021122-SPOTS Cruise Report

Cruise Date: Wednesday, November 12, 2003
Personnel: R. Schimmoeller, I. Hewson, G. Smith
Vessel: R/V Sea Watch
Crew: K. Kivett (Capt.), K. Snow, S. Grunwald & D. Reynoso (Deck)

Weather/cloud cover: 60 – 90% varying cloud cover
Sea state (m)/direction: Calm
Wind speed (knots)/direction: Calm

08:48-CTD A in water. File: W031112
  Latitude: 33° 32.930' N
  Longitude: 118° 24.035' W
  Nominal depths: 500m, 150m, Cmax (36m), 5m
09:37-CTD on deck: Water for J. Fuhrman

10:06-CTD B in water File: W031112B.
  Latitude: 33° 33.050’ N
  Longitude: 118° 24.015’ W
  Nominal depths: 880m, 750m, 500m, 250m, 100m, 60m, 50m, 40m, 30m, 20m, 10m, Surf
11:12 – CTD on Deck: Samples taken for SPOTS:
  Chlorophyll 8 depths (surf-100)
  Salinity 12 depths
  Oxygen 12 depths
  Nutrients 12 Depths

NOTES: Last SPOTS package hit bottom. Temp, Cond & O2 sensors were repaired and recalibrated. New config file = winter03.con.
This SPOTS A Cast temp, salinity & oxygen ctd data spiked — repaired & working for Cast B
Pump plumbing and connections had silt from last time series!

PLANKTON TOWS: One drift for Earth Sciences

<table>
<thead>
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<th>Type</th>
<th>In</th>
<th>Out</th>
<th>Net</th>
<th>MeterID</th>
<th>Meter Calc</th>
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<th>Lat Out</th>
<th>Long In</th>
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Captain Data Sheet

Date: November 12, 13
Vessel: Sea Watch
Weather/cloud cover: 60%
Bottom depth: 900 m

CTD 1 500 m
Time (local) in: 3:09 out: 3:07
Lat. in: 32° 32.930
Lon. in: 118° 24.035
Lat. Out: 33° 32.854
Lon. Out: 118° 24.105

Plankton Tows
Weather/cloud cover: 95%
Bottom depth: 100 m

Plankton Tow #1 - Drift
Time (local) in: 11:21 out: _____
Lat. in: 33°
Lon. in: _______
Lat. Out: _______
Lon. Out: _______

Plankton Tow #3 Depth: 100 m
Time (local) in: 11:33 out: 11:36
Lat. in: 33° 32.952
Lon. in: 118° 24.094
Lat. Out: 33° 32.978
Lon. Out: 118° 24.119

Plankton Tow #4
Time (local) in: _____ out: _____
Lat. in: _______
Lon. in: _______
Lat. Out: _______
Lon. Out: _______

USC Time Series

Captain: K. Kivett
Deck: D. Rupp
Sea state (m) / direction: Calm
Wind speed (knots) / direction: Calm

CTD 2 900 m
Time (local) in: 10:06 out: 11:12
Lat. in: 33° 33.121
Lon. in: 118° 23.905
Lat. bottom: 33° 33.050
Lon. bottom: 118° 24.015
Lat. Out: 33° 32.979
Lon. Out: 118° 24.143

Sea state (m) / direction: Calm
Wind speed (knots) / direction: Calm
# CTD CAST SHEET

**CRUISE ID:** 03/11/12  
**DATE:** 11/12/03  
**VESSELS:**  
**CAPT/DECK:**  
**CAST DEPTH (m):** 900  
**SEA STATE:**  
**DIRECTION:**  
**CLOUD COVER:**  

**CAST #:** A  
**STATION:** Time Series  
**LAT:** 33°33.00  
**LONG:** 118°24.00  
**BOTTOM DEPTH (m):** 900  
**WIND SPEED (knts):**  
**DIRECTION:**  
**SURFACE TEMP (°C):**  

**OPERATORS/SAMPLERS:** J. Henson, S. Smith, R. Schmiedt

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**Equipment Information:**

- CTD SN: 0318  
- Cond./Temp. SN: 1196/1490  
- Oxygen SN: 130459  
- Seapoint Fluorometer:  
- C STAR SN: CST-152R  
- CONFIG FILE:  
- COMPUTER: Dell Inspiron 5000  
- Software Version: SeaSave Win32 v1.18  
- Disk Backup: (YES)  
- File Names: 03/11/12 A  
- Bottom Contact Switch

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<th>NISKIN #</th>
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<th>ACTUAL DEPTH (m)</th>
<th>TIME TRIPPED</th>
<th>TEMP/COMMENTS</th>
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**Spiked data. Salinity, temp < 02 due to pump interruptions. May want to use CAST A only for Web data.**
## CTD CAST SHEET

**Cruise ID:** 031112  
**Date:** 11-12-03  
**Vessel:** Sea Watch  
**Capt/Deck:** —  
**Cast Depth (m):** 0.00  
**Sea State:** —  
**Direction:** —  
**Cloud Cover:** —  
**Station:** Time Series  
**Lat:** 33° 33.00'  
**Long:** 118° 24.00'  
**Bottom Depth (m):** 900  
**Wind Speed (knts):** —  
**Direction:** —  
**Surface Temp (°C):** —  

**Operators/Samplers:** P. Schimmoeller, G. Smith, J. Nelson

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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)

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**Niskin #** | **Depth (m)** | **Actual Depth (m)** | **Time Tripped** | **Temp/Comments**
--- | --- | --- | --- | ---
1 | 0.00 | 0.00 | 10:34 | 5.07
2 | 7.50 | 7.49 | 10:40 | 5.2
3 | 5.00 | 4.97 | 10:50 | 6.48
4 | 2.50 | 2.49 | 11:00 | 9.34
5 | 1.00 | 9.93 | 11:06 | 10.71
6 | 0.00 | 59.88 | 11:08 | 11.66
7 | 50 | 50.09 | 11:09 | 12.45
8 | 40 | 39.83 | 11:10 | 13.21
9 | 30 | 29.81 | 11:11 | 15.30
10 | 20 | 19.81 | 11:12 | 18.37
11 | 10 | 10.06 | 11:13 | 18.64
12 | Surface | 0.917 | 11:14 | 18.74
### TIME SERIES SAMPLE SHEET

**Cruise ID:** 03112B  
**Date:** 11-2-03  
**File:** 03112B  
**Station:** Time Series  
**Operators/Samplers:** G. Smith, J. Hewson  
**Captain:** X. Kivel  
**Deck Hand:** D. Raynolds, X. Snow  
**Chief Scientist:** R. Schimmoeller

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Plankton Tow Sheet

Cruise ID: 03/11/12
Date: 11/12/03

Phytoplankton:
Time (GMT/Local) in: 11:34 out: 11:41
Depth: 100 m
Net mesh size: 35 mm x 50 cm
Flowmeter SN: 11906
Flowmeter reading:
Begin: 82682
End: 0273927
Lat. in: ________________
Lon. in: ________________
Lat. out: ________________
Lon. out: ________________
Preserved (c. 10% formalin): (Yes) (No)
Comments: ________________

Zooplankton:
Time in: 11:23 out: 11:29
Depth: 100 m
Net mesh size: 200 mm x 50 cm
Flowmeter SN: 11906
Flowmeter reading:
Begin: 816851
End: 826925
Lat. in: ________________
Lon. in: ________________
Lat. out: ________________
Lon. out: ________________
Preserved (c. 10% formalin): (Yes) (No)
Comments: ________________

* GMT=local+8 hrs.