

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>
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>
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 Gammaria</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> <i>36.809236°, -121.783232°</i>		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>Madflat</i>
Date Deployed: <i>7/5/2016</i>	Date Collected: <i>7/6/2016</i>	Number Deployed: <i>25</i>	Number Recovered: <i>23 (1 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:		

Site Name ELKHORN SL. OUGL
 Latitude (decimal) 36.810708° FLAT 36.809236°
 Longitude (decimal) -121.782105° FLAT -121.783232°
 Date (YYYYMMDD) 01/23/10
 Time (24hr, hhmm) 11:00
 Distance Of Haul (m) 25(6.4) Depth (m) ~1m

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
<i>Dungeness crab</i>																										1
<i>Rainbow perch</i>																										3
<i>Sculpin</i> - line.																										1
<i>Crainbow smelt</i>																										1
<i>Staghorn sculpin</i>																										7
<i>Black surf perch</i>																										5
<i>Cabezon</i>																										1
<i>Shipped surf perch</i>																										1
<i>Pile perch</i>																										8
<i>Shiner perch</i>																										1
<i>Dungeness crab</i>																										1
<i>Top 6 met</i>																										1

Notes
 Cabezon, staghorn, & sculpin line. Measured in inches, indicated by "1" mark, after which measured lengths are in cm

(tick one)
☒ Seagrass/Unvegetated
 Project
 Data Collector
 Contact Email
 List Of Participants

B. HUGHES
 b.hughes@usc.edu
 K. BERTH, L. MILLER, B. Hughes

SEA GRASS
 11:00
 M
 11:30
 U
 D
 F
 C
 A
 T

Site Name

Latitude (decimal)

Longitude (decimal

Date (yyyymmdd)

Time (24hr, h:mm)

Distance Of Haul (m)

Elkhorn Spring

6043: 36.81070°

6445: -121.782103° -121.75323°

06/14/20

11:35 - 5:00 PM

Depth (m)	Temp (°C)	Salinity	Density	Speed (cm/s)	Direction	Time	Remarks
25	14.5	35.2	1.0234	1.5	135	10:00	Surface water
30	14.0	35.1	1.0232	1.5	135	10:05	Surface water
35	13.5	35.0	1.0230	1.5	135	10:10	Surface water
40	13.0	34.9	1.0228	1.5	135	10:15	Surface water
45	12.5	34.8	1.0226	1.5	135	10:20	Surface water
50	12.0	34.7	1.0224	1.5	135	10:25	Surface water
55	11.5	34.6	1.0222	1.5	135	10:30	Surface water
60	11.0	34.5	1.0220	1.5	135	10:35	Surface water
65	10.5	34.4	1.0218	1.5	135	10:40	Surface water
70	10.0	34.3	1.0216	1.5	135	10:45	Surface water
75	9.5	34.2	1.0214	1.5	135	10:50	Surface water
80	9.0	34.1	1.0212	1.5	135	10:55	Surface water
85	8.5	34.0	1.0210	1.5	135	11:00	Surface water
90	8.0	33.9	1.0208	1.5	135	11:05	Surface water
95	7.5	33.8	1.0206	1.5	135	11:10	Surface water
100	7.0	33.7	1.0204	1.5	135	11:15	Surface water
105	6.5	33.6	1.0202	1.5	135	11:20	Surface water
110	6.0	33.5	1.0200	1.5	135	11:25	Surface water
115	5.5	33.4	1.0198	1.5	135	11:30	Surface water
120	5.0	33.3	1.0196	1.5	135	11:35	Surface water
125	4.5	33.2	1.0194	1.5	135	11:40	Surface water
130	4.0	33.1	1.0192	1.5	135	11:45	Surface water
135	3.5	33.0	1.0190	1.5	135	11:50	Surface water
140	3.0	32.9	1.0188	1.5	135	11:55	Surface water
145	2.5	32.8	1.0186	1.5	135	12:00	Surface water
150	2.0	32.7	1.0184	1.5	135	12:05	Surface water
155	1.5	32.6	1.0182	1.5	135	12:10	Surface water
160	1.0	32.5	1.0180	1.5	135	12:15	Surface water
165	0.5	32.4	1.0178	1.5	135	12:20	Surface water
170	0.0	32.3	1.0176	1.5	135	12:25	Surface water
175	-0.5	32.2	1.0174	1.5	135	12:30	Surface water
180	-1.0	32.1	1.0172	1.5	135	12:35	Surface water
185	-1.5	32.0	1.0170	1.5	135	12:40	Surface water
190	-2.0	31.9	1.0168	1.5	135	12:45	Surface water
195	-2.5	31.8	1.0166	1.5	135	12:50	Surface water
200	-3.0	31.7	1.0164	1.5	135	12:55	Surface water
205	-3.5	31.6	1.0162	1.5	135	13:00	Surface water
210	-4.0	31.5	1.0160	1.5	135	13:05	Surface water
215	-4.5	31.4	1.0158	1.5	135	13:10	Surface water
220	-5.0	31.3	1.0156	1.5	135	13:15	Surface water
225	-5.5	31.2	1.0154	1.5	135	13:20	Surface water
230	-6.0	31.1	1.0152	1.5	135	13:25	Surface water
235	-6.5	31.0	1.0150	1.5	135	13:30	Surface water
240	-7.0	30.9	1.0148	1.5	135	13:35	Surface water
245	-7.5	30.8	1.0146	1.5	135	13:40	Surface water
250	-8.0	30.7	1.0144	1.5	135	13:45	Surface water
255	-8.5	30.6	1.0142	1.5	135	13:50	Surface water
260	-9.0	30.5	1.0140	1.5	135	13	

Seagrass/Unvegetated

Data Collector

Contact Email

List Of Participants

2. Lines

Whites (all)

Handwritten: K. Kobeshi

[illegible]

Notes

Site: Elkhorn Slough

Sch. H2. suggest

Dr. E. K. Johnson, Secretary

Sein #2: unexploded

Ch's of Ula
100% (over)

July 21, 1895

W. H. H. H.

2016-03

Site Name

Elkhorn Slough

(circle one)

Seagrass/Unvegetated



Latitude (decimal)

36.513680

Longitude (decimal)

-121.781050

Date (yyymmdd)

07/06/2015

Time (24hr, hhmm)

10:15

Distance Of Haul (m)

25

Depth (m)

-1

Data Collector

B. Hughes

Contact Email

bhughes@usc.edu

List Of Participants

B. Hughes, K. Babushkin

Genus species

Shiner perch

41

Abundance

1

Black perch

477

3

Rainbow perch

5.2

1

Shiner perch

9.55.5

2

Knew goby

3.0

1

Notes

Seagrass

Addition



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 Sal (PPT)
 1 16.9 34.60
 2 16.9 34.39
 3 16.9 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 Brent Hughes / Kat Behrheit
 Contact Email bhughes@ucsc.edu

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 <u>Seine #1</u> <u>100% cover Ulva</u>
Point 1	<u>14.9</u>	<u>34.16</u>	
Point 2	<u>14.9</u>	<u>34.15</u>	
Point 3	<u>14.9</u>	<u>34.16</u>	

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 <u>Seine #1</u>
Point 1	<u>14.5</u>	<u>34.14</u>	
Point 2	<u>14.5</u>	<u>34.14</u>	
Point 3	<u>14.5</u>	<u>34.14</u>	

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 <u>Seine #2</u>
Point 1	<u>14.3</u>	<u>34.11</u>	
Point 2	<u>14.4</u>	<u>34.11</u>	
Point 3	<u>14.5</u>	<u>34.13</u>	

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 <u>Lots of Ulva, 100% cover</u> <u>Seine #2</u>
Point 1	<u>12.8</u>	<u>34.15</u>	
Point 2	<u>12.8</u>	<u>34.14</u>	
Point 3	<u>12.8</u>	<u>34.14</u>	

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 <u>Seine #3</u>
Point 1	<u>13.4</u>	<u>33.99</u>	
Point 2	<u>13.4</u>	<u>34.03</u>	
Point 3	<u>13.4</u>	<u>34.01</u>	

Data Collector Brent Hughes
 Contact Email bhughes@ucsc.edu

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

	Temp	Sal
1	<u>13.4</u>	<u>34.13</u>
2	<u>13.4</u>	<u>34.13</u>
3	<u>13.4</u>	<u>34.13</u>

07/06/2016 unvegetated 5
10:20

Seine #3, 100% Ulva cover