

## OCEAN BITEMAP SQUIDPOP DATA SHEET

OCEAN BITEMAP

Site ID: <i>Elkhorn Slough</i>	GPS: <i>36.809236° -121.783232°</i>	Habitat type: <i>Mud/sand flat</i>
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Date Deployed: <i>6/22/2016</i>	Date Collected: <i>6/23/2016</i>	Number Deployed: <i>25</i>	Number Recovered: <i>25 (none eaten)</i>
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Time Deployed: <i>8:20</i>	Time Collected: <i>8:30</i>	Notes: <i>Lots of Ulva</i>	Depth: <i>-1m MLLW</i>
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Data Collector: <i>Brent Hughes</i>	Data Collector: <i>B. Hughes</i>	<i>on mud flat, 90% cover also Gracilaria in deeper water</i>
Weather: <i>Overcast</i>	Weather: <i>Calm</i>	

Detachment 1 hr: <i>Ø</i>	Notes:
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Detachment 24 hrs: <i>Ø</i>	Notes: <i>All covered w/ thin sheet of Ulva</i>
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OCEAN BITEMAP

Site ID: <i>Elkhorn Slough</i>	GPS: <i>36.810708° -121.782105°</i>	Habitat type: <i>Eelgrass</i>
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Date Deployed: <i>6/22/2016</i>	Date Collected: <i>6/23/2016</i>	Number Deployed: <i>25</i>	Number Recovered: <i>25 (all eaten)</i>
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Time Deployed: <i>8:40</i>	Time Collected: <i>8:30</i>	Notes:	Depth: <i>-1m MLLW</i>
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Data Collector: <i>Brent Hughes</i>	Data Collector: <i>B. Hughes</i>	
Weather: <i>Overcast</i>	Weather: <i>Sunny</i>	

Detachment 1 hr: <i>Ø</i>	Notes:
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Detachment 24 hrs: <i>Ø</i>	Notes:
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## OCEAN BITEMAP SQUIDPOP DATA SHEET

OCEAN BITEMAP

Site ID: <i>Elkhorn Slough</i>	GPS: <i>36.810708° -121.782105°</i>	Habitat type: <i>Semifresh</i>
Date Deployed: <i>6/23/2016</i>	Date Collected: <i>6/24/2016</i>	Number Deployed: <i>25</i> Number Recovered: <i>1 (24 consumed)</i>
Time Deployed: <i>9:15</i>	Time Collected: <i>8:40</i>	Notes: Depth: <i>-1 m MLLW</i>
Data Collector: <i>B. Hughes</i>	Data Collector: <i>B. Hughes</i>	
Weather: <i>Sunny</i>	Weather: <i>Foggy</i>	
Detachment 1 hr: <i>Ø</i>		Notes:
Detachment 24 hrs: <i>Ø</i>		Notes:

OCEAN BITEMAP

Site ID: <i>Elkhorn Slough</i>	GPS: <i>36.809236° -121.783232°</i>	Habitat type: <i>Unvegetated</i>
Date Deployed: <i>06/23/2016</i>	Date Collected: <i>06/24/2016</i>	Number Deployed: <i>25</i> Number Recovered: <i>25 (none consumed)</i>
Time Deployed: <i>9:30</i>	Time Collected: <i>8:33</i>	Notes: Depth: <i>-1 m MLLW</i>
Data Collector: <i>B. Hughes</i>	Data Collector: <i>B. Hughes</i>	<i>Still, lots of Ulva,</i>
Weather: <i>Sunny</i>	Weather: <i>Foggy</i>	<i>Some Gracilaria</i>
Detachment 1 hr: <i>Ø</i>		Notes:
Detachment 24 hrs: <i>Ø</i>		Notes: <i>1/2 poles covered w/ Ulva... thin sheet</i>

## OCEAN BITEMAP SQUIDPOP DATA SHEET

OCEAN BITEMAP

Site ID: <i>Elkhorn Slough</i>		GPS: <i>36.810708°, -121.782105°</i> <del><i>36.809236°, -121.783232°</i></del>		Habitat type: <i>Seagrass</i>
Date Deployed: <i>7/5/2016</i>	Date Collected: <i>7/6/16</i>	Number Deployed: <i>25</i>	Number Recovered: <i>4 (20 consumed)</i>	
Time Deployed: <i>8:46</i>	Time Collected: <i>8:21</i>	Notes: <i>15% algal cover</i>		Depth: <i>-1 m MLLW</i>
Data Collector: <i>B. Hughes</i>	Data Collector: <i>K. Behrshiti</i>			
Weather: <i>Foggy/Misty</i>	Weather: <i>Overcast</i>			
Detachment 1 hr: <i>φ</i>		Notes:		
Detachment 24 hrs: <i>1</i>		Notes:		

OCEAN BITEMAP

Site ID: <i>Elkhorn Slough</i>		GPS: <i>36.809236°, -121.783232°</i>		Habitat type: <i>Mudflat</i>
Date Deployed: <i>7/5/2016</i>	Date Collected: <i>7/6/2016</i>	Number Deployed: <i>25</i>	Number Recovered: <i>23 (10 consumed)</i>	
Time Deployed: <i>8:42</i>	Time Collected: <i>8:15</i>	Notes: <i>50% Algae cover</i>		Depth: <i>-1 MLLW</i>
Data Collector: <i>B. Hughes</i>	Data Collector: <i>K. Behrshiti</i>			
Weather: <i>Foggy/Misty</i>	Weather: <i>Overcast</i>			
Detachment 1 hr: <i>φ</i>		Notes:		
Detachment 24 hrs: <i>1</i>		Notes:		

2016-03

OCEAN BITE MAP

Site Name ELKHORN SLOUGH  
 Latitude (decimal) Gross: 36.810708° Flat: 36.809236°  
 Longitude (decimal) Gross: -121.782105° Flat: -121.783232°  
 Date (yyyymmdd) 6/23/16  
 Time (24hr, hhmm) 11:00  
 Distance Of Haul (m) 25 (b.t.) Depth (m) ~1m

(circle one) Seagrass Unvegetated Mudflat



Data Collector B. HUGHES  
 Contact Email bhughes@ucsc.edu  
 List Of Participants K. BOLESHTI, L. MILLER, B. Hughes

Lengths measured in lengths

Genus species	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17	L18	L19	L20	L21	L22	L23	L24	L25	Abundance
Dungeness crab	2.0m																									1
Rainbow perch	3.5	4.1	2.9																							3
Sculpin unk.	3			7.6																						1
Crangon shrimp	3																									1
Staghorn sculpin	3.5	3	3.4	3.1	3.8	3.7	4.1																			7
Black surfperch	8.3	6	7.2	6.5	6.7																					5
Cabezon	5.2																									1
Stripped surfperch	4.7																									1
Pile perch	8.5	5.2	5	4.2	4	4.4	5.1	3.6																		8
Shiner perch	4.9																									1
Dungeness crab	2.1																									1
Top smelt	7.4																									1

## Notes

cabezon, staghorn, & sculpin unk. measured in inches, indicated by "/" mark, after which measured lengths are in cm

S  
E  
A  
G  
R  
A  
S  
SM  
U  
D  
F  
L  
A  
T

11:00

11:30

# OCEAN BITEMAP

Latitude (decimal)

Longitude (decimal)

Date (yyyymmdd)

Time (24hr, hhmm)

Distance Of Haul (m)

Elkhorn Slush

Grass: 36.812708° Flat: 36.869236°

Grass: -121.782105° Flat: -121.783232°

06/14/2016

11:13 - Searching / 11:35 - Unveiling

25 Depth (m)

(circle one)  
Seagrass/Unvegetated

Data Collector

Contact Email

## List Of Participants

B. Hughes

### hhhu@ucsc.edu

B. Hughes, K. Beheshti

[illegible]

Graybees

unvegetated

## Notes

Site: Elkhorn Slough

509

	<u>Temp</u>
14.3	
14.4	
11.1	

$$\begin{array}{r} 5.1 \\ \times 34.11 \\ \hline 5111 \\ 2044 \\ 2044 \\ 2044 \\ \hline 174.961 \end{array}$$

Soln. #2. suggest

Date: 06/24/2016

Time: 11:13

Site: Elk Horn Slough

Lat:  
Long:

Temp  
13.8  
13.8  
13.8

5.1  
34.15  
34.14  
34.12

Seine #2: unweighted (lot's of Ulla  
100% cover)  
Date: 06/24/2016  
Time: 11:36

# OCEAN BITMAP

Latitude (decimal)

Longitude (decimal)

Date (yyyymmdd)

Time (24hr, hhmm)

Distance Of Haul (m)

Depth (m)

1

(circle one)

Seagrass/Unvegetated

### Data Collector

Contact Email

## List Of Participants

[illegible]

## Notes



Site Name	Elkhorn Slough		Squid pop Deployment #1	(circle one)
Latitude (decimal)	36.809236°	36.8111°	Date (yyyymmdd)	06/22/2016
Longitude (decimal)	-121.783232°	-121.7792°	Time (24hr, hhmm)	8:20
	TEMP (C)	SAL (PPT)	Notes	
Point 1	17.0	31.1	YSI failed, used the newest NERR YSI ~100m away	
Point 2				
Point 3	↓	↓		

Site Name	Elkhorn Slough		Squid pop Deployment #1	(circle one)
Latitude (decimal)	36.810708°	36.8111°	Date (yyyymmdd)	06/22/2016
Longitude (decimal)	-121.782105°	-121.7792°	Time (24hr, hhmm)	8:40
	TEMP (C)	SAL (PPT)	Notes	
Point 1	15.9	30.8	YSI failed, used the newest NERR YSI ~150m away	
Point 2	↓	↓		
Point 3	↓	↓		

Site Name	Elkhorn Slough		Squid Recovery #1	(circle one)
Latitude (decimal)	36.810254°		Date (yyyymmdd)	06/23/2016
Longitude (decimal)	-121.783827°		Time (24hr, hhmm)	9:00
	TEMP (C)	SAL (PPT)	Notes	
Point 1	16.2	34.69		
Point 2	16.2	34.68		
Point 3	16.2	34.66		

Site Name	Elkhorn Slough		Squid Recovery #1	(circle one)
Latitude (decimal)	36.811088°		Date (yyyymmdd)	06/23/2016
Longitude (decimal)	-121.782278°		Time (24hr, hhmm)	9:03
	TEMP (C)	SAL (PPT)	Notes	
Point 1	17.0	34.72		
Point 2	17.0	34.73		
Point 3	17.0	34.72		

Site Name	Elkhorn Slough		Squid Recovery Deployment #2	(circle one)
Latitude (decimal)	36.810254°		Date (yyyymmdd)	06/23/2016
Longitude (decimal)	-121.783827°		Time (24hr, hhmm)	9:36
	TEMP (C)	SAL (PPT)	Notes	
Point 1	14.9	34.18		
Point 2	14.9	34.18		
Point 3	14.9	34.17		

Data Collector: Brent Hughes  
 Contact Email: bhhughes@ucsc.edu

Lat: 36.811088° site: Elkhorn Slough  
 Long: -121.782278°  
 Temp: 16.9, 16.9, 16.9  
 Sal (PPT): 34.60, 34.39, 34.57

Squid Deployment #2 - Seagrass  
 Date: 06/23/2016  
 Time: 9:13



Site Name <u>Elkhorn Slough</u>		Date (yyyymmdd) <u>06/24/2016</u>	(circle one) Seagrass/Unvegetated
Latitude (decimal) <u>36.810254°</u>		Time (24hr, hhmm) <u>8:33</u>	
Longitude (decimal) <u>-121.783827°</u>			
	TEMP (C)	SAL (PPT)	Notes <u>Squid/pop Recovery #2</u>
Point 1	<u>16.9</u>	<u>34.67</u>	
Point 2	<u>16.8</u>	<u>34.68</u>	
Point 3	<u>16.9</u>	<u>34.68</u>	

Site Name <u>Elkhorn Slough</u>		Date (yyyymmdd) <u>06/24/2016</u>	(circle one) Seagrass/Unvegetated
Latitude (decimal) <u>36.811088°</u>		Time (24hr, hhmm) <u>8:41</u>	
Longitude (decimal) <u>-121.782278°</u>			
	TEMP (C)	SAL (PPT)	Notes <u>Squid/pop Recovery #2</u>
Point 1	<u>17.1</u>	<u>34.78</u>	
Point 2	<u>17.1</u>	<u>34.77</u>	
Point 3	<u>17.1</u>	<u>34.78</u>	

Site Name <u>Elkhorn Slough</u>		Date (yyyymmdd) <u>07/05/2016</u>	(circle one) Seagrass/Unvegetated
Latitude (decimal) <u>36.810254°</u>		Time (24hr, hhmm) <u>8:42</u>	
Longitude (decimal) <u>-121.783827°</u>			
	TEMP (C)	SAL (PPT)	Notes <u>Squid/pop Deployment #3</u>
Point 1	<u>13.1</u>	<u>34.14</u>	
Point 2	<u>13.0</u>	<u>34.14</u>	
Point 3	<u>13.0</u>	<u>34.14</u>	

Site Name <u>Elkhorn Slough</u>		Date (yyyymmdd) <u>07/05/2016</u>	(circle one) Seagrass/Unvegetated
Latitude (decimal) <u>36.811088°</u>		Time (24hr, hhmm) <u>8:46</u>	
Longitude (decimal) <u>-121.782278°</u>			
	TEMP (C)	SAL (PPT)	Notes <u>Squid/pop Deployment #3</u>
Point 1	<u>13.2</u>	<u>33.94</u>	
Point 2	<u>13.2</u>	<u>33.89</u>	
Point 3	<u>13.2</u>	<u>33.84</u>	

Site Name <u>Elkhorn Slough</u>		Date (yyyymmdd) <u>07/06/2016</u>	(circle one) Seagrass/Unvegetated
Latitude (decimal) <u>36.810254°</u>		Time (24hr, hhmm) <u>8:21</u>	
Longitude (decimal) <u>-121.783827°</u>			
	TEMP (C)	SAL (PPT)	Notes <u>Squid/pop Recovery #3</u>
Point 1	<u>15.4</u>	<u>34.26</u>	
Point 2	<u>15.4</u>	<u>34.22</u>	
Point 3	<u>15.4</u>	<u>34.22</u>	

Data Collector	<u>Brent Hughes / Kat Behrheit</u>
Contact Email	<u>bhughes@ucsc.edu</u>

Site: Elkhorn Slough  
 Lat: 36.811088°  
 Long: -121.782278°

	Temp	SAL
1	<u>15.0</u>	<u>37.93</u>
2	<u>14.9</u>	<u>37.18</u>
3	<u>14.9</u>	<u>34.12</u>

07/06/2016

8:21

Seagrass

5

Squid/pop Recovery #3





Site Name <u>Elkhorn Slough</u>		Date (yyyymmdd) <u>06/23/2016</u>	(circle one) <u>Seagrass/Unvegetated</u>
Latitude (decimal) <u>36.810254°</u>		Time (24hr, hhmm) <u>11:21</u>	
Longitude (decimal) <u>-121.783827°</u>			
	TEMP (C)	SAL (PPT)	Notes
Point 1	14.9	34.16	Seine #1 100% cover Ulva
Point 2	14.9	34.15	
Point 3	14.9	34.16	

Site Name <u>Elkhorn Slough</u>		Date (yyyymmdd) <u>06/23/2016</u>	(circle one) <u>Seagrass/Unvegetated</u>
Latitude (decimal) <u>36.811088°</u>		Time (24hr, hhmm) <u>11:30</u>	
Longitude (decimal) <u>-121.782278°</u>			
	TEMP (C)	SAL (PPT)	Notes
Point 1	14.5	34.14	Seine #1
Point 2	14.5	34.14	
Point 3	14.5	34.14	

Site Name <u>Elkhorn Slough</u>		Date (yyyymmdd) <u>06/24/2016</u>	(circle one) <u>Seagrass/Unvegetated</u>
Latitude (decimal) <u>36.811088°</u>		Time (24hr, hhmm) <u>11:43</u>	
Longitude (decimal) <u>-121.782278°</u>			
	TEMP (C)	SAL (PPT)	Notes
Point 1	14.3	34.11	Seine #2
Point 2	14.4	34.11	
Point 3	14.5	34.13	

Site Name <u>Elkhorn Slough</u>		Date (yyyymmdd) <u>06/24/2016</u>	(circle one) <u>Seagrass/Unvegetated</u>
Latitude (decimal) <u>36.810254°</u>		Time (24hr, hhmm) <u>11:36</u>	
Longitude (decimal) <u>-121.783827°</u>			
	TEMP (C)	SAL (PPT)	Notes
Point 1	12.8	34.15	Lots of Ulva, 100% cover Seine #2
Point 2	13.8	34.14	
Point 3	12.8	34.14	

Site Name <u>Elkhorn Slough</u>		Date (yyyymmdd) <u>07/06/2016</u>	(circle one) <u>Seagrass/Unvegetated</u>
Latitude (decimal) <u>36.811088°</u>		Time (24hr, hhmm) <u>10:00</u>	
Longitude (decimal) <u>-121.782278°</u>			
	TEMP (C)	SAL (PPT)	Notes
Point 1	13.4	33.99	Seine #3
Point 2	13.4	34.03	
Point 3	13.4	34.01	

Data Collector Brent Hughes  
 Contact Email bhughes@ucsc.edu

Site: Elkhorn Slough  
 Lat: 36.810254°  
 Long: -121.783827°  

	Temp	Sal
1	13.4	34.13
2	13.4	34.13
3	13.4	34.13

07/06/2016  
 10:20  
 Unvegetated 5

Seine #3, 100% Ulva cover