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

1. Person Filing Request: Troy E. Gunderson
   Date of Trip: June 13, 2012
   Cruise Leader: Troy E. Gunderson
   School/ Organization: University of Southern California
   Telephone Numbers: (805) 402-7191
   Fax Numbers: (213) 740-6720

   ***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. 4 CTD casts (2 deep, 2 shallow casts) and surface bucket/pump sampling;
   Bucket sampling at 2 sites in transit & 1 surface net tow at station
   (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.)

3. Course Number: none
   Number of People in Party (Max 40): __

4. Time of Departure from SCMI: 0700 hr
   Time of return: ~1600 hr
   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 #: ___________ JV ___________ ; or
   Billing Address: P.O. Box 5069 Avalon, CA ___________

6. Gear Requested (please check)
   Niskin Bottles
   Nansen Bottles (Demo Only)
   Reversing Thermometers (Demo Only)
   Dissecting Microscope ___1___ 2
   1 meter plankton net (.505 mm)
   1/2 meter plankton net .505mm .263mm
   I-K midwater trawl net .6' .10'
   Bucket thermometer
   Biological dredge
   Campbell grab /Van Veen Grab
   Plankton collector
   Avon w/ outboard
   XBT ($50.00 each) SeaWatch/Yellowfin only
   Phleger Core/ (Yellowfin only)
   Refractometer (handheld)
   Seabird
   YSI - (pH, temp, DO, salinity, conductivity, depth)
   Otter trawl ** MUST HAVE VALID COLLECTION PERMIT
   Phytoplankton net (handheld)
   Neuston net
   TSK flow meter
   Secchi disk
   Forel-Ule color scale
   Sediment sorter
   Compound microscope
   Nutrient Wet Chemistry ($20.00/kit)
   Diving platform (must be dive certified; check with Dive Officer 310.519.3172)

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: June 12, 2012

MUST BE SIGNED
CAPTAIN'S DATA SHEET  
USC STATION: SPOT

Date: June 13, 2012  
Vessel: R/V Yellowfin  
Captain: Jimmy  
Weather/cloud Cover:  
Deck: Davis & Bob  
Sea State (m)/direction:  
Bottom Depth: 900m  
Wind Speed (kts)/direction:  

CTD (850m) CAST 1  
Time (local): In 09:23 Out: 10:00  
Lat In: 33°33.02'N  
Long In: 118°24.03'W  
Lat Bottom: 33°33.12'N  
Long Bottom: 118°24.10'W  
Lat Out: 33°33.33'N  
Long Out: 118°24.23'W  

CTD (20m below mixed layer) CAST 2  
Time (local): In 16:35 Out: 16:50  
Lat In: 33°33.16'N  
Long In: 118°24.14'W  
Lat Bottom: 33°33.23'N  
Long Bottom: 118°24.17'W  
Lat Out: 33°33.33'N  
Long Out: 118°24.23'W

CTD (180) CAST 3  
Time (local): In 11:10 Out:  
Lat In: 33°32.95'N  
Long In: 118°23.98'W  
Lat Bottom: 33°33.10'N  
Long Bottom: 118°24.12'W  
Lat Out: 33°33.33'N  
Long Out: 118°24.25'W
CAPTAIN'S DATA SHEET
USC STATION: SPOTS

Date: June 13, 2012
Vessel: R/V Yellowfin
Weather/cloud Cover: _____________
Bottom Depth: 900m

Captain: _________________________
Deck: ___________________________
Sea State (m)/direction: ___________
Wind Speed (knts)/direction: _______

CTD (885m) CAST 5

Time (local): In 12:48 Out: 14:13
Lat In: 33° 32.97' N
Long In: 118° 23.97' W
Lat Bottom: 33° 33.12' N
Long Bottom: 118° 24.08' W
Lat Out: 33° 33.36' N
Long Out: 118° 24.06' W
## CTD CAST SHEET

**CRUISE ID:** 120613A  
**DATE:** June 13, 2012  
**VESSEL:** R/V Yellowfin  
**CAPT:** Jimmy  
**CAST Depth (m):** 180  
**SEA STATE:**  
**DIRECTION:**  
**CLOUD COVER:** 95%  
**OPERATORS/SAMPLERS:** Hammond's Thorium cast & Sergio's cast  

*Note: 1st cast off sea-tried for new SeaBird CTD/cassette*

### Equipment Information:
- **CTD SN:**  
- **Oxygen SN:** YSI/SeaBird  
- **CSTAR SN:**  
- **COMPUTER:** Dell Inspiron 5000  
- **Cond./Temp. SN:**  
- **Seapoint Fluorometer:**  
- **CONFIG FILE:** oct2011cfg 1095, rm/con  
- **Software Version:** SeaSave

### Disk Backup:
- **YES**  
- **NO**

### File Names:

### Other Instruments/Comments:

### Notes:

### Niskin #  | Target Depth(m) | Actual Depth(m) | Time Fired | Temp (C) | Salinity (ppt) | Oxygen ml/L | Fluor. ug/L
---|---|---|---|---|---|---|---
1 | 180 | 180 | 09:30 | 9.13 | 34.10 | 1.57 | -0.03
2 | 150 | 150.2 | 09:39 | 9.29 | 34.11 | 1.75 | -0.03
3 | 100 | 99.8 | 09:43 | 9.58 | 33.90 | 2.46 | -0.02
4 | Chlmax+30m | 50.1 | 09:46 | 10.66 | 33.59 | 3.5 | 0.1
5 | Chlmax+10m | 30 | 09:49 | 10.27 | 33.48 | 5.3 | 1.2
6 | Chlmax+10m | 29.8 | | | | | |
7 | Chlmax | 19.8 | 09:51 | 13.5 | 33.45 | 6.4 | 1.5
8 | Chlmax | 20.1 | | | | | |
9 | Chlmax-10m | 9.9 | 09:54 | 33.63 | 5.5 | 0.2
10 | Chlmax-10m | 10.2 | | | | | |
11 | 2 | 19 | 09:57 | 19.07 | 33.64 | 5.4 | 0.2
12 | 2 | 18 | | | | | |
### CTD CAST SHEET

**CRUISE ID:** 120613B  
**DATE:** June 13, 2012  
**VESSEL:** R/V Yellowfin  
**CAPT:** Jimmy  
**CAST DEPTH (m):** 20m below ML  
**SEA STATE:**  
**DIRECTION:**  
**CLOUD COVER:** 

**OPERATORS/SAMPLERS:** Willie Haskell (Be cast)  
(80 L @ 20m below mixed layer, 40L within mixed layer)

**STATION:** SPOT  
**LAT:** 33 33.00  
**LONG:** 118°24.00  
**CREW:** Davis & Bob  
**BOTTOM DEPTH (m):** 900  
**WIND SPEED (kts):**  
**DIRECTION:**  
**SURFACE TEMP (c):** 79.0°C

---

**Equipment Information:**
- **CTD SN:**  
- **Oxygen SN:** YSI/SeaBird  
- **C STAR SN:**  
- **COMPUTER:** Dell Inspiron 5000  
- **Cond./Temp. SN:**  
- **Seapoint Fluorometer:**  
- **CONFIG FILE:** Oct2011cafe fs_0905x0nlee0v0  
- **Software Version:** SeaSave

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

---

**Notes:** went down to 30m far profile

<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>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>20 m</td>
<td>19.8</td>
<td>10:43</td>
<td>14.02</td>
<td>33.46</td>
<td>4.6</td>
<td>1.9</td>
</tr>
<tr>
<td>2</td>
<td>20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>19.7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>19.9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>19.8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>20.2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>20 m</td>
<td>19.9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>5</td>
<td>4.8</td>
<td>10:47</td>
<td>9.1</td>
<td>33.06</td>
<td>5.4</td>
<td>0.2</td>
</tr>
<tr>
<td>10</td>
<td>5</td>
<td>4.8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>5</td>
<td>4.7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>5</td>
<td>4.9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# CTD CAST SHEET

- **CRUISE ID:** 120613
- **DATE:** June 13, 2012
- **VESSEL:** R/V Yellowfin
- **CAPT:** Jim
- **CAST DEPTH (m):** 885m
- **SEA STATE:**
- **DIRECTION:**
- **CLOUD COVER:**
- **CAST #:**
- **STATION:** SPOT
- **LAT:** 33°33.00' LONG: 118°24.00'
- **CREW:** Denis & Bob
- **BOTTOM DEPTH (m):** 900
- **WIND SPEED (knts):**
- **DIRECTION:**
- **SURFACE TEMP (°C):** 19.18
- **OPERATORS/SAMPLERS:** Fuhrman/Caron labs

## Equipment Information:
- **CTD SN:**
- **Cond./Temp. SN:**
- **Oxygen SN:** YSI/SeaBird
- **Seapoint Fluorometer:**
- **C STAR SN:** CONFIG FILE: dat2014.cfg 1075 xml
- **COMPUTER:** Dell Inspiron 5000
- **Software Version:** SeaSave
- **Disk Backup:** (YES)
- **File Names:**
- **Other Instruments/Comments:** bottom contact switch

## Notes:
- (1) Chlmax 19.4m 285m 19.5m
- (2) Bottom pressure 8.4m

<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>
</tr>
</thead>
<tbody>
<tr>
<td>Fuhr.</td>
<td>1 885</td>
<td>885</td>
<td>11:39</td>
<td>5.20</td>
<td>34.40</td>
<td>0.08</td>
<td>+0.01</td>
</tr>
<tr>
<td></td>
<td>2 885</td>
<td>884.8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 885</td>
<td>885.3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4 500</td>
<td>500</td>
<td>11:56</td>
<td>6.99</td>
<td>34.33</td>
<td>0.34</td>
<td>-0.02</td>
</tr>
<tr>
<td></td>
<td>5 500</td>
<td>500</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>6 150</td>
<td>150.2</td>
<td>12:08</td>
<td>9.27</td>
<td>34.05</td>
<td>1.98</td>
<td>-0.02</td>
</tr>
<tr>
<td></td>
<td>7 150</td>
<td>150</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>8 150</td>
<td>149.8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>9 Chlmax</td>
<td>19.4</td>
<td>12:14</td>
<td>13.6</td>
<td>33.46</td>
<td>6.5</td>
<td>2.1</td>
</tr>
<tr>
<td></td>
<td>10 Chlmax</td>
<td>19.3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>11 5</td>
<td>5</td>
<td>12:17</td>
<td>19.10</td>
<td>33.63</td>
<td>5.46</td>
<td>0.14</td>
</tr>
<tr>
<td></td>
<td>12 5</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### CTD CAST SHEET

**CRUISE ID:** 120613D  
**DATE:** June 13, 2012  
**VEssel:** R/V Yellowfin  
**CAPT:**  
**CAST DEPTH (m):** 885  
**SEA STATE:**  
**DIRECTION:**  
**CLOUD COVER:**  

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

---

**Equipment Information:**
- **CTD SN:**  
- **Oxygen SN:** YSI/SeaBird  
- **C STAR SN:**  
- **COMPUTER:** Dell Inspiron 5000  
- **Cond./Temp. SN:**  
- **Seapoint Flourimeter:**  
- **CONFIG FILE:** Oct224Bat.cfg  
- **Software Version:** SeaSave  

**Disk Backup:** (YES)  
**File Names:** 120613D.s, hex  
**Other Instruments/Comments:** bottom contact switch

---

**Notes:**

---

<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>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>885</td>
<td>885.7</td>
<td>13:16</td>
<td>5.20</td>
<td>34.40</td>
<td>0.08</td>
<td>0.00</td>
</tr>
<tr>
<td>2</td>
<td>750</td>
<td>750.5</td>
<td>13:22</td>
<td>5.32</td>
<td>34.39</td>
<td>0.13</td>
<td>-0.02</td>
</tr>
<tr>
<td>3</td>
<td>500</td>
<td>500.6</td>
<td>13:35</td>
<td>6.95</td>
<td>34.32</td>
<td>0.35</td>
<td>-0.02</td>
</tr>
<tr>
<td>4</td>
<td>250</td>
<td>179.5</td>
<td>13:50</td>
<td>9.61</td>
<td>34.24</td>
<td>1.11</td>
<td>-0.02</td>
</tr>
<tr>
<td>5</td>
<td>150</td>
<td>150.5</td>
<td>13:53</td>
<td>9.33</td>
<td>34.01</td>
<td>2.1</td>
<td>-0.02</td>
</tr>
<tr>
<td>6</td>
<td>600</td>
<td>99.9</td>
<td>13:59</td>
<td>9.67</td>
<td>33.82</td>
<td>2.73</td>
<td>-0.02</td>
</tr>
<tr>
<td>7</td>
<td>600</td>
<td>60.4</td>
<td>14:00</td>
<td>10.25</td>
<td>33.65</td>
<td>3.0</td>
<td>0.3</td>
</tr>
<tr>
<td>8</td>
<td>40</td>
<td>40</td>
<td>14:04</td>
<td>10.00</td>
<td>33.50</td>
<td>4.94</td>
<td>1.6</td>
</tr>
<tr>
<td>9</td>
<td>30</td>
<td>29.6</td>
<td>14:06</td>
<td>12.8</td>
<td>33.47</td>
<td>5.9</td>
<td>1.7</td>
</tr>
<tr>
<td>10</td>
<td>30</td>
<td>26.9</td>
<td>14:07</td>
<td>12.9</td>
<td>33.49</td>
<td>5.9</td>
<td>1.7</td>
</tr>
<tr>
<td>11</td>
<td>10</td>
<td>10.4</td>
<td>14:09</td>
<td>18.96</td>
<td>33.62</td>
<td>5.6</td>
<td>0.2</td>
</tr>
<tr>
<td>12</td>
<td>2</td>
<td>1.8</td>
<td>14:11</td>
<td>9.3</td>
<td>33.64</td>
<td>5.4</td>
<td>0.1</td>
</tr>
</tbody>
</table>