030312-SPOTS Cruise Report

Cruise Date: Wednesday, March 12, 2003
Vessel: R/V Sea Watch
Crew: K. Kivett (Cap), D. Reynoso (Deck), K. Snow (Deck), A. Willingham

08:21-CTD A in water. File: 030312A
Latitude: 33° 32.963’ N
Longitude: 118° 24.002’ W
Weather/cloud cover: 95% cloud
Sea state (m)/direction: W 1.5m
Wind speed (knots)/direction: 8 Knts, ESE
Nominal depths: 850m, 150m, Cmax (35), 5m

09:39-CTD on deck: Water for Dr. Fuhrman and Dr Caron MICRO-OBS

10:15- CTD B in water File: 0300312B.
Latitude: 33° 33.079’ N
Longitude: 118° 23.927’ W
Weather/cloud cover: 40% Cloud
Sea state (m)/direction: 1m/W
Wind speed (knots)/direction: 6 Knts, ESE
Nominal depths: 850m, 750m, 500m, 250m, 100m, 60m, 50m, 40m, 30m, 20m, 10m, surface

11:25 – CTD on Deck: Samples taken for SPOTS:
Oxygen
Chlorophyll
Nutrients-replicates
Salinity

12 depths
8 depths (surf-100)
12 depths
12 depths

PLANKTON TOWS: Depths to 100m for Zoo, & Phyto, Pete’s at 10m

<table>
<thead>
<tr>
<th>Cast</th>
<th>Type</th>
<th>In</th>
<th>Out</th>
<th>Net</th>
<th>MeterID</th>
<th>Meter.Calc</th>
<th>Lat-In</th>
<th>Lat-Out</th>
<th>Long-In</th>
<th>Long-Out</th>
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<tr>
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<td>11:58</td>
<td>200x50</td>
<td>B16910</td>
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<td>3</td>
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<td>12:13</td>
<td>20x30</td>
<td>None</td>
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<td>33.33006</td>
<td>33.33235</td>
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Captain Data Sheet  USC Time Series

Date: 3-12-03  Captain: K. Kivett
Vessel: Sea Watch  Deck: D. Reynoso

CTD 1

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<th>09:39</th>
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<td>Lon. in</td>
<td>18 24</td>
</tr>
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<td>Lon. bottom</td>
<td>33 32</td>
<td>Lat. bottom</td>
<td>33 32</td>
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<tr>
<td>Lat. out</td>
<td>33 33</td>
<td>Lon. out</td>
<td>18 23</td>
</tr>
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</table>

Weather/cloud cover: 95%
Sea state (m) / direction: W 1m
Wind speed (knots) / direction: 8 KT ESE
Bottom depth: 900 M

CTD 2

<table>
<thead>
<tr>
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<td>Lon. in</td>
<td>18 24</td>
</tr>
<tr>
<td>Lon. bottom</td>
<td>33 33</td>
<td>Lat. bottom</td>
<td>33 33</td>
</tr>
<tr>
<td>Lat. out</td>
<td>33 33</td>
<td>Lon. out</td>
<td>18 23</td>
</tr>
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</table>

Weather/cloud cover: 40%
Sea state (m) / direction: 1 m / W
Wind speed (knots) / direction: 14 KT ESE
Bottom depth: 900 M

CTD3  Plankton 1  VERTICAL

<table>
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<th>Time out</th>
<th>11:43</th>
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<tr>
<td>Lat. out</td>
<td>33 02</td>
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</tr>
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</table>

Weather/cloud cover: 40%
Sea state (m) / direction: 1 m / W
Wind speed (knots) / direction: 14 KT ESE
Bottom depth: 900 M

Plankton Tow (phyto/zoo)

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<thead>
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<th>11:57</th>
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<tr>
<td>Lat. out</td>
<td>33 01</td>
<td>Lon. out</td>
<td>23 44</td>
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Weather/cloud cover: Sun

<table>
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<th>Time out</th>
<th>12:13</th>
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<tbody>
<tr>
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<tr>
<td>Lat. out</td>
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### CTD CAST SHEET

**Cruise ID:** 030712 A  
**Date:** 3-12-03  
**Vessel:** Sea Watch  
**Capt/Deck:** F. K. Leht, D. Reynolds  
**Cast Depth (m):** 880  
**Sea State:**  
**Direction:**  
**Cloud Cover:**  

**Operators/Samplers:** P. Courtois, J. Heusser, M. Tanio, G. Smith, R. Schmiedt  

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#### Equipment Information:

- **CTD SN:** 0318  
- **Cond./Temp. SN:** 1196/1490  
- **Oxygen SN:** 130459  
- **WET Star SN:** WS3S-281  
- **C STAR SN:** CST-152R  
- **CONFIG FILE:**  
- **COMPUTER:** Dell Inspiron 5000  
- **Software Version:** SeaSave Win32 v1.18  
- **Disk Backup:** (YES)  
- **File Names:**  

---

#### Niskin #  

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<th>Actual Depth (m)</th>
<th>Time Tripped</th>
<th>Temp/Comments</th>
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<td>5.215</td>
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**CTD CAST SHEET**

CRUISE ID: 030312B  
DATE: 3-32-03  
VESSEL: Sea Watch  
CAPT/DECK: Mr. J. King  
CAST: 13  
STATION: Time Series  
LAT: 33°33.00  
LONG: 118°24.00  
CAST DEPTH (m): 500  
BOTTOM DEPTH (m): 900  
SEA STATE:  
WIND SPEED (knts):  
DIRECTION:  
CLOUD COVER:  
SURFACE TEMP (°C):  

OPERATORS/SAMPLERS: G. Smith, R. Len, J. Hendon, S. Curtis

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**Equipment Information:**

CTD SN: 0318  
Cond./Temp. SN: 1196/1490  
Oxygen SN: 130459  
WET STAR SN: WS3S-281  
C STAR SN: CST-152R  
CONFIG FILE:  
COMPUTER: Dell Inspiron 5000  
Software Version: SeaSave Win32 v1.18  
Disk Backup: (YES)  
File Names:  
Other Instruments/Comments:  

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**NISKIN # | DEPTH (m) | ACTUAL DEPTH (m) | TIME TRIPPED | TEMP/COMMENTS**

1. 850 | 849.207 | 10:47 | 5.265  
2. 750 | 750.404 | 10:52 | 5.332  
3. 500 | 500.065 | 11:05 | 6.316  
4. 250 | 250.332 | 11:12 | 9.035  
5. 100 | 99.917 | 11:18 | 10.487  
6. 60 | 59.999 | 11:20 | 11.798  
7. 50 | 50.182 | 11:21 | 12.626  
8. 46 | 39.955 | 11:22 | 13.342  
9. 30 | 29.948 | 11:23 | 13.888  
10. 20 | 20.005 | 11:25 | 14.230  
11. 10 | 9.792 | 11:26 | 14.913  
12. 0 | 2.515 | 11:27 | 15.176  

*Marked values indicate additional notes or flags.*
### TIME SERIES SAMPLE SHEET

**Cruise ID:** 030312 B  
**Date:** 3/12/03  
**File:**  
**Station:** Time Series  
**Operators/Samplers:**

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<th>Nuts</th>
<th>Notes</th>
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<td>22 23 24</td>
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Plankton Tow Sheet

Cruise ID __________________
Date: 3-12-03

Phytoplankton:
Time (GMT/Local) in: 1136  out: 1144
Depth: 180 m
Net mesh size: 35 µm x 50 cm
Flowmeter SN: 124603 B16906
Flowmeter reading:
Begin: 090004
End: 121603
Lat. in: _______________________
Lon. in: _______________________
Lat. out: ______________________
Lon. out: ______________________
Preserved (c. 10% formalin): 17% (Yes) (No)

Comments: ________________________________

Zooplankton:
Time in: 1150  out: 1158
Depth: 180 m
Net mesh size: 200 µm x 50 cm
Flowmeter SN: B16910
Flowmeter reading:
Begin: 070328
End: 070746
Lat. in: _______________________
Lon. in: _______________________
Lat. out: ______________________
Lon. out: ______________________
Preserved (c. 10% formalin): 12% (Yes) (No)

Comments: ________________________________

* GMT=local+8 hrs.