**Southern California Marine Institute**

**Cruise Information Sheet**

820 South Seaside Ave., Terminal Island, CA 90731
Tel: 310.519.3172 Fax: 310.519.1054
http://www.scmi.us email: scmi@csulb.edu

**Name of Vessel:** RV Yellowfin

**File copies with SCMI office by** . Keep 1 copy for your records.

**FAILURE TO RETURN THIS FORM TO SCMI WILL RESULT IN THE CANCELLATION OF THE CRUISE.**

**ALL CANCELLATIONS MUST BE MADE 2 WEEKS PRIOR TO TRIP DATE TO AVOID A 4 HOURS PER DAY CHARGE***

PLEASE FILL OUT ALL SECTIONS OF THIS FORM

<table>
<thead>
<tr>
<th>1. Person Filing Request</th>
<th>Date of Trip</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cruise Leader</td>
<td>Troy E. Gunderson</td>
</tr>
<tr>
<td>Telephone Numbers</td>
<td>(805) 402-7191</td>
</tr>
<tr>
<td>School/ Organization</td>
<td>University of Southern California</td>
</tr>
<tr>
<td>Fax Numbers</td>
<td>(213) 740-6720</td>
</tr>
</tbody>
</table>

***Students are the responsibility of the cruise leader ***

***NO OPEN TOED SHOES WILL BE ALLOWED ON THE BOATS (NO EXCEPTIONS)***

2. **Summary of the cruise (locations of sampling, cruise abstract)**

   Monthly Time-Series cruise to 33°33.00’ N, 118°24.00’ W. 3 deep and 2 shallow CTD casts and surface bucket/pump sampling.

(If you are collecting specimens, a copy of your California Department of Fish & Game Collecting Permit must be on file with SCMI office before the cruise date.)

<table>
<thead>
<tr>
<th>3. Course Number</th>
<th>Number of People in Party (Max 40)</th>
</tr>
</thead>
<tbody>
<tr>
<td>none</td>
<td>8</td>
</tr>
</tbody>
</table>

4. **Time of Departure from SCMI**

<table>
<thead>
<tr>
<th>Time of Departure</th>
<th>Time of return</th>
</tr>
</thead>
<tbody>
<tr>
<td>0700 hr</td>
<td>1700 hr</td>
</tr>
</tbody>
</table>

Rates are charged from home port to home port and begin one-half hour prior to departure and end one-half hour after arrival at the home port.

5. **Enter applicable billing information: Purchase Order #:**

   Billing Address: P.O. Box 5069 Avalon, CA

   J V

6. **Gear Requested (please check)**

<table>
<thead>
<tr>
<th>Nansen Bottles</th>
<th>Refractometer (handheld)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reversing Thermometers (Demo Only)</td>
<td>Seabird</td>
</tr>
<tr>
<td>Dissecting Microscope</td>
<td>YSI - (pH, temp, DO, salinity, conductivity, depth)</td>
</tr>
<tr>
<td>1 meter plankton net (505 mm)</td>
<td>Otter trawl ** MUST HAVE VALID COLLECTION PERMIT</td>
</tr>
<tr>
<td>1/2 meter plankton net</td>
<td>Phytoplankton net (handheld)</td>
</tr>
<tr>
<td>263mm</td>
<td>Neuston net</td>
</tr>
<tr>
<td>6'</td>
<td>TSK flow meter</td>
</tr>
<tr>
<td>10'</td>
<td>Secchi disk</td>
</tr>
<tr>
<td>Bucket thermometer</td>
<td>Fores Ulo color scale</td>
</tr>
<tr>
<td>Biological dredge</td>
<td>Sediment sorter</td>
</tr>
<tr>
<td>Campbell grab/Van Veen Grab</td>
<td>Compound microscope</td>
</tr>
<tr>
<td>Plankton collector</td>
<td>Nutrient Wet Chemistry ($20.00/kit)</td>
</tr>
<tr>
<td>Avon w/outboard</td>
<td>Diving platform (must be dive certified; check with Dive Officer 310.519.3172)</td>
</tr>
<tr>
<td>XBT($50.00 each)/SeaWatch/Yellowfin only</td>
<td></td>
</tr>
<tr>
<td>Phleger Corer(Yellowfin only)</td>
<td></td>
</tr>
</tbody>
</table>

7. **SPECIAL REQUEST:** Other equipment may be available by special request and for additional costs. Please call Dan Warren at SCMI-310.519.3179 to arrange.

**Signature**

**Date:** October 11, 2012
### CTD CAST SHEET

**CRUISE ID:** 120928D  
**DATE:** September 28, 2012  
**VESSEL:** R/V Yellowfin  
**CAST #:** D  
**STATION:** SPOT  
**LAT:** 33 33.00  
**LONG:** 118°24.00  
**CREW:**  
**BOTTOM DEPTH (m):** 885  
**WIND SPEED (knts):**  
**DIRECTION:**  
**SURFACE TEMP (c):** 20.6

**OPERATORS/SAMPLERS:** Wrigley cast (Troy Gunderson)

**Equipment Information:**
- **CTD SN:**  
- **Cond./Temp. SN:**  
- **Oxygen SN:** YSI/SeaBird  
- **Seapoint Fluorometer:**  
- **C STAR SN:**  
- **CONFIG FILE:** 1095.xmlcon  
- **COMPUTER:** Dell Inspiron 5000  
- **Software Version:** SeaSave  
- **Disk Backup:** (YES) (NO)  
- **File Names:**  
- **Other Instruments/Comments:**

<table>
<thead>
<tr>
<th>Niskin #</th>
<th>Target Depth(m)</th>
<th>Actual Depth(m)</th>
<th>Time Fired</th>
<th>Temp. (°C)</th>
<th>Salinity (ppt)</th>
<th>Oxygen ml/L</th>
<th>Fluor. ug/L</th>
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</thead>
<tbody>
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<td>885.9</td>
<td>13:08</td>
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<td>34.39</td>
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<td>749.6</td>
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<td>5.32</td>
<td>34.38</td>
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<td>6.82</td>
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<td>250.1</td>
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<td>9.29</td>
<td>34.17</td>
<td>1.41</td>
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<tr>
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<td>150</td>
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<td>10.04</td>
<td>33.79</td>
<td>2.80</td>
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<td>60</td>
<td>60.1</td>
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<td>12.1</td>
<td>33.4</td>
<td>4.6</td>
<td>0.4</td>
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<td>7</td>
<td>50</td>
<td>50.2</td>
<td>13:53</td>
<td>12.8</td>
<td>33.41</td>
<td>4.8</td>
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<td>8</td>
<td>40 (CMPS)</td>
<td>40</td>
<td>13:55</td>
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<td>9</td>
<td>30</td>
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<td>20.23</td>
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<td>20.57</td>
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</table>
# CTD CAST SHEET

**Cruise ID:** 120928C

**Date:** September 28, 2012

**Vessel:** R/V Yellowfin

**Capt:** Dee

**Cast Depth (m):** 885m

**Sea State:**

**Direction:**

**Cloud Cover:**

**Operators/Samplers:** Fuhrman/Caron labs

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**Equipment Information:**

- **CTD SN:** 1095
- **Cond./Temp. SN:**
- **Oxygen SN:** YSI/SeaBird
- **Seapoint Fluorometer:**
- **C Star SN:**
- **Config File:** 1095.xmlcon
- **Computer:** Dell Inspiron 5000
- **Software Version:** SeaSave

**Disk Backup:** (Yes)  (No)

**File Names:** 120921A.txt

**Other Instruments/Comments:**

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<th>Time Fired</th>
<th>Temp. (°C)</th>
<th>Salinity (ppt)</th>
<th>Oxygen ml/L</th>
<th>Fluor. ug/L</th>
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<td>4.9</td>
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</tbody>
</table>
**CTD CAST SHEET**

**CRUISE ID:** H2OPELIC

**DATE:** September 20, 2012

**VESSEL:** R/V Yellowfin

**CAPT:**

**CAST DEPTH (m):** 20m below ML

**SEA STATE:**

**DIRECTION:**

**CLOUD COVER:**

**CAST #:** B

**STATION:** SPOT

**LAT:** 33°33.00' **LONG:** 118°24.00'

**CREW:**

**BOTTOM DEPTH (m):** 900

**WIND SPEED (knts):**

**DIRECTION:**

**SURFACE TEMP (°C):** 20.9

**OPERATORS/SAMPLERS:** Willie Haskell (Be cast)

(80 L at 10m below mixed layer, 40L within mixed layer)

---

**Equipment Information:**

**CTD SN:**

**Cond./Temp. SN:**

**Oxygen SN:** YSI/SeaBird

**Seapoint Fluorometer:**

**C STAR SN:**

**CONFIG FILE:** 1095.xmlcon

**COMPUTER:** Dell Inspiron 5000

**Software Version:** SeaSave

**Disk Backup:** (YES) (NO)

**File Names:**

**Other Instruments/Comments:** no bottom contact switch

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<table>
<thead>
<tr>
<th>Niskin #</th>
<th>Target Depth(m)</th>
<th>Actual Depth(m)</th>
<th>Time Fired</th>
<th>Temp (°C)</th>
<th>Salinity (ppt)</th>
<th>Oxygen ml/L</th>
<th>Fluor. ug/L</th>
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</thead>
<tbody>
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<td>33.38</td>
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<td>5.7</td>
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</tr>
</tbody>
</table>
CTD CAST SHEET

CRUISE ID: 120921A
DATE: September 28, 2012
VESSEL: R/V Yellowfin
CAPT: 
CAST #: A
STATION: SPOT
LAT: 33 33.00 LONG: 118° 24.00
CREW: 
BOTTOM DEPTH (m): 900
WIND SPEED (kts): 
DIRECTION: 
SURFACE TEMP (c): 20.28

OPERATORS/SAMPLERS: Hammond's Thorium

Equipment Information:
CTD SN: 
Cond./Temp. SN: 
Oxygen SN: YSI/SeaBird
Seapoint Flourimeter: 
C STAR SN: 
CONFIG FILE: 1095.xmlcon
COMPUTER: Dell Inspiron 5000
Software Version: SeaSave

Disk Backup: (YES) (NO)
File Names: 
Other Instruments/Comments: no bottom contact switch

Niskin # | Target Depth(m) | Actual Depth(m) | Time Fired | Temp. (C) | Salinity (ppt) | Oxygen ml/L | Fluor. ug/L |
---|---|---|---|---|---|---|---|
1 | 180 | 180.3 | 09:07 | 9.67 | 33.75 | 2.3 | 0.0 |
2 | 150 | 150.3 | 09:11 | 9.76 | 33.83 | 2.7 | 0.0-0.01 |
3 | 100 | 100.1 | 09:15 | 11.0 | 33.58 | 3.5 | 0.0-0.04 |
4 | Chlmax+30m (58) | 37.9 | 09:18 | 11.7 | 33.47 | 4.1 | 0.2 |
5 | Chlmax+10m (58) | 57.8 | 09:22 | 12.84 | 33.41 | 1.7-4.8 | 0.6-0.7 |
6 | Chlmax+10m (58) | 57.6 |
7 | Chlmax (48) | 47.9 | 09:25 | 13.4 | 33.30 | 5.4 | 0.8-0.9 |
8 | Chlmax (48) | 48 |
9 | Chlmax+10m (58) | 32.7 | 09:32 | 14.7 | 33.39 | 5.9-6.0 | 0.3-0.4 |
10 | Chlmax+10m (58) | 33 |
11 | 5 | 4.9 | 09:36 | 20.35 | 33.54 | 5.3 | 0.0-0.02 |
12 | 5 | 4.8 |

Chlmax -15m (to get out of broad Chl max)
133m

Notes:
- Broad Chl max (17 m) 48
CAPTAIN'S DATA SHEET
USC STATION: SPOTS

Date: September 28, 2012
Vessel: R/V Yellowfin
Weather/cloud Cover:
Bottom Depth: 900m

Captain: _______________________
Deck: _______________________
Sea State (m)/direction: _______
Wind Speed (knts)/direction: ______

CTD (885m) CAST #3

Time (local): In 10:40 Out: 11:50
Lat In: 33° 32.98'N
Long In: 118° 24.01'W
Lat Bottom: 33° 32.93'N
Long Bottom: 118° 23.80'W
Lat Out: 33° 32.80'N
Long Out: 118° 23.42'W

CTD (885m) Cast #4

Time In: 12:40 Out: 14:08
Lat In: 33° 33.00'N
Long In: 118° 24.02'W
Lat Bottom: 33° 32.87'N
Long Bottom: 118° 23.65'W
Lat Out: 33° 32.54'N
Long Out: 118° 22.70'W