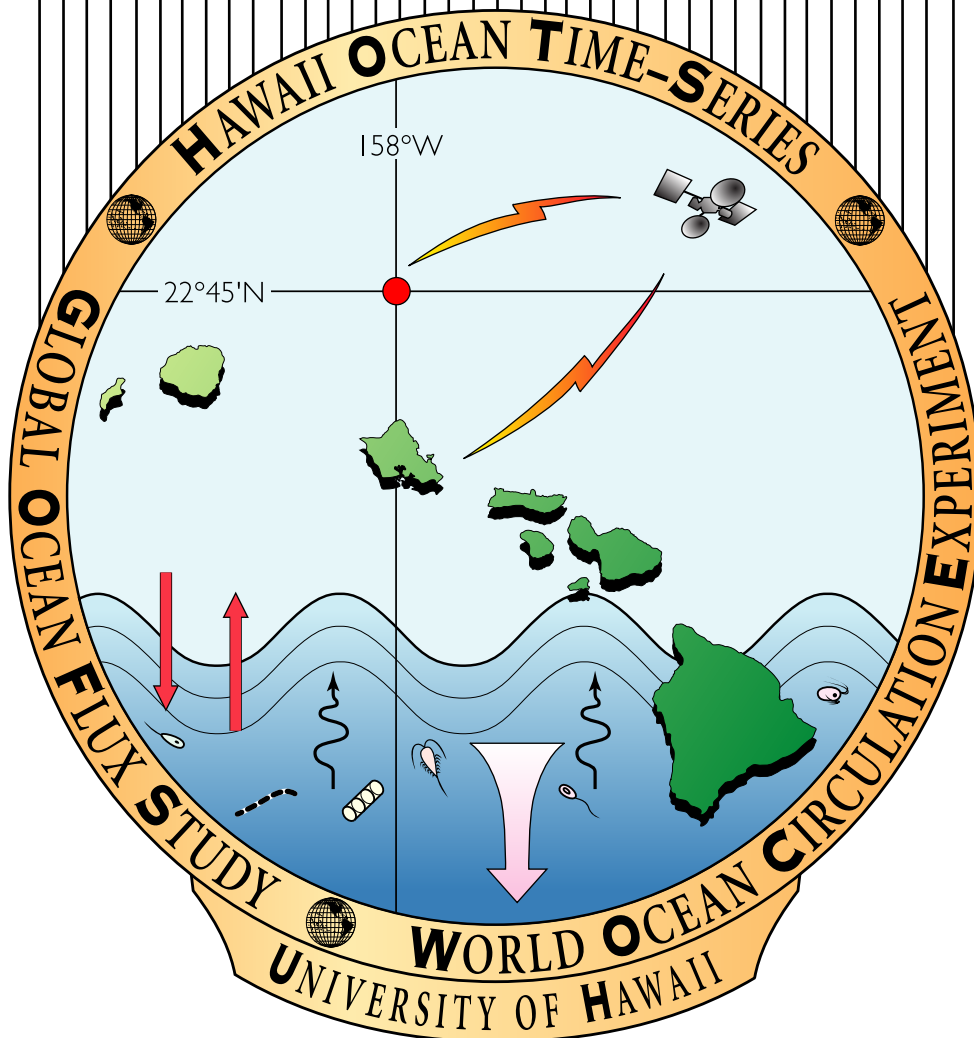


Hawaii Ocean Time-series Program

# HOT-205



# Hawaiian Ocean Time-Series

## HOT-205

### KAHE Station Data Sheet

Station # 1  
 Cast # 1  
 Operator(s): AH,LF,JW,SC,KB,DS

Date: 10/9/08 (HST)  
 Time: 1313 (HST)

Rosette Position	Desired Depth	Oxygen	Sample Temp.	Nuts	DIC/Alk	pH	DOC	LLN/LLP	Chl <i>a</i>	FCM
<b>1</b>	<b>1000</b>	<b>1</b>	7.6	1						
<b>2</b>	<b>900</b>	<b>2</b>	7.9	2						
<b>3</b>	<b>900</b>	<b>3</b>	8.0	3						
<b>4</b>	<b>750</b>	<b>4,5,6</b>	9.0	4A-B						
<b>5</b>	<b>700</b>	<b>7</b>	8.8	5						
<b>6</b>	<b>600</b>	<b>8</b>	9.0	6						
<b>7</b>	<b>500</b>	<b>9</b>	10.1	7			7			
<b>8</b>	<b>400</b>	<b>10</b>	11.6	8						
<b>9</b>	<b>350</b>	<b>11</b>	13.2	9A-B			9			
<b>10</b>	<b>300</b>	<b>12</b>	14.8	10						
<b>11</b>	<b>250</b>	<b>13</b>	16.3	11						
<b>12</b>	<b>225</b>	<b>14</b>	17.3	12						
<b>13</b>	<b>200</b>	<b>15</b>	18.2	13			13			
<b>14</b>	<b>175</b>	<b>16</b>	19.2	14			14		14	14A-B
<b>15</b>	<b>150</b>	<b>17</b>	20.8	15			15	15	15	15A-B
<b>16</b>	<b>125</b>	<b>18</b>	22.6	16A-B			16		16	16A-B
<b>17</b>	<b>115</b>	<b>19</b>	23.4	17						
<b>18</b>	<b>100</b>	<b>20,26,27</b>	23.4	18			18	18	18A-B	18A-B
<b>19</b>	<b>75</b>	<b>21</b>	23.7	19			19		19	19A-B
<b>20</b>	<b>60</b>	<b>22</b>	25.6	20						
<b>21</b>	<b>45</b>	<b>23</b>	26.5	21	21	2	21	21	21	21A-B
<b>22</b>	<b>25</b>	<b>24</b>	26.6	22	22	5	22		22A-B	22A-B
<b>23</b>	<b>5</b>	<b>25</b>	27.0	23	23	4	23	23	23	23A-B
<b>24</b>	<b>5</b>	<b>QC</b>	26.7							

Notes: JB pb on oxygen, CMORE education sample 750m, 25m ,5m.

# Hawaiian Ocean Time-series

## HOT- 205

### OPEN CAST Data Sheet

Station # 2  
 Cast # 1  
 Operator(s): SC, KB, DS

Date: 10-10-08 (HST)  
 Time: 0000 (HST)

Rosette Position	Desired Depth	CMORE	SW				
1	75	X					
2	75	X					
3	75	X					
4	75	X					
5	75	X					
6	45	X					
7	45	X					
8	45	X					
9	45	X					
10	45	X					
11	25	X					
12	25	X					
13	25	X					
14	25	X					
15	25	X					
16	25		X				
17	25		X				
18							
19							
20							
21							
22							
23							
24							

**Notes:**

# Hawaiian Ocean Time-series

## HOT-205

### Primary Production Data Sheet

Station # 2  
 Cast # 2  
 Operator(s): SC, DS, KB, BU, BL

Date: 10-10-08 (HST)  
 Time: 23:30 (HST)

Rosette Position	Desired Depth	Light Bottle	Chl <i>a</i>	FCM	MB	KB	SW
1	<b>1000</b>						
2	<b>Sal min</b>						
3	<b>175</b>		3A-B	3A-B	X	X	
4	<b>150</b>		4A-B	4A-B	X	X	
5	<b>125</b>	3-1	5	5	X	X	
6	<b>125</b>	3-2	6	6			
7	<b>125</b>	3-3	7	7			
8	<b>100</b>	4-1	8	8	X		
9	<b>100</b>	4-2	9	9		X	
10	<b>100</b>	4-3	10	10			
11	<b>75</b>	5-1	11	11	X		
12	<b>75</b>	5-2	12	12		X	
13	<b>75</b>	5-3	13	13			
14	<b>45</b>	6-1	14	14	X		
15	<b>45</b>	6-2	15	15		X	
16	<b>45</b>	6-3	16	16			
17	<b>25</b>	7-1	17	17	X		
18	<b>25</b>	7-2	18	18		X	
19	<b>25</b>	7-3	19	19			
20	<b>25</b>						x
21	<b>25</b>						x
22	<b>5</b>	8-1	22	22	X		
23	<b>5</b>	8-2	23	23		X	
24	<b>5</b>	8-3	24	24			

**Notes: MB will piggy back all PP depths. PLEASE SAMPLE PP FIRST and CONSERVE WATER!!**

# Hawaiian Ocean Time-series

## HOT-205

### WOCE Deep Data Sheet

Station # 2  
 Cast # 3  
 Operator(s): AH,LF,JW

Date: 10/10/08 (HST)  
 Time: 0500 (HST)

Rosette Position	Desired Depth	Oxygen	Sample Temp.	Nutrient	Refridg. Si	DOC	DIC/Alk	pH	KIM	JB CFC
<b>1</b>	<b>4800</b>	<b>28</b>	<b>3.8</b>	<b>1</b>	<b>1</b>				<b>185</b>	<b>290,30</b>
<b>2</b>	<b>4600</b>	<b>29</b>	<b>3.5</b>	<b>2</b>	<b>2</b>					<b>274</b>
<b>3</b>	<b>4500</b>	<b>30,31, 32</b>	<b>4.0</b>	<b>3A-B</b>	<b>3A-B</b>	<b>3A-B</b>	<b>3A-B</b>	<b>3A-B-C</b>		<b>275</b>
<b>4</b>	<b>4400</b>	<b>33</b>	<b>3.8</b>	<b>4</b>	<b>4</b>					<b>298</b>
<b>5</b>	<b>4200</b>	<b>34</b>	<b>3.6</b>	<b>5</b>	<b>5</b>				<b>195</b>	<b>308</b>
<b>6</b>	<b>4000</b>	<b>35,36, 37</b>	<b>4.4</b>	<b>6A-B</b>	<b>6A-B</b>	<b>6A-B</b>				<b>282</b>
<b>7</b>	<b>3800</b>	<b>38</b>	<b>4.1</b>	<b>7</b>	<b>7</b>					<b>280</b>
<b>8</b>	<b>3600</b>	<b>39</b>	<b>4.5</b>	<b>8</b>	<b>8</b>				<b>297</b>	<b>266</b>
<b>9</b>	<b>3400</b>	<b>40</b>	<b>4.7</b>	<b>9</b>	<b>9</b>					<b>302,18</b>
<b>10</b>	<b>3200</b>	<b>41</b>	<b>4.4</b>	<b>10</b>	<b>10</b>					<b>285</b>
<b>11</b>	<b>3000</b>	<b>42,43 44</b>	<b>5.3</b>	<b>11A-B</b>	<b>11A-B</b>	<b>11A-B</b>	<b>11</b>	<b>11</b>		<b>283</b>
<b>12</b>	<b>2800</b>	<b>45</b>	<b>5.1</b>	<b>12</b>	<b>12</b>				<b>300</b>	<b>167</b>
<b>13</b>	<b>2600</b>	<b>46</b>	<b>4.9</b>	<b>13</b>	<b>13</b>					<b>286</b>
<b>14</b>	<b>2400</b>	<b>47</b>	<b>5.0</b>	<b>14</b>	<b>14</b>					<b>256</b>
<b>15</b>	<b>2200</b>	<b>48</b>	<b>5.0</b>	<b>15</b>	<b>15</b>				<b>406</b>	<b>270</b>
<b>16</b>	<b>2000</b>	<b>49,50, 51</b>	<b>6.9</b>	<b>16A-B</b>	<b>16A-B</b>	<b>16A-B</b>	<b>16</b>	<b>16</b>		<b>279</b>
<b>17</b>	<b>1800</b>	<b>52</b>	<b>6.1</b>	<b>17</b>	<b>17</b>					<b>301</b>
<b>18</b>	<b>1600</b>	<b>53</b>	<b>6.4</b>	<b>18</b>	<b>18</b>				<b>420</b>	<b>288</b>
<b>19</b>	<b>1400</b>	<b>54</b>	<b>6.4</b>	<b>19</b>	<b>19</b>					<b>263</b>
<b>20</b>	<b>1200</b>	<b>55</b>	<b>7.6</b>	<b>20</b>	<b>20</b>					<b>278</b>
<b>21</b>	<b>1000</b>	<b>56</b>	<b>7.8</b>	<b>21</b>						<b>283</b>
<b>22</b>	<b>750</b>	<b>57</b>	<b>8.3</b>	<b>22</b>					<b>440</b>	<b>296</b>
<b>23</b>	<b>500</b>	<b>58</b>	<b>10.5</b>	<b>23</b>						<b>262</b>
<b>24</b>	<b>5</b>	<b>59</b>	<b>25.6</b>	<b>24</b>					<b>457</b>	<b>286,29</b>

Notes: \*8-22 VALVES WERE LOOSE, 20 END CAP WAS LEAKING\*\*

# Hawaiian Ocean Time-series

## HOT-205

### PO Shallow Data Sheet

Station # 2  
 Cast # 4  
 Operator(s): AH,LF,JW

Date: 10/10/08 (HST)  
 Time: \_\_\_\_\_ (HST)

Rosette Position	Desired Depth	Oxygen	Sample Temp.	Nutrient	Refridg Si	DIC/ Alk	pH	DOC	CFC
<b>1</b>	<b>990</b>	60,61, 62	6.7	1A-B	1A-B	1	1	1	267
<b>2</b>	<b>955</b>	63	6.2	2	2				
<b>3</b>	<b>920</b>	64	6.4	3	3				255
<b>4</b>	<b>885</b>	65	6.5	4	4				
<b>5</b>	<b>850</b>	66	6.6	5	5				299
<b>6</b>	<b>804</b>	67,68, 69	6.9	6	6				
<b>7</b>	<b>758</b>	70	7.3	7	7	7	7	7	282
<b>8</b>	<b>720</b>	71	7.2	8	8				
<b>9</b>	<b>680</b>	72	7.8	9	9				296
<b>10</b>	<b>645</b>	73	7.8	10	10				
<b>11</b>	<b>605</b>	74	8.1	11A-B	11A-B	11	11	11	293
<b>12</b>	<b>560</b>	75	8.4	12	12				
<b>13</b>	<b>506</b>	76,77, 78	8.7	13	13	13	13	13	288
<b>14</b>	<b>463</b>	79	9.3	14	14				
<b>15</b>	<b>408</b>	80	10.7	15	15				
<b>16</b>	<b>358</b>	81	13.1	16	16	16A-B	16A-B	16	269
<b>17</b>	<b>325</b>	82	13.3	17	17				
<b>18</b>	<b>257</b>	83,84, 85	16.9	18	18	18	18	18	278
<b>19</b>	<b>190</b>	86	20.1	19	19				
<b>20</b>	<b>155</b>	87	21.2	20A-B					
<b>21</b>	<b>122</b>	88	22.3	21					111
<b>22</b>	<b>85</b>	89	23.3	22					
<b>23</b>	<b>62</b>	90	24.7	23					286
<b>24</b>	<b>10</b>	91	25.6	24					292

Notes: JB pb on oxygen

# Hawaiian Ocean Time-series

## HOT- 205

### PC/PN Data Sheet

Station # 2 Date: 10/10/08 (HST)  
 Cast # 5 Time: 1400 (HST)  
 Operator(s): AH,LF,JW Pre-screen mesh size: 202 um  
 Blank #'s B1 B2 B3

Rosette Position	Desired Depth	Carboy #	Total Volume	Sample #	SW	BL	
1	<b>1000</b>						
2	<b>Sal min</b>						
3	<b>350</b>	1	10	3			
4	<b>350</b>	2	10	4			
5	<b>250</b>	3	10	5			
6	<b>200</b>	4	10	6			
7	<b>175</b>	5	10	7			
8	<b>175</b>				X		
9	<b>150</b>	6	10	9			
10	<b>150</b>				X		
11	<b>125</b>	7,8	4,4	11A-B			
12	<b>125</b>				X		
13	<b>100</b>	9	4	13			
14	<b>100</b>				X		
15	<b>75</b>	10	4	15			
16	<b>75</b>				X		
17	<b>45</b>	11	4	17			
18	<b>45</b>				X		
19	<b>45</b>					X	
20	<b>25</b>	12,13	4,4	19A-B			
21	<b>25</b>				X		
22	<b>25</b>					X	
23	<b>5</b>	14	4	21			
24	<b>5</b>				X		

Notes:

# Hawaiian Ocean Time-series

## HOT- 205

### Particulate Phosphorus Data Sheet

Station # 2 Date: 10-10-08 (HST)  
 Cast # 6 Time: 1630 (HST)  
 Operator(s): SC, KB, DS Pre-screen mesh size: 202 um  
 Blank #'s B1 B2 B3

Rosette Position	Desired Depth	Carboy #	Total Volume	Sample #	DS		
1	<b>1000</b>						
2	<b>1000</b>				X		
3	<b>1000</b>				X		
4	<b>Sal min</b>						
5	<b>350</b>	<b>1</b>	10	<b>5</b>			
6	<b>350</b>	<b>2</b>	10	<b>6</b>			
7	<b>250</b>	<b>3</b>	10	<b>7</b>			
8	<b>200</b>	<b>4</b>	10	<b>8</b>			
9	<b>175</b>	<b>5</b>	10	<b>9</b>			
10	<b>150</b>	<b>6</b>	10	<b>10</b>			
11	<b>125</b>	<b>7,8</b>	4,4	<b>11A-B</b>			
12	<b>100</b>	<b>9</b>	4	<b>12</b>			
13	<b>75</b>	<b>10</b>	4	<b>13</b>			
14	<b>45</b>	<b>11</b>	4	<b>14</b>			
15	<b>25</b>	<b>12,13</b>	4,4	<b>15A-B</b>			
16	<b>25</b>					X	
17	<b>25</b>					X	
18	<b>5</b>	<b>14</b>	4	<b>18</b>			
19							
20							
21							
22							
23							
24							

**Notes: cb#2, sample #6 filter dropped on benchtop**



# Hawaiian Ocean Time-series

## HOT-205

### BEACH Shallow Data Sheet

Station # 2  
 Cast # 7  
 Operator(s): SC, KB, DS

Date: 10-10-08 (HST)  
 Time: 2000 (HST)

Rosette Position	Desired Depth	Oxygen	Sample Temp.	Nutrient	Refridg Si	DOC	CFC	LLN	LLP/ LLSi
<b>1</b>	<b>1000</b>	<b>92</b>	<b>8.8</b>				X		
<b>2</b>	<b>O<sub>2</sub> min</b>	<b>93</b>	<b>9.4</b>				X		
<b>3</b>	<b>Sal min</b>	<b>94</b>	<b>11.1</b>				X		
<b>4</b>	<b>200</b>	<b>95</b>	<b>18.5</b>	<b>4</b>	<b>4</b>	<b>4</b>	X		
<b>5</b>	<b>175</b>	<b>96</b>	<b>20.3</b>	<b>5</b>		<b>5</b>		<b>5</b>	<b>5</b>
<b>6</b>	<b>165</b>	<b>97</b>	<b>20.6</b>					<b>6</b>	
<b>7</b>	<b>150</b>	<b>98</b>	<b>21.1</b>	<b>7</b>		<b>7</b>	X	<b>7A-B</b>	<b>7</b>
<b>8</b>	<b>130</b>							<b>8</b>	
<b>9</b>	<b>125</b>	<b>99</b>	<b>21.8</b>	<b>9A-B</b>		<b>9</b>	X	<b>9</b>	<b>9</b>
<b>10</b>	<b>115</b>	<b>100</b>	<b>21.9</b>					<b>10</b>	<b>10</b>
<b>11</b>	<b>110</b>							<b>11</b>	
<b>12</b>	<b>100</b>	<b>101,102, 103</b>	<b>23.0</b>	<b>12</b>		<b>12</b>	X	<b>12A-B</b>	<b>12</b>
<b>13</b>	<b>90</b>							<b>13</b>	
<b>14</b>	<b>85</b>	<b>104</b>	<b>23.3</b>					<b>14</b>	<b>14</b>
<b>15</b>	<b>75</b>	<b>105</b>	<b>23.8</b>	<b>15</b>		<b>15</b>	X	<b>15</b>	<b>15</b>
<b>16</b>	<b>60</b>			<b>16</b>		<b>16</b>		<b>16</b>	<b>16</b>
<b>17</b>	<b>45</b>	<b>106</b>	<b>25.4</b>	<b>17A-B</b>		<b>17</b>		<b>17</b>	<b>17</b>
<b>18</b>	<b>35</b>			<b>18</b>		<b>18</b>		<b>18</b>	
<b>19</b>	<b>25</b>	<b>107</b>	<b>25.5</b>	<b>19</b>		<b>19</b>		<b>19</b>	<b>19</b>
<b>20</b>	<b>25</b>								
<b>21</b>	<b>15</b>			<b>21</b>		<b>21</b>		<b>21</b>	
<b>22</b>	<b>5</b>	<b>108</b>	<b>25.5</b>	<b>22</b>		<b>22</b>	X	<b>22A-</b>	<b>22</b>
<b>23</b>	<b>5</b>								
<b>24</b>									

Notes: JB pb on oxygen/DIC

# Hawaiian Ocean Time-series

## HOT-205

### BEACH Carbon Data Sheet

Station # 2  
 Cast # 7  
 Operator(s): SC, KB, DS

Date: 10-10-08 (HST)  
 Time: 2000 (HST)

Rosette Position	Desired Depth	DIC/ALK	pH	Quay DIC	Keeling DIC			
<b>1</b>	<b>1000</b>							
<b>2</b>	<b>O<sub>2</sub> min</b>							
<b>3</b>	<b>Sal min</b>							
<b>4</b>	<b>200</b>	<b>4</b>						
<b>5</b>	<b>175</b>							
<b>6</b>	<b>165</b>							
<b>7</b>	<b>150</b>	<b>7</b>	<b>2</b>					
<b>8</b>	<b>130</b>							
<b>9</b>	<b>125</b>							
<b>10</b>	<b>115</b>							
<b>11</b>	<b>110</b>							
<b>12</b>	<b>100</b>	<b>12</b>						
<b>13</b>	<b>90</b>							
<b>14</b>	<b>85</b>							
<b>15</b>	<b>75</b>	<b>15</b>	<b>4</b>					
<b>16</b>	<b>60</b>							
<b>17</b>	<b>45</b>	<b>17</b>	<b>5</b>					
<b>18</b>	<b>35</b>							
<b>19</b>	<b>25</b>	<b>19</b>	<b>6</b>					
<b>20</b>	<b>25</b>			<b>20</b>	<b>20A-B</b>			
<b>21</b>	<b>15</b>							
<b>22</b>	<b>5</b>	<b>22A-B</b>	<b>1</b>					
<b>23</b>	<b>5</b>			<b>23</b>	<b>23A-B</b>			
<b>24</b>	<b>5</b>							

**Notes: Keeling 20a:2135; 20b:2137**  
**Keeling 23a:2139; 23b:2141**  
**pH cell case dropped, two were broken**  
**-niskins 4 and 12 not sampled for pH**

# Hawaiian Ocean Time-series

## HOT-205

### PUR Data Sheet

Station # 2  
 Cast # 8  
 Operator(s): SC, DS, KB

Date: 10-10-08 (HST)  
 Time: 2315 (HST)

Rosette Position	Desired Depth	Carboy #	Total Volume	PUR	CMORE			
<b>1</b>	<b>1000</b>				X			
<b>2</b>	<b>1000</b>				X			
<b>3</b>	<b>1000</b>				X			
<b>4</b>	<b>1000</b>				X			
<b>5</b>	<b>1000</b>				X			
<b>6</b>	<b>770</b>				X			
<b>7</b>	<b>770</b>				X			
<b>8</b>	<b>770</b>				X			
<b>9</b>	<b>770</b>				X			
<b>10</b>	<b>770</b>				X			
<b>11</b>	<b>500</b>				X			
<b>12</b>	<b>500</b>				X			
<b>13</b>	<b>500</b>				X			
<b>14</b>	<b>500</b>				X			
<b>15</b>	<b>500</b>				X			
<b>16</b>	<b>Sal min</b>							
<b>17</b>	<b>175</b>	<b>1</b>	<b>10</b>	<b>17</b>				
<b>18</b>	<b>150</b>	<b>2</b>	<b>10</b>	<b>18</b>				
<b>19</b>	<b>125</b>	<b>7,8</b>	<b>4,4</b>	<b>19A-B</b>				
<b>20</b>	<b>100</b>	<b>9</b>	<b>4</b>	<b>20</b>				
<b>21</b>	<b>75</b>	<b>10</b>	<b>4</b>	<b>21</b>				
<b>22</b>	<b>45</b>	<b>11,12</b>	<b>4,4</b>	<b>22A-B</b>				
<b>23</b>	<b>25</b>	<b>3</b>	<b>10</b>	<b>23</b>				
<b>24</b>	<b>5</b>	<b>4</b>	<b>10</b>	<b>24</b>				

Notes: PO group will sample niskin #1 for salts before it is drained for CMORE.

# Hawaiian Ocean Time-series

## HOT- 205

### Gas Array Experiment Data Sheet

Station # 2  
 Cast # 9  
 Operator(s): SC, KB, DS

Date: 10-11-08 (HST)  
 Time: 0200 (HST)

Rosette Position	Desired Depth		15N2	MB			
1	175			X			
2	150			X			
3	125		X				
4	125		X				
5	125			X			
6	100		X				
7	100		X				
8	100			X			
9	75		X				
10	75		X				
11	75		X				
12	75			X			
13	45		X				
14	45		X				
15	45		X				
16	45			X			
17	25		X				
18	25		X				
19	25		X				
20	25			X			
21	5		X				
22	5		X				
23	5		X				
24	5			X			

Notes:

# Hawaiian Ocean Time-series

## HOT-205

### OPEN CAST Data Sheet

Station #           2            
 Cast #           10            
 Operator(s):   AH,LF,JW  

Date:   10/11/08   (HST)  
 Time:     0500     (HST)

Rosette Position	Desired Depth	MR		CMORE			
1	<b>1000</b>						
2	<b>Sal min</b>						
3	<b>200</b>			X			
4	<b>200</b>			X			
5	<b>200</b>			X			
6	<b>200</b>			X			
7	<b>200</b>			X			
8	<b>125</b>			X			
9	<b>125</b>			X			
10	<b>125</b>			X			
11	<b>125</b>			X			
12	<b>125</b>			X			
13	<b>25</b>		X				
14	<b>25</b>		X				
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							

**Notes:**

# Hawaiian Ocean Time-series

## HOT- 205

### Particulate Silica Data Sheet

Station # 2 Date: 10/11/08 (HST)  
 Cast # 11 Time: 0800 (HST)  
 Operator(s): Ah,lf,jw Pre-screen mesh size: none  
 Blank # **B1,B2,B3**

Rosette Position	Desired Depth	Carboy #	Total Volume	Sample #	MC	SW	
1	<b>1000</b>						
2	<b>Sal min</b>						
3	<b>175</b>	7	4	3			
4	<b>175</b>				X	X	
5	<b>150</b>	8	4	5			
6	<b>150</b>				X	X	
7	<b>125</b>	9,10	4,4	7A-B			
8	<b>125</b>				X		
9	<b>125</b>					X	
10	<b>100</b>	11	4	10			
11	<b>100</b>				X		
12	<b>100</b>					X	
13	<b>75</b>	12	4	12			
14	<b>75</b>				X		
15	<b>75</b>					X	
16	<b>45</b>	13	4	14			
17	<b>45</b>				X		
18	<b>45</b>					X	
19	<b>25</b>	14,15	4,4	16A-B			
20	<b>25</b>				X		
21	<b>25</b>					X	
22	<b>5</b>	16	4	18			
23	<b>5</b>				X		
24	<b>5</b>					X	

**Notes: SW will go first on MC depths 150 and 175. CMORE ed last on pb MC.**

# Hawaiian Ocean Time-series

## HOT- 205

### MIT Data Sheet

Station # 2  
 Cast # 12  
 Operator(s): AH,LF,JW

Date: 10/11/08 (HST)  
 Time: 1100 (HST)

Rosette Position	Desired Depth	MIT	SW	BL			
1	<b>1000</b>						
2	<b>Sal Min</b>						
3	<b>250</b>	1					
4	<b>225</b>	2					
5	<b>200</b>	3					
6	<b>175</b>	4					
7	<b>150</b>	5					
8	<b>125</b>	6					
9	<b>125</b>			X			
10	<b>115</b>	7					
11	<b>100</b>	8					
12	<b>85</b>	9					
13	<b>75</b>	10					
14	<b>75</b>			X			
15	<b>60</b>	11					
16	<b>45</b>	12					
17	<b>25</b>	13					
18	<b>25</b>		X				
19	<b>25</b>		x				
20	<b>5</b>	14					
21							
22							
23							
24							

**Notes:**

# Hawaiian Ocean Time-series

## HOT- 205

### ATP Data Sheet

Station # 2 Date: 10/11/08 (HST)  
 Cast # 13 Time: 1400 (HST)  
 Operator(s): AH,LF,JW Pre-screen mesh size: 202um  
 Blank #'s 28, 29, 30

Rosette Position	Desired Depth	ATP Tube #'s	Volume Filtered	Carboy #	SW	MC	
1	<b>1000</b>						
2	<b>1000</b>				X		
3	<b>900</b>				X		
4	<b>800</b>				X		
5	<b>770</b>					X	
6	<b>700</b>				X		
7	<b>600</b>				X		
8	<b>500</b>				X		
9	<b>500</b>					X	
10	<b>Sal min</b>						
11	<b>400</b>				X		
12	<b>350</b>	<b>1 - 3</b>	<b>3x2</b>	<b>1</b>			
13	<b>300</b>					X	
14	<b>300</b>				X		
15	<b>250</b>	<b>4 - 6</b>	<b>3x2</b>	<b>2</b>			
16	<b>200</b>					X	
17	<b>200</b>				X		
18	<b>150</b>	<b>7 - 9</b>	<b>3x1</b>	<b>7</b>			
19	<b>125</b>	<b>10 - 12</b>	<b>3x1</b>	<b>8</b>			
20	<b>100</b>	<b>13 - 15</b>	<b>3x1</b>	<b>9</b>			
21	<b>75</b>	<b>16 - 18</b>	<b>3x1</b>	<b>10</b>			
22	<b>45</b>	<b>19 - 21</b>	<b>3x1</b>	<b>11</b>			
23	<b>25</b>	<b>22 - 24</b>	<b>3x1</b>	<b>12</b>			
24	<b>5</b>	<b>25 - 27</b>	<b>3x1</b>	<b>13</b>			

Notes:



# Hawaiian Ocean Time-series

## HOT-205

### Phycoerythrin Data Sheet

Station # 2 Date: 10-11-08 (HST)  
 Cast # 14 Time: 1700 (HST)  
 Operator(s): SC, KB, DS Pre-screen mesh size: None

Rosette Position	Desired Depth	Carboy #	Total Volume	10um	5um	.4um	MC	SW
1	<b>1000</b>							
2	<b>Sal min</b>							
3	<b>175</b>	<b>1</b>	10	<b>1</b>	<b>2</b>	<b>3</b>		
4	<b>175</b>						X	X
5	<b>150</b>	<b>2</b>	10	<b>4</b>	<b>5</b>	<b>6</b>		
6	<b>150</b>						X	X
7	<b>125</b>	<b>3</b>	10	<b>7</b>	<b>8</b>	<b>9</b>		
8	<b>125</b>						X	X
9	<b>100</b>	<b>4</b>	10	<b>10</b>	<b>11</b>	<b>12</b>		
10	<b>100</b>						X	X
11	<b>75</b>	<b>5</b>	10	<b>13</b>	<b>14</b>	<b>15</b>		
12	<b>75</b>						X	X
13	<b>60</b>	<b>6</b>	10	<b>16</b>	<b>17</b>	<b>18</b>		
14	<b>45</b>	<b>7</b>	8	<b>19</b>	<b>20</b>	<b>21</b>		
15	<b>45</b>						X	X
16	<b>35</b>	<b>8</b>	10	<b>22</b>	<b>23</b>	<b>24</b>		
17	<b>35</b>	<b>9</b>	8.25	<b>25</b>	<b>26</b>	<b>27</b>		
18	<b>25</b>	<b>10</b>	7	<b>28</b>	<b>29</b>	<b>30</b>		
19	<b>25</b>						X	X
20	<b>25</b>							X
21	<b>25</b>							X
22	<b>15</b>	<b>11</b>	10	<b>31</b>	<b>32</b>	<b>33</b>		
23	<b>5</b>	<b>12</b>	10	<b>34</b>	<b>35</b>	<b>36</b>		
24	<b>5</b>						X	X
Blanks				<b>37</b>	<b>38</b>	<b>39</b>		

Notes: carboy #11, ~200ml left, aborted 20:30

Carboy #2 filtered fast (10um, 5um)

Sample #13, 10um slime/slick on filter with biomass

Sample #9, lots of yellow stuff on filter and stained through onto backing filter

Carboy # 7,9, 10 terminated @0110 October 12<sup>th</sup>

# Hawaiian Ocean Time-series

## HOT-205

### HPLC & Chl *a.* Bottle Data Sheet

Station # 2  
 Cast # 15  
 Operator(s): SC, KB, DS

Date: 10-11-08 (HST)  
 Time: 2000 (HST)

Rosette Position	Desired Depth	Carboy #	Total Volume	HPLC	Chl <i>a.</i>	SLIDES	AC	SW
1	<b>1000</b>							
2	<b>Sal min</b>							
3	<b>175</b>	1	10	3	3			
4	<b>175</b>					BW		
5	<b>150</b>	2	10	5	5			
6	<b>150</b>					BW		
7	<b>135</b>	7	4	7	7A-B			
8	<b>125</b>	8,9	4,4	8A-B	8			
9	<b>125</b>					BW		
10	<b>115</b>	10	4	10	10			
11	<b>100</b>	11	4	11	11			
12	<b>100</b>							
13	<b>95</b>					BW	X	
14	<b>85</b>	12	4	14	14			
15	<b>75</b>	13	4	15	15			
16	<b>75</b>					BW		
17	<b>60</b>	14	4	17	17A-B			
18	<b>45</b>	15,16	4,4	18A-B	18			
19	<b>45</b>					BW		
20	<b>25</b>	3	10	20	20			
21	<b>25</b>					BW		
22	<b>25</b>							x
23	<b>5</b>	4	10	23	23			
24	<b>5</b>					BW		

**Notes: DO NOT PRE-SCREEN, AC water for Steward Lab DCM please.**

# Hawaiian Ocean Time-series

## HOT-205

### WOCE Deep 2 Data Sheet

Station # 2  
 Cast # 16  
 Operator(s): SC, KB, DS

Date: 10-11-08 (HST)  
 Time: 2315 (HST)

Rosette Position	Desired Depth	Oxygen	Sample Temp.	MC	SW	CFC		
<b>1</b>	<b>4800</b>	<b>109</b>	<b>6.8</b>		X	X		
<b>2</b>	<b>4800</b>					X		
<b>3</b>	<b>4800</b>					X		
<b>4</b>	<b>4800</b>					X		
<b>5</b>	<b>4800</b>					X		
<b>6</b>	<b>4000</b>	<b>110</b>	<b>6.1</b>		X	X		
<b>7</b>	<b>4000</b>			X				
<b>8</b>	<b>3000</b>	<b>111</b>	<b>6.1</b>		X	X		
<b>9</b>	<b>3000</b>			X				
<b>10</b>	<b>2000</b>	<b>112</b>	<b>6.6</b>		X	X		
<b>11</b>	<b>2000</b>			X				
<b>12</b>	<b>1000</b>				X	X		
<b>13</b>	<b>1000</b>			X				
<b>14</b>	<b>O2 min</b>	<b>113</b>	<b>8.7</b>		X	X		
<b>15</b>	<b>600</b>				X			
<b>16</b>	<b>Sal min</b>	<b>114</b>	<b>9.8</b>			X		
<b>17</b>	<b>400</b>				X			
<b>18</b>	<b>175</b>				X			
<b>19</b>	<b>125</b>				X			
<b>20</b>	<b>100</b>				X			
<b>21</b>	<b>75</b>				X			
<b>22</b>	<b>O2 max</b>	<b>115</b>	<b>24.1</b>			X		
<b>23</b>	<b>25</b>				X			
<b>24</b>	<b>5</b>	<b>116</b>	<b>25.5</b>					

Notes: niskin # 2-5 samples are delaying in bottle for CFC

# Hawaiian Ocean Time-series

## HOT- 205

### STATION 17 Data Sheet

Station # 17  
 Cast # 1  
 Operator(s): SW, AH

Date: 10/12/10 (HST)  
 Time: 11AM (HST)

Rosette Position	Desired Depth	BL				
1	<b>175</b>	X				
2	<b>150</b>	X				
3	<b>125</b>	X				
4	<b>100</b>	X				
5	<b>75</b>	X				
6	<b>50</b>	X				
7	<b>25</b>	X				
8	<b>5</b>	X				
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						

**Notes:**

# Hawaiian Ocean Time-series

## HOT- 205

### STATION 50 Data Sheet

Station # 50  
 Cast # 1  
 Operator(s): Ah,lf,jw

Date: 10/12/08 (HST)  
 Time: 1330 (HST)

Rosette Position	Desired Depth	BC	BL			
1	175		X			
2	175		X			
3	150		X			
4	150		X			
5	125		X			
6	125		X			
7	100		X			
8	100		X			
9	100		X			
10	75		X			
11	75		X			
12	75		X			
13	70	X				
14	45		X			
15	45		X			
16	45		X			
17	40	X				
18	25		X			
19	25		X			
20	25		X			
21	15	X				
22	5		X			
23	5		X			
24	5		X			

**Notes:**

# Hawaiian Ocean Time-series

## HOT- 205

### STATION Kaena Data Sheet

Station #           6            
 Cast #           1            
 Operator(s):   SC, KB, DS  

Date:   10-12-08   (HST)  
 Time:   2056     (HST)

Rosette Position	Desired Depth	Chl a.				
1	<b>2500</b>					
2	<b>2000</b>					
3	<b>1500</b>					
4	<b>1000</b>					
5	<b>500</b>					
6	<b>175</b>	6				
7	<b>150</b>	7				
8	<b>125</b>	8				
9	<b>100</b>	9				
10	<b>75</b>	10				
11	<b>45</b>	11				
12	<b>25</b>	12				
13	<b>5</b>	13				
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						

**Notes:**

# Hawaiian Ocean Time-series

## HOT-205

### Sediment Trap Data Sheet

Type of traps: <u>150M PIT</u>	Date: <u>10-09-08</u>
Operator(s): <u>SC, DS, KB, BU</u>	Wind: <u>14kts</u>
Position in: <u>22°46.129'N157°59.832'W</u>	Sea State: <u>4-6ft</u>

Time in: 150 m <u>X LIVE</u>	Notes: 2323 traps in water, 2334 array released.
(HST) <u>X DEAD</u>	
300 m _____	
500 m _____	

Operator(s): <u>AH, LF, JW, BU</u>	Date: <u>10-12-08</u>
Position out: <u>22 45.95'N 158 9.65'W</u>	Wind: <u>12-14kts</u>
Overall sea state: <u>6-8ft</u>	Sea state: _____

Time out: 150 m <u>04:30</u>	Notes:
(HST) _____	
300 m _____	
500 m _____	

#### General processing procedure:

- 1) Cap traps immediately upon retrieval.
- 2) Mark interface and 2 inches above.
- 3) Remove baffles.
- 4) Aspirate overlying sea water to 2 inch interface mark.
- 5) Prescreen all traps at a given depth through a single screen and save screened material in trap blank solution.
- 6) Pour the contents of 9 individual screened traps into separate filtration bottles (do not combine trap solutions) marked A-I.
- 7) Pour the contents of 3 screened traps back into respective traps (do not combine trap solutions) for mass flux analysis (J,K,L).
- 8) Filter 3 two liter and 3 one liter time zero blanks for PC/PN & PPO<sub>4</sub> respectively.
- 9) Filter 6 individual traps for PC/PN (A-F) and 3 for PPO<sub>4</sub> (G-I).





**Hawaiian Ocean Time-series  
HOT-205  
In Situ Gas Array Data Sheet**

**Operator(s): AH, LF, JW, BU**

**Date in: 10-11-08**

**Time in: 0430**

**Position in: 22° 46.03'N 158°W**

**Notes:**

**Operator(s): AH, JW, LF, BU**

**Date out: 10-12-08**

**Time out: 0630**

**Position out: 22°45.64'N 158° 4.91'W**

**Notes:**

# Hawaiian Ocean Time-series

## HOT- 205

### In Situ Primary Production Data Sheet

Operator(s): SC, KB, DS, BU

Date in: 10-10-08

Time in: 04:40 (HST)

Date out: 10-10-08

Time out: 18:52 (HST)

Incubation Depth	✓
175	
150	
125	
100	
75	
45	
25	
5	

Insertion Depth	Owner
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Position in: 22°45.492'N 157°59.924'W

Position out: 22°46.460'N 158°2.922'W

Average weather condition during incubation: East winds 14-16kts, 2/8 cloud cover

Average sea state during incubation: 4-6ft seas.

Notes:

Begin Inoculation \_\_\_\_\_

End Inoculation \_\_\_\_\_

Filtration time \_\_\_\_\_