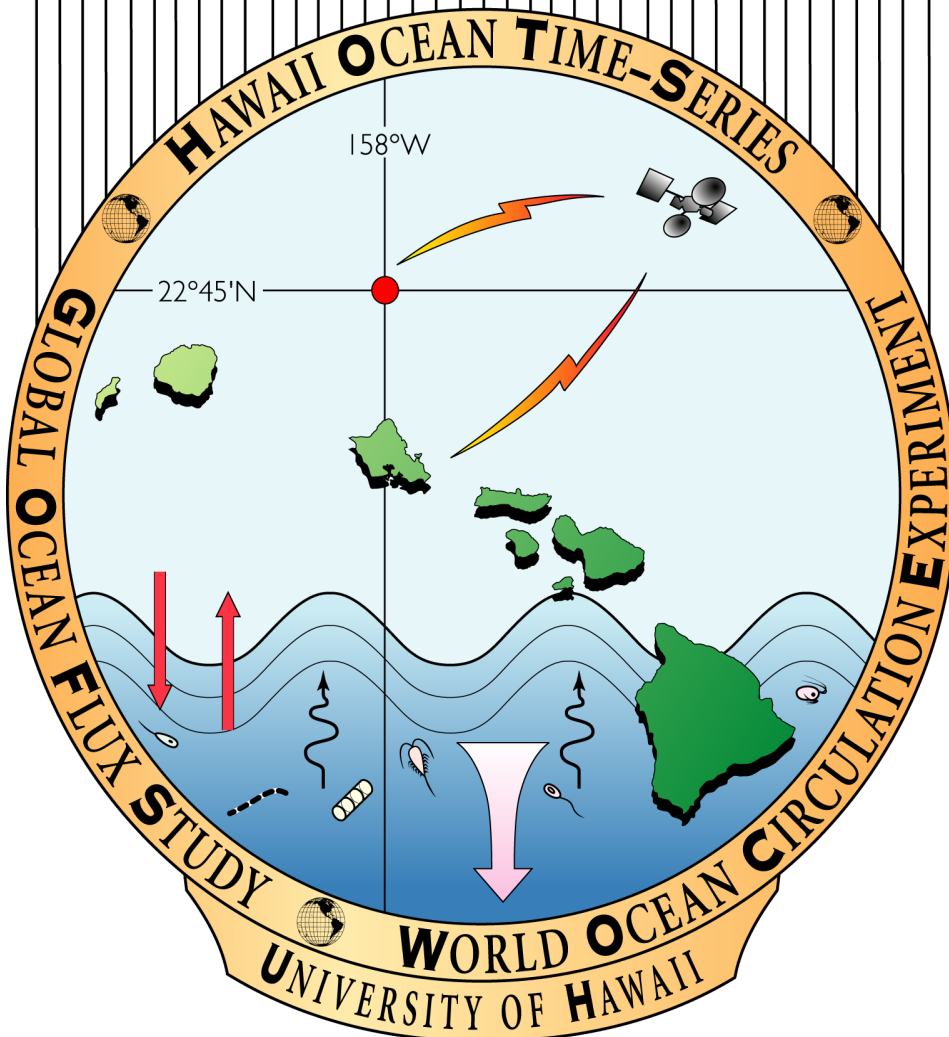


# Hawaii Ocean Time-series Program

# HOT-197



# Hawaiian Ocean Time-Series

## HOT-197

### KAHE Station Data Sheet

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

Date: 11-30-07 (HST)  
 Time: 1310 (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>	6.9	1						
<b>2</b>	<b>900</b>	<b>2</b>	7.2	2						
<b>3</b>	<b>800</b>	<b>3</b>	7.3	3						
<b>4</b>	<b>750</b>	<b>4,5,6</b>	7.8	4A-B						
<b>5</b>	<b>700</b>	<b>7</b>	7.9	5						
<b>6</b>	<b>600</b>	<b>8</b>	8.3	6						
<b>7</b>	<b>500</b>	<b>9</b>	9.1	7			7			
<b>8</b>	<b>400</b>	<b>10</b>	10.2	8						
<b>9</b>	<b>350</b>	<b>11</b>	11.1	9A-B			9			
<b>10</b>	<b>300</b>	<b>12</b>	12.0	10						
<b>11</b>	<b>250</b>	<b>13</b>	13.7	11						
<b>12</b>	<b>225</b>	<b>14</b>	15.5	12						
<b>13</b>	<b>200</b>	<b>15</b>	16.1	13			13			
<b>14</b>	<b>175</b>	<b>16</b>	18.6	14			14		14	14A-B
<b>15</b>	<b>150</b>	<b>17</b>	19.5	15			15	15	15	15A-B
<b>16</b>	<b>125</b>	<b>18</b>	20.6	16A-B			16		16	16A-B
<b>17</b>	<b>115</b>	<b>19</b>	20.7	17						
<b>18</b>	<b>100</b>	<b>20,21 .22</b>	21.5	18			18	18	18A-B	18A-B
<b>19</b>	<b>75</b>	<b>23</b>	23.5	19			19		19	19A-B
<b>20</b>	<b>60</b>	<b>24</b>	24.0	20						
<b>21</b>	<b>45</b>	<b>25</b>	24.1	21	21	2	21	21	21	21A-B
<b>22</b>	<b>25</b>	<b>26</b>	24.2	22	22	5	22		22A-B	22A-B
<b>23</b>	<b>5</b>	<b>27</b>	24.3	23	23	4	23	23	23	23A-B
<b>24</b>	<b>5</b>	<b>QC</b>	24.2							

Notes: #7 vent open

# Hawaiian Ocean Time-series

## HOT- 197

### OPEN CAST Data Sheet

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

Date: 12-01-07 (HST)  
 Time: 00:15 (HST)

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

Notes:

# Hawaiian Ocean Time-series

## HOT-197

### Primary Production Data Sheet

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

Date: 12-01-07 (HST)  
 Time: 0155 (HST)

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

**Notes: SW pb 5-75m**

**Niskin from depths 175 and 150 were not fired. Labels for Chlorophyll and FCM do not correspond to niskin bottle number but were sampled from the right depth.**

# Hawaiian Ocean Time-series

## HOT-197

### WOCE Deep Data Sheet

Station # 2  
 Cast # 3  
 Operator(s): Ah,lf,bu

Date: 12-01-07 (HST)  
 Time: 0645 (HST)

Rosette Position	Desired Depth	Oxygen	Sample Temp.	Nutrient	Refridg. Si	DOC	DIC/Alk	pH	
<b>1</b>	<b>4800</b>	<b>28</b>	4.2	<b>1</b>	<b>1</b>				
<b>2</b>	<b>4600</b>	<b>29</b>	4.2	<b>2</b>	<b>2</b>				
<b>3</b>	<b>4500</b>	30,31, 32	4.5	<b>3A-B</b>	<b>3A-B</b>	<b>3A-B</b>	<b>3A-B</b>	<b>3A-B-C</b>	
<b>4</b>	<b>4400</b>	<b>33</b>	4.6	<b>4</b>	<b>4</b>				
<b>5</b>	<b>4200</b>	<b>34</b>	4.5	<b>5</b>	<b>5</b>				
<b>6</b>	<b>4000</b>	35,36, 37	4.7	<b>6A-B</b>	<b>6A-B</b>	<b>6A-B</b>			
<b>7</b>	<b>3800</b>	<b>38</b>	4.7	<b>7</b>	<b>7</b>				
<b>8</b>	<b>3600</b>	<b>39</b>	4.7	<b>8</b>	<b>8</b>				
<b>9</b>	<b>3400</b>	<b>40</b>	4.8	<b>9</b>	<b>9</b>				
<b>10</b>	<b>3200</b>	<b>41</b>	4.9	<b>10</b>	<b>10</b>				
<b>11</b>	<b>3000</b>	42,43 44	5.3	<b>11A-B</b>	<b>11A-B</b>	<b>11A-B</b>	<b>11</b>	<b>11</b>	
<b>12</b>	<b>2800</b>	<b>45</b>	5.3	<b>12</b>	<b>12</b>				
<b>13</b>	<b>2600</b>	<b>46</b>	5.1	<b>13</b>	<b>13</b>				
<b>14</b>	<b>2400</b>	<b>47</b>	5.2	<b>14</b>	<b>14</b>				
<b>15</b>	<b>2200</b>	<b>48</b>	5.3	<b>15</b>	<b>15</b>				
<b>16</b>	<b>2000</b>	49,50, 51	6	<b>16A-B</b>	<b>16A-B</b>	<b>16A-B</b>	<b>16</b>	<b>16</b>	
<b>17</b>	<b>1800</b>	<b>52</b>	5.9	<b>17</b>	<b>17</b>				
<b>18</b>	<b>1600</b>	<b>53</b>	6.1	<b>18</b>	<b>18</b>				
<b>19</b>	<b>1400</b>	<b>54</b>	6.3	<b>19</b>	<b>19</b>				
<b>20</b>	<b>1200</b>	<b>55</b>	6.8	<b>20</b>	<b>20</b>				
<b>21</b>	<b>1000</b>	<b>56</b>	7.6	<b>21</b>					
<b>22</b>	<b>750</b>	<b>57</b>	10.2	<b>22</b>					
<b>23</b>	<b>500</b>	<b>58</b>	25.0	<b>23</b>					
<b>24</b>	<b>5</b>	<b>59</b>		<b>24</b>					

Notes: Niskin number 25 was not tripped.

# Hawaiian Ocean Time-series

## HOT-197

### PO Shallow Data Sheet

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

Date: 12-01-07 (HST)  
 Time: 12:35 (HST)

Rosette Position	Desired Depth	Oxygen	Sample Temp.	Nutrient	Refridg Si	DIC/ Alk	pH	DOC	Quay DIC
<b>1</b>	<b>1020</b>	60,61, 62	6.5	<b>1A-B</b>	<b>1A-B</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>2</b>	<b>985</b>	63	6.6	<b>2</b>	<b>2</b>				
<b>3</b>	<b>944</b>	64	6.4	<b>3</b>	<b>3</b>				
<b>4</b>	<b>900</b>	65	6.7	<b>4</b>	<b>4</b>				
<b>5</b>	<b>860</b>	66	6.7	<b>5</b>	<b>5</b>				
<b>6</b>	<b>820</b>	67,68, 69	7.1	<b>6</b>	<b>6</b>				
<b>7</b>	<b>752</b>	70	7.0	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>
<b>8</b>	<b>715</b>	71	7.2	<b>8</b>	<b>8</b>				
<b>9</b>	<b>675</b>	72	7.3	<b>9</b>	<b>9</b>				
<b>10</b>	<b>630</b>	73	7.6	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>
<b>11</b>	<b>585</b>	74	7.7	<b>11A-B</b>	<b>11A-B</b>				
<b>12</b>	<b>535</b>	75	8.3	<b>12</b>	<b>12</b>				
<b>13</b>	<b>490</b>	76,77, 78	8.7	<b>13</b>	<b>13</b>	<b>13</b>	<b>13</b>	<b>13</b>	
<b>14</b>	<b>460</b>	79	9.1	<b>14</b>	<b>14</b>				
<b>15</b>	<b>425</b>	80	9.9	<b>15</b>	<b>15</b>				
<b>16</b>	<b>388</b>	81	10.3	<b>16</b>	<b>16</b>				
<b>17</b>	<b>330</b>	82	11.6	<b>17</b>	<b>17</b>	<b>17A-B</b>	<b>17A-B</b>	<b>17</b>	<b>17</b>
<b>18</b>	<b>290</b>	83,84, 85	13.0	<b>18</b>	<b>18</b>				
<b>19</b>	<b>220</b>	86	16.0	<b>19</b>	<b>19</b>	<b>19</b>	<b>19</b>	<b>19</b>	<b>19</b>
<b>20</b>	<b>165</b>	87	20.0	<b>20A-B</b>					
<b>21</b>	<b>125</b>	88	21.6	<b>21</b>					
<b>22</b>	<b>60</b>	89	25.0	<b>22</b>					
<b>23</b>	<b>26</b>	90	25.0	<b>23</b>					
<b>24</b>	<b>10</b>	91	25.1	<b>24</b>					

# Hawaiian Ocean Time-series

## HOT- 197

### PC/PN Data Sheet

Station # 2 Date: 12-01-07 (HST)  
 Cast # 5 Time: 03:20 (HST)  
 Operator(s): SC, KB, TC Pre-screen mesh size: 202 um  
 Blank #'s B1 B2 B3

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

**Notes: Carboy #14 bad filter holder leaky – small sample volume lost**

# Hawaiian Ocean Time-series

## HOT- 197

### Particulate Phosphorus Data Sheet

Station # 2 Date: 12-01-07 (HST)  
 Cast # 6 Time: 18:33 (HST)  
 Operator(s): SC, KB, TC Pre-screen mesh size: 202 um  
 Blank #'s B1 B2 B3

Rosette Position	Desired Depth	Carboy #	Total Volume	Sample #	RF	DV	BL
1	<b>1000</b>						
2	<b>Sal min</b>						
3	<b>350</b>	<b>1</b>	10	<b>3</b>			
4	<b>350</b>	<b>2</b>	10	<b>4</b>			
5	<b>250</b>	<b>3</b>	10	<b>5</b>			
6	<b>200</b>	<b>4</b>	10	<b>6</b>			
7	<b>175</b>	<b>5</b>	10	<b>7</b>			
8	<b>150</b>	<b>6</b>	10	<b>8</b>			
9	<b>125</b>	<b>7,8</b>	4,4	<b>9A-B</b>			
10	<b>100</b>	<b>9</b>	4	<b>10</b>			
11	<b>75</b>	<b>10</b>	4	<b>11</b>			
12	<b>45</b>	<b>11</b>	4	<b>12</b>			
13	<b>40</b>				X		
14	<b>25</b>	<b>12,13</b>	4,4	<b>14A-B</b>			
15	<b>25</b>						X
16	<b>25</b>						X
17	<b>20</b>				X		
18	<b>10</b>					X	
19	<b>10</b>					X	
20	<b>10</b>					X	
21	<b>5</b>	<b>14</b>	4	<b>21</b>			
22	<b>5</b>				X		
23							
24							

**Notes: SAMPLE 21 AND 14B = TRICHO TUFTS**



**Hawaiian Ocean Time-series**  
**HOT-197**  
**HPLC & Chl *a*. Bottle Data Sheet**

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

Date: 12-01-07 (HST)  
 Time: 21:15 (HST)

Rosette Position	Desired Depth	Carboy #	Total Volume	HPLC	Chl <i>a</i> .	SLIDES
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>					BW
13	<b>85</b>	12	4	13	13	
14	<b>75</b>	13	4	14	14	
15	<b>75</b>					BW
16	<b>60</b>	14	4	16	16A-B	
17	<b>45</b>	15,16	4,4	17A-B	17	
18	<b>45</b>					BW
19	<b>25</b>	3	10	19	19	
20	<b>25</b>					BW
21	<b>5</b>	4	10	21	21	
22	<b>5</b>					BW
23						
24						

**Notes: DO NOT PRE-SCREEN,**

# Hawaiian Ocean Time-series

## HOT-197

### BEACH Shallow Data Sheet

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

Date:       12-01-07       (HST)  
 Time:       23:55       (HST)

Rosette Position	Desired Depth	Oxygen	Sample Temp.	Nutrient	Refridg. Si	DOC	LLN	LLP/LLSi
<b>1</b>	<b>1000</b>	<b>92</b>	<b>8.8</b>					
<b>2</b>	<b>O<sub>2</sub> min</b>	<b>93</b>	<b>9.0</b>					
<b>3</b>	<b>Sal min</b>	<b>94</b>	<b>10.1</b>					
<b>4</b>	<b>200</b>	<b>95</b>	<b>18.1</b>	<b>4</b>	<b>4</b>	<b>4</b>		
<b>5</b>	<b>175</b>	<b>96</b>	<b>20.1</b>	<b>5</b>		<b>5</b>	<b>5</b>	<b>5</b>
<b>6</b>	<b>165</b>	<b>97</b>	<b>20.5</b>				<b>6</b>	
<b>7</b>	<b>150</b>	<b>98</b>	<b>20.8</b>	<b>7</b>		<b>7</b>	<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>22.2</b>	<b>9A-B</b>		<b>9</b>	<b>9</b>	<b>9</b>
<b>10</b>	<b>115</b>	<b>100</b>	<b>22.4</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>23.1</b>	<b>12</b>		<b>12</b>	<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>24.5</b>				<b>14</b>	<b>14</b>
<b>15</b>	<b>75</b>	<b>105</b>	<b>24.8</b>	<b>15</b>		<b>15</b>	<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>25.2</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>25.1</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>25.0</b>	<b>22</b>		<b>22</b>	<b>22A-B</b>	<b>22</b>
<b>23</b>	<b>5</b>							
<b>24</b>								

Notes:

# Hawaiian Ocean Time-series

## HOT-197

### BEACH Carbon Data Sheet

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

Date: 12-01-07 (HST)  
 Time: 23:55 (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>8</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>7</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>3</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>15</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>7</b>					
<b>23</b>	<b>5</b>			<b>23</b>	<b>23A-B</b>			
<b>24</b>	<b>5</b>							

Notes:

**Keeling sample Times: 20A- 0153, 20B- 0156**  
**23A- 0156, 23B- 0157**

# Hawaiian Ocean Time-series

## HOT- 197

### Gas Array Experiment Data Sheet

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

Date:   12-02-07   (HST)  
 Time:     2:49     (HST)

Rosette Position	Desired Depth		15N2				
1	125		X				
2	125		X				
3	125		X				
4	125		X				
5	100		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- 197

### OPEN CAST Data Sheet

Station # 2  
 Cast # 10  
 Operator(s): Ah,bl,lf,bu

Date: 12-2-07 (HST)  
 Time: 540 (HST)

Rosette Position	Desired Depth	MR		CMORE	Ben		
1	<b>1000</b>	X					
2	<b>800</b>	X					
3	<b>770</b>			X			
4	<b>770</b>			X			
5	<b>770</b>			X			
6	<b>770</b>			X			
7	<b>770</b>			X			
8	<b>600</b>	X					
9	<b>Sal min</b>						
10	<b>400</b>	X					
11	<b>200</b>	X					
12	<b>175</b>	X					
13	<b>150</b>	X					
14	<b>125</b>	X					
15	<b>100</b>	X					
16	<b>100</b>				X		
17	<b>100</b>				X		
18	<b>75</b>	X					
19	<b>75</b>				X		
20	<b>75</b>				X		
21	<b>45</b>	X					
22	<b>45</b>				X		
23	<b>45</b>				X		
24	<b>10</b>	X					

Notes:

# Hawaiian Ocean Time-series

## HOT- 197

### Particulate Silica Data Sheet

Station # 2 Date: 12-2-07 (HST)  
 Cast # 11 Time: 0820 (HST)  
 Operator(s): AH,LF,BU Pre-screen mesh size: none  
 Blank # **B1,B2,B3**

Rosette Position	Desired Depth	Carboy #	Total Volume	Sample #	MC	RF	DV
1	<b>1000</b>						
2	<b>Sal min</b>						
3	<b>175</b>	7	4	3			
4	<b>175</b>				X		
5	<b>150</b>	8	4	5			
6	<b>150</b>				X		
7	<b>125</b>	9,10	4,4	7A-B			
8	<b>125</b>				X		
9	<b>100</b>	11	4	9			
10	<b>100</b>				X		
11	<b>75</b>	12	4	11			
12	<b>75</b>				X		
13	<b>45</b>	13	4	13			
14	<b>45</b>				X		
15	<b>40</b>					X	
16	<b>25</b>	14,15	4,4	16A-B			
17	<b>25</b>				X		
18	<b>20</b>					X	
19	<b>5</b>	16	4	19			
20	<b>5</b>				X		
21	<b>5</b>					X	
22	<b>5</b>						X
23	<b>5</b>						X
24	<b>5</b>					X	

Notes:

# Hawaiian Ocean Time-series

## HOT- 197

### MIT Data Sheet

Station # 2  
 Cast # 12  
 Operator(s): Ah,lf, bl,bu

Date: 12-2-07 (HST)  
 Time: 10:45 (HST)

Rosette Position	Desired Depth	MIT	CMORE	Ben			
1	<b>1000</b>						
2	<b>500</b>		X				
3	<b>500</b>		X				
4	<b>500</b>		X				
5	<b>500</b>		X				
6	<b>500</b>		X				
7	<b>Sal Min</b>						
8	<b>250</b>	1					
9	<b>225</b>	2					
10	<b>200</b>	3					
11	<b>175</b>	4					
12	<b>150</b>	5					
13	<b>125</b>	6					
14	<b>125</b>			X			
15	<b>125</b>			X			
16	<b>115</b>	7					
17	<b>100</b>	8					
18	<b>85</b>	9					
19	<b>75</b>	10					
20	<b>60</b>	11					
21	<b>45</b>	12					
22	<b>25</b>	13					
23	<b>5</b>	14					
24							

**Notes:**

# Hawaiian Ocean Time-series

## HOT- 197

### ATP Data Sheet

Station # 2 Date: 12-2-07 (HST)  
 Cast # 13 Time: 14:50 (HST)  
 Operator(s): SC, KB, TC Pre-screen mesh size: 202um  
 Blank #'s 28, 29, 30

Rosette Position	Desired Depth	ATP Tube #'s	Volume Filtered	Carboy #	QUAY	MC	MR
1	<b>1000</b>						
2	<b>1000</b>						X
3	<b>1000</b>						X
4	<b>770</b>					X	
5	<b>Sal min</b>						
6	<b>500</b>					X	
7	<b>500</b>						X
8	<b>500</b>						X
9	<b>350</b>	<b>1 - 3</b>	<b>3x2</b>	<b>1</b>			
10	<b>300</b>				X		
11	<b>300</b>					X	
12	<b>250</b>	<b>4 - 6</b>	<b>3x2</b>	<b>2</b>			
13	<b>200</b>					X	
14	<b>200</b>				X		
15	<b>150</b>	<b>7 - 9</b>	<b>3x1</b>	<b>7</b>			
16	<b>150</b>				X		
17	<b>125</b>	<b>10 - 12</b>	<b>3x1</b>	<b>8</b>			
18	<b>125</b>				X		
19	<b>100</b>	<b>13 - 15</b>	<b>3x1</b>	<b>9</b>			
20	<b>100</b>				X		
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-197

### Phycoerythrin Data Sheet

Station # 2 Date: 12-02-07 (HST)  
 Cast # 14 Time: 1730 (HST)  
 Operator(s): SC, KB, TC Pre-screen mesh size: None

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

Notes:

# Hawaiian Ocean Time-series

## HOT-197

### PUR Data Sheet

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

Date: 12-02-07 (HST)  
 Time: 2037 (HST)

Rosette Position	Desired Depth	Carboy #	Total Volume	PUR	CMORE			
<b>1</b>	<b>1000</b>							
<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>1000</b>				X			
<b>7</b>	<b>Sal min</b>							
<b>8</b>	<b>200</b>				X			
<b>9</b>	<b>200</b>				X			
<b>10</b>	<b>200</b>				X			
<b>11</b>	<b>200</b>				X			
<b>12</b>	<b>200</b>				X			
<b>13</b>	<b>175</b>	<b>1</b>	<b>10</b>	<b>13</b>				
<b>14</b>	<b>150</b>	<b>2</b>	<b>10</b>	<b>14</b>				
<b>15</b>	<b>135</b>	<b>7</b>	<b>4</b>	<b>15</b>				
<b>16</b>	<b>125</b>	<b>8,9</b>	<b>4,4</b>	<b>16A-B</b>				
<b>17</b>	<b>115</b>	<b>10</b>	<b>4</b>	<b>17</b>				
<b>18</b>	<b>100</b>	<b>11</b>	<b>4</b>	<b>18</b>				
<b>19</b>	<b>85</b>	<b>12</b>	<b>4</b>	<b>19</b>				
<b>20</b>	<b>75</b>	<b>13</b>	<b>4</b>	<b>20</b>				
<b>21</b>	<b>60</b>	<b>14</b>	<b>4</b>	<b>21</b>				
<b>22</b>	<b>45</b>	<b>15,16</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: Sample # 10, 13, 14, 15 filters busted.

# Hawaiian Ocean Time-series

## HOT-197

### WOCE Deep 2 Data Sheet

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

Date: 12-02-07 (HST)  
 Time: 0:15 (HST)

Rosette Position	Desired Depth	Oxygen	Sample Temp.	MC	MR			
<b>1</b>	<b>4800</b>	<b>109</b>						
<b>2</b>	<b>4000</b>	<b>110</b>						
<b>3</b>	<b>4000</b>			X				
<b>4</b>	<b>4000</b>				X			
<b>5</b>	<b>3000</b>	<b>111</b>						
<b>6</b>	<b>3000</b>			X				
<b>7</b>	<b>3000</b>				X			
<b>8</b>	<b>2000</b>	<b>112</b>						
<b>9</b>	<b>2000</b>			X				
<b>10</b>	<b>2000</b>				X			
<b>11</b>	<b>1000</b>			X				
<b>12</b>	<b>1000</b>				X			
<b>13</b>	<b>800</b>				X			
<b>14</b>	<b>O2 min</b>	<b>113</b>						
<b>15</b>	<b>600</b>				X			
<b>16</b>	<b>Sal min</b>	<b>114</b>						
<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>O2 max</b>	<b>115</b>						
<b>22</b>	<b>75</b>				X			
<b>23</b>	<b>10</b>				X			
<b>24</b>	<b>5</b>	<b>116</b>						

Notes:

# Hawaiian Ocean Time-series

## HOT- 197

### STATION 52 Data Sheet

Station # 52  
 Cast # 1  
 Operator(s): Ah,lf,bu

Date: 12-3-07 (HST)  
 Time: 9:10 (HST)

Rosette Position	Desired Depth	RF	SS	KB	SW	BL
1	<b>1000</b>		X			
2	<b>1000</b>		X			
3	<b>1000</b>		X			
4	<b>1000</b>		X			
5	<b>1000</b>		X			
6	<b>1000</b>		X			
7	<b>45</b>					
8	<b>45</b>				X	
9	<b>45</b>				X	
10	<b>30</b>			X		
11	<b>20</b>				X	
12	<b>20</b>				X	
13	<b>20</b>				X	
14	<b>15</b>					X
15	<b>15</b>					X
16	<b>15</b>					X
17	<b>15</b>					X
18	<b>15</b>					X
19	<b>15</b>					X
20	<b>10</b>	X				
21	<b>10</b>	X				
22	<b>10</b>	X				
23	<b>10</b>	X				
24	<b>10</b>	X				

**Notes:**

# Hawaiian Ocean Time-series

## HOT- 197

### STATION 52 Data Sheet

Station # 52  
 Cast # 2  
 Operator(s): Ah,lf,bu

Date: 12-3-07 (HST)  
 Time: 1400 (HST)

Rosette Position	Desired Depth	RF	JE			
1	<b>200</b>					
2	<b>75</b>	X				
3	<b>45</b>	X				
4	<b>40</b>	X				
5	<b>25</b>	X				
6	<b>20</b>	X				
7	<b>15</b>		X			
8	<b>15</b>		X			
9	<b>15</b>		X			
10	<b>15</b>		X			
11	<b>15</b>		X			
12	<b>15</b>		X			
13	<b>5</b>	X				
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						

**Notes:**

# Hawaiian Ocean Time-series

## HOT-197

### KAENA Data Sheet

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

Date:   12-03-07   (HST)  
 Time:     2115     (HST)

Rosette Position	Desired Depth	Chl <i>a.</i>						
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-197 \_\_\_\_\_

### Sediment Trap Data Sheet

Type of traps: <u>PIT</u>	Date: <u>11-30-07</u>
Operator(s): <u>SC, KB, TC, BW</u>	Wind: <u>17.5 kts, 2220 true dir.</u>
Position in: <u>22 44.841 N 158 2.375 W</u>	Sea State: _____

Time in: 150 m X LIVE

Notes: 11:50pm traps in water  
00:02 am 12-01-07 array  
released

(HST) X DEAD

300 m \_\_\_\_\_

500 m \_\_\_\_\_

\_\_\_\_\_

Operator(s): <u>AH, LF, BW, BU</u>	Date: <u>12-3-07</u>
Position out: <u>22 48.570 N 158 10.772</u>	Wind: <u>5-10 knots</u>
Overall sea state: <u>15-20FT</u>	Sea state: _____

Time out: 150 m 06:00

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- 197\_\_\_\_\_

### In Situ Primary Production Data Sheet

Operator(s): AH,LF,BW,BU

Date in: 12-01-07

Time in: 05:20 (HST)

Date out: 12-01-07

Time out: 1817 (HST)

Incubation Depth	✓
175	
150	
125	X
100	X
75	X
45	X
25	X
5	X

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

Position in: 22 46.015 N 157 59.997 W

Position out: 22 48.316N 158 0.654 W

Average weather condition during incubation:

Average sea state during incubation:

Notes:

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

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

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



**Hawaiian Ocean Time-series  
HOT-197\_\_\_\_  
In Situ Gas Array Data Sheet**

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

**Date in: 12-2-07**

**Time in: 05:15 (HST)**

**Position in: 22 46.065 N 158 0.253 W**

**Notes:**

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

**Date out: 12-3-07**

**Time out: 0705 (HST)**

**Position out: 22 46.065 N 158 0.253 W**

**Notes:**