Appendix B

Sampling Site Maps, Sampling Data and Physical Data

Figure B1. Map of CRANE sampling sites from Santa Cruz County to San Luis Obispo County.

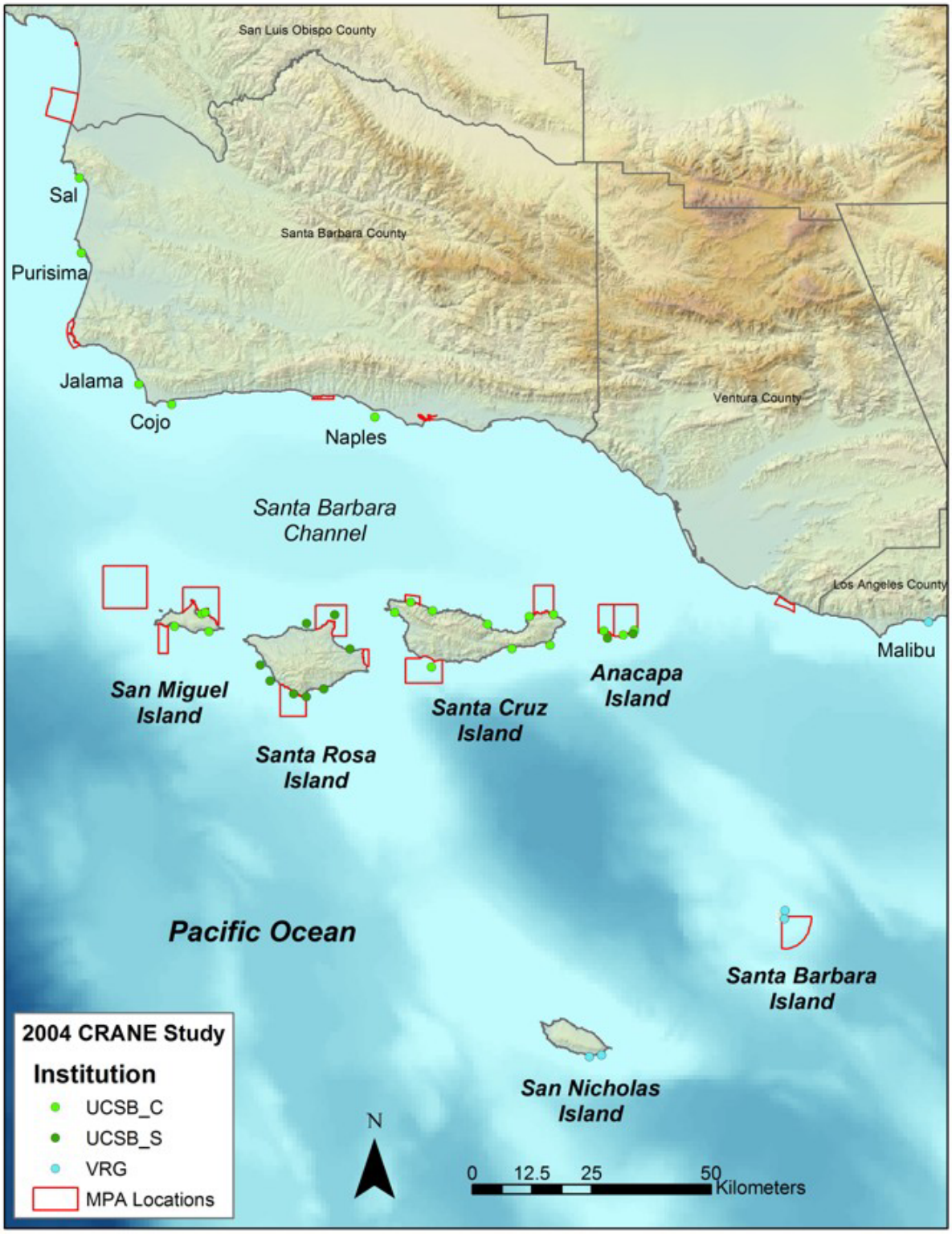

Figure B2. Map of CRANE sampling sites in Santa Barbara and Ventura Counties.

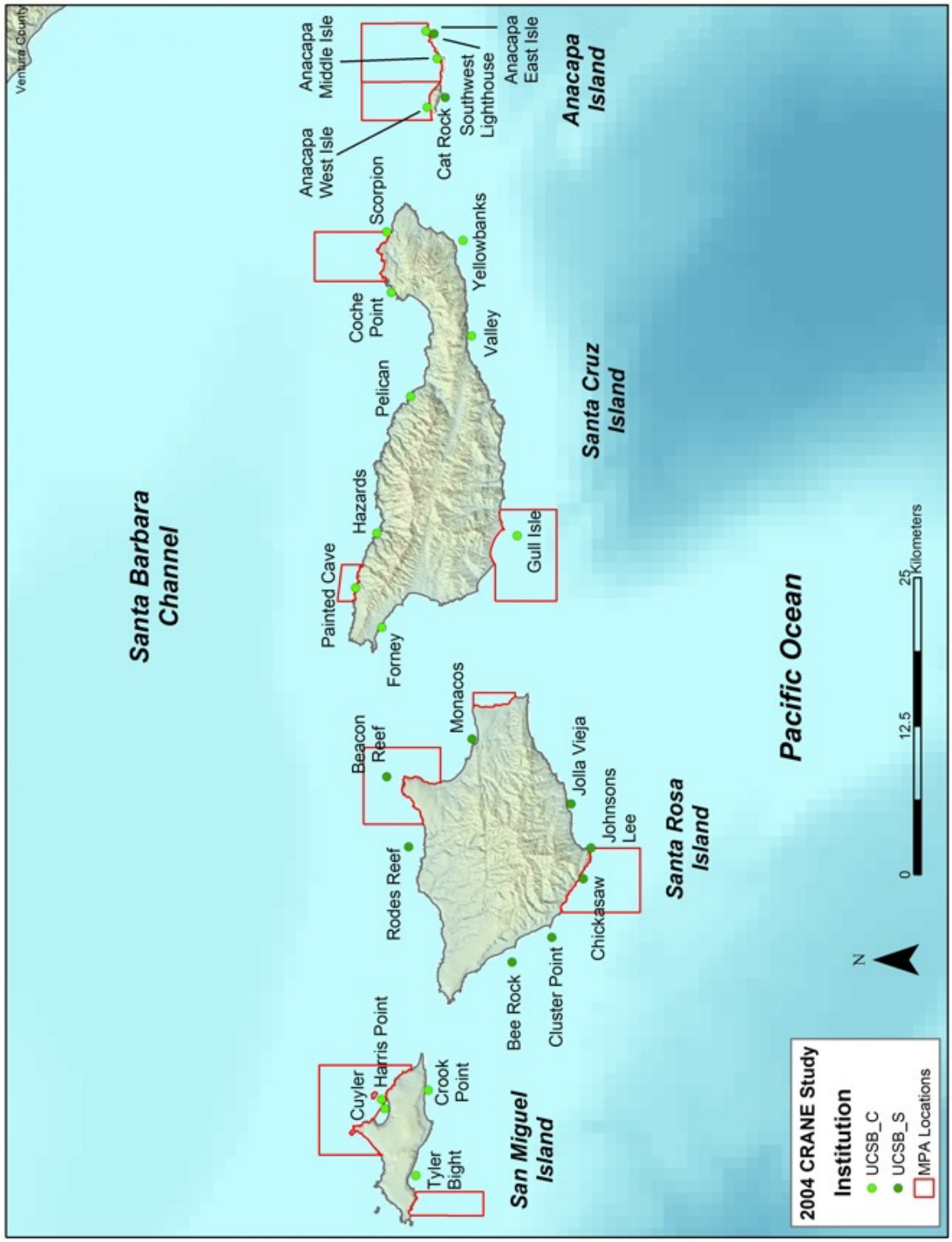

Figure B3. Map of CRANE sampling sites in the northern Channel Islands.

Figure B4. Map of CRANE sampling sites from Los Angeles to San Diego County.

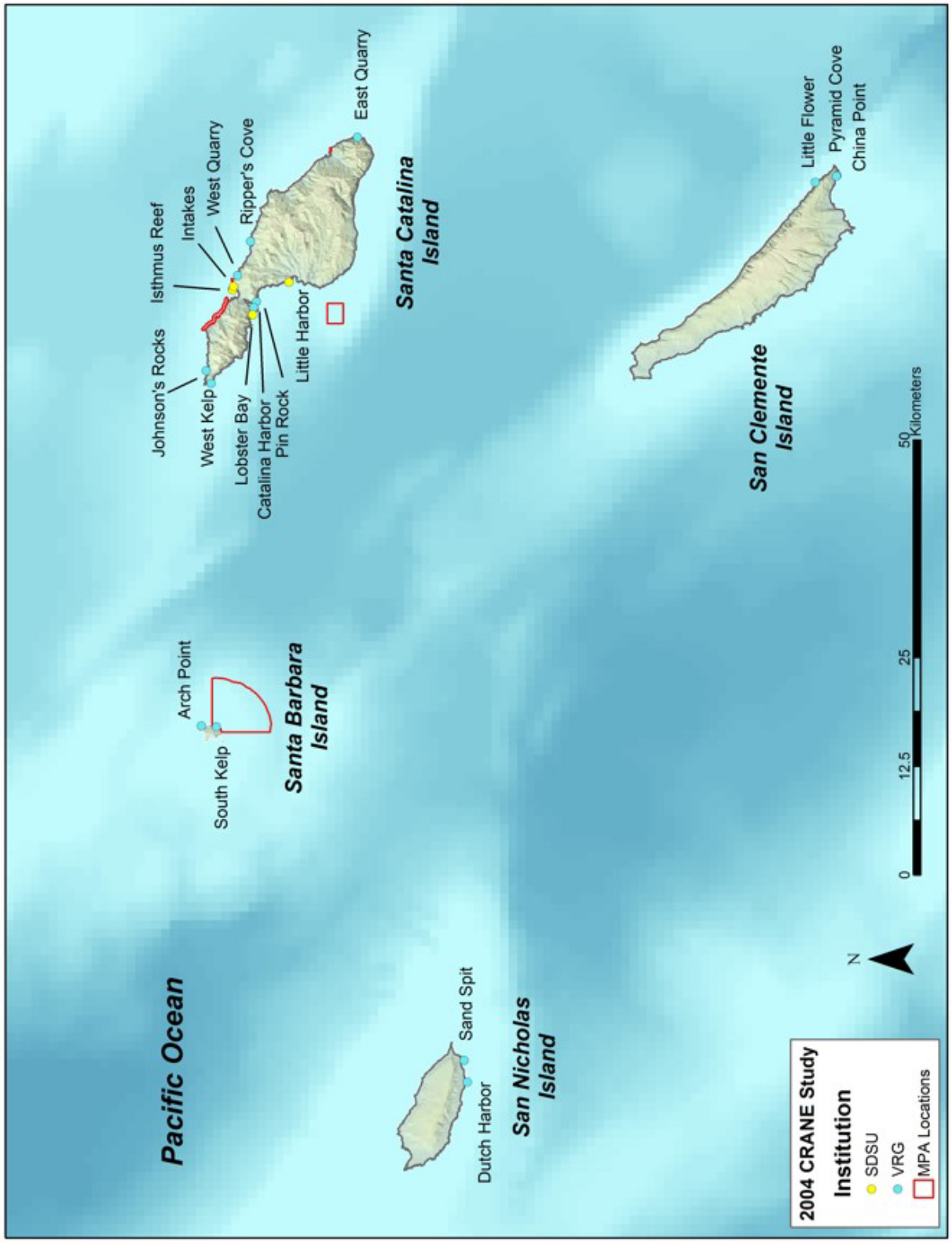

Figure B5. Map of CRANE sampling sites in the southern Channel Islands.

Table B1. Physical data for sites sampled in 2004. Site sizes were not estimated for all sites.

Site #	Site Name	County or Island	Year Est.	Latitude (N)	Longitude (W)	Site Size (ha)	Sides	Zones	Min Depth (m)	Max Depth (m)
1	Sandhill Bluff	Santa Cruz	1999	36.97357	122.15054	15.2	2	4	4.5	13.0
2	Terrace Point	Santa Cruz	2000	36.94489	122.06528	9.2	2	4	3.7	13.7
3	MacAbee	Monterey	1999	36.61767	121.89627	7.8	2	4	3.4	16.2
4	Hopkins	Monterey	1999	36.62199	121.90227	9.2	2	4	4.0	16.5
5	Pescadero	Monterey	2003	36.56029	121.95706	14.1	2	4	4.9	22.0
6	Stillwater Cove	Monterey	1999	36.56022	121.94587	16.3	2	4	2.4	23.4
7	Monastery	Monterey	1999	36.52533	121.93190	8.8	2	4	4.0	20.7
8	Bluefish Cove	Monterey	1999	36.52369	121.94614	11.4	2	4	3.7	21.3
9	Weston	Monterey	2001	36.51149	121.94727	8.4	2	4	4.0	23.5
10	Andrew Molera	Monterey	2003	36.27831	121.87013	45.9	2	4	6.1	21.3
11	Esalen	Monterey	2001	36.12626	121.64898	24.1	2	4	4.9	21.0
12	Big Creek	Monterey	2001	36.06912	121.60656	18.4	2	4	4.0	22.6
13	Lopez Rock	Monterey	2001	36.02532	121.58134	39.4	3	4	5.0	20.0
14	Lucia	Monterey	2003	36.01611	121.56149	26.9	2	4	12.2	18.3
15	Wild Cattle	Monterey	2003	35.97610	121.49337	7.0	2	4	3.7	15.2
16	Plaskett Rock	Monterey	2003	35.91585	121.47868	10.6	2	4	5.5	20.0
17	Duck Pond	Monterey	2003	35.85775	121.42562	4.3	2	4	4.9	18.0
18	Salmon Creek	Monterey	2003	35.80915	121.37762	44.9	2	4	12.2	15.2
19	La Cruz	San Luis Obispo	2003	35.71172	121.32473	20.0	2	4	6.4	20.1
20	San Simeon	San Luis Obispo	2003	35.63073	121.19296	11.3	2	4	4.3	14.3
21	Cambria Rock	San Luis Obispo	2002	35.56919	121.12573	38.1	2	4	7.3	21.0
22	White Rock	San Luis Obispo	2002	35.52637	121.08726	34.7	2	4	5.8	21.3
23	Cayucos	San Luis Obispo	2003	35.43463	120.94861	28.3	2	4	4.6	16.8
24	Point Buchon	San Luis Obispo	2004	35.24009	120.89333	22.0	2	3	4.0	19.8
25	Diablo Canyon	San Luis Obispo	1976	35.20366	120.84890	20.0	2	3	3.0	18.3
26	Sal	Santa Barbara	1999	34.87187	120.62967	6.8	2	4	5.5	12.5
27	Purisima	Santa Barbara	1999	34.73037	120.62333	11.5	2	4	7.0	18.6
28	Jalama	Santa Barbara	1999	34.48280	120.49078	12.2	2	4	8.5	20.1
29	Cojo	Santa Barbara	1999	34.44508	120.41583	10.0	2	4	6.7	17.1
30	Naples	Santa Barbara	1999	34.42218	119.95187	2.8	3	2	3.4	17.4
31	Cuyler	San Miguel Island	2004	34.05027	120.34587	5.8	2	4	5.2	13.4
32	Harris Point	San Miguel Island	2004	34.05278	120.33738	1.3	2	4	4.3	14.6
33	Tyler Bight	San Miguel Island	2004	34.02653	120.40670	6.1	2	4	5.5	14.3
34	Crook Point	San Miguel Island	2004	34.01718	120.32888	7.4	2	4	8.2	15.5
35	Rodes Reef	Santa Rosa Island	2004	34.03250	120.10720	-	2	3	10.0	14.2
36	Beacon Reef	Santa Rosa Island	2004	34.04920	120.04320	-	3	4	8.2	12.7
37	Monacos	Santa Rosa Island	2004	33.98450	120.00870	-	2	3	4.8	11.5
38	Bee Rock	Santa Rosa Island	2004	33.95390	120.21190	-	3	4	9.0	18.2
39	Cluster Point	Santa Rosa Island	2004	33.92380	120.18945	-	3	4	13.0	18.2
40	Chickasaw	Santa Rosa Island	2004	33.89990	120.13610	-	3	3	4.2	17.6
41	Johnsons Lee	Santa Rosa Island	2004	33.89410	120.10790	-	3	3	7.6	14.2
42	Jolla Vieja	Santa Rosa Island	2004	33.90920	120.06770	-	2	3	5.8	10.3
43	Forney	Santa Cruz Island	2001	34.05303	119.90693	6.8	2	4	3.7	16.5
44	Painted Cave	Santa Cruz Island	2004	34.07287	119.87098	2.3	3	2	4.3	16.5
45	Hazards	Santa Cruz Island	2000	34.05658	119.82117	0.9	3	2	3.4	17.7
46	Pelican	Santa Cruz Island	2000	34.03065	119.69665	1.7	3	2	2.7	11.6
47	Coche Point	Santa Cruz Island	2004	34.04497	119.60153	2.6	2	4	3.7	18.9
48	Scorpion	Santa Cruz Island	2004	34.04847	119.54637	1.4	2	4	4.6	18.0
49	Gull Isle	Santa Cruz Island	2004	33.94990	119.82360	2.6	2	4	4.6	18.3
50	Valley	Santa Cruz Island	2004	33.98433	119.64148	8.3	3	2	6.1	14.9
51	Yellowbanks	Santa Cruz Island	2001	33.99037	119.55450	17.2	2	4	7.9	18.9

(table continued)

Table B1 (continued). Physical data for CRANE sites sampled in 2004.

Site #	Site Name	County or Island	Year Est.	Latitude (N)	Longitude (W)	Site Size (ha)	Sides	Zones	Min Depth (m)	Max Depth (m)
52	Anacapa West Isle	Anacapa Island	2004	34.01698	119.43292	0.84	3	2	3.7	20.7
53	Anacapa Middle Isle	Anacapa Island	1999	34.00932	119.38877	0.6	3	2	3.0	17.7
54	Anacapa East Isle	Anacapa Island	1999	34.01767	119.36368	1.2	3	2	3.7	16.5
55	Cat Rock	Anacapa Island	2004	34.00350	119.42410	-	3	4	5.1	13.6
56	Southwest Lighthouse	Anacapa Island	2004	34.01160	119.36610	-	3	2	2.1	8.5
57	Malibu	Los Angeles	2004	34.02785	118.69552	4.0	2	2	4.6	11.5
58	King Harbor	Los Angeles	1974	33.84143	118.39492	8.0	2	3	4.6	15.0
59	Rocky Point	Los Angeles	1974	33.78053	118.42793	15.0	2	3	4.0	15.0
60	Point Vicente	Los Angeles	2004	33.74410	118.41962	2.0	2	3	4.6	16.1
61	Dana Point	Orange	2004	33.47962	117.72570	-	2	4	4.6	18.9
62	San Mateo	Orange	2004	33.38842	117.60080	-	2	4	4.9	18.3
63	San Onofre	San Diego	2004	33.34445	117.55735	-	2	3	12.5	15.2
64	Barn Kelp	San Diego	2004	33.28935	117.48980	-	1	1	15.0	15.0
65	Carlsbad	San Diego	2004	33.12792	117.33693	-	2	4	4.9	16.5
66	Encinitas	San Diego	2004	33.03408	117.29655	-	2	4	4.3	18.6
67	Cardiff	San Diego	2004	32.99540	117.27813	-	2	4	5.8	17.4
68	La Jolla	San Diego	2004	32.82090	117.28505	-	2	3	10.7	18.3
69	Point Loma North	San Diego	2004	32.72382	117.25965	-	2	4	4.0	18.3
70	Point Loma South	San Diego	2004	32.68668	117.26618	-	2	3	7.9	18.0
71	Sand Spit	San Nicolas Island	2004	33.21622	119.44362	25.0	2	3	6.1	13.7
72	Dutch Harbor	San Nicolas Island	2000	33.21288	119.47053	15.0	2	3	4.6	15.5
73	Arch Point	Santa Barbara Island	2004	33.48633	119.02793	2.0	2	3	4.3	13.1
74	South Kelp	Santa Barbara Island	2004	33.47085	119.02932	6.0	2	3	5.2	12.2
75	West Kelp	Santa Catalina Island	2000	33.47180	118.60447	10.0	2	3	4.6	17.0
76	Johnson's Rocks	Santa Catalina Island	2005	33.47673	118.58887	5.0	2	3	5.0	16.5
77	Isthmus Reef	Santa Catalina Island	2004	33.44782	118.48932	-	2	4	4.3	19.2
78	Intakes	Santa Catalina Island	2004	33.44708	118.48510	-	2	4	4.6	20.1
79	West Quarry	Santa Catalina Island	2002	33.44245	118.47143	5.0	2	3	4.6	15.0
80	Ripper's Cove	Santa Catalina Island	2004	33.42857	118.42992	5.0	2	2	4.6	11.9
81	East Quarry	Santa Catalina Island	2004	33.31570	118.30333	2.0	2	3	4.6	15.0
82	Lobster Bay	Santa Catalina Island	2004	33.42760	118.52032	-	2	3	4.6	15.2
83	Catalina Harbor	Santa Catalina Island	2004	33.42620	118.51145	12.5	2	1	5.0	16.0
84	Pin Rock	Santa Catalina Island	2004	33.42352	118.50433	5.7	2	1	4.0	12.0
85	Little Harbor	Santa Catalina Island	2004	33.38925	118.48088	-	2	3	5.2	15.5
86	Little Flower	San Clemente Island	2000	32.84023	118.36855	2.0	2	3	4.6	15.0
87	Pyramid Cove	San Clemente Island	2004	32.81768	118.36065	25.0	2	3	4.6	16.5
88	China Point	San Clemente Island	2004	32.81833	118.36170	10.0	2	3	4.6	14.9

Table B2. Sampling dates and observation conditions for 2004 CRANE sites.

Site #	Site Name	County or Island	Date Sampled (1)	Date Sampled (2)	Date Sampled (3)	Min Vis (m)	Max Vis (m)	Min Temp (C)	Max Temp (C)	Min Surge	Max Surge
1	Sandhill Bluff	Santa Cruz	8/10/04			15.0	20.0	12.0	12.8	0	3
2	Terrace Point	Santa Cruz	9/9/04	10/7/04		3.0	6.0	12.0	15.6	0	3
3	MacAbee	Monterey	8/17/04			4.0	11.0	10.6	14.4	0	0
4	Hopkins	Monterey	8/17/04			5.0	12.0	11.7	13.9	0	3
5	Pescadero	Monterey	8/12/04			5.0	9.0	12.0	12.8	0	3
6	Stillwater Cove	Monterey	9/3/04			3.0	12.0	11.1	12.2	0	2
7	Monastery	Monterey	8/18/04			3.0	15.0	11.1	12.2	0	3
8	Bluefish Cove	Monterey	8/18/04			6.0	15.0	11.0	11.7	0	3
9	Weston	Monterey	8/11/04			6.0	12.0	10.0	12.2	0	2
10	Andrew Molera	Monterey	9/8/04			3.0	9.0	12.2	12.2	0	3
11	Esalen	Monterey	9/25/04			3.0	14.0	11.0	12.8	1	3
12	Big Creek	Monterey	9/24/04	9/25/04	9/26/04	3.0	7.0	13.0	13.0		
13	Lopez Rock	Monterey	9/24/04			3.0	12.0	11.1	12.8	1	3
14	Lucia	Monterey	6/2/04			3.8	7.0	10.0	10.0	1	2
15	Wild Cattle	Monterey	08/21/04	09/23/04		4.0	12.0	12.0	13.0	0	2
16	Plaskett Rock	Monterey	08/23/04	09/22/04		3.0	15.0	11.0	15.6	0	3
17	Duck Pond	Monterey	08/22/04			3.0	6.0	12.0	15.0	0	3
18	Salmon Creek	Monterey	6/3/04			4.0	4.0	10.0	10.0	3	3
19	La Cruz	San Luis Obispo	09/27/04			3.0	8.0	11.0	12.0	2	3
20	San Simeon	San Luis Obispo	08/28/04	09/27/04		3.0	5.0	13.0	13.0	0	1
21	Cambria Rock	San Luis Obispo	8/27/04	10/15/04		3.0	10.0	13.0	13.0	1	2
22	White Rock	San Luis Obispo	10/14/04			5.0	12.0	13.0	17.4	1	2
23	Cayucos	San Luis Obispo	08/25/04			2.0	5.0	14.4	16.2	0	2
24	Point Buchon	San Luis Obispo	11/09/04	11/10/04		5.0	15.0	15.2	15.4	1	2
25	Diablo Canyon	San Luis Obispo	10/29/04	11/02/04	11/08/04	6.0	10.0	14.7	15.4	1	2
26	Sal [1]	Santa Barbara	07/28/04	07/29/04		-	-	-	-	-	-
27	Purisima	Santa Barbara	11/17/04			1.5	4.6	12.2	13.3	-	-
28	Jalama	Santa Barbara	11/02/04			2.4	6.1	13.9	17.8	-	-
29	Cojo	Santa Barbara	11/03/04			1.5	6.1	15.0	17.8	-	-
30	Naples[2]	Santa Barbara	09/16/04			3.7	12.2	17.2	21.1	-	-
31	Cuyler	San Miguel Island	10/13/04	10/15/04		3.0	9.1	12.8	16.1	-	-
32	Harris Point	San Miguel Island	10/13/04	10/15/04		4.6	10.7	12.8	16.7	-	-
33	Tyler Bight	San Miguel Island	10/14/04			3.0	9.1	12.2	15.0	-	-
34	Crook Point	San Miguel Island	11/09/04			4.6	9.1	12.8	15.0	-	-
35	Rodes Reef	Santa Rosa Island	10/14/04			4.5	12.0	16.0	17.0	-	-
36	Beacon Reef	Santa Rosa Island	10/15/04			4.5	12.0	15.0	17.0	-	-
37	Monacos[2]	Santa Rosa Island	10/12/04			3.0	6.0	14.0	17.0	-	-
38	Bee Rock	Santa Rosa Island	08/31/04			3.0	9.0	14.0	19.0	-	-
39	Cluster Point	Santa Rosa Island	09/01/04			4.5	12.0	12.0	15.0	-	-
40	Chickasaw	Santa Rosa Island	08/30/04			3.0	9.0	14.0	18.0	-	-
41	Johnsons Lee	Santa Rosa Island	10/07/04			6.0	9.0	18.0	19.0	-	-
42	Jolla Vieja	Santa Rosa Island	09/02/04			3.0	6.0	16.0	19.5	-	-
43	Forney	Santa Cruz Island	09/07/04			4.0	9.1	16.1	22.8	-	-
44	Painted Cave	Santa Cruz Island	09/15/04			6.1	12.2	17.8	21.1	-	-
45	Hazards	Santa Cruz Island	09/21/04	09/22/04		4.6	9.1	17.2	20.0	-	-
46	Pelican	Santa Cruz Island	08/25/04			3.0	7.6	17.8	20.0	-	-
47	Coche Point	Santa Cruz Island	08/12/04	09/02/04	09/03/04	3.0	11.6	17.8	22.2	-	-
48	Scorpion	Santa Cruz Island	08/26/04			4.6	15.2	16.1	18.9	-	-
49	Gull Isle	Santa Cruz Island	09/29/04	09/30/04		6.1	12.2	15.0	18.3	-	-
50	Valley	Santa Cruz Island	10/25/04			7.6	11.0	13.9	17.8	-	-
51	Yellowbanks	Santa Cruz Island	09/28/04	09/29/04		4.6	12.2	12.8	20.0	-	-

(table continued)

Table B2. Sampling dates and observation conditions for 2004 CRANE sites.

Site #	Site Name	County or Island	Date Sampled (1)	Date Sampled (2)	Date Sampled (3)	Min Vis (m)	Max Vis (m)	Min Temp (C)	Max Temp (C)	Min Surge	Max Surge
52	Anacapa West Isle	Anacapa Island	09/01/04	09/02/04		10.7	16.2	17.8	20.6	-	-
53	Anacapa Middle Isle	Anacapa Island	08/31/04	09/01/04		6.1	13.7	16.1	20.0	-	-
54	Anacapa East Isle	Anacapa Island	08/31/04			7.6	15.5	13.9	20.0	-	-
55	Cat Rock	Anacapa Island	10/29/04			6.0	18.0	18.0	19.0	-	-
56	Southwest Lighthouse	Anacapa Island	11/02/04			9.0	18.0	18.0	19.0	-	-
57	Malibu[2]	Los Angeles	12/22/04			5.0	10.0	14.4	15.0	0	1
58	King Harbor	Los Angeles	07/16/04	09/07/04		4.6	12.0	14.0	22.0	0	1
59	Rocky Point	Los Angeles	07/22/04			3.0	12.0	14.0	17.0	0	1
60	Point Vicente	Los Angeles	09/14/04			5.0	20.0	18.0	24.5	0	1
61	Dana Point	Orange	11/27/04			5.0	6.3	-	-	-	-
62	San Mateo	Orange	04/12/04			2.1	2.1	-	-	0	2
63	San Onofre	San Diego	12/15/04			-	-	-	-	0	0
64	Barn Kelp	San Diego	12/15/04			-	-	-	-	-	-
65	Carlsbad	San Diego	09/25/04			1.5	4.8	-	-	0	3
66	Encinitas	San Diego	09/25/04	09/26/04		3.0	4.6	-	-	1	1
67	Cardiff	San Diego	10/03/04			-	-	-	-	0	0
68	La Jolla	San Diego	09/29/04			-	-	-	-	2	3
69	Point Loma North	San Diego	10/16/04			-	-	-	-	0	0
70	Point Loma South	San Diego	11/13/04			-	-	-	-	0	0
71	Sand Spit	San Nicolas Island	11/21/04			4.0	12.0	15.0	16.0	0	1
72	Dutch Harbor	San Nicolas Island	11/20/04			5.0	13.0	15.5	16.5	0	1
73	Arch Point	Santa Barbara Island	10/09/04			12.0	15.0	16.5	18.0	0	1
74	South Kelp	Santa Barbara Island	10/09/04	10/10/04		5.0	12.0	18.0	18.5	0	1
75	West Kelp[2]	Santa Catalina Island	01/05/05	01/06/05		2.0	15.0	15.0	15.0	0	3
76	Johnson's Rocks[2]	Santa Catalina Island	01/05/05	01/06/05		2.0	20.0	13.0	15.5	0	1
77	Isthmus Reef	Santa Catalina Island	08/20/04	08/21/04		4.0	7.0	15.6	16.7	0	0
78	Intakes	Santa Catalina Island	08/05/04	08/15/04		4.0	10.0	12.8	21.7	0	0
79	West Quarry[2]	Santa Catalina Island	11/16/04			18.3	23.0	17.0	18.0	0	0
80	Ripper's Cove	Santa Catalina Island	07/30/04			20.0	20.0	21.0	22.0	0	0
81	East Quarry	Santa Catalina Island	09/19/04			9.1	16.0	21.5	22.0	0	1
82	Lobster Bay	Santa Catalina Island	08/22/04	08/23/04		6.0	6.0	16.1	16.7	0	2
83	Catalina Harbor[2]	Santa Catalina Island	11/24/04	12/11/04	01/15/05	7.0	18.0	15.0	17.0	0	0
84	Pin Rock	Santa Catalina Island	11/24/04	12/11/04	01/15/05	5.0	18.0	15.0	17.0	0	0
85	Little Harbor	Santa Catalina Island	08/09/04	08/10/04		2.0	10.0	17.2	20.0	1	2
86	Little Flower	San Clemente Island	09/16/04			9.0	20.0	17.0	21.5	0	0
87	Pyramid Cove	San Clemente Island	09/17/04			5.0	15.0	18.5	21.5	0	2
88	China Point	San Clemente Island	09/19/04			7.0	25.0	19.0	21.0	1	2

[1] sampled for invertebrates only

[2] sampled for fish only

Table B3. Replicates completed by task at 2004 CRANE sites.

Site #	Site Name	County or Island	Fish (Benthic)	Fish (Midwater)	Swath	UPC
1	Sandhill Bluff	Santa Cruz	24	24	12	*
2	Terrace Point	Santa Cruz	24	24	12	*
3	MacAbee	Monterey	24	24	12	*
4	Hopkins	Monterey	24	24	12	*
5	Pescadero	Monterey	24	24	12	*
6	Stillwater Cove	Monterey	24	24	12	*
7	Monastery	Monterey	24	24	12	*
8	Bluefish Cove	Monterey	24	24	12	*
9	Weston	Monterey	24	24	11	*
10	Andrew Molera	Monterey	24	24	12	*
11	Esalen	Monterey	24	24	12	*
12	Big Creek	Monterey	24	24	12	*
13	Lopez Rock	Monterey	24	24	10	*
14	Lucia	Monterey	6	6	4	*
15	Wild Cattle	Monterey	24	24	12	12
16	Plaskett Rock	Monterey	24	24	12	12
17	Duck Pond	Monterey	23	24	12	12
18	Salmon Creek	Monterey	6	6	12	*
19	La Cruz	San Luis Obispo	18	18	12	12
20	San Simeon	San Luis Obispo	18	18	12	12
21	Cambria Rock	San Luis Obispo	24	24	12	*
22	White Rock	San Luis Obispo	24	24	12	*
23	Cayucos	San Luis Obispo	18	18	12	12
24	Point Buchon	San Luis Obispo	24	24	12	12
25	Diablo Canyon	San Luis Obispo	24	24	12	12
26	Sal	Santa Barbara	–	–	12	12
27	Purisima	Santa Barbara	24	18	12	12
28	Jalama	Santa Barbara	24	18	12	12
29	Cojo	Santa Barbara	24	18	12	12
30	Naples	Santa Barbara	25	25	–	–
31	Cuyler	San Miguel Island	24	18	12	12
32	Harris Point	San Miguel Island	24	21	12	12
33	Tyler Bight	San Miguel Island	24	21	12	12
34	Crook Point	San Miguel Island	24	18	12	12
35	Rodes Reef	Santa Rosa Island	24	24	12	12
36	Beacon Reef	Santa Rosa Island	24	24	12	12
37	Monacos	Santa Rosa Island	24	24	–	–
38	Bee Rock	Santa Rosa Island	24	24	12	12
39	Cluster Point	Santa Rosa Island	24	24	12	12
40	Chickasaw	Santa Rosa Island	24	24	12	12
41	Johnsons Lee	Santa Rosa Island	24	24	12	12
42	Jolla Vieja	Santa Rosa Island	24	24	12	12
43	Forney	Santa Cruz Island	24	18	12	12
44	Painted Cave	Santa Cruz Island	24	12	12	12
45	Hazards	Santa Cruz Island	24	12	12	12
46	Pelican	Santa Cruz Island	24	12	12	12
47	Coche Point	Santa Cruz Island	28	18	12	12
48	Scorpion	Santa Cruz Island	24	18	12	12
49	Gull Isle	Santa Cruz Island	24	18	12	12
50	Valley	Santa Cruz Island	24	12	12	12
51	Yellowbanks	Santa Cruz Island	24	24	12	12

* UPC data were collected but not available for this report

(table continued)

Table B3. Replicates completed by task at 2004 CRANE sites.

Site #	Site Name	County or Island	Fish (Benthic)	Fish (Midwater)	Swath	UPC
52	Anacapa West Isle	Anacapa Island	24	12	12	12
53	Anacapa Middle Isle	Anacapa Island	24	16	12	12
54	Anacapa East Isle	Anacapa Island	24	12	12	12
55	Cat Rock	Anacapa Island	24	24	12	12
56	Southwest Lighthouse	Anacapa Island	24	24	12	12
57	Malibu	Los Angeles	12	12	–	–
58	King Harbor	Los Angeles	29	4	10	10
59	Rocky Point	Los Angeles	24	24	12	12
60	Point Vicente	Los Angeles	24	24	9	9
61	Dana Point	Orange	24	24	12	12
62	San Mateo	Orange	21	21	12	12
63	San Onofre	San Diego	20	20	10	10
64	Barn Kelp	San Diego	4	4	2	2
65	Carlsbad	San Diego	24	24	12	12
66	Encinitas	San Diego	24	24	12	12
67	Cardiff	San Diego	24	24	12	12
68	La Jolla	San Diego	24	24	8	8
69	Point Loma North	San Diego	24	24	12	12
70	Point Loma South	San Diego	24	24	12	12
71	Sand Spit	San Nicolas Island	12	12	6	6
72	Dutch Harbor	San Nicolas Island	24	24	12	12
73	Arch Point	Santa Barbara Island	24	24	12	12
74	South Kelp	Santa Barbara Island	24	24	12	12
75	West Kelp	Santa Catalina Island	24	15	–	–
76	Johnson's Rocks	Santa Catalina Island	24	24	–	–
77	Isthmus Reef	Santa Catalina Island	24	24	12	12
78	Intakes	Santa Catalina Island	24	24	12	12
79	West Quarry	Santa Catalina Island	24	24	–	–
80	Ripper's Cove	Santa Catalina Island	11	11	4	4
81	East Quarry	Santa Catalina Island	24	24	12	12
82	Lobster Bay	Santa Catalina Island	24	20	12	12
83	Catalina Harbor	Santa Catalina Island	12	12	–	–
84	Pin Rock	Santa Catalina Island	12	12	–	–
85	Little Harbor	Santa Catalina Island	24	24	12	12
86	Little Flower	San Clemente Island	24	24	12	12
87	Pyramid Cove	San Clemente Island	24	24	12	12
88	China Point	San Clemente Island	24	24	12	12
		Number of Sites Sampled	**88**	**88**	**80**	**63**
		Number of Transects Sampled	**1,955**	**1,774**	**914**	**721**
		Average Transects per Sampled Site	**22.4**	**20.4**	**11.4**	**11.4**