Hawaii Ocean Time-series Program

HOT 225
## Hawaii Ocean Time-Series
**HOT-225**

**KAHE Station Data Sheet**

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**Notes:** JB pb on O2 depths
Hawaii Ocean Time-series
HOT- **225**
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Notes:
Hawaii Ocean Time-series
HOT-225
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Operator(s): SC, BU

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Notes:
### Hawaii Ocean Time-series

**HOT- 225**

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#### Notes:
# Hawaii Ocean Time-series

**HOT-225**

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**Notes:**
- JB pb on all DEPTH
- # 17-24 not tripped
- Lost CTD signal @1400m during up cast
- O2 sampled according to best guess, nutrients sampled according to lables
Hawaii Ocean Time-series  
HOT-225  
PO Shallow Data Sheet

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Notes: JB pb on all depths  
Niksin #16 was leaking  
*please collect triplicate DOC profile*
### Hawaii Ocean Time-series
**HOT- 225**
**PC/PN Data Sheet**

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**Notes:** Red stuff on sample #4, two filters for carboy #2.
### Hawaii Ocean Time-series
**HOT- 225**
Particulate Phosphorus Data Sheet

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Hawaii Ocean Time-series  
**HOT-225**  
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Keeling 23b = 0045
Hawaii Ocean Time-series  
HOT-225  
Gas Array Experiment Data Sheet

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Cast #  9  
Operator(s): DS, LF, AH

Date: 09-04-10  (HST)  
Time: 0300  (HST)

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Notes:
Hawaii Ocean Time-series
HOT-225
OPEN CAST Data Sheet

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**Hawaii Ocean Time-series**  
**HOT- 225**  
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**Notes:**
## Hawaii Ocean Time-series

### HOT- 225

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**Notes:**
Hawaii Ocean Time-series
HOT- 225
ATP Data Sheet

Station #  2
Cast #  13
Date:  4/7/10 (HST)
Operator(s): SC, BU
Pre-screen mesh size:  202um
Blank #'s  28, 29, 30

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Notes:
Hawaii Ocean Time-series
HOT-225
Phycoerythrin Data Sheet

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Cast # 14
Operator(s): SC, BU
Pre-screen mesh size: None
Date: 09-04-10 (HST)
Time: 1700 (HST)

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Notes:
### Hawaii Ocean Time-series
#### HOT-225
#### HPLC & Chl a. Bottle Data Sheet

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**Notes:** DO NOT PRE-SCREEN
**Hawaii Ocean Time-series**  
**HOT-225**  
**PUR Data Sheet**

Station # | 2  
Cast # | 16  
Operator(s): SC, BU  
Date: 09-04-10 (HST)  
Time: 2300 (HST)

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Notes: PO group will sample niskin #1 for salts before it is drained for CMORE.
## Hawaii Ocean Time-series
### HOT-225
### WOCE Deep 2 Data Sheet

**Station #**: 2  
**Date**: 09-05-10 (HST)  
**Cast #**: 17  
**Time**: 0130 (HST)  
**Operator(s)**: SC, BU

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**Notes:**
Hawaii Ocean Time-series
HOT-225
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Notes:
Hawaii Ocean Time-series
HOT- 225
STATION Kaena Data Sheet

Station # 6  Date: 09-05-10 (HST)
Cast # 1  Time: 2000 (HST)
Operator(s): SC, BU

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Notes:
### Hawaii Ocean Time-series

#### HOT-225

#### Sediment Trap Data Sheet

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<th>Type of traps:</th>
<th>PIT</th>
<th>Date:</th>
<th>09-02-10</th>
<th>Wind:</th>
<th>13 KTS</th>
<th>Sea State:</th>
<th>2-4FT</th>
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<td>SC, BU, BW</td>
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<tr>
<td>Position in:</td>
<td>22°44.997’N 158°4.229’W</td>
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</table>

**Time in:** 150 m X

Notes: 2341 Traps in water

2347- Array released

---

| Operator(s): | AH, LF, DS, BW | Date: | 9/5/10 | Wind: | | Sea state: | |
|---------------|----------------|-------|--------|-------|------------|----------------|
| Position out: | 22° 46.9 158° 17.9 | | | | | |

**Overall sea state:**

---

**Time out:** 150 m 0715

Notes:

---

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<tr>
<th>(HST)</th>
<th>300 m</th>
<th>500 m</th>
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</thead>
<tbody>
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</table>
Data Sheet for Sediment Trap Volumes

Cruise #: 225
Analyst: ah

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>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>150</td>
<td>39.2</td>
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<tr>
<td>B</td>
<td>150</td>
<td>37</td>
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<tr>
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<tr>
<td>E</td>
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<td>42</td>
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Hawaii Ocean Time-series
HOT-225
In Situ Primary Production Data Sheet

Operator(s):

Date in: 9/3/10  
Time in: 0500 (HST)

Date out: 09-03-10  
Time out: 2030 (HST)

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Position in: 22° 44.883'N  158° 3.244'W
Position out: 22° 45.998’N  158° 7.285’W

Average weather condition during incubation:

Average sea state during incubation:

Notes:

Begin Inoculation
End Inoculation
Filtration time
Hawaii Ocean Time-series  
HOT-225  
In Situ Gas Array Data Sheet

Operator(s): AH, LF, DS, DB, BW
Date in: 9/4/10

Time in: 0538
Position in: 22° 47.398 N  158° 0.735 W

Notes:

Operator(s): AH, LF, DS, DB, BW
Date out: 9/5/10

Time out: 0835
Position out: 22° 49.005  158° 10.578

Notes:
G-1000, hot-225_s2_c16.cnv

Pressure [dbar]

Salinity, Practical [PSU]

Oxygen [uMol/Kg]

ISUS [voltage]

Fluorescence, Seapoint
G-1000, hot-225_s50_c1.cnv

Pressure [dbar]

Salinity, Practical [PSU]

Oxygen [uMol/Kg]

Temperature, ITS-90 [deg C]

Fluorescence, Seapoint
**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 change to 09/03/10

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

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<th>Operator</th>
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<tr>
<td>6' 1000</td>
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<td>PSL</td>
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- **Pinger**
- **Altimeter**
- **Transmissometer**
- **BEACH Sea Tech Fluorometer**
- **OTG Seapoint Fluorometer**
- **ISUS**
- **PO Fluorometer**

### Station: 2  Cast: 1

<table>
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<tr>
<th>Latitude</th>
<th>Longitude</th>
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<td>start: 22 45.08</td>
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<td>end: 22 45.13</td>
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<th>Depth of water: 4759 meters</th>
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<td>Begin: -0.17</td>
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<td>End: -0.19</td>
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**Comments:** NO SALINITIES TAKEN
Hawaii Ocean Time-Series CONSOLE LOG

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<th>Cast type</th>
<th>Bottle type</th>
<th>SST</th>
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<tr>
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- Pinger
- Altimeter
- Transmissometer
- BEACH Sea Tech Fluorometer
- OTG Seapoint Fluorometer
- ISUS
- PO Fluorometer

Station: 2  Cast: 2

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Max cast pressure: 1020 dbar

Out of Water: 1241

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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

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<td>Pressure Target Depth</td>
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Hawaii Ocean Time-Series CONSOLE LOG

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

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Cast: 4

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Depth of water: 1447 meters
Date (GMT): 09 / 03 / 10

Pressure on Deck
- Begin: -0.13
- End: N/A

Pressure Target
- Trip 1: 4808 dbar

Max cast pressure: 4808 dbar
Out of Water: 1916

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

### Salinity Sample Log Sheet

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**Cast #: 4**  
**Cruise #: HOT-225**  
**Sampler: cF/80**

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*NOTE: Had communication error during mission, Niskin #14 N/A, 4600-4800 m missed.*

**Fired each depth except as noted.** Only sampling to 4000 m.
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Hawaii Ocean Time-Series CONSOLE LOG

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<th>Operator</th>
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- Pinger
- Altimeter
- Transmissometer
- BEACH Sea Tech Fluorometer
- OTG Seapoint Fluorometer
- ISUS
- PO Fluorometer

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

Station: 2
Latitude: 22 44.92
Date: 09/10/910
Operator: CF

Cast: 5
Longitude: 157 58.67
Time (GMT): 00 34 (in water)

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- F_max =
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WOCE - Shallow Cast Sheet - Rev 2 (1)
# Hawaii Ocean Time Series

## Station #: 2

## Cast #: 5

### Cruise #: HOT-225

### Sampler:

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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: 6

- **Latitude**
  - start: 22.45.01
  - end: 22.45.07
- **Longitude**
  - start: 157.59.80
  - end: 157.59.40
- **Depth of water:** 474.2 meters
- **Date (GMT):** 09/04/10
- **Pressure on Deck**
  - **Begin:** -0.11
  - **End:** -0.09
  - **In Water:** 0356
  - **Out of Water:** 0503
- **Max cast pressure:** 1020 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

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Hawaii Ocean Time Series

Salinity Sample Log Sheet

Station #: Z

Cruise #: HOT-22S

Sampler: CV, DK, PL
### Hawaii Ocean Time-Series CONSOLE LOG

**Cast type**: 12L
**Bottle type**: SST
**SST** 25.68
**Operator**: PSL

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

#### Station: 2

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#### Pressure on Deck

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**Trip/ Niskin**

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**Max cast pressure:** 1020 dbar

**Out of Water:** 1041
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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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end: 22 45.88  end: 157 59.67
Depth of water: 4736 meters
Date (GMT): 09/04/10
Pressure on Deck
Begin: -0.12  Start Log: 1251
End: -0.10  In Water: 1255
Max cast pressure: 1020 dbar
Out of Water: 1354

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Hawaii Ocean Time-Series CONSOLE LOG

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

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Station: 2  Cast: 10

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  start: 22 47.46
  end: 22 47.48
- Longitude
  start: 158 0.128
  end: 157 59.853
- Depth of water: 4728 meters
- Date (GMT): 09 / 04 / 11
- Pressure on Deck
  Begin: 1551
  End: 1555
- In Water: 1555
- Out of Water: 1648
- Max cast pressure: 1020 dbar

Comments

Console Log Sheet - Rev 10 (24)
Hawaii Ocean Time Series
Salinity Sample Log Sheet

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

Station: 2
Cast: 11

- Latitude
  - start: 22 48.988
  - end: 22 48.945
- Longitude
  - start: 157 59.742
  - end: 157 59.933
- Depth of water: 4707 meters
- Date (GMT): 09/04/10
- Pressure on Deck
  - Begin: -0.15
  - End: -0.12
- In Water: 1757
- Out of Water: 1857
- Max cast pressure: 1020 dbar

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Console Log Sheet - Rev 10 (24)
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- Pinger
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- Transmissometer
- BEACH Sea Tech Fluorometer
- OTG Seapoint Fluorometer
- ISUS
- PO Fluorometer

Station: Cast: 2 12

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Depth of water: 4748 meters

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Max cast pressure: 1020 dbar

Date (GMT): 09/04/10

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Comments: Sal min

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Hawaii Ocean Time-Series CONSOLE LOG

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

*NOTE: Day Change* to 09/01/10*

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Station: 2

Cast: 13

- Latitude
  - start: 22 45.124
  - end: 22 45.141
- Longitude
  - start: 152 58.693
  - end: 152 58.082
- Depth of water: 47.32 meters
- Date (GMT): 09/01/11
- Pressure on Deck
  - Begin: 0.13
  - End: 0.13
- Time:
  - Start Log: 23.48
  - In Water: 23.53
- Max cast pressure: 1020 dbar

Comments:

- Salmin

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

Cast type: Operator

Bottle type

SST

Pinger

Altimeter

Transmissometer

BEACH Sea Tech Fluorometer

OTG Seapoint Fluorometer

ISUS

PO Fluorometer

Depth of water:

Pressure on Deck

Max cast pressure:

Station: 2

Cast: 14

Latitude

Longitude

start: 22 45.04

start: 157 59.52

end: 22 45.07

end: 157 59.12

Date (GMT):

09/05/11

Time:

Begin: -0.17

End: -0.11

Start Log: 0253

In Water: 0256

Out of Water: 0359

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# Hawaii Ocean Time-Series CONSOLE LOG

## Operator

- **Cast type**: G-1000
- **Bottle type**: 12L
- **SST**: 25.70
- **Operator**: P3L

### Equipment Used

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

### Data

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Hawaii Ocean Time-Series CONSOLE LOG

### Cast Details
- **Cast type**: 16
- **Bottle type**: 412L
- **SST**: 25.60
- **Operator**: PSL

### Instrument Details
- **Pinger**
- **Altimeter**
- **Transmissometer**
- **BEACH Sea Tech Fluorometer**
- **OTG Seapoint Fluorometer**
- **ISUS**
- **PO Fluorometer**

### Station and Date
- **Station**: 2
- **Date (GMT)**: 09/05/10

### Pressure on Deck
- **Begin**: -0.08
- **End**: -0.12

### Max cast pressure
- **1020 dbar**

### Target Depth
- **Station**: 2
- **Cast**: 16

### Trip Details

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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:** 17

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**Depth of water:** 4744 meters  
**Date (GMT):** 09/10/04 11:10  
**Pressure on Deck:** 1503 dbar

**Max cast pressure:** 4807 dbar  
**Time:**  
Begin: -0.17  
End: -0.33

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Hawaii Ocean Time-Series CONSOLE LOG

<table>
<thead>
<tr>
<th>Cast type</th>
<th>Bottle type</th>
<th>SST</th>
<th>Operator</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-200, 200</td>
<td>12L</td>
<td>25.65</td>
<td>CF</td>
</tr>
</tbody>
</table>

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

Station: 50  Cast: 1

<table>
<thead>
<tr>
<th>Latitude</th>
<th>Longitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>start: 22 46.003</td>
<td>start: 154 56.090</td>
</tr>
<tr>
<td>end: 22 46.080</td>
<td>end: 157 55.536</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Depth of water:</th>
<th>Date (GMT):</th>
</tr>
</thead>
<tbody>
<tr>
<td>4713 meters</td>
<td>09/05/10</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Pressure on Deck</th>
<th>Time:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Begin: -0.12</td>
<td></td>
</tr>
<tr>
<td>End: -0.15</td>
<td></td>
</tr>
<tr>
<td>Max cast pressure: 760 dbar</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Trip/ Niskin</th>
<th>Time stopped</th>
<th>Confirm tripped</th>
<th>Pressure</th>
<th>Target Depth</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>- NO Samples Taken -</td>
</tr>
<tr>
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</table>

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

<table>
<thead>
<tr>
<th>Cast type:</th>
<th>Bottle type</th>
<th>SST</th>
<th>Operator</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAENA</td>
<td>12 L</td>
<td>26.15</td>
<td>PSL</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Trip/ Niskin</th>
<th>Time stopped</th>
<th>Confirm tripped</th>
<th>Pressure</th>
<th>Target Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>07:02:40</td>
<td>07:02:40</td>
<td>2480</td>
<td>2500</td>
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<td>07:13:00</td>
<td>1999</td>
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<tr>
<td>3</td>
<td>07:22:55</td>
<td>07:24:30</td>
<td>1499</td>
<td>1500</td>
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<tr>
<td>4</td>
<td>07:34:05</td>
<td>07:35:35</td>
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<td>1000</td>
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<td>08:13:00</td>
<td>08:13:30</td>
<td>6</td>
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</table>

**Station:** 6  **Cast:** 1

- Latitude:
  - start: 21°50.80'
  - end: 21°50.78'
- Longitude:
  - start: 158°21.82'
  - end: 158°21.10'
- Depth of water: 2452 meters
- Date (GMT): Oct 6 2010
- Time:
  - Begin: -0.15
  - End: -0.23
- Pressure on Deck:
  - Start Log: 0600
  - In Water: 0603
  - Out of Water: 0815
- Max cast pressure: 2480 dbar

**Comments**

---

Console Log Sheet - Rev 10 (24)
<table>
<thead>
<tr>
<th>Niskin #</th>
<th>Depth</th>
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</tbody>
</table>
HOT 225  KM-1017

CTC Configurations  Proc.  200  Depart
CTO Serial:  850  Comports:  5 and 7 (new)
Deck Unit:  11361  O&Q  000  Fire and
Pressure:  1430  Comports: CTO serial
Carousol:  518  Upper sampling
L:  4116  T2:  44518  Secal Date: 496
C:  2218  C2:  3182  Remote Display
O:  43 916  O2:  43166
Pump:  494 Pumps:  1348
Fluorometer:  3199  Altimeter:  7769
Pinger:  2876  ISUS:  45
Bucket Thermometer:  701001

Cruise Participants
D. Böttjer  Derick Keo - URI/PO/Netlab
S. Corless  Rebecca Baltes - URI/PO/Download/Grad
L. Fujikai  Davilla Ridder - Teacher
S. Grant  Dana Spink - Teacher
A. Harlan  Mark Shanahan - Teacher
D. Sadler  Brandon Carter - NESO
B. Updyke  Dong-Illa Min - NOSA/UT
D. Viviani  
B. Watkin  
B. Wai  
C. Freeman  
P. Lethaby - chief sci  
J. Snyder  
C. Nosse  
J. Foley  
D. Wisegarver  
K. Vella & C - OTG  
T. Goodman - OTG  

2235  End Work
250  HyperPump
2305  HyperPump
2330  Start Work
00:00  2 M
03:20  UNS
AFTG
0800 Depart Snug

1900 Fire and Abandon Ship Drills / Safety Brief

1945 Science Meeting

2045 Dewalt Comb

2100 Deploy Comb

2145 Arrive Kame Pt. Start Weight Cast.

- Moderately heavy knocking from trawl wrench/stick in A-frame.

2235 End Weight Cast

0030 Hyperpro Cast start

0130 Hyperpro Cast End

0230 Start 3n 2 Cast 1

8:00 2 Modulo ERR During DownCast

10:20 Unsupported modem message 76 96 4E from SBE Carousel

After Firing Bottle #3

20 FA FC
RE-TERMINATE ELECTRICAL SEA-CABLE TO TROUBLE-SHOOT MODULO ERRS.
RESISTANCE IS VARIABLE BETWEEN 70 & 80 OHMS. WHEN CHECKING
OLD TERMINATION, IT WAS NOTICED THAT THE POLYPRO JACKET WAS
NOT WATER TIGHT & WATER WAS INSIDE THE JACKET.

Bottle # 561 Broken, Please Replace (Box # 3)
12 return # 980 to Box 20.
NIT 225  3 Sept 2010

0114  End D) Cast.

13 modulo error in total / 23,796 errors (11,832 Conf.)

0128  Start Niskin Cast (20 m)

0132  End Niskin Cast

0135  Rescue boat deployed - Man overboard drill

0150  Rescue boat recovered

SEA-CABLE

0819  Arrive at Sediment Trap deployment site

0910  Deploying Sediment Traps at 22°49.99' N, 158° 4.29' W

1047  Traps deployed 22°44.99'N 158° 4.29'W

1140  Start Sta. 2 Cast 1 (200 dbar)

1100  End D) Cast

- No modulo errors

1131  Start Sta. 2 Cast 2 (1000 dbar)

1205  1 modulo error @ 305 dbar

1217  1 modulo error @ 178 dbar, 1 @ 175 dbar

1241  End Sta. Cast 1.
Error: Failed to find serial component COM2 (ALG comp)
when opening C81RU_W
Re-started computer; worked fine after (?).

- S2CH - △

1840 Error on both computers - SeaSave
- RS-232 comm. timeout.
  You may try again or
  cancel data acquisition.
- Deck box keeping; all stop watch
  @ 1400m

535 Start
535 End
500 PP e
537 Start

MIS
J
F
D
B
INS
N
M

LOS
CT
Dec
Pack
1355 Start Stn 2 Cast 3 - 18 Marks OK
- No mobile errors

1435 End Stn 2 Cast 3

1500 PP array Deployed
- 22° 44.888′ N
- 158° 3.244′ W

1537 Start Stn 2 Cast 4\(\text{(extra marks missing see next pg)}\)
- Deep Cast

Module ERR 540, 255, 3650, 2, 3720
MISSED BOTTLE 1 AT 106°N
NO BOTTLES ARE FIRING
TRIED Y2 4600, NO CONFIRMS

FIRE BOTTLE WITH
DECK UNIT FIRE CONTROL
AT 1400, BOTTLE 1
MARKS ARE OFF BY
1 BOTTLE

Module ERR #6 @ 3000 m on upcast
@ 1400 ft
FIRE final/firing begin @ 1000 m

LOST COMMUNICATIONS WITH
CUC AT 1400, TURN OFF
DECK UNIT AND RECUE

PACKAGE
- 22° 44.941′ N
- 157° 59.103′ W
MEG OHM SEA-CABLE
FROM LAB JCT. BOX

WHITE 900 M. IN WSE
RED  4500 M.
GREEN 4500 M.

SEA CABLE GREEN CONDUCTOR IS BAD. CUT 50 M OFF OF SEA CABLE AND RE-TERMINATE.
CHANGE TO CLEAR CONDUCTOR IN SEA CABLE, WHICH IS NUMBER 3 AT SLIP RING JCT. BOX.

11 End S

2309 End N
2316 Hand
2330 End N
0025 Start
0151 End
HOT - 225

03 - Sept 10

cont'd S2CH...

- Extra mark @ 4500
- Missing mark @ 2600, 1600, # 1400
- 6m off bottom (4808)

1916 End Sth 2 Cast 4

1920 Transit to pump tanks

2011 Start Net Tow

2045 End Net Tow

2238 Start Net Tow

2304 End Net Tow

2316 Hand Net tow Start

2330 End Hand net tow

04 - Sept 10

025 Start Sth 2 Cast 5

- PO Shallow-

0151 End 5) Cast, - 24 marks ok

transit to pump tanks

Bottle #16 was kahing when opened.
0831 Start Stn 2 Cast 6

0345 Engineers called to pull slack in wire through the traction wheels.

0505 End of Cast, 17 marks ok

0642 Primary Production array recovered
22 45.998 N 158 7.286 W

0705 Start Stn 2 Cast 7

0816 End of Cast, 16 marks ok

0830 Net tow

0909 Start Stn 2 Cast 8

1043 End of Cast, 23 marks ok

1109 Net tow

1251 Start Stn 2 Cast 9

1358 End of Cast 9 - 14 marks ok

1414 AC9 Deployed
22° 45.885 N
159° 69.562 W

1451 AC9 Recovered
22° 45.874 N
159° 59.263 W
HOT- 225

4- Sept-2010

538 Gas Array Deployed
22° 47.398' N
158° 0.736' W

551 Start Stn 2 Cast 10
Initial position entered (CMI42) was [22° 47.365' N, 158° 0.764' W].
Ship moved 0.5 mi away from gas array.
New start position is: [158° 0.718' W]

550 End Stn 2 Cast 10 - missed mark @ 200 door

577 Start Stn 2 Cast 11

900 End Stn 2 Cast 11 - 18 marks OK

5 King fine

2002 Start net tow

2032 End net tow

2054 Start Stn 2 Cast 12

2110 END CAST - 23 Marks OK

2220 Deploy Hyperpro
22° 44.199' N
157° 59.241' W

234 Recover Hyperpro
27° 44.998' N
157° 59.165' W

2246 Deploy AC9 [22° 45.009' N, 157° 59.097' W]
- came up @ 22: 50; back down @ 22: 53

2325 Recovered AC9 [22° 45.095' N, 157° 58.872' W]
HOT-225

23:58 Start Stn 2 Cast 13 5 Sept 2010
01:05 End Stn 2 Cast 13 - 23 marks OK

Transit to pump tanks

02:53 Start Stn 2 Cast 14 22 marks OK
04:00 End Stn 2 Cast
05:51 Start Stn 2 Cast 15
07:04 End Stn 2 Cast 24 marks OK

Transit to pump tanks

08:05 Net Tow
08:48 Start Stn 2 Cast 16
10:13 End Stn 2 Cast 24 marks OK

ISUS removed from rosette

11:25 Start Stn 2 Cast 17
6500 & 2400 bar on processing computer
LARGE - NOT LESS OR EQUAL

Rested Seagave with 5-5000 bels p/sa

-7m off bottom (4807) @ [12.25.21]
End Stn 2 Cast 17 - 24 marks OK
Transit to seed traps

Recover seed traps

[22° 46.9' N ; 158° 17.9' W]

- wont count on back up feed; we'll see what happens

Transit to gas array

Recover gas array

[22° 49.06' N ; 158° 10.57' W]

Transit to WHOI's Buoy (Station 50)

Start Stn 50 cast 1

at 05 Dbar' - End cycle 1

7.54 Dbar

at 05 Dbar' - End cycle 2

1.40 At 200 Dbar

2147 At 05 Dbar' - End cycle 2

2154 At 05 Dbar' - End cycle 3

2200 At 200 Dbar

2212 At 05 Dbar' - End cycle 4

2220 At 200 Dbar

2230 At 05 Dbar' - End cycle 5 - no bottles fired

End Stn 50 cast 1 (28.878 over every 4.952 from C)

Start Hypercolo

[23° 46.066' N ; 157° 55.464' W]

End Hypercolo

[23° 46.066' W ; 157° 55.432']