Hawaii Ocean Time-series Program

HOT 252
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Hawaii Ocean Time-series
HOT-252
OPEN CAST Data Sheet

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Operator(s): CS, BU  
Date: 5/17/13 (HST)  
Time: 0045 (HST)  

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Notes:
Bottle #2 was fired but did not close until the CTD was recovered and on the deck
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Notes:
Hawaii Ocean Time-series
HOT-252
PO Shallow Data Sheet

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Cast #  4  Time:  1145  (HST)
Operator(s): Ah,lf,ds

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Notes:
**Hawaii Ocean Time-series**  
HOT- 252  
PC/PN Data Sheet

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Time: 1433 (HST)  
Operator(s): CS, SG, BU  
Pre-screen mesh size: 202 um

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**Notes:**
Hawaii Ocean Time-series  
HOT- 252  
Particulate Phosphorus Data Sheet

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### HOT-252
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**Notes:**
Keeling 2-7-23A collected at 2150 and 2-7-23B collected at 2151
**Hawaii Ocean Time-series**  
**HOT-252**  
**BEACH Shallow Data Sheet (2/2)**

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Cast # | 7 | Time: | 1955 (HST)  
Operator(s): | CS, SG, BU  

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**Notes:**
## Hawaii Ocean Time-series
### HOT-252
#### PUR Data Sheet

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### Notes:
Hawaii Ocean Time-series  
HOT- 252  
Gas Array Experiment Data Sheet

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Notes:
Hawaii Ocean Time-series  
HOT-252  
OPEN CAST Data Sheet

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Notes:
Hawaii Ocean Time-series
HOT- 252
Particulate Silica Data Sheet

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Notes:
**Hawaii Ocean Time-series**

**HOT- 252**

**OPEN Data Sheet**

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**Notes:**
Hawaii Ocean Time-series  
HOT- **252**  
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**Notes:**

SW #2 crimp-top bottle broke, so new sample was collected from same Niskin
## Hawaii Ocean Time-series
### HOT-252
#### HPLC & Chl a. Bottle Data Sheet

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**Notes:** DO NOT PRE-SCREEN
## Hawaii Ocean Time-series
**HOT-252**
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Notes:
Hawaii Ocean Time-series
HOT- 252
STATION 50 Data Sheet

Station #  50
Cast #  1
Operator(s): Ah,lf,ds
Date:  5/19/13 (HST)
Time:  1300 (HST)

<table>
<thead>
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<th>BB</th>
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Notes:
**Hawaii Ocean Time-series**  
**HOT- 252**  
**STATION Kaena Data Sheet**

<table>
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<th>Rosette Position</th>
<th>Desired Depth</th>
<th>Chl a.</th>
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</thead>
<tbody>
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</tr>
<tr>
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<td>24</td>
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**Notes:**
<table>
<thead>
<tr>
<th>Type of traps:</th>
<th>PIT</th>
<th>Date:</th>
<th>5/17/13</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator(s):</td>
<td>BW, CS, BU</td>
<td>Wind:</td>
<td>~15 knots from the east</td>
</tr>
<tr>
<td>Position in:</td>
<td>22 44.990’ N 158 2.140’ W</td>
<td>Sea State:</td>
<td>1-3 ft.</td>
</tr>
<tr>
<td>Time in:</td>
<td>150 m 0020</td>
<td>Notes:</td>
<td></td>
</tr>
<tr>
<td>(HST)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Operator(s):</th>
<th>Ah,lf,ds,bw</th>
<th>Date:</th>
<th>5/19/13</th>
</tr>
</thead>
<tbody>
<tr>
<td>Position out:</td>
<td>22 48.94 158 0.321</td>
<td>Wind:</td>
<td></td>
</tr>
<tr>
<td>Overall sea state:</td>
<td></td>
<td>Sea state:</td>
<td></td>
</tr>
<tr>
<td>Time Out:</td>
<td>150 m 0720</td>
<td>Notes:</td>
<td></td>
</tr>
<tr>
<td>(HST)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Data Sheet for Sediment Trap Volumes

Cruise #: 252
Analyst: DS

Directions: 1) Mark the traps with 2 lines
   a) Line #1 is at the interface
   b) Line #2 is 2" (5 cm) above the interface
2) Siphon off the top of the trap to Line #2 - 2" above the interface
3) Measure the distance from the bottom of the trap to Line #2
   2" above the interface and record the result in this table.

<table>
<thead>
<tr>
<th>Trap Name</th>
<th>Depth (m)</th>
<th>Height (cm) at Line #2 (Top Line)</th>
<th>Volume (L) at top line = (Height in cm x 0.038)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>150</td>
<td>39.3</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>150</td>
<td>40.6</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>150</td>
<td>38.9</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>150</td>
<td>38.9</td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>150</td>
<td>37.6</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>150</td>
<td>38.5</td>
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</tr>
<tr>
<td>G</td>
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</tr>
<tr>
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<td>150</td>
<td>39.3</td>
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</tr>
<tr>
<td>I</td>
<td>150</td>
<td>39.6</td>
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<tr>
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</tr>
<tr>
<td>L</td>
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Hawaii Ocean Time-series
HOT-252
In Situ Primary Production Data Sheet

Operator(s): ah, lf, ds, bw
Date in: 5/17/13  Time in: 0530 (HST)
Date out: 5/17/13  Time out: 1950 (HST)

<table>
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<tr>
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<th>✓</th>
<th>Insertion Depth</th>
<th>Owner</th>
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</tr>
<tr>
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<td></td>
</tr>
<tr>
<td>125</td>
<td>✓</td>
<td>125</td>
<td>Shimi Rii</td>
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<tr>
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<td>✓</td>
<td>100</td>
<td>Shimi Rii</td>
</tr>
<tr>
<td>75</td>
<td>✓</td>
<td>75</td>
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</tr>
<tr>
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<td>45</td>
<td>Shimi Rii</td>
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<tr>
<td>25</td>
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</tr>
<tr>
<td>5</td>
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<td>5</td>
<td>Shimi Rii</td>
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</table>

Position in: 22º 44.97’ N 158º 01.07’ W
Position out: 22º 45.818’ N 158º 01.392’ W

Average weather condition during incubation: 3/8 cloud cover; 15 kt easterlies
Average sea state during incubation: 6 ft

Begin Inoculation  __________________  End Inoculation  __________________
Filtration time  2010  
### Hawaii Ocean Time-series
#### HOT-252
#### In Situ Gas Array Data Sheet

<table>
<thead>
<tr>
<th>Operators: ah,ds,lf,bw</th>
<th>Operators: ah,ds,lf,bw</th>
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<tbody>
<tr>
<td>Date Deployed: 5/18/13</td>
<td>Date Recovered: 5/19/13</td>
</tr>
<tr>
<td>Time (HST): 0435</td>
<td>Time (HST): 0600</td>
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<td>158 1.069</td>
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#### Nitrogen Fixation Sample Processing Sheet

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<th>Date Spiked</th>
<th>Time Spiked</th>
<th>Date Filtered</th>
<th>Time Filtered</th>
<th>Comments</th>
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<tbody>
<tr>
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<td>5/18/13</td>
<td>0333</td>
<td>5/19/13</td>
<td>0715</td>
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<tr>
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<td>0333</td>
<td>5/19/13</td>
<td>0905</td>
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<td>5/18/13</td>
<td>0333</td>
<td>5/19/13</td>
<td>0715</td>
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</tbody>
</table>

Are samples also spiked with C13?  **X** Yes  ___ No

# 1’s = fraction
# 4’s = whole
## Hawaii Ocean Time-series
### HOT 252
#### Chlorophyll Grab Sample Sheet

<table>
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<th>Time (HST)</th>
<th>Location</th>
<th>GS #</th>
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<td>Transit to Kaena</td>
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G-1000, hot-252_s2_c13.cnv

Pressure [dbar]

Salinity, Practical [PSU]

Oxygen [μMol/Kg]

Fluorescence, Seapoint

ISUS [voltage]
Hawaii Ocean Time-Series CONSOLE LOG

Station: 1
Cast: 1

Latitude
start: 21° 19.525'
end: 21° 19.509'

Longitude
start: 158° 19.522'
end: 158° 19.510'

Depth of water: 2660 meters

Date (GMT): 05/16/13

Pressure on Deck
Begin: -0.40
End: -0.32

Start Log: 00:28
Time: 01:49

In Water: 00:31

Out of Water:
Max cast pressure: 1020 dbar

Trip/ Niskin | Time stopped | Confirm tripped | Pressure | Target Depth | Comments
--- | --- | --- | --- | --- | ---
1 | 01:02:20 | 01:02:40 | 1020 | 1020 | 
2 | 05:40 | 06:00 | 899 | 900 | 
3 | 10 | 899 | 900 |
4 | 09:20 | 09:40 | 750 | 750 |
5 | 11:20 | 11:40 | 700 | 700 |
6 | 14:20 | 14:40 | 600 | 600 |
7 | 17:00 | 17:20 | 500 | 500 |
8 | 19:40 | 20:00 | 400 | 400 |
9 | 21:40 | 22:00 | 350 | 350 |
10 | 23:30 | 23:50 | 300 | 300 |
11 | 23:30 | 23:50 | 249 | 250 |
12 | 24:00 | 24:20 | 225 | 225 |
13 | 24:40 | 25:00 | 199 | 200 |
14 | 30:30 | 30:50 | 174 | 175 |
15 | 32:10 | 32:30 | 148 | 150 |
16 | 33:40 | 34:00 | 124 | 125 |
17 | 35:00 | 35:20 | 114 | 115 |
18 | 36:20 | 36:40 | 99 | 100 |
19 | 38:00 | 38:20 | 75 | 75 |
20 | 39:10 | 39:30 | 61 | 60 |
21 | 40:30 | 40:50 | 44 | 45 |
22 | 42:00 | 42:20 | 24 | 25 |
23 | 47:00 | 47:20 | 8 | 5 | Check the file
24

"Salt soak up to 20 dbar. No mixed layer - lots of intrusions."

---

Console Log Sheet - Rev 10 (24)
<table>
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<th>Comments</th>
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Hawaii Ocean Time-Series CONSOLE LOG

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- Pinger
- Altimeter
- Transmissometer
- BEACH Sea Tech Fluorometer
- OTG Seapoint Fluorometer
- ISUS
- PO Fluorometer

- 24 bottles @ 95 dbar
- Target depth: 200 dbar
- Mixed to 145 dbar

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Station: 2, Cast: 1

- Latitude start: 22 45.024
  - end: 22 44.995
- Longitude start: 158 1.060
  - end: 158 1.063
- Depth of water: 4743 meters
- Date (GMT): 5/17/13
- Pressure on Deck
  - Begin: -0.39
  - End: -0.39
- Pressure Target
  - In Water: 1041
  - Out of Water: 1115

Max cast pressure: 207 dbar

NOT fixed, mark reads 27 dbar

Console Log Sheet - Rev 10 (24)
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Hawaii Ocean Time-Series CONSOLE LOG

Cast type | Bottle type | SST | Operator
---|---|---|---
Cast type | Bottle type | SST | Operator

- Pinger
- Altimeter
- Transmissometer
- BEACH Sea Tech Fluorometer
- OTG Seapoint Fluorometer
- ISUS
- PO Fluorometer

Mixed to 45 dbar
Intrusions between 45 and 190 dbar

Station: 2
Cast: 2

Latitude
start: 22 44.993
end: 22 44.976

Longitude
start: 158 1.065
end: 158 1.070

Depth of water:
47.43 meters

Date (GMT):
05/17/13

Pressure on Deck
begin: -0.37
end: -0.30

Start Log: 1250
In Water: 1258

Time:
Out of Water:
1409

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### Hawaii Ocean Time-Series CONSOLE LOG

**Cast type**: G3000

**Bottle type**: 12L

**SST**: 24.79

**Operator**: CF

#### DEEP CAST

- **Station**: 2
- **Cast**: 3

**Latitude**
- **start**: 22 45.019
- **end**: 22 45.017

**Longitude**
- **start**: 157 59.981
- **end**: 157 59.983

**Depth of water**: 4741 meters

**Date (GMT)**: 05/17/13

**Pressure on Deck**
- **Begin**: -0.38 dbar
- **End**: -0.54 dbar

**Time Confirm Pressure Target**

**Max cast pressure**: 4810 dbar

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- Mixed to 35 dbar
- Intrusions below to 140 dbar
- Sal min @ 500

*In Water*:
- Trips
- Niskin
- Time
- Confirm Pressure
- Target Depth

**Out of Water**:
- Trips
- Niskin
- Time
- Confirm Pressure
- Target Depth

---

*Comments*

4 m off keel

-went up to 1150, had to go back down to 1200.
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Hawaii Ocean Time-Series CONSOLE LOG

- SHALLOW PO -

Station: 2  Cast: 4

Latitude
start: 22 45 00N
end: 22 45 00N

Longitude
start: 158 06 03W
end: 158 06 03W

Depth of water:
4743 meters

Date (GMT):
05 / 14 / 13

Pressure on Deck

Begin: -0.40
End: -0.41

Time:
Start Log: 2145
In Water: 2154
Out of Water: 23:28

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### Hawaii Ocean Time-Series

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**Latitude:** 22 45 009  
**Date:** 5/17/13  
**Operator:** CF  

**Cast:** 4  
**Longitude:** 158 0 032  
**Time (GMT):** 21:54  

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### Hawaii Ocean Time-Series CONSOLE LOG

#### Station: 2
- **Cast:** 5
- **Latitude**
  - **Start:** 22 45.622
  - **End:** 22 44.974
- **Longitude**
  - **Start:** 157 59.645
  - **End:** 157 59.644
- **Depth of water:** 4740 meters
- **Date (GMT):** 05/18/13
- **Pressure on Deck**
  - **Start Log:** 00:33
  - **End Log:** 00:39
- **Max cast pressure:** 1020 dbar

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**Console Log Sheet - Rev 10 (24)**
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Hawaii Ocean Time-Series CONSOLE LOG

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- Pinger
- Altimeter
- Transmissometer
- BEACH Sea Tech Fluorometer
- OTG Seapoint Fluorometer
- ISUS
- PO Fluorometer
- mix layer - 45
  - sal min - 325
  - sal intrusion - 50 + 160

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  - end: 22 45.022
- Longitude
  - start: 157 59.649
  - end: 157 59.645
- Depth of water:
  - 4740 meters
- Date (GMT):
  - 5 118 13
- Pressure on Deck
  - Time:
- Begin: -0.41
- End: -0.34
- Max cast pressure:
  - 1020 dbar

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## Hawaii Ocean Time-Series CONSOLE LOG

### Operator

- Pinger
- Altimeter
- Transmissometer
- BEACH Sea Tech Fluorometer
- OTG Seapoint Fluorometer
- ISUS
- PO Fluorometer
- mix layer: 40
  - sal min: 540
  - sal intrusion: 40 - 160
  - 600 - 950

### Station: 2

### Cast: 7

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### Depth of water:

- 474.2 meters

### Date (GMT):

- 5/18/13

### Pressure on Deck

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### In Water:

- 06/12

### Max cast pressure:

- 1021 dbar

### Out of Water:

- 07/20

### Trip/ Niskin | Time stopped | Confirm tripped | Pressure | Target Depth | Comments |
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### Hawaii Ocean Time-Series CONSOLE LOG

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- Pinger
- Altimeter
- Transmissometer
- BEACH Sea Tech Fluorometer
- OTG Seapoint Fluorometer
- ISUS
- PO Fluorometer

**Station:** 2  
**Cast:** 8

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**Pressure on Deck:**
- Begin: -0.38 dbar
- End: -0.33 dbar

**Max cast pressure:**
- 10.28 dbar

### Trips/ Niskins

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**Comments:**
- mix layer: 30 35
- sal min: 530
- intrusions: [35-200]
- [600-800]
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### Hawaii Ocean Time-Series CONSOLE LOG

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- Pinger
- Altimeter
- Transmissometer
- BEACH Sea Tech Fluorometer
- OTG Seapoint Fluorometer
- TSUS
- PO Fluorometer
- mix layer: 40
  - sal min: 510
  - sal intrusions: [40 - 180]
  - [560 - 860]

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Hawaii Ocean Time-Series CONSOLE LOG

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- Pinger
- Altimeter
- Transmissometer
- BEACH Sea Tech Fluorometer
- OTG Seapoint Fluorometer
- ISUS
- PO Fluorometer

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Station: 2  
Cast: 10  
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- Depth of water: 4741 meters
- Date (GMT): 05/18/13

**Pressure on Deck**

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**Max cast pressure:** 1700 dbar

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Hawaii Ocean Time-Series CONSOLE LOG

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- Pinger
- Altimeter
- Transmissometer
- BEACH Sea Tech Fluorometer
- OTG Seapoint Fluorometer
- ISUS
- PO Fluorometer

Station: 2  Cast: 11

**Latitude**
- start: 22 44.987
- end: 22 45.009

**Longitude**
- start: 157 59.989
- end: 157 59.984

**Depth of water:** 4741 meters

**Pressure on Deck**
- Begin: -0.41
- End: -0.35

**Date (GMT):** 05 / 18 / 13

**Time:**
- Start Log: 1751
- In Water: 1758
- Out of Water: 1858

**Max cast pressure:** 1020 dbar

### Trip/ Niskin | Time stopped | Confirm tripped | Pressure | Target Depth | Comments
---|---------------|----------------|----------|--------------|-----------------------------
1 | 18:26:45 | 18:27:15 | 1020 | 1020 | Sal min
2 | 22:30 | | 499 | 500 | 
3 | 44:10 | | 175 | 175 | 
4 | :20 | | 175 | 175 | 
5 | 45:56 | | 150 | 150 | 
6 | :00 | | 150 | 150 | 
7 | 48:10 | | 125 | 125 | 
8 | 20 | | 125 | 125 | 
9 | 49:46 | | 100 | 100 | 
10 | :56 | | 100 | 100 | 
11 | 51:15 | | 75 | 75 | 
12 | :25 | | 75 | 75 | 
13 | 52:10 | | 45 | 45 | 
14 | :20 | | 45 | 45 | 
15 | 55:00 | | 25 | 25 | 
16 | :10 | | 25 | 25 | 
17 | 57:15 | | 6 | 5 | 
18 | :25 | | 6 | 5 | 
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- Pinger
- Altimeter
- Transmissometer
- BEACH Sea Tech Fluorometer
- OTG Seapoint Fluorometer
- ISUS
- PO Fluorometer

*record did not start until 30 min cast
mixed to 20' sal int: 20 - 186

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Max cast pressure: 1020 dbar
Out of Water: 2205

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Hawaii Ocean Time-Series CONSOLE LOG

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- Pinger
- Altimeter
- Transmissometer
- BEACH Sea Tech Fluorometer
- OTG Seapoint Fluorometer
- ISUS
- PO Fluorometer

**Note:** Date A

**Station:** 2  
**Cast:** 13

**Latitude**  
start: 22 44.852  
end: 22 44.986

**Longitude**  
start: 157 58.570  
end: 157 58.576

**Depth of water:**  
473.5 meters

**Date (GMT):** 05/18/13

**Pressure on Deck**  
**Time:**

Begin: -0.40  
End: -0.35

**Max cast pressure:** 1020 dbar

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### Hawaii Ocean Time-Series CONSOLE LOG

**Cast type**: G1000GB **Bottle type**: 12L **SST**: 25.7 **Operator**: DM

- Pinger
- Altimeter
- Transmissometer
- BEACH Sea Tech Fluorometer
- OTG Seapoint Fluorometer
- ISUS
- PO Fluorometer
- **Mix - 40**

#### Station: 2  
**Cast**: 14

**Latitude**
- **start**: 22 45.017  
- **end**: 22 44.993

**Longitude**
- **start**: 157 59.943  
- **end**: 158 0.003

**Depth of water**: 47.42 meters

**Date (GMT)**: 05/19/13

**Pressure on Deck**
- **Begin**: -0.39  
- **End**: -0.33

**Time**
- **Start Log**: 0250  
- **In Water**: 0253  
- **Out of Water**: 0354

**Max cast pressure**: 1020 dbar

#### Trip/  
**Niskin**  
**Time stopped**  
**Confirm tripped**  
**Pressure**  
**Target Depth**  
**Comments**

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Hawaii Ocean Time-Series CONSOLE LOG

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- Pinger
- Altimeter
- Transmissometer
- BEACH Sea Tech Fluorometer
- OTG Seapoint Fluorometer
- ISUS
- PO Fluorometer

- mix layer: 30
  - sal min: 520
  - sal intrusion: 40 - 200

**Station: 2  Cast: 15**

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Comments:
- Niskin stopped tripped Depth
- [Winch went to 1033 dbar, but was corrected]

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**Hawaii Ocean Time-Series CONSOLE LOG**

**Station:** 50  
**Cast:** 1

<table>
<thead>
<tr>
<th>Latitude start:</th>
<th>Longitude start:</th>
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</thead>
<tbody>
<tr>
<td>22 45.865</td>
<td>157 55.280</td>
</tr>
<tr>
<td>end: 22 45.912</td>
<td>end: 157 55.362</td>
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<table>
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<tr>
<th>Depth of water:</th>
<th>Date (GMT):</th>
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<tr>
<td>4705 meters</td>
<td>05/19/13</td>
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<table>
<thead>
<tr>
<th>Pressure on Deck</th>
<th>Time:</th>
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<tbody>
<tr>
<td>Begin: -0.32</td>
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<tr>
<td>End: -0.35</td>
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<table>
<thead>
<tr>
<th>Max cast pressure:</th>
<th>Out of Water:</th>
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<tbody>
<tr>
<td>200 dbar</td>
<td>05/20/13</td>
</tr>
</tbody>
</table>

**Trip/ Niskin** | **Time** | **Confirm tripped** | **Pressure** | **Target Depth** | **Comments**
---|----------|---------------------|--------------|------------------|-----------------|
1 | 00:03:10 | 00:03:30            | 199          | 200              |                 |
2 |         |                     | 199          | 200              |                 |
3 | 04:40   |                     | 175          | 175              |                 |
4 | 06:40   |                     | 151          | 150              |                 |
5 | 06:40   |                     | 124          | 125              |                 |
6 | 07:50   |                     | 99           | 100              |                 |
7 | 09:00   |                     | 80           | 80               |                 |
8 | 09:40   |                     | 75           | 75               |                 |
9 | 11:10   |                     | 44           | 45               |                 |
10|         |                     | 44           | 45               |                 |
11| 12:20   |                     | 30           | 30               |                 |
12| 13:00   |                     | 25           | 25               |                 |
13|         |                     | 25           | 25               |                 |
14| 13:10   |                     | 25           | 25               |                 |
15|         |                     | 25           | 25               |                 |
16| 13:50   |                     | 25           | 25               |                 |
17|         |                     | 25           | 25               |                 |
18| 00:00   |                     | 25           | 25               |                 |
19|         |                     | 25           | 25               |                 |
20|         |                     | 25           | 25               |                 |
21|         |                     | 25           | 25               |                 |
22| 17:50   |                     | 5            | 5                |                 |
23| 19:10   |                     | 1            | 1                | Dan Sadler, @ surface |
24|         |                     |              |                  |                 |

**Note:** Day △
<table>
<thead>
<tr>
<th>Niskin #</th>
<th>Depth</th>
<th>Serial #</th>
<th>Comments</th>
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- NO SALTS -
Hawaii Ocean Time-Series CONSOLE LOG

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<th>Station:</th>
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<td>Cast:</td>
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<tr>
<td>start: 21 50 801</td>
<td>start: 158 21 824</td>
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<tr>
<td>end: 21 50 822</td>
<td>end: 158 21 829</td>
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<tr>
<td>Depth of water:</td>
<td>Date (GMT):</td>
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<tr>
<td>2429 meters</td>
<td>05/20/13</td>
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<table>
<thead>
<tr>
<th>Pressure on Deck</th>
<th>Time:</th>
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<tbody>
<tr>
<td>Begin: -0.37</td>
<td>Start Log: 06:38</td>
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<tr>
<td>End: -0.52</td>
<td>In Water: 06:46</td>
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<tr>
<td>Max cast pressure: 2445 dbar</td>
<td>Out of Water: 08:46</td>
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### Trip/Niskin | Time stopped | Confirm tripped | Pressure | Target Depth | Comments |
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### Notes:
- Pinger: 2100 - 2150 (30m/min)
- Altimeter
- Transmissometer
- BEACH Sea Tech Fluorometer
- OTG Seapoint Fluorometer
- ISUS
- PO Fluorometer
- Mix layer = 20m
  sal min = 410

Console Log Sheet - Rev 10 (24)
<table>
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</table>
HOT-252

CTD Configurations

CTD: 850
Deck Unit: 111361
Pressure: 1430
Carousel: 518
T₁: 1416  T₂: 5119
C₁: 3162  C₂: 3984
O₁: 1601  O₂: 43982
Pump: 968  Pump₂: 368
Fluorometer: 3095
Altimeter: 9149
Bucket Thermometer: 201002

Cruise Participants

A. Harlan
D. Sadler
C. Fumur
J. Snyder
M. Grissom
B. Updyke
C. Schuacz
F. Santiago-Mandujano
D. McCoy
B. Watkins
S. Ri;
D. Viviani
B. Barone
S. Thomas
Brandon Carter - Scientist UCSC
T. Goodman - OTC (Lead)
D. Fitzgerald - OTC
1900 Depart Snug
1945 Safety/Science Meeting
2015 Fire/Abandon Ship Drills
2030 Transit to Kahe
2200 Navy occupying station Kahe; moving to [21° 19.5' N; 158° 19.5' W] southwest of Kahe station
2220 Arrive @ new location for Kahe Pt.
2230 start hyperpro (before weight cast due to timing)
2315 End Hyperpro - 3 casts
2320 Start weight Cast
2350 End weight Cast
0028 Start Station 1 Cast 1 - G1000 GPS
CHANGE TO STATION 10 CAST 1/4 (See p. 67)
0151 End S1C1 - 24 marks OK
0200 Transit ALOHA
0942 Arrived to ALOHA Sta.
Using trowl winch for CTD deployment

CTD in air, empty: 1300 lbs

Roseffe refurbished and painted before cruise:
- New hardware
- New ISUS bracket (no more battery pack)

* Misread instructions in manual when switching con files.
1000 Start dead trap deployment
1020 Deployed @ 22 44.990'N 158 2.140'W
1025 Transit 1 mile east for CTD deploy
1041 Start sac1 - 61000 GPs
   • Changed con file on ACQ to GOFS_con, should have left it @ GOFS_con
   • Didn't start recording till just before upcast
1120 End sac1 - 24 marks Ok
   • Niskin #2 was closed, but was empty upon retrieval; some valves weren't closed tight enough.
   • Schwartz noted niskin #2 wasn't fired upon reaching the surface, but was bumped when moving to the staging bay, causing the bottle to fire. Mrk file reads bottle firing at 07 dbar
1250 Start station 2 Cast 2 - 61000 GPs
1415 End station 2 Cast 2 - 24 marks Ok
1510 START P.P. DEPLOYMENT
   22° 44.97' 158° 01.07'
1530 PP Array Deployed; transit to center.
1543 Start station 2 Cast 3 - 65000 GPs
   - DEEP CAST -
17:40 480 m dbar, 4 m off bottom
   [22 45.019'N; 157 59.98'W]
- DEEP CAST- (continued...)
  At the 1200 dpb stop, the package came up to 1150 dpb, was sent back down to 1200 dpb.

 1940 End Station 2 Cast 3 - 24 marks ok

1945 Transit to Pump Tank

2035 Start Net Tow

2110 End Net Tow, Transit to Center

2145 Start Station 2 Cast 4 - 61000 Gps
- SHALLOW PO CAST -

2331 End Station 2 Cast 4 - 24 marks ok

2338 Start Hyperpro

0026 End Hyperpro

0033 Start Station 2 Cast 5 - 61000 Gps

0157 End Station 2 Cast 5 - 24 marks ok

0251 Start Station 2 Cast 5 - 61000 Gps

0405 End Station 2 Cast 5 - 24 marks ok

0415 Transit pump run

May 18, 2013
Need the second digital clock.
Also one of the digital alarm clocks.

Bottle #188 broke.
Replace SN 188 after cruise.

Branden -
Replace Bottle #188 in Box #8.
(177 used as temporary replacement)
0537  Recovering PP array
          22 45.818' N  158.1 392' W
0550  PP array on deck
0555  Start station 2 cast 7 - 61000 GPS
0720  End station 2 cast 7 - 23 marks OK
0759  Net tow
0829  Start 2nd Net Tow
        Broke salt bottle SN 188. Replaced w/ unsampled bottle SN 177. Need to replace SN 188 after cruise.
0900  End 2nd Net Tow
0907  Start station 2 cast 8 - 61000 GPS
        recording at 878 dbar down cast
1030  End station 2 cast 8 - 23 marks OK
1148  Start station 2 cast 9 - 61000 GPS
1315  End station 2 cast 9 - 22 Marks OK
1400  Start CTD Array Deployment
        [22 45.002' N ; 158.1 069' W]
1435  End CTD Deployment
1452 Start Station 2 Cast 10 - G2500 Gps
(1700 m cast)

1630 End Station 2 Cast 10 - 14 Marks Ok

1635 Transit to Pump Tanks

1751 Start Station 2 Cast 11 - G1000 Gps

1900 End Station 2 Cast 11 - 18 Marks Ok

2000 Start Net Tow

2030 End Net Tow

2053 Start Station 2 Cast 12 - G1000 Gps

2210 End Station 2 Cast 12 - 24 Marks Ok

2220 Start Net Tow

2250 End Net Tow

2345 Start Station 2 Cast 13 - G1000 Gps

May 19, 2013

0113 End Station 2 Cast 13 - 24 Marks Ok

0120 Transit Pump Run
- Ringer needs battery/repair
0250 Start Station 2 cast 14 - G1000 Gps

0357 End Station 2 cast 14 - 16 marks OK

0550 Start Station 2 cast 15 - C-1000 Gps

0700 End Station 2 cast 15 - 22 marks OK

0806 Net tow

0835 End net tow

0958 Start Station 2 cast 16 - C-5000 Gps

0955 Pinger appears to be out of battery power, using altimeter for depth reading

1051 9 m off bottom @ 22° 45.060'N 157° 59.988'W

1240 End Station 2 cast 16 - 19 marks OK

1300 Start ACO

1450 End ACO

1540 Start Gas Array Recovery

[22° 48.233'N, 158° 0.766'W]

1601 End GAs Array Recovery

1605 Transit to Pump Tanks

1615 Transit to Sed Traps
1645 START SED TRAP RECOVERY
22° 48.94' 158° 03.21'

1720 End Sed Trap Recovery

2000 Start AC9

2140 End AC9

2200 Start Hyperpro

2235 End Hyperpro

1245 Start Station 50 Cast 1 - G200GPS
- WHOTS CAST -

2300 Start Cycle 1
2316 " " 2
2329 " " 3
2342 " " 4
2355 " " 5 - fire 23 bottles

00:25 End Station 50 Cast 1 - 23 MARKS OK

01:40 22°44.14'N, 157°55.57'W
released ARPEX float

Depart to Kaena Sta.

Renamed all files from Station 4 cast 1 to Station 10
cast 1 as requested by Matt Church
0638 Start station 6 cast 1 - 05000 GPS
0744 10 m off bottom @ 21 50.808'N 158 21.800'W
0849 End station 6 cast 1 - 13 marks OK
0858 Transit to snug harbor
1700 Going into Honolulu harbor
1730 Arrived to snug.