</u>	Sampler: <u>CZ</u>
Depth: <u>375</u>	Depth: <u>300</u>	Depth: <u>260</u>
Caro Pos: <u>2/1</u>	Caro Pos: <u>4/3</u>	Caro Pos: <u>6/5</u>
Notes: <u>GT 2104</u>	Notes: <u>GT 2106</u>	Notes: <u>GT 2108</u>

Geotraces 2112	Geotraces 2114
Acropak: <u>C</u>	Acropak: <u>C</u>
Sampler: <u>CZ</u>	Sampler: <u>CZ</u>
Depth: <u>235</u>	Depth: <u>180</u>
Caro Pos: <u>8/7</u>	Caro Pos: <u>12/11</u>
Notes: <u>Geotraces # 2110</u>	Notes: <u>GT 2114</u>

  

Geotraces 2116	Geotraces 2118	Geotraces 2120
Acropak: <u>D</u>	Acropak: <u>D</u>	Acropak: <u>D</u>
Sampler: <u>CP</u>	Sampler: <u>CP</u>	Sampler: <u>CP</u>
Depth: <u>130</u>	Depth: <u>80</u>	Depth: <u>65</u>
Caro Pos: <u>14/13</u>	Caro Pos: <u>16/15</u>	Caro Pos: <u>18/17</u>
Notes: <u>GT 2116</u>	Notes: <u>GT 2118</u>	Notes: <u>GT 2120</u>

Geotraces 2122	Geotraces 2124	Geotraces 2126
Acropak: <u>D</u>	Acropak: <u>D</u>	Acropak: <u>D</u>
Sampler: <u>CP</u>	Sampler: <u>CP</u>	Sampler: <u>CP</u>
Depth: <u>45</u>	Depth: <u>30</u>	Depth: <u>20</u>
Caro Pos: <u>20/19</u>	Caro Pos: <u>22/21</u>	Caro Pos: <u>24/23</u>
Notes: <u>GT 2122</u>	Notes: <u>GT 2124</u>	Notes: <u>GT 2126</u>

"Fish" samples are Event 4014 GT# 2091

MCS: changed Caro. Posn. to odds 10/30/2013

# Geotraces R/V Thompson Membrane Sample Log

Sample Date: 10/29/13  
 UTC Start: 1451  
 UTC End: 1544

Station/Cast: <u>ST1 / Cast 6</u>	GT Event #: <u>4016</u>						Notes: <u>DCM = 30m</u>					
allow/Mid/Deep (circle one)	ODF Nuts: <u>White</u>						Samplers: <u>LCR/SR/RS</u>					
	ODF Salts: <u>D</u>											
Geotraces #:	<u>2127</u>	<u>2125</u>	<u>2123</u>	<u>2121</u>	<u>2119</u>	<u>2117</u>	<u>2115</u>	<u>2113</u>	<u>2111</u>	<u>2109</u>	<u>2107</u>	<u>2105</u>
GoFlo Number:	<u>36</u>	<u>30</u>	<u>28</u>	<u>26</u>	<u>24</u>	<u>18</u>	<u>16</u>	<u>10</u>	<u>8</u>	<u>6</u>	<u>4</u>	<u>2</u>
Depth (m):	<u>20</u>	<u>30</u>	<u>45</u>	<u>65</u>	<u>80</u>	<u>130</u>	<u>180</u>	<u>210</u>	<u>235</u>	<u>260</u>	<u>300</u>	<u>375</u>
Filter Holder #:	<u>24</u>	<u>23</u>	<u>22</u>	<u>21</u>	<u>20</u>	<u>19</u>	<u>18</u>	<u>17</u>	<u>16</u>	<u>25</u>	<u>14</u>	<u>13</u>
Filter diameter (mm):	<u>25</u>	<u>25</u>	<u>25</u>	<u>25</u>	<u>25</u>	<u>25</u>	<u>25</u>	<u>25</u>	<u>25</u>	<u>25</u>	<u>25</u>	<u>25</u>
Filtered Volume (L)	<u>2.4</u>	<u>2.2</u>	<u>2.0</u>	<u>1.8</u>	<u>1.6</u>	<u>1.4</u>	<u>1.2</u>	<u>1.0</u>	<u>0.8</u>	<u>0.6</u>	<u>0.4</u>	<u>0.2</u>
Waste:	<u>0.180</u>	<u>0.36</u>	<u>0.78</u>	<u>1.09</u>	<u>1.00</u>	<u>0.92</u>	<u>2.86</u>	<u>3.74</u>	<u>3.50</u>	<u>3.86</u>	<u>3.72</u>	<u>4.34</u>
Drawn:	<u>1.90</u>	<u>1.70</u>	<u>2.625</u>	<u>3.815</u>	<u>2.875</u>	<u>3.825</u>	<u>3.815</u>	<u>3.815</u>	<u>3.815</u>	<u>3.815</u>	<u>3.815</u>	<u>3.815</u>
Total:	<u>2.08</u>	<u>2.06</u>	<u>3.405</u>	<u>4.905</u>	<u>3.875</u>	<u>4.745</u>	<u>6.675</u>	<u>7.555</u>	<u>7.315</u>	<u>7.675</u>	<u>7.535</u>	<u>8.155</u>
Start Time:	<u>540</u>	<u>534</u>	<u>530</u>	<u>527</u>	<u>520</u>	<u>518</u>	<u>516</u>	<u>512</u>	<u>510</u>	<u>458</u>	<u>456</u>	<u>453</u>
End Time:	<u>All 2.0 hrs - 2.5 hrs except 2nd filters #26, 27, 28</u>											

## Supor Membrane 0.45 µm

Notes: \* All Filtered Samples = 3.815L

Duplicate sequential filters

2127 → FH#27 Total V = 1.625 L

2125 → FH#26 Vol<sub>T</sub> = 1.35 L

2119 → FH#28 Vol<sub>T</sub> = 1.07 L

2109, 2107, 2105 → Filtered ~ 5 min before Shaking

\* 2109, 2107, 2105 T, Hg came after As/Sb that

Se Bottle used Aeropaks:

2127 → Vol<sub>T</sub> = 100mL      2119 → Vol<sub>T</sub> = 0.756 (0.25 new membrane)

2125 → Vol<sub>T</sub> = 100mL      2117 → Vol<sub>T</sub> = 0.19L (1L went to membrane)

Sampling Order:

Redox:

Pressurize

Cutter (S) 60mL (Syr.)

Cutter (I) 60mL (Syr.)

Moffett(Fe) 60mL (Syr.)

Unfiltered:

ODF Nuts 1 x 30mL

ODF Salts . x 250mL

Shake

Twining-Surface 1 x 2000 - 20m

Twining-DCM . x 250mL - 30m

Part. Membrane:

Hammerschmidt 1x 2000

Lamborg (T. Hg) 1 x 250

Cutter (Nnuts) 1 x 125

Cutter (As/Sb) 1 x 250

Cutter (Se) 1 x 1190