

APPENDIX A

Station-Survey Completion Tables



Intertidal Horizontal Band Transect Completion Table (Continued).

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Intertidal Horizontal Band Transect Completion Table (Continued).

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(Continued)

1

[illegible]

Intertidal Vertical Band Transect Completion Table.

Area		North Control	Field's Cove	North Diablo Cove	North Diablo Cove	South Diablo Cove	South Diablo Cove	South Control
New Station Name		NC 1-V	FC 1-V	NDC 1-V	NDC 2-V	SDC 1-V	SDC 2-V	SC 1-V
Previous Station Name		N	C	L	I	M	H	S
Survey	Date							
2	Apr-79		X	X	X	X	X	
3	Jun-79		X	X	X	X	X	
4	Aug-79			X			X	
5	Nov-79		X	X	X	X	X	
6	Jan-80		X	X	X	X	X	
7	Mar-80		X	X	X	X	X	
8	May-80		X	X	X	X	X	
9	Jul-80		X	X	X	X	X	
10	Oct-80			X			X	
11	Dec-80			X			X	
12	Feb-81		X	X	X	X	X	
13	Apr-81		X	X	X	X	X	
14	Jun-81			X			X	
15	Aug-81			X			X	
17	Jan-82			X			X	
18	Mar-82			X			X	
19	May-82			X			X	
20	Jul-82			X			X	
21	Nov-82			X			X	
22	Mar-83			X			X	
23	Jun-83			X			X	
24	Dec-85		X	X			X	
25	Feb-86		X	X			X	
26	Apr-86		X	X			X	
27	Jul-86		X	X			X	
28	Nov-86		X	X		X	X	
29	Jan-87		X	X			X	
30	Mar-87		X	X			X	
31	May-87		X	X		X	X	
32	Jul-87		X	X			X	
33	Nov-87		X	X			X	
34	Feb-88		X	X			X	
35	May-88		X	X			X	
36	Feb-89		X	X	X	X	X	
37	May-89		X	X	X	X	X	
39	Nov-89		X	X	X	X	X	
40	Jan-90		X	X	X	X	X	
41	Jun-90		X	X	X	X	X	
42	Aug-90		X	X	X	X	X	
43	Nov-90		X	X	X	X	X	
44	Jan-91		X	X	X	X	X	
45	May-91		X	X	X	X	X	
46	Jul-91		X	X	X	X	X	
47	Nov-91		X	X	X	X	X	
48	Jan-92		X	X	X	X	X	
49	May-92		X	X	X	X	X	
50	Jun-92		X	X	X	X	X	
51	Nov-92		X	X	X	X	X	
52	Feb-93					X	X	
53	May-93		X	X	X	X	X	
54	Jul-93		X	X	X	X	X	
55	Nov-93		X	X	X	X	X	
56	Jan-94		X	X	X	X	X	

(Continued)

Intertidal Vertical Band Transect Completion Table (Continued).

Area		North Control	Field's Cove	North Diablo Cove	North Diablo Cove	South Diablo Cove	South Diablo Cove	South Control
New Station Name		NC 1-V	FC 1-V	NDC 1-V	NDC 2-V	SDC 1-V	SDC 2-V	SC 1-V
Previous Station Name		N	C	L	I	M	H	S
Survey	Date							
57	May-94		X	X	X	X	X	
58	Jul-94		X	X	X	X	X	
59	Nov-94		X	X	X	X	X	
60	Jan-95		X	X	X	X	X	
61	May-95		X	X	X	X	X	
62	Jul-95		X					
63	Nov-95		X					
64	Jan-96		X					
65	Jun-96		X					
66	Jul-96		X	X			X	
67	Dec-96		X					
69	Jun-97		X					
70	Aug-97		X	X			X	
71	Dec-97		X					
72	Feb-98		X					
73	Jun-98		X					
74	Jul-98		X	X			X	
75	Nov-98		X					
76	Feb-99		X	X			X	
77	May-99	X	X	X			X	X
78	Jul-99	X	X	X			X	X
79	Nov-99	X	X	X			X	X
80	Feb-00	X	X	X			X	X
81	May-00	X	X	X			X	X
82	Jul-00	X	X	X			X	X
83	Dec-00	X	X				X	X
84	Feb-01	X	X				X	X
85	May-01	X	X	X			X	X
86	Jul-01	X	X	X			X	X
87	Nov-01	X	X	X			X	X
88	Feb-02	X	X	X			X	X
89	Apr-02	X	X	X			X	X

Subtidal Random Point Contact Completion Table.

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(Continued)

Subtidal Random Point Contact Completion Table (Continued).

[illegible]

1

(Continued)

Subtidal Arc Quadrant Completion Table (Continued).

[illegible]

2

(Continued)

(Continued)

[illegible]

Subtidal Fish Observation Completion Table

Area	New Station Name	Previous Station Name	Level	Survey Date												Replicate
				1	2	3	1	2	3	1	2	3	1	2	3	
North Central	NC FO-1		Midwater	X	X	X	X	X	X	X	X	X	X	X	X	1
			Benthic	X	X	X	X	X	X	X	X	X	X	X	X	2
			Midwater	X	X	X	X	X	X	X	X	X	X	X	X	3
			Benthic	X	X	X	X	X	X	X	X	X	X	X	X	4
North Central	NC FO-2		Midwater	X	X	X	X	X	X	X	X	X	X	X	X	5
			Benthic	X	X	X	X	X	X	X	X	X	X	X	X	6
			Midwater	X	X	X	X	X	X	X	X	X	X	X	X	7
			Benthic	X	X	X	X	X	X	X	X	X	X	X	X	8
North Central	NC FO-3		Midwater	X	X	X	X	X	X	X	X	X	X	X	X	9
			Benthic	X	X	X	X	X	X	X	X	X	X	X	X	10
			Midwater	X	X	X	X	X	X	X	X	X	X	X	X	11
			Benthic	X	X	X	X	X	X	X	X	X	X	X	X	12
North Central	NC FO-4		Midwater	X	X	X	X	X	X	X	X	X	X	X	X	13
			Benthic	X	X	X	X	X	X	X	X	X	X	X	X	14
			Midwater	X	X	X	X	X	X	X	X	X	X	X	X	15
			Benthic	X	X	X	X	X	X	X	X	X	X	X	X	16
South Central	SC FO-1		Midwater	X	X	X	X	X	X	X	X	X	X	X	X	17
			Benthic	X	X	X	X	X	X	X	X	X	X	X	X	18
			Midwater	X	X	X	X	X	X	X	X	X	X	X	X	19
			Benthic	X	X	X	X	X	X	X	X	X	X	X	X	20
South Central	SC FO-2		Midwater	X	X	X	X	X	X	X	X	X	X	X	X	21
			Benthic	X	X	X	X	X	X	X	X	X	X	X	X	22
			Midwater	X	X	X	X	X	X	X	X	X	X	X	X	23
			Benthic	X	X	X	X	X	X	X	X	X	X	X	X	24
South Central	SC FO-3		Midwater	X	X	X	X	X	X	X	X	X	X	X	X	25
			Benthic	X	X	X	X	X	X	X	X	X	X	X	X	26
			Midwater	X	X	X	X	X	X	X	X	X	X	X	X	27
			Benthic	X	X	X	X	X	X	X	X	X	X	X	X	28
South Central	SC FO-4		Midwater	X	X	X	X	X	X	X	X	X	X	X	X	29
			Benthic	X	X	X	X	X	X	X	X	X	X	X	X	30
			Midwater	X	X	X	X	X	X	X	X	X	X	X	X	31
			Benthic	X	X	X	X	X	X	X	X	X	X	X	X	32
Field's Cove	FC FO-1		Midwater	X	X	X	X	X	X	X	X	X	X	X	X	33
			Benthic	X	X	X	X	X	X	X	X	X	X	X	X	34
			Midwater	X	X	X	X	X	X	X	X	X	X	X	X	35
			Benthic	X	X	X	X	X	X	X	X	X	X	X	X	36
Field's Cove	FC FO-2		Midwater	X	X	X	X	X	X	X	X	X	X	X	X	37
			Benthic	X	X	X	X	X	X	X	X	X	X	X	X	38
			Midwater	X	X	X	X	X	X	X	X	X	X	X	X	39
			Benthic	X	X	X	X	X	X	X	X	X	X	X	X	40
Field's Cove	FC FO-3		Midwater	X	X	X	X	X	X	X	X	X	X	X	X	41
			Benthic	X	X	X	X	X	X	X	X	X	X	X	X	42
			Midwater	X	X	X	X	X	X	X	X	X	X	X	X	43
			Benthic	X	X	X	X	X	X	X	X	X	X	X	X	44

(Continued)

Subtidal Fish Observation Completion Table (Continued).

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(Continued)

Subtidal Fish Observation Completion Table (Continued)

Subtidal Fish Observation Completion Table (Continued)																																	
Area		North Control						North Diablo Cove						South Diablo Cove						South Control						Field's Cove							
New Station Name		NC FO-1	NC FO-2	NC FO-3	NDC FO-1	NDC FO-2	NDC FO-3	NDC FO-4	SDC FO-1	SDC FO-2	SDC FO-3	SDC FO-4	SC FO-1	SC FO-2	SC FO-3	FC FO-1	FC FO-2	FC FO-3															
Previous Station Name		1	2	3	5	6	7	4	8	9	10	11 15	13	12	14																		
Level		Midwater	Benthic	Midwater	Benthic	Midwater	Benthic	Midwater	Benthic	Midwater	Benthic	Midwater	Benthic	Midwater	Benthic	Midwater	Benthic	Midwater	Benthic	Midwater	Benthic	Midwater	Benthic	Midwater	Benthic	Midwater	Benthic	Midwater	Benthic	Midwater	Benthic	Midwater	Benthic
Replicate		1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
Survey Date																																	
108	Oct-00							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
109	Dec-00							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
110	Apr-01							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
111	Jul-01							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
112	Oct-01							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
113	Dec-01							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
114	Mar-02							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
115	Jun-02							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

APPENDIX B

Temperature Data Summaries



**Intertidal Monthly Mean Temperatures
Station NC 2+.6m**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1976	15.25										15.55	15.38
1977	14.18		10.59				13.05	14.56	15.28	13.70		
1978	14.41	14.12		12.22	11.02	11.51		13.53	13.65	13.72	13.65	12.27
1979	12.22	11.92	11.47	11.95	12.03	13.14	12.90	13.70	14.23	13.85	12.90	12.98
1980	13.74											
1981												
1982												
1983												
1984												
1985						13.39	14.01	14.36	14.37	14.49		12.99
1986	13.30	13.09	12.72	11.88	11.50	12.93	13.93	13.74	13.94	14.23	14.12	14.84
1987			11.56	11.73	13.07	12.67	13.66	14.51	14.78	15.85	14.22	12.90
1988	12.17	12.55	12.10	12.59	11.21	11.97	14.33	14.89	13.73	13.99	12.36	11.98
1989	11.01	11.24	11.17	12.28	11.48	13.12	13.48	12.71	14.24	14.29	14.14	14.16
1990	12.96	11.14	10.96	12.41	12.24	12.43	14.69	15.71				12.60
1991	12.76	12.71	11.93	10.74		12.65	14.53	14.65	14.71	14.46	13.14	13.19
1992	13.35	14.38	14.68	11.97	13.81	13.87	14.01	14.81	14.93	15.48	15.29	14.06
1993	12.77		12.99	10.88	12.47	12.87	14.84	15.02	14.13	14.11		13.81
1994	13.63	13.26	12.69	11.33	11.58	11.93	13.46	14.03	14.36	14.27	12.55	12.63
1995	13.46	13.62	13.76	11.38	12.67		13.55	14.14	13.49	14.57	14.68	13.66
1996	12.67	12.82	12.62	11.42	11.91	12.19	13.25	13.73	14.55	13.76	12.99	12.91
1997	13.18	11.62	11.58	11.47	12.64	13.13	14.32	16.29	16.45	16.37	17.30	16.52
1998	15.49											
1999			10.73	10.89	10.99	12.17	14.48	13.71	14.12	13.66	13.37	11.77
2000	12.23	13.19	11.09	11.30	11.04	13.87	13.94	14.15	15.24	14.28	12.44	12.80
2001	12.71	11.83	12.16	10.80	12.79	13.91	13.88	13.77	14.26	14.10	14.06	11.77
2002	11.93	11.97	11.87	11.79	11.45	12.47	12.65					

**Intertidal Monthly Mean Temperatures
Station FC 1+.6m**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1976						14.19						
1977	14.25	13.03	10.35	11.10	11.47	11.47						
1978												
1979												
1980												
1981												
1982												
1983												
1984												
1985												
1986												
1987												
1988												
1989												
1990												
1991												
1992												
1993												
1994												
1995												
1996												
1997												
1998												11.90
1999	13.11	11.68	10.82	11.05	11.31	12.67	15.80	15.45	15.78	14.46	14.44	12.74
2000	13.63	13.86	11.66	12.10	11.51	15.09	15.27	15.82	16.52	15.16	13.10	13.66
2001	13.30	12.68	12.78	11.34	13.20	14.90	15.37	15.08	15.67	15.60	14.91	12.50
2002	12.84	13.00	12.82	12.57	11.64	13.41	13.75					

Intertidal Monthly Mean Temperatures Station FC 2+.6m

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1976	15.37								14.96	16.30	15.41	15.51
1977	14.37	13.14	10.48	10.12								
1978												
1979												
1980												
1981												
1982												
1983												
1984												
1985												
1986												
1987												
1988												
1989												
1990												
1991												
1992												
1993												
1994												
1995												
1996												
1997												
1998												11.88
1999	13.11	11.67	10.80	11.11	11.28	12.64	15.69	15.30	15.77	14.41	14.47	12.74
2000	13.66	13.87	11.61	12.03	11.45	15.01	15.08	15.71	16.45	15.13	13.16	13.69
2001	13.37	12.69	12.80	11.37	13.18					15.61	14.92	12.52
2002	12.91	13.00	12.75	12.49	11.56	13.32	13.73					

**Intertidal Monthly Mean Temperatures
Station FC 3+.6m**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1976	15.04					14.73	13.42	14.89	14.64	16.24	15.84	15.49
1977	14.31	13.81			11.25	12.00	12.60	14.34	15.08	13.62	13.41	13.33
1978			13.58	12.16	10.76	11.33	12.01	13.64	13.37	13.66		12.38
1979	12.59	11.94	11.48	10.94	11.60	12.92	12.73	13.59	14.03	13.61	12.75	12.83
1980	13.53											
1981												
1982												
1983			13.48	12.18	12.46	13.15	15.06	16.58		16.51	15.51	13.53
1984	13.46	12.72	12.08	10.74	11.21	12.69	15.22	15.70	16.42	13.67	13.64	13.08
1985	12.91	12.11	11.13	11.07	11.79	13.66	14.69	15.05	14.98	15.72		13.82
1986	13.85	13.38	13.39	12.63	12.26	13.73	15.01	15.42	15.22	15.19	15.01	15.48
1987	13.60	13.19	12.54	12.02	13.25	13.21	14.60	16.30	16.40	17.18	15.08	13.63
1988	12.93	13.55	12.26	12.80	11.25	12.14	14.90	15.95	14.75	14.62	12.71	12.97
1989	12.35	12.62	12.17	12.92	12.16	14.06	14.47	15.51	15.09	14.86	14.67	15.18
1990	13.90	11.91	11.46	12.65	12.90	12.71	15.76	16.71	15.74	16.03	15.08	13.88
1991	13.85	13.09	12.23	11.44	11.24	13.24	15.69	15.76	15.21	15.01	13.95	14.11
1992	14.10	15.18	15.48	13.59	14.43	14.26	14.57	15.89	15.60	15.94	15.83	14.94
1993	14.55	14.82	13.24	10.87	12.97	13.41	15.75	16.06	15.35	16.11	16.24	14.48
1994	14.71	14.34	13.08	11.20	11.66	12.41		15.24	15.27	14.74	13.52	13.23
1995	14.00	14.64	14.41	11.85	12.29	12.89	14.96	14.94	14.14	15.01	15.25	14.14
1996	13.57	13.56	13.19	11.49	12.16	12.92	14.26	14.49	15.52	14.74	14.07	13.61
1997			13.19	11.54	12.80	13.52	15.32	17.40	17.34	17.13	17.96	16.96
1998	16.04	14.87	13.59	12.85	13.36	14.06	16.26	17.57	17.14	15.09	13.28	12.00
1999	13.10	11.66	10.79	11.06	11.21	12.57	15.56	15.28	15.73	14.39	14.53	12.84
2000	13.70	13.86	11.60	11.98	11.37	14.88	14.90	15.59	16.37	15.11	13.19	13.71
2001	13.40	12.71	12.75	11.25	13.09	14.63	15.13	14.89	15.56	15.57	14.92	12.48
2002	12.86	12.96	12.69	12.40	11.48	13.02	13.68					

**Intertidal Monthly Mean Temperatures
Station NDC 1+.6m**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1976	15.22					14.55	12.61		14.99	16.32		15.23
1977	14.37	13.35										
1978												
1979												
1980												
1981												
1982												
1983												
1984												
1985				11.04	12.92	15.44	16.37	16.87	17.17	16.73	15.67	15.79
1986	15.84	14.27	15.52	15.05	14.73	15.68	17.05	16.86	16.85	17.68	16.56	16.44
1987				14.74	15.07	15.05	16.26	18.65	18.55	20.09	17.58	15.28
1988	15.43	16.20										
1989												
1990	16.27	14.13	13.83	14.48	14.90	14.27	17.76	18.55	17.69	18.46	17.51	16.21
1991	16.54	15.06	13.77	12.61	12.48	15.39	18.03	17.54	17.97	17.64	16.28	16.62
1992	16.05	17.95	17.71	15.49	16.30	15.94	16.60	18.37	17.74	18.69	17.55	17.01
1993	17.11	17.21	14.71	11.73	11.85		19.39	18.66	18.10	19.17	19.17	16.37
1994	17.19	17.03	15.32	12.38	12.38	14.99	18.14	18.77	18.64	17.24	16.38	14.97
1995	15.41	17.23	16.55	13.83	14.46	14.87	17.40					
1996												
1997												
1998												
1999						18.25	19.60	18.98	19.54	17.88	17.20	15.17
2000	16.77	15.77	13.27	14.63	13.65	17.84	18.06	19.30	20.09	17.74	14.59	16.17
2001	15.01	15.04	15.23	13.79	15.88	17.37	18.47	18.36	19.01	18.70	17.33	14.43
2002	14.83	15.64	15.31	15.41		16.68	18.37					

**Intertidal Monthly Mean Temperatures
Station NDC 2+.6m**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1976							14.23	14.93	15.07			
1977	14.30	13.08	10.39	10.95	11.29	12.09	12.72	14.25	15.31	13.47	13.72	13.05
1978			13.64	12.32	10.80	11.30	11.85	13.78	13.27			
1979	12.57	12.01	10.99	11.31	11.62	12.74	12.78	13.36	14.04	13.75	12.68	12.80
1980	13.93											
1981	14.23	12.76	12.65	10.95	11.33	14.13	14.14	13.66	12.81			12.28
1982	11.66	12.13	12.32	11.42	12.07	12.24	12.59	13.47	15.16	14.57	15.42	13.73
1983	14.37	14.58	13.87	11.36	12.68	13.32	15.02	16.64	17.40	16.68	15.48	13.47
1984	13.22	12.66	11.99	10.67	11.12	12.68					13.97	13.62
1985	12.97	12.71	12.55	11.14	13.30	15.90	16.73	16.75	17.54	16.97	15.60	15.79
1986	15.96	14.33	15.67	15.28	14.92	15.89	17.27	17.10	16.76	17.81	16.61	16.32
1987	14.62	15.14	14.67	14.07	15.23	15.50	16.47	18.85	18.69	20.23	17.63	15.13
1988	15.27	15.98										
1989												
1990	15.55	14.00	14.29	14.67	15.14	14.39	17.88	18.59	17.70	18.65	17.53	16.10
1991	16.56	15.20	13.95	12.78	12.69	15.66	18.26	17.66	18.09	17.67	16.36	16.47
1992	15.18	17.98	17.78			15.76	16.54	18.19	17.66	18.79	17.49	17.00
1993	17.24	17.30	15.00	11.99	15.37	15.63	19.01	18.88	18.30	19.32	19.19	16.34
1994	17.16	17.24	15.61	12.78	12.91	15.21	18.47	19.08	18.94	17.63	16.60	15.14
1995	15.57	17.45	16.72	14.13	14.88	15.15	17.23	18.58	17.31	17.82	17.44	15.60
1996	16.03	15.79	15.36	13.19	13.94	15.45	17.43	16.87	18.96	17.40	16.46	16.20
1997	16.48	14.29	15.06	13.86	15.81	16.42	18.74	20.31	19.56	19.25	19.95	19.02
1998	17.36	15.39	15.15	14.96	15.57	16.33	18.07	19.72	19.98	17.76	15.42	13.41
1999	15.54	12.80	11.79	14.86	15.82	17.86	20.12	19.14	19.91	18.20	17.51	15.29
2000	16.88	15.78	13.28	15.02	14.24	18.23	18.18	19.57	20.27	18.23		
2001		15.35	15.39	14.17	16.05	17.20	18.71	18.51	19.28	18.90	17.44	14.54
2002	15.18	15.58		16.37	14.19	16.04	18.61					

Intertidal Monthly Mean Temperatures

Station NDC 3+.6m

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1976						14.05	13.55	14.46	15.27	16.52	16.00	15.52
1977	14.36	13.99				12.39						
1978				11.34	10.77	11.24	11.45	12.99	13.34	13.65	13.75	11.67
1979		12.15	11.49	10.96	11.59	12.82	12.50					
1980	13.77											
1981	14.20	12.77	12.99	10.96	11.65	11.31				12.94	13.38	12.38
1982	11.71		11.71	11.54	11.76	11.84	12.53	13.32	15.05	14.53	15.47	13.69
1983	14.41	14.59	13.78	11.39				16.53	17.31	18.06		
1984	13.22	12.91				12.80	15.12	15.62	16.20	13.68	13.71	13.69
1985	13.03	12.83	12.79	11.28	13.56	16.17	16.76	16.68	17.41	16.97	15.91	15.98
1986	16.22	13.50		15.50	15.13	16.02	17.26	17.02	16.77	17.96	16.75	16.36
1987	14.81	15.33	14.92	14.28	15.48	15.45	16.24	18.75	18.70	20.24	17.83	15.25
1988	15.38	16.49	14.65	15.46	13.60	13.34	16.18	18.14	16.54	16.99	15.23	15.98
1989	15.97	15.98	14.89	15.97	14.53	16.11	16.28	17.89	17.54	17.27	16.88	16.98
1990	16.44	14.48	14.48	14.89	15.23	14.40	17.83	18.49	17.26	18.65	17.65	16.31
1991	16.70	15.49	14.31	13.01	12.87	15.63	18.18	17.60	18.21	17.79	16.48	16.75
1992	16.28	18.25	17.99	15.80	16.56	16.10	16.65	18.27	17.78	18.99	17.67	17.13
1993	17.47	17.57	15.04	12.11	15.59	15.66	19.11	18.86	18.17	20.11	19.35	16.47
1994	17.33	17.43	15.91	12.90	12.86	15.23	18.33	18.95	18.91	17.57	16.63	15.14
1995	15.67	17.44	16.85	14.77	15.93	16.10	17.25	18.44	17.24	17.81	17.43	15.69
1996	16.24	15.94	15.66	13.56	13.99	15.38	17.31	16.77	18.86	17.48	16.53	16.37
1997	16.74	14.55	15.27	14.02	15.88	16.45	18.70	20.25	19.49	19.26	20.10	19.09
1998	17.47	15.55	15.37	15.13	15.74	16.30	18.00	19.89	20.20	17.83	15.74	13.41
1999	15.73	13.39	12.02	15.04	15.70	17.53	20.03	19.08	20.05	18.41	17.51	15.41
2000	17.03	16.00	13.51	15.13	14.22	18.08	18.11	19.42	20.22	18.26	14.76	16.41
2001	15.24	15.39	15.62	14.48	16.14	17.40	18.66	18.52	19.24	18.96	17.67	14.76
2002	15.31	16.03	15.68	15.87	14.40	16.16	18.55					

**Intertidal Monthly Mean Temperatures
Station SDC 1+.6m**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1976	15.06					16.06	14.31	15.63	15.47	16.49	15.81	15.35
1977	14.24	13.62	10.41	11.29	11.70	12.00						
1978												
1979												
1980												
1981												
1982												
1983												
1984	13.47			10.70	11.57	12.64					13.70	13.14
1985	13.01	12.79	13.51	11.56	14.17	16.19	15.91	14.92	16.61	15.04	14.30	14.66
1986	15.61	15.20	15.77	14.27	14.05	15.14	16.23	16.53	16.32	17.22	16.85	17.43
1987	16.51	15.92	14.92	15.21	16.38	14.72	13.80	17.07	17.03	18.03	17.13	16.79
1988	15.97	16.20	15.54	15.84	15.39	15.21	16.00	16.12	15.47	16.34	14.78	14.13
1989	14.34	14.59	14.62	14.11	14.59	15.59	15.50	16.18	15.79	16.26	16.28	17.44
1990	17.01	15.60	15.42	14.99	14.46	15.25	16.68	17.43	16.57	17.36	16.70	15.94
1991	16.10	16.37	16.20	15.24	14.67	15.05	16.47	16.53	17.32	16.32	16.63	16.79
1992	17.95	18.35	17.99	16.30	16.35	15.78	16.36	17.21	17.25	18.36	18.59	18.20
1993	17.58	18.76	17.40	14.64	15.34	16.16	18.32	17.86	17.28	18.34	18.60	18.58
1994	17.76	17.54	16.31	14.03	14.97	16.67	18.25	18.88	18.38	17.53	16.87	15.97
1995	19.12	17.66	18.42	15.34	15.29	16.23	16.63	17.08	16.76	17.87	18.28	17.88
1996	17.38	18.04	16.94	15.96	14.50	15.56	16.77	16.18	17.82	17.21	16.74	17.10
1997	18.29	17.10	16.04	15.24	17.84	17.77	18.30	20.01	19.46	19.43	21.07	20.23
1998	21.34	21.02	16.74	16.44	16.58	16.76	18.13	19.76	19.79	18.28	17.93	16.35
1999	17.62	16.73	16.35	16.01	17.28	18.27	19.44	18.57	19.25	17.73	17.40	17.12
2000	16.68	19.11	17.07	15.39	15.42	17.47	17.42	18.23	18.25	18.11	17.35	17.92
2001	18.54	16.49	17.01	14.89	15.79	17.04	17.37	17.78	18.36	18.10	18.87	17.08
2002	17.23	16.43	15.93	15.52	16.23	17.11	16.79					

**Intertidal Monthly Mean Temperatures
Station SDC 2+.6m**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Déc
1976	15.07					16.64	15.10	16.13	15.74	16.85	15.90	15.14
1977	14.00	13.06	10.54	11.47	12.38	12.71	14.74	16.19	16.12	13.92	13.21	13.08
1978			13.65	12.66	12.02	13.04	13.99	15.15	14.18	13.94	13.67	
1979	12.17	11.85	11.02									
1980	13.75											13.77
1981	13.81				13.33	14.41	15.70					
1982				12.31	12.71	13.13						
1983	14.83	14.60	13.62	11.45				17.57	17.79	18.16		
1984	13.14	12.68		10.83	11.72	12.95	16.11	16.06	16.53	13.83	13.70	13.13
1985	12.94	12.80		11.67	14.40	16.38	16.17	15.19	16.73	14.96	14.16	14.31
1986	15.07	14.46	14.89	14.11	14.04	15.45	16.55	17.00	16.58	16.46	16.68	16.85
1987	15.33	15.12	14.41	14.80	16.52	14.92	15.20	17.05	17.12	17.96	16.71	15.48
1988	14.79	14.67										
1989												
1990	15.59	14.31	14.78	14.85	14.44	15.26	17.19	17.78	16.77	17.30	16.57	15.71
1991	15.51	15.74	15.19	14.40	14.57	15.12	16.68	16.90	17.32	16.32	16.12	15.23
1992	16.76		17.49	18.83		16.06	16.86	17.46	17.40	18.23	18.26	17.32
1993	16.87	17.30	16.34	13.95	15.20	16.36	18.45	18.06	17.36	18.22	18.43	17.12
1994	17.00	16.79	15.95	13.74	14.80	16.54	18.64	19.11	18.55	17.42	16.25	15.07
1995	16.20	16.78	16.99	14.80	15.24	16.13	17.39					
1996												
1997												
1998												
1999						17.85	19.42	18.64	19.10	17.43	16.68	15.73
2000	16.04	16.43	15.10	15.09	15.40	17.61	17.57	18.39	18.30	17.72	16.32	16.43
2001	16.06	15.29	16.04	14.65	15.77	17.11	17.36	16.97	17.61	17.42	17.66	15.35
2002	15.84	15.51	15.46	15.46	16.21	17.09	16.61					

**Intertidal Monthly Mean Temperatures
Station SDC 3+.6m**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1976	15.08					15.36	13.29		15.13	16.40	15.31	15.48
1977	14.35	13.05	10.45	11.04	11.48	12.49	13.24	14.50	15.46	13.66	13.47	13.40
1978			13.53	12.24	10.83	11.80	12.70	13.86	13.45	13.60	13.71	12.48
1979	12.36	11.85	10.74									
1980	13.73											
1981		12.33	12.61			14.21	14.70	14.07	13.67	13.13	13.36	12.35
1982	11.73	12.21	11.89	11.61	11.92	12.51	12.90	13.70	15.12	14.58	15.53	13.74
1983	14.42	14.72	13.90	12.26	12.52	13.36	15.39	16.68	17.34	16.65	15.56	13.44
1984	13.29	12.85	12.13	10.95	11.38	12.64	15.12	15.53	16.28	13.69	13.70	13.39
1985	12.90	12.59	12.73	11.10	13.06	15.30	15.46	14.75	16.13	14.67	13.86	14.12
1986	14.85	14.31	14.37	13.41	13.05	14.18	15.64	16.04	16.26	16.82	16.41	16.81
1987	15.07	14.83	13.79	14.18	15.76	14.12	14.29	16.05	16.52	17.43	16.48	15.12
1988	14.40	15.01	14.47	14.90	13.79	13.90	15.56	15.60	15.08	16.09	14.14	13.74
1989	13.36	13.59	13.37	13.35	13.52	14.64	15.09	15.57	15.24		16.63	16.44
1990	15.62	13.57	13.80	14.32	13.42	14.14	16.20	17.02	16.22	16.83	16.09	15.36
1991	15.15	15.08	14.23	13.47	13.29	14.13	16.05	16.32	17.19	16.36	15.87	15.77
1992	16.13	17.00	17.15	15.51	15.83	15.31	15.85	16.90	17.00	18.03	18.10	17.17
1993	16.61	16.80	15.75	13.24	14.60	15.33	17.59	17.26	16.78	17.75	18.13	16.90
1994	16.68	16.21	15.09	12.96	13.45	15.20	17.64	18.25	17.76	16.99	15.70	14.87
1995	15.50	16.18	15.96	13.81	13.97	14.83	16.00	16.45	16.09	17.39	17.44	15.96
1996	15.80	15.74	15.69				16.00	15.64	17.13	16.41	15.81	15.94
1997	16.19	15.08	14.78	14.29	17.05	19.78	17.98	19.55	19.13	19.18	20.21	19.35
1998	18.14	16.25	15.76	15.18	15.44	15.86	17.53	19.34	19.66			15.11
1999	15.68	13.78	13.54	14.57	15.97	17.14	18.41	17.72	18.27	16.79	16.03	15.08
2000	15.32	15.57	14.42	13.91	13.83	16.50	16.51	17.45	17.56	17.05	15.64	15.89
2001	15.46	14.59	15.28	13.56	14.98	16.15	16.63	17.04	17.65	17.37	17.20	14.77
2002	15.35	14.90	14.67	14.56	14.85	15.82	16.05					

**Intertidal Monthly Mean Temperatures
Station SC 1+.6m**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1976						13.86	12.96	14.27	14.84	16.43	16.02	
1977	14.44	13.43	10.30	10.82	10.85	11.71	12.06	14.05	15.93	13.67	13.49	13.36
1978			13.65	13.67								
1979	12.33	11.96	11.44	10.47	12.01	12.41	12.19	13.05	13.85	13.47	12.97	13.40
1980	13.77											
1981	14.24	12.83	13.32	10.88	11.34	12.62	13.99			12.97	13.35	
1982			11.89	11.17	11.31	11.32	12.11	12.95	15.00	14.80	15.58	13.73
1983	14.45	14.58	13.90	11.19		13.54	14.79	16.42	17.17	16.76	15.63	13.51
1984	13.36	12.80	11.97	10.56	10.80	12.41	14.93	15.36	16.24	13.69	13.63	12.85
1985	12.88	11.97		10.94	10.64	12.56	13.17	13.78	13.94	13.19	12.79	12.88
1986	13.26	13.11	12.54	11.46	10.89	11.82	13.47	13.05	13.57	14.09	14.18	14.97
1987	13.09	12.51	11.79	11.50	12.56	12.02	12.89	13.91	14.50	15.50	14.22	13.00
1988	12.19	12.54	11.81	12.20	10.45	11.18	13.98	14.21	13.43	13.79	12.25	12.03
1989	11.06	11.09	10.84	11.67	10.79	11.94	13.04	13.71	13.32	14.04	14.08	14.33
1990	13.03	11.02	10.70	11.79	11.50	11.48	13.62	14.82	14.06	14.86	13.88	12.80
1991	12.62	12.63	11.88	10.59	10.09	11.66	13.84	13.97	14.53	14.38	13.12	13.22
1992	13.39	14.23	14.68	12.72	13.11	12.55	12.87	14.32	14.58	15.32	15.29	14.17
1993	13.58	13.98	12.90	10.52	12.04	12.36	14.68	14.45	13.88	14.80	15.22	13.92
1994	13.71	13.18	12.32	10.59	10.95	11.63	12.85	13.46	13.99	14.11	12.57	12.65
1995	13.35	13.47	13.58	10.86	10.94	11.65	13.18	13.85	13.23	14.45	14.63	13.58
1996	12.56	12.67	12.23	10.97	11.36	11.93	12.94	13.32	14.38	13.67	13.05	12.88
1997	13.18	11.64	11.57	10.89	11.93	12.70	13.98	15.86	16.22	16.40	17.35	16.16
1998	15.51	14.79	13.26	12.01	12.37	12.67	14.54	16.07	15.91	13.97	12.63	11.61
1999	12.37	11.50	10.59	10.40	10.53	11.60	13.62	13.03	13.92	13.44	13.26	11.77
2000	12.24	13.09	11.08	10.82	10.45	13.30	13.03	13.58	14.73	14.17	12.48	12.79
2001	12.74	11.69	11.82	10.35	12.33	13.24	13.11	13.13	14.03	14.05	14.21	11.78
2002	12.06	11.90	11.60	11.31	10.63	12.03	13.10					

**Intertidal Monthly Mean Temperatures
Station SC -1V**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1976												
1977												
1978												
1979												
1980												
1981												
1982												
1983												
1984												
1985												
1986												
1987												
1988												
1989												
1990												
1991												
1992												
1993												
1994												
1995												
1996												
1997												
1998												
1999							15.86	15.72	15.02	14.51	13.59	11.81
2000	12.31	13.17	11.70	12.20	12.18	15.14	15.59	15.62	16.21	14.75	12.62	12.83
2001	12.61	11.74	12.49	11.36	13.87	15.68	14.96	14.81	15.32	14.69	14.36	11.73
2002	11.84	12.11	12.06	12.43	12.49	14.02	14.00					

**Intertidal Monthly Mean Temperatures
Station SDP 2+.6m**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1976												
1977												
1978												
1979												
1980	14.07											13.87
1981	14.07	12.78	12.52	10.74	11.27	12.24	13.40	12.99	13.03	12.90	13.32	12.62
1982												
1983				12.91	11.99	12.95	14.38	16.03				13.54
1984	13.43	12.79	11.96	10.49	10.86	12.09	14.57	15.07	16.08	13.63	13.66	13.20
1985	13.01	12.45	11.84	10.81	11.85	13.40	13.69	13.85	14.27	14.29	13.74	13.78
1986	14.27	13.81	13.97	13.12	12.49	13.18	14.23	13.95	14.65	15.23	15.54	16.18
1987	14.53	14.19	13.19	12.48	13.34	12.59	13.49	14.29	16.05	16.88	15.81	14.55
1988	13.82	14.37	13.33	13.46	12.04	12.41	14.35	15.00	14.28	15.12	13.40	13.49
1989	13.22	13.19	12.88	12.74	12.81	13.85	14.17	14.60	14.91	15.08	15.18	15.98
1990	15.45		12.32	12.99	12.90	13.32	14.86	15.91	15.53	16.50	16.10	15.24
1991	14.67	13.86	13.13	12.60	12.44	13.26	15.27	15.54	15.58	15.33	15.12	15.26
1992	15.27	15.91	16.33	14.88	14.80	14.30	14.63	15.87	16.10	16.54	17.43	16.51
1993	15.69	15.62	13.98	11.97	13.77	14.03	16.26	16.16	15.28	16.82	17.57	15.89
1994	16.00	15.10	13.91	11.75	12.68	13.54	14.92	15.29	15.81	15.50	15.03	14.25
1995	14.75	15.25	15.11	13.12	12.95	13.60	14.94	15.78	15.07	15.90	16.43	15.37
1996	15.12	14.65	14.40	12.52	12.48	13.69	14.20	14.61	16.34	15.71	15.37	15.17
1997	15.18	14.05	13.89	12.91	13.73	14.95	15.84	17.10	17.95	18.30	19.38	18.13
1998	17.09	15.64	14.43	14.21	13.95	14.06	16.12	17.36	17.70	16.04	14.82	13.45
1999	14.74	12.77	12.24	12.94	13.52	15.16	15.67	16.69	15.93	14.62	15.20	14.06
2000	14.67	14.73	13.27	13.30	12.32	15.01	15.18	15.69	16.38	15.65	14.46	14.98
2001	14.56	13.85	14.01	12.89	13.11	15.26	14.93	15.73	15.61	16.19	16.14	13.92
2002	14.24	14.09	14.00	13.47	12.46	14.16	14.75					

**Subtidal Monthly Mean Temperatures
Station FC 1 -3m**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1976												
1977												
1978												
1979												
1980												
1981												
1982												
1983												
1984												
1985												
1986												
1987												
1988	12.46		12.08	12.94	11.08	11.77	14.26	15.26	14.49	14.58	12.74	13.25
1989	12.48	12.87	12.29	12.85	12.10	13.58	13.73	14.97	14.65	14.81	14.87	15.40
1990	14.07	12.08	11.41	12.53	12.75	12.20	14.75	16.00	15.24	15.87	15.25	14.28
1991	14.04	13.14	12.21	11.36	11.21	12.88	15.01	14.82	15.09	15.09	14.09	14.39
1992	14.16	15.29	15.59	13.71	14.19	13.56	13.75	15.31	15.16	16.01	16.05	15.22
1993	14.75	14.93	13.35	10.89	12.91	13.18	15.49	15.57	15.12	16.20	16.48	14.59
1994	14.83	14.45	13.09	11.14	11.57	12.15	13.77	14.48	14.90	14.60	13.67	13.36
1995	13.99	14.69	14.46	11.81	12.21	12.43	13.73	14.19	13.76	14.95	15.31	14.20
1996	13.59	13.58	13.37	11.44	11.91	12.58	13.70	13.87	15.38	14.76	14.15	13.91
1997	14.09	12.24	12.39	11.50	12.47	13.09	14.67	17.06				
1998						12.83	15.49	17.16	16.93	15.07	13.32	12.20
1999	13.17	11.70	10.33	11.17	11.14	12.24	14.85	14.19	15.36	14.22	14.40	12.85
2000	13.72	13.97	11.63	12.07	11.14	14.25	14.16	14.87	16.00	14.96	13.10	13.84
2001	13.44	12.79	12.78	11.36	12.72	14.01	14.39	14.33	15.29	15.50	15.00	12.55
2002	13.01	13.07	12.68	12.27	11.16	12.48	14.93	14.81				

**Subtidal Monthly Mean Temperatures
Station NDC 1 -3m**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1976	15.27						13.61	14.16	14.73	16.57	16.08	15.56
1977	14.36	13.20	10.64									
1978	14.88											
1979												
1980												
1981												
1982												
1983												
1984												
1985												
1986												
1987												
1988	12.11	12.65	12.16	12.56	10.91	11.44	13.77	14.42	13.40	14.06	12.26	12.10
1989	11.15	11.40	10.99	12.43	11.14	12.64	12.64	13.92	13.57	14.23	14.32	14.36
1990	13.04	11.16	10.88	12.22	11.85	11.72	13.89	14.96	14.01	14.82	13.92	12.91
1991	12.87	12.76	12.00	10.87	10.49	11.88	14.06	13.92	14.58	14.40	13.14	13.31
1992	13.37	14.39	14.74	12.96	13.47	13.21	13.16	14.32	14.50	15.48	15.24	14.27
1993	13.74	14.17	13.07	10.79	12.16	12.27	14.46	14.66	13.93	15.03	15.24	13.98
1994	13.76	13.31	12.53	10.97	11.11	11.19	12.86	13.54	14.01	14.14	12.68	12.72
1995	13.50	13.64	13.77	11.26	11.39	11.68	12.99	13.58	13.24	14.49	14.63	13.65
1996	12.66	12.80	12.64	11.35	11.66	11.84	12.76	13.24	14.42	13.75	13.09	13.01
1997	13.33	11.75	11.67	11.37	12.33	12.65	13.93	16.06	16.29	16.49	17.37	16.13
1998	15.54	14.77	13.29	12.07	12.51	13.07	14.33	15.84	15.90	14.02	12.74	11.66
1999								12.75	14.03	13.54	13.35	11.86
2000	12.34	13.26	11.10	11.26	10.67	13.32	13.21	13.62	14.90	14.11	12.41	12.94
2001	12.80	11.83	12.06	10.64	12.37	13.17	13.38	13.22	14.00	14.08	14.14	11.83
2002	12.07	12.04	11.80	11.66	11.04	11.82	13.79	13.76				

**Subtidal Monthly Mean Temperatures
Station NDC 2 -3m**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1976	15.24						13.09	14.41	14.31	16.44	15.80	15.19
1977	14.38	13.12	10.43	10.90	11.03	11.67	11.70					
1978			13.56	12.05	10.58	10.71	11.20	13.42	13.30	13.79		
1979	12.73	11.43	11.36	10.87	11.46	12.64	11.75		13.51			
1980	13.73											
1981					11.72	12.45	13.71	13.24	13.18	13.01	13.40	12.68
1982		12.25	11.94	11.52	11.61	11.61	12.02	12.83	14.97	14.50	15.60	13.82
1983				12.59	12.18	13.13	14.47		17.63	17.09	15.76	13.58
1984	13.60		12.10	10.54	11.01	12.24						
1985		14.70	13.06	11.07		16.72	16.51	16.56	17.08	17.06	15.96	16.23
1986	16.67	14.72	15.97	15.23	15.29	16.04	16.96	16.68	16.18	18.18	16.87	16.57
1987	14.97	15.59	15.19	14.71	15.71	15.61	16.19	18.66	18.74	20.49	18.23	15.63
1988	15.80	17.01										
1989												
1990												
1991												
1992												
1993												
1994												
1995												
1996												
1997												
1998												
1999							18.34	18.26	19.59	18.03	17.59	15.74
2000	17.22	16.49	13.85	15.44	14.09	17.66	17.71	18.73	19.61	18.15	14.64	16.85
2001	15.61	15.53	15.82	14.85	15.96	17.10	17.92	17.91	18.92	19.04	17.98	15.05
2002	15.66	16.27	17.09	15.33	14.38	15.86	18.34	17.55				

**Subtidal Monthly Mean Temperatures
Station NDC 3 -3m**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1976	15.26							15.68		16.58	15.87	15.55
1977	14.40	13.21	10.45	10.51	10.69	11.61	12.13	13.57	14.83	13.44	13.53	13.16
1978			13.56									
1979	12.81	11.40	11.37	10.81	11.23	12.45	12.05	12.75	13.63	13.67	12.53	13.00
1980	13.57											
1981	13.96	13.12	12.73	10.89	11.25	12.31	13.55	13.02	13.03	13.01	13.35	12.38
1982	11.68	12.10	11.85	11.44	11.38	11.51	11.84	12.67	14.62	14.39	15.45	13.65
1983	14.48	14.68		12.31	13.46	13.06	14.41	16.20	16.85	16.64	15.83	13.47
1984	13.22	12.72	12.09	10.59	10.86	12.28	14.64	15.23	15.84	13.65	13.74	13.96
1985	13.08	12.84	13.45	10.97	13.28	15.41	16.38	16.50	16.99	17.10	16.14	16.58
1986	17.49	15.53	16.41	16.00	15.54	16.22	17.09	16.81	16.55		16.80	16.88
1987	15.23	16.00	15.58	14.19	15.22	15.64	16.30	18.76	18.85	20.45	18.52	16.09
1988	16.23	17.39	15.47	16.25	14.31	13.31	15.96	18.21	16.49	16.89	16.03	16.95
1989	16.58	16.33	15.32	16.29	15.10	16.37	16.78	17.67	17.46	17.13	17.14	17.56
1990	17.32	14.98	15.01	15.22	15.53	14.64	17.82	18.52	17.61	18.92	18.00	16.89
1991	17.19	16.19	15.04	13.15	13.40	15.78	17.92	17.37	17.38	17.67	17.06	17.53
1992	17.12	18.76	18.66	16.48	16.83	16.14	16.53	17.83	17.48	18.93	18.17	17.92
1993	18.14	18.61	15.63	13.10	15.81	15.68	18.86	18.61	18.01	19.70	19.84	17.42
1994	17.98	18.04	16.21	13.09	12.73	15.24	17.38	17.97	18.04	17.38	17.13	15.75
1995	16.97	17.73	17.38	14.82	15.22	15.29	16.63	17.75	16.88	17.93	17.24	16.11
1996	16.73	16.78	16.25	14.49	14.27	15.44	17.03	16.14	18.84	17.89	16.97	17.23
1997	17.56	15.22	15.72	14.53	15.59	16.39	17.88	19.67	19.37	19.41	20.62	19.94
1998	18.51	16.59	15.82	15.51	16.05	16.39	17.55	19.41	19.81	17.95	16.17	13.74
1999	16.50	14.69	11.33				19.47	18.10	19.68	18.05	17.91	16.14
2000	17.40	17.15	14.39	15.60	14.28	17.73	17.58	18.52	19.33	18.32	14.91	17.28
2001	16.27	16.02	16.17	15.07	15.75	16.96	17.62	17.64	18.78	19.08	18.29	15.47
2002	16.08	16.47	15.74	15.72	14.25	15.82	18.07	17.21				

	Subtidal Monthly Mean Temperatures Station NDC 4 -4m											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1976												
1977												
1978												
1979												
1980												
1981												
1982												
1983												
1984												
1985												
1986												
1987												
1988												
1989												
1990	16.32	14.31	14.17	14.48	15.30	14.15	17.28	17.90	16.72	18.54	17.65	16.59
1991	16.86	15.33	14.18	12.94	13.04	15.43	17.20	16.66	16.20	16.85	16.40	17.08
1992	16.63	18.42	18.25		16.36	15.65	15.84	16.74	16.53	17.73	17.87	17.56
1993	17.66	17.98	14.81	12.29	15.42	15.30	18.43	18.11	17.33	19.08	19.44	16.86
1994	17.68	17.68	15.70	12.56	13.63	14.90	16.37	16.89	16.98	16.55	16.72	15.30
1995	16.07	17.43	16.91	14.37	14.79	14.83	16.10	17.07	16.17	17.15	16.78	15.85
1996	16.40	16.37	16.04	13.61	13.64	15.08	16.42	15.73	18.31	17.41	16.59	16.68
1997	16.93	14.76	15.30	13.90	14.55	15.79	16.99	18.98	18.91	19.16	20.31	19.57
1998	17.86	16.06	15.26	15.20	15.67	15.96	17.06	18.82	19.25	17.48	15.60	13.37
1999	15.71	13.10	11.70	13.78	15.05	16.97	18.58	17.26	18.75	16.78	17.33	15.66
2000	16.96	16.49	13.83	15.14	13.69	17.20	16.90	17.59	18.25	17.38	14.59	16.75
2001	15.68	15.47	15.73	14.45	14.59	16.09	16.51	16.67	17.77	18.23	17.85	15.02
2002	15.63	16.07	15.34	15.20	13.23	14.94	16.97	16.26	16.87			

**Subtidal Monthly Mean Temperatures
Station SDC 1 -3m**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1976							12.40					
1977	14.45	13.01	10.43	10.90	11.11	11.88	12.52	13.68	14.95	13.54	13.58	13.46
1978												
1979												
1980												
1981	14.13	12.86	12.89	10.94	11.73	12.68	13.78	13.31	13.11		13.46	12.48
1982	11.94	12.15	11.98	11.64	12.00	12.17	12.31	13.11	14.95	14.55	15.38	
1983				13.79	12.27	14.54	14.80	16.26	17.09	16.70	15.73	13.57
1984	13.44	12.91	12.57	10.63	11.07	12.70	14.50	15.06	15.51	13.51	13.81	13.49
1985	13.13	12.60	12.86	11.13	12.45	13.59	13.86	14.05	14.84	14.62	14.25	14.64
1986	15.33	14.64	14.90	13.95	13.41	13.90	14.79	14.82	14.38	16.47	16.32	17.33
1987	16.07	15.38	14.80	14.16	14.60	13.08	13.56	15.34	16.29	17.23	16.89	15.99
1988	15.32	15.92	14.95	14.42	13.50	13.61	14.46	14.99	14.45	16.74	15.32	14.57
1989	14.42	14.31	14.03	13.68	14.09	14.66	14.42	15.06	14.85	15.19	15.36	17.05
1990	16.52	14.55	14.12	13.79	13.57	13.88	14.91	16.09	15.60	17.01	16.35	15.87
1991	15.65	15.25	14.77	14.23	13.90	14.02	15.19	15.13	15.62	15.51	16.40	16.57
1992	17.02	17.71	16.74	15.53	15.46	14.64	14.71	15.63	15.86	17.08	18.22	17.86
1993	16.95	17.82	15.67	13.54	14.70	15.02	16.93	16.21	15.27	17.04	18.01	17.78
1994	17.34	16.90	15.32	12.85	14.03	13.96	14.22	14.99	15.26	15.97	16.37	
1995	16.47	16.39	16.52	14.44	14.22	14.65	14.47		15.15	16.48	16.93	16.61
1996	16.55	16.62	16.27	14.59	12.94	14.21	14.57	14.10	15.96	16.41	16.06	16.38
1997	16.82	16.08	15.16	14.06	14.75	15.57	15.22	17.06	17.79	17.99	19.76	18.82
1998	18.47	17.35	15.61	15.93	15.80	15.63	15.89	16.69	17.64	16.91	16.60	15.07
1999	16.66	14.63	14.48	14.86	15.73	16.63	16.22	15.17	17.11	15.99	16.63	15.99
2000	15.91	16.88	15.67	14.63	14.18	15.36	14.50	15.31	16.19	16.45	16.09	16.66
2001	16.60	15.38	16.03	14.33	14.16	14.80	14.69	15.07	16.14	16.56	17.81	15.87
2002	16.01	15.55	14.91	14.18	13.72	14.67	14.86	14.48				

**Subtidal Monthly Mean Temperatures
Station SDC 4 -4m**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1976												
1977												
1978												
1979												
1980												
1981												
1982												
1983					11.83	13.22	14.36	16.00	15.68	15.86	16.50	13.71
1984	13.42	13.34	12.13	10.72	11.08	12.10	14.40	15.05	15.84	13.64	13.87	13.41
1985	13.08	12.50	12.35	10.98	11.34	12.39	12.98	13.46	13.73	14.35	13.99	14.43
1986	14.95	14.53	14.36	13.23	12.38	12.67	13.01	12.68	13.16	15.23	15.53	16.88
1987	15.62	15.02	13.82	13.16	13.30	12.48	12.90	13.63	14.92	15.74	16.25	14.77
1988	14.40	14.83	13.98	13.38	12.08	11.83	13.34	13.69	13.09	14.88	14.31	13.91
1989	13.44	13.02	12.91	12.63	12.60	12.88	12.90	13.42	13.43	14.12	14.54	16.02
1990	15.66	13.69	12.71	12.84	12.43	12.16	12.87	14.05	13.83	15.68	15.24	14.70
1991	14.62	14.30	13.90	12.80	12.39	12.41			14.75	14.93	15.51	15.87
1992	16.28	16.71	16.91		14.19	12.89	12.53	13.63	14.42	16.26	16.98	16.68
1993	15.71	16.89	15.01	12.82	13.51	12.86	14.71	14.11	13.33	15.21	16.40	16.95
1994	16.28	15.80	14.23	11.87	12.44	11.71	12.26	12.92	13.65	15.02	14.70	14.53
1995	16.12	15.38	15.63	13.15	12.55	13.09	12.63	13.20	13.56	15.42	15.90	16.00
1996	15.39	15.86	14.93	13.44	12.20	12.35	12.74	12.90	14.37	14.90	14.67	15.24
1997	16.07	15.44	13.88	12.85	12.91	13.70	13.73	15.42	16.49	18.50	20.53	19.85
1998	19.01	17.35	15.04	14.24	13.70	13.57	13.92	15.09	15.84	15.12	15.44	14.31
1999	15.67	14.12	13.89	13.35	13.47	14.22	13.58	12.88	14.85	14.47	15.49	14.98
2000	14.15	16.28	15.03	12.61	12.05	13.09	12.56	13.30	14.65	15.04	14.78	15.54
2001	16.09	14.49	14.87	12.38	12.94	12.92	12.94	13.12	14.26	14.80	16.67	14.79
2002	14.76	14.27	13.44	12.06	11.61	12.50	13.12	12.75				

**Subtidal Monthly Mean Temperatures
Station SC 2 -6m**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1976												
1977												
1978												
1979												
1980												
1981												
1982												
1983												
1984												
1985												
1986												
1987												
1988												
1989												
1990												
1991												
1992												
1993												
1994												
1995												
1996												
1997												
1998												
1999							12.10	11.95	13.65	13.18	13.22	11.83
2000	12.31	13.15	11.10	10.69	10.06	12.61	11.94	12.66	14.12	13.90	12.44	12.84
2001	12.78	11.69	11.76	10.19	11.87	12.34	12.31	12.29	13.52	13.88	14.19	11.77
2002	12.12	11.88	11.45	10.89	10.09	11.11	12.80	12.34				

APPENDIX C

Intertidal Taxa: Annual Mean Abundances

C1 Algae

C2 Invertebrates

C3 Fishes



Horizontal Band Transects - Yearly Algal Mean Cover (per 1m squared) North Control Station NC 1 at +0.3m

Taxon	Year # Surveys/Year	1976 4	1977 6	1978 5	1979 6	1980 5	1981 6	1982 5	1983 3	1984 3	1985 6	1986 5	1987 6	1988 4	1989 4	1990 4	1991 4	1992 4	1993 4	1994 4	1995 3	1996 2	1997 2	1998 2	1999 4	2000 4	2001 4	2002 2
% Coverage																												
<i>Analipis japonicus</i>		-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Bryopsis</i> spp		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Calliarthron/Bossiaella</i> spp -complex		0.9	0.4	1.0	0.8	2.3	1.1	1.5	1.6	1.3	1.6	1.9	1.7	1.2	0.9	0.6	0.8	0.7	1.2	1.3	1.5	1.1	0.8	1.7	0.9	0.4	0.6	0.7
<i>Callithamnion pikeanum</i>		<1	<1	+	<1	+	<1	<1	<1	<1	<1	<1	<1	+	+	<1	+	<1	-	+	<1	<1	<1	<1	<1	0.1	<1	0.1
<i>Callithamnion</i> spp./ <i>Pleonosporium</i> spp		-	-	-	<1	+	-	-	-	+	+	<1	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
<i>Callophyllis flabellulata</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
<i>Callophyllis</i> spp		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
<i>Chondracanthus canaliculatus</i>		9.7	10.6	10.8	13.2	9.2	12.6	12.9	10.2	17.0	10.5	8.5	8.1	6.3	7.4	7.7	10.3	14.9	10.1	15.2	14.6	13.5	12.3	7.3	8.5	5.7	6.4	6.4
<i>Chondracanthus corymbiferus</i>		-	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	+	+	+	+	-	-	-	-	-	-	-
<i>Chondracanthus harveyanus/spinosus</i>		-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	+	+	-	-	-	-	-	-	-
<i>Chondria decipiens</i>		-	-	<1	+	-	-	<1	<1	0.2	<1	-	-	+	+	<1	-	-	0.2	-	+	+	+	+	+	<1	-	-
<i>Chrysophyta</i> unid		-	-	-	-	-	-	-	-	0.1	<1	+	<1	+	+	+	+	+	0.2	+	+	+	+	+	+	<1	<1	+
<i>Cladophora</i> spp.		<1	<1	+	+	+	+	+	+	+	+	<1	+	<1	<1	+	<1	+	+	+	+	+	+	+	+	+	+	+
<i>Codium setchellii</i> (prostrate)		0.8	0.7	1.5	1.2	1.1	1.5	1.7	1.9	1.5	1.3	1.5	1.2	1.9	1.1	1.4	1.6	1.9	1.6	1.4	1.6	1.6	2.3	1.5	1.5	1.5	1.4	1.7
<i>Colpomenia</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+
<i>Corallina officinalis</i>		0.3	0.3	0.1	0.3	+	0.1	<1	<1	0.1	0.2	0.1	<1	<1	+	<1	+	0.1	<1	<1	<1	<1	<1	+	+	<1	<1	-
<i>Corallina vancouveriensis</i>		0.9	1.4	2.0	1.6	1.7	1.5	1.7	2.1	2.2	2.4	3.0	3.1	2.1	1.1	0.7	0.6	0.8	0.5	0.9	0.8	1.0	1.0	0.7	0.9	0.8	1.0	1.0
<i>Cryptopleura ruprechtiana</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+
<i>Cryptopleura violacea</i>		2.3	4.4	3.6	3.1	5.4	4.2	4.4	5.5	2.1	0.9	1.1	2.7	1.6	0.9	2.5	3											

ns = not sampled, <1 = measured but in low abundance, + = only recorded as present

Horizontal Band Transects - Yearly Algal Mean Cover (per 1m squared) North Control Station NC 1 at +0.9m

Taxon	Year # Surveys/Year	1976 4	1977 4	1978 5	1979 6	1980 5	1981 6	1982 5	1983 4	1984 3	1985 6	1986 5	1987 6	1988 4	1989 4	1990 4	1991 4	1992 4	1993 4	1994 4	1995 3	1996 2	1997 2	1998 2	1999 4	2000 4	2001 4	2002 2
% Coverage																												
<i>Anelopus japonicus</i>	-	+	+	<1	0.1	0.1	<1	<1	<1	0.1	<1	+	<1	<1	<1	0.1	0.2	<1	0.2	<1	0.3	0.2	0.3	<1	<1	+	0.2	0.2
<i>Calliarthron/Bossella</i> spp -complex	0.2	<1	0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.2	0.1	<1	<1	0.1	<1	<1	<1	-	
<i>Callithamnion pikeanum</i>	-	<1	+	<1	+	+	+	+	+	+	+	+	+	+	<1	-	-	+	-	-	+	-	-	-	<1	-	+	+
<i>Callithamnion</i> spp./ <i>Pleonosporum</i> spp	+	-	-	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	+	+	
<i>Chondracanthus canaliculatus</i>	1.9	0.8	0.4	0.9	0.5	0.6	0.3	0.6	0.7	0.3	0.2	0.1	<1	<1	<1	<1	0.2	0.2	0.2	0.1	0.1	0.3	0.4	0.4	0.1	0.4	0.4	
<i>Chondracanthus corymbiferus</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	
<i>Chrysophyta</i> und.	-	-	-	+	-	-	-	-	<1	-	-	-	+	+	+	-	-	<1	-	-	-	-	-	-	-	-	-	
<i>Cladophora</i> spp.	<1	<1	<1	<1	+	<1	<1	+	<1	<1	<1	<1	<1	<1	<1	<1	<1	+	<1	<1	<1	0.5	+	+	<1	<1	+	
<i>Codium setchellii</i> (prostrate)	1.5	1.9	1.8	2.0	2.2	2.8	2.7	1.9	0.7	0.8	1.2	1.8	1.4	0.8	1.1	1.5	1.8	1.3	1.5	2.1	1.6	2.2	2.5	3.0	2.2	2.7	3.8	
<i>Corallina officinalis</i>	0.3	0.3	+	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Corallina vancouveriensis</i>	1.0	1.1	1.3	1.5	1.2	1.1	0.9	0.9	0.6	0.8	0.8	0.7	0.7	0.6	0.7	0.7	1	0.7	0.8	0.9	1.0	1.4	1.2	1.0	1.8	1.9	2.6	
<i>Cryptopleura violacea</i>	+	<1	<1	<1	<1	-	+	+	<1	+	-	-	-	-	-	-	-	<1	<1	0.2	0.2	0.6	0.6	0.2	0.4	0.4	0.4	
<i>Cryptosiphonia woodii</i>	1.1	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Egregia menziesii</i>	-	-	-	-	-	-	-	-	-	-	+	-	<1	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	
<i>Endocladia muricata</i>	15.7	14.7	13.7	17.2	16.7	16.0	17.4	17.0	17.5	26.0	31.3	36.0	34.8	35.2	37.7	35.0	36.4	32.0	32.6	31.0	28.6	27.0	26.1	25.5	36.6	33.6	36.4	
<i>Fucales</i> und.	-	-	-	-	-	-	-	-	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Fucus gardneri</i>	-	-	-	+	<1	+	-	-	-	-	-	-	-	-	+	+	+	0.3	-	<1	-	+	<1	<1	<1	<1	-	
<i>Gastroclonium subarticulatum</i>	<1	-	-	-	-	-	-	-	+	-	-	+	-	+	+	+	+	0.3	-	<1	-	+	<1	<1	<1	<1	-	
<i>Gelidium coulteri</i>	1.6	1.6	2.1	2.7	1.3	1.5	2.0	1.9	2.5	1.5	1.1	0.7	0.8	0.9	1.4	1.4	1.7	1.3	1.2	0.6	1.2	1.4	0.5	1.2	0.6	0.7	1.8	
<i>Gelidium pusillum</i>	2.1	1.9	1.5	1.5	1.7	2.2	1.0	2.2	2.4	0.8	0.4	0.4	0.2	0.3	0.7	0.7	1.4	1.5	0.8	0.7	1.1	1.5	1.6	0.9	0.6	<1	0.3	
<i>Graetoloupia doryphora</i>	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Hesperophycus californicus</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	
<i>Mastocarpus jordanii</i>	2.7	1.6	1.7	2.7	2.7	2.3	2.3	2.4	1.6	0.6	0.7	1.1	1.6	1.5	1.0	1.3	1.2	1.3	1.3	1.1	1.3	1.6	1.1	1.0	1.2	1.2	3.3	
<i>Mastocarpus papillatus</i>	16.1	24.9	26.8	23.3	26.8	21.3	26.3	27.3	25.0	12.2	12.4	13.9	18.2	20.5	18.4	25.5	21.9	26.5	27.5	27.2	25.8	23.2	25.3	19.8	9.8	15.2	10.1	
<i>Mazzaella affinis</i>	1	0.7	0.9	2.1	0.8	1.3	0.8	0.8	1.7	0.5	0.5	0.4	0.9	0.4	0.6	0.5	1.6	1.0	1.8	0.6	0.9	0.8	1.7	1.4	2.0	2.1	2.5	
<i>Mazzaella flaccida</i>	28.2	20.8	25.9	27.8	26.2	23.9	25.8	24.0	9.4	10.8	16.3	18.7	12.1	11.0	14.7	17.3	18.1	16.3	24.7	21.8	16.9	16.6	21.0	18.0	11.6	16.3	15.3	
<i>Mazzaella heterocarpa</i>	-	<1	<1	0.2	0.4	0.3	0.2	0.3	<1	<1	0.3	0.6	0.2	0.5	0.3	0.5	0.4	1.0	0.6	0.7	0.5	0.3	1.1	0.4	0.6	0.9	0.6	
<i>Mazzaella leptorhynchus</i>	-	<1	+	+	+	<1	+	<1	0.1	<1	<1	<1	<1	<1	<1	<1	0.1	<1	<1	<1	+	0.2	0.3	0.2	<1	0.3	0.5	
<i>Melobesia mediodors</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	-	-	-	-	-	-	+	
<i>Microcladia borealis</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	
<i>Microcladia coulteri</i>	+	-	+	+	-	-	+	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Neorhodomela larx</i>	-	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Non-coraline crust	20.5	19.1	20.9	22.1	19.6	25.0	23.8	20.1	22.3	16.2	16.6	25.6	21.3	22.3	21.4	16.0	17.0	16.9	18.6	15.8	14.3	20.2	17.2	17.6	19.1	20.6	17.6	
<i>Osmundea</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	+	-	-	-	-	-	-	-	-	-	-	
<i>Pelvetia compressa</i>	6.4	6.0	4.5	4.8	5.5	5.0	4.9	4.5	3.7	3.4	4.6	5.0	4.5	5.2	4.5	4.9	6.8	7.8	7.9	8.7	8.7	9.7	9.0	6.3	5.3	5.7	4.0	
<i>Phyllospadix</i> spp.	-	+	-	-	<1	-	0.2	0.1	<1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.3	0.4	0.4	0.5	0.2	0.6	0.8	0.3	0.2	
<i>Plocamium violaceum</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	
<i>Porphyra</i> spp	1.4	3.6	1.1	2.0	0.7	0.9	0.3	0.3	2.9	2.7	1.7	0.9	0.5	0.2	0.7	0.7	<1	0.6	0.3	0.3	0.3	1.3	0.8	0.8	0.6	0.2	-	
<i>Prionitis</i> spp	0.2	<1	0.1	<1	<1	0.1	<1	<1	+	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.3	0.2	0.2	0.3	0.1	0.2	<1	0.1	0.3	0.3	0.6	
<i>Rhodophyta</i> (juv. blades)	-	-	+	-	-	-	-	-	-	+	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Scytosiphon</i> spp	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Smithora nialadum</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	
Spongomorpha/Acrosiphonia-complex	<1	-	<1	<1	<1	<1	+	+	<1	<1	<1	<1	0.2	0.1	+	<1	+	-	+	-	<1	-	-	-	<1	0.2	-	
<i>Ulva/Enteromorpha</i> spp	-	<1	<1	<1	+	+	+	+	<1	+	+	+	+	+	<1	0.2	+	+	+	<1	+	+	+	+	+	+	<1	-
coralline crust	6.3	7.1	8.2	7.1	7.0	8.5	7.9	12.0	8.4	5.4	5.2	6.2	5.3	5.4	5.2	5.6	4.2	6.9	6.3	6.6	6.5	8.1	9.3	7.1	5.9	5.9	7.7	
filamentous red algae-complex	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
juv articulated coralline algae	-	-	+	<1	<1	<1	<1	<1	<1	<1	0.1	<1	<1	+	+	<1	0.1	0.2	<1	<1	0.1	0.1	<1	0.5	0.1	0.2	0.2	

ns = not sampled, <1 = measured but in low abundance, + = only recorded as present

Horizontal Band Transects - Yearly Algal Mean Cover (per 1m squared) North Control Station NC 2 at +0.3m

Taxon	Year # Surveys/Year	1976 4	1977 2	1978 5	1979 6	1980 5	1981 6	1982 4	1983 3	1984 3	1985 6	1986 4	1987 6	1988 ns	1989 1	1990 4	1991 4	1992 4	1993 4	1994 4	1995 2	1996 ns	1997 ns	1998 ns	1999 4	2000 4	2001 4	2002 2
% Coverages																												
<i>Anallipus japonicus</i>		-	-	-	-	-	-	-	-	-	-	+	+		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Bryopsis</i> spp		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Calliarthron/Bosstella</i> spp -complex		02	01	04	06	07	07	06	06	03	09	05	06		<1	01	03	02	12	07	03				06	06	07	07
<i>Callithamnion pikeanum</i>		<1	<1	<1	<1	<1	<1	<1	<1	+	<1	+	<1		-	<1	-	<1	-	+				-	<1	+	+	+
<i>Callithamnion</i> spp/ <i>Pleonosporium</i> spp		-	-	-	+	+	+	-	-	-	-	+	+		-	+	-	-	-	+				-	-	+	+	+
<i>Callophyllus</i> spp.		-	-	<1	-	-	<1	-	-	+	<1	+	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Chondracanthus canaliculatus</i>		131	129	151	148	153	178	183	143	158	96	71	98		88	122	120	149	127	148	110				122	88	99	106
<i>Chondracanthus corymbiferus</i>		-	-	<1	-	<1	-	-	-	-	+	-	-		-	-	-	-	-	-	-	-	-	-	-	<1	<1	-
<i>Chondracanthus harveyanus/spinosus</i>		-	-	-	-	-	-	-	<1	-	-	-	-		-	-	-	-	-	-	+			-	-	-	-	-
<i>Chondria decipiens</i>		-	-	-	-	-	-	-	+	-	-	-	-		-	-	-	-	-	-	+			-	-	-	-	-
<i>Chrysophyta</i> unid		<1	-	02	<1	<1	<1	<1	-	<1	02	+	<1		+	+	+	+	+	<1	+			-	<1	-	-	-
<i>Cladophora</i> spp.		+	+	<1	+	+	+	+	+	<1	<1	<1	<1		+	<1	+	<1	<1	+	+			+	<1	<1	<1	<1
<i>Codium setchellii</i> (prostrate)		17	19	20	17	22	18	26	16	19	14	17	11		27	18	19	21	19	15	15			15	14	18	41	41
<i>Colpomenia</i> spp		-	-	-	+	-	<1	<1	-	+	02	<1	-		-	+	+	+	+	<1	-			-	-	<1	01	-
<i>Colpomenia/Leathesia/Soranthra</i> spp		-	-	-	<1	-	-	-	<1	-	+	<1	-		-	+	+	+	<1	-	-			+	-	-	-	-
<i>Corallina officinalis</i>		02	02	<1	<1	01	01	<1	<1	<1	+	<1	<1		05	06	09	05	05	08	05			<1	<1	+	+	+
<i>Corallina vancouveriensis</i>		04	09	03	07	04	07	05	04	07	08	13	10		-	-	-	-	-	-	-			14	09	09	09	09
<i>Cryptopleura ruprechtiana</i>		<1	-	-	-	-	-	-	+	-	+	-	-		-	-	-	-	-	-	-			<1	-	-	-	-
<i>Cryptopleura violacea</i>		05	02	16	11	17	15	11	25	07	03	03	08		<1	05	05	06	08	10	07			05	07	08	07	07
<i>Cryptosiphonia woodii</i>		<1	-	-	<1	<1	-	-	-	-	<1	<1	<1		-	<1	<1	<1	03	<1	-			01	-	-	-	-
<i>Egria menziesii</i>		-	-	06	02	<1	<1	04	01	02	<1	+	14		-	-	04	01	06	05	06			11	27	16	09	09
<i>Endocladia muricata</i>		02	02	02	02	02	03	03	02	02	02	10	19		06	08	03	04	02	03	06			06	05	03	04	04
<i>Farlowia/Pilea</i> spp -complex		<1	-	<1	-	-	-	-	-	-	+	<1	-		-	-	-	-	-	-	-			+	+	-	-	-
<i>Gastrolonium subarticulatum</i>		36	25	67	41	74	49	33	108	56	43	70	75		47	59	68	96	127	68	96			86	60	83	84	84
<i>Geldium coulteri</i>		30	22	43	29	34	31	36	28	44	27	35	40		44	54	54	40	25	40	35			27	29	35	23	23
<i>Geldium pusillum</i>		10	03	04	05	06	06	06	02	04	04	04	03		20	06	09	07	06	04	02			04	01	<1	02	02
<i>Geldium robustum</i>		<1	-	-	-	-	-	-	-	-	<1	-	-		-	+	<1	-	<1	-	-			-	-	-	-	<1
<i>Geldium</i> spp		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	<1	<1	01	-			-	-	<1	-	-
<i>Grateloupia doryphora</i>		-	-	<1	-	<1	-	-	-	-	-	<1	+		-	-	-	<1	<1	01	-			-	-	<1	-	-
<i>Gymnogongrus chiton</i>		-	-	-	-	-	-	-	-	-	-	-	+		-	-	-	-	-	-	-			-	-	-	-	-
<i>Halicystis ovalis</i> (=Derbesia marina)		-	-	-	-	+	-	+	-	-	-	-	-		-	-	-	-	-	-	-			-	-	-	-	-
<i>Halosaccion americanum</i>		-	-	-	-	-	-	+	-	+	+	+	-		-	+	-	-	-	<1	+			-	+	-	-	-
<i>Halymenia/Schizymenia</i> spp -complex		-	-	<1	<1	<1	<1	<1	-	<1	<1	<1	<1		-	01	<1	<1	02	01	-			<1	<1	<1	02	02
<i>Hymenena</i> spp		-	-	<1	-	+	-	-	-	-	-	-	-		-	-	-	-	-	-	-			-	+	+	<1	-
<i>Laminaria setchellii</i>		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-			-	-	-	-	-
<i>Leathesia difformis</i>		-	-	+	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-			-	-	-	-	-
<i>Mastocarpus jordanii</i>		11	03	14	08	14	12	13	13	10	02	01	02		17	07	09	06	11	13	15			05	17	13	20	20
<i>Mastocarpus papillatus</i>		48	57	70	47	57	47	38	42	69	37	48	86		24	62	72	60	98	62	68			56	34	60	76	76
<i>Mazzaella affinis</i>		76	102	95	91	69	88	80	77	57	58	66	81		132	118	97	94	72	69	82			69	94	103	94	94
<i>Mazzaella flaccida</i>		324	375	339	315	344	331	383	381	149	102	188	297		248	384	402	319	287	336	307			188	230	211	302	302
<i>Mazzaella heterocarpa</i>		06	01	07	06	09	08	10	07	01	05	07	10		05	15	11	14	17	08	22			09	10	15	21	21
<i>Mazzaella leptorhynchus</i>		04	03	03	02	05	05	05	08	08	10	11	12		08	04	05	15	09	12	13			15	13	16	17	17
<i>Mazzaella lilacina</i>		<1	-	02	03	05	<1	03	02	<1	+	<1	+		-	+	-	<1	05	03	01			<1	01	-	-	-
<i>Melobesia mediocris</i>		-	-	-	+	<1	+	+	+	+	+	+	+		+	+	+	+	<1	+	+			02	+	+	+	+
<i>Microcladia borealis</i>		01	-	+	<1	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-			-	+	-	-	-
<i>Microcladia coulteri</i>		04	+	06	02	01	01	03	06	03	<1	<1	03		<1	01	01	03	06	02	+			<1	<1	03	-	-
<i>Neorhodomela larx</i>		80	87	90	81	80	75	71	82	70	93	89	64		38	26	30	23	28	21	28			14	25	14	25	25
Non-coralline crust		212	181	160	185	199	181	189	176	143	153	193	234		264	155	122	144	142	177	151			193	141	157	172	172
<i>Osmundea</i> spp		<1	01	03	01	03	01	<1	01	02	<1	<1	<1		-	<1	<1	02	02	01	02			02	01	<1	<1	<1
<i>Pelvetia compressa</i>		-	-	-	-	-	-	-	-	-	+	+	+		-	-	-	-	-	-	-			-	-	-	-	-
<i>Phyllospadix</i> spp		10	07	15	33	53	33	43	44	53	50	56	59		102	91	99	121	143	168	156			209	195	182	179	179
<i>Plocamium violaceum</i>		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-			-	-	-	-	-
<i>Polysiphonia latissima</i>		-	-	+	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-			-	-	-	-	-
<i>Porphyra</i> spp		28	17	03	73	14	31	22	16	89	58	81	37		+	03	28	13	02	15	01			28	13	46	+	+
<i>Prionitis</i> spp		<1	03	13	07	06	05	02	15	07	07	04	04		02	02	06	08	08	06	06			06	03	02	07	07
<i>Pterosiphonia dendroidea</i>		-	-	+	<1	+	<1	<1	+	03	<1	<1	<1		<1	<1	02	02	01	01	03			02	+	01	<1	<1
<i>Rhodophyta</i> (juv blades)		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-			-	-	-	-	-

ns = not sampled, < 1 = measured but in low abundance, + = only recorded as present

(continued)

Horizontal Band Transects - Yearly Algal Mean Cover (per 1m squared) North Control Station NC 2 at +0.3m (continued)

Taxon	Year # Surveys/Year	1976 4	1977 2	1978 5	1979 6	1980 5	1981 6	1982 4	1983 3	1984 3	1985 6	1986 4	1987 6	1988 ns	1989 1	1990 4	1991 4	1992 4	1993 4	1994 4	1995 2	1996 ns	1997 ns	1998 ns	1999 4	2000 4	2001 4	2002 2
% Coverage																												
<i>Rhodomenia</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
<i>Sarcodiotheca gaudichaudii</i>		<1	<1	<1	<1	<1	<1	<1	<1	0.1	0.1	<1	<1	-	-	0.2	0.2	0.2	<1	+	0.1	-	-	-	<1	<1	<1	0.1
<i>Schizymenia epiphytica</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	<1	-	-
<i>Smithora naiadum</i>		-	-	+	0.3	0.6	0.3	0.5	0.2	0.5	1.2	0.2	0.7	+	0.4	0.3	0.2	+	0.9	-	-	-	-	-	1.0	0.4	2.7	+
<i>Soranthra ulvoidea</i>		-	-	+	+	<1	+	+	-	<1	+	-	-	-	+	<1	+	+	+	+	+	-	-	-	-	-	-	-
Spongomorpha/Acrosiphonia-complex		<1	-	+	<1	<1	0.1	<1	0.6	1.6	0.6	0.2	<1	-	<1	+	+	+	+	+	+	-	-	-	-	0.5	0.1	+
<i>Ulva/Enteromorpha</i> spp.		1.3	+	1.1	3.5	1.6	1.8	3.3	2.2	3.1	2.3	1.4	0.2	0.3	0.8	1.4	0.8	<1	0.3	+	-	-	-	0.6	1.8	1.6	0.4	
coralline crust		3.6	3.1	4.6	4.0	4.8	4.4	3.9	3.4	5.0	4.5	3.8	3.0	4.2	3.1	2.6	3.1	2.2	3.6	3.0	-	-	-	2.5	3.0	2.6	2.3	
filamentous red algae-complex		-	+	<1	<1	<1	<1	0.2	+	<1	0.3	<1	0.1	0.1	1.2	2.3	1.5	2.3	1.8	0.6	-	-	-	0.2	0.3	1.2	1.2	
juv. articulated coralline algae		-	<1	<1	0.4	0.2	0.1	0.3	<1	0.3	0.5	0.1	0.1	0.1	<1	0.1	0.3	<1	0.1	0.5	-	-	-	0.4	0.3	0.3	0.5	

ns = not sampled, <1 = measured but in low abundance, + = only recorded as present

Horizontal Band Transects - Yearly Algal Mean Cover (per 1m squared) North Control Station NC 2 at +0.9m

Taxon	Year # Surveys/Year	1976 4	1977 2	1978 5	1979 6	1980 5	1981 6	1982 5	1983 4	1984 3	1985 6	1986 5	1987 6	1988 ns	1989 1	1990 4	1991 4	1992 4	1993 4	1994 4	1995 2	1996 ns	1997 ns	1998 ns	1999 4	2000 4	2001 4	2002 2
% Coverage																												
<i>Anallipus japonicus</i>		-	-	-	-	-	-	-	+	-	-	<1	-		-	-	-	-	-	-	-				-	-	-	-
<i>Callithamnion/Boselliella</i> spp.-complex		<1	+	+	0.1	<1	<1	<1	<1	<1	<1	0.2	0.1		0.2	<1	<1	0.2	0.2	0.3	0.6			0.1	0.3	0.3	<1	
<i>Callithamnion pikeanum</i>		<1	+	<1	+	<1	<1	+	-	-	-	+	+		-	-	+	-	-	+	+			-	-	<1	+	
<i>Callithamnion</i> spp./ <i>Pleonosporium</i> spp.		-	-	-	+	+	+	+	-	-	-	-	-		-	-	-	-	-	-	-			-	-	-	-	
<i>Chondracanthus canaliculatus</i>		<1	<1	<1	0.1	+	<1	0.1	0.4	0.4	<1	0.3	0.1		+	<1	<1	0.2	0.1	0.2	<1			0.1	0.1	0.2	0.2	
<i>Chrysophyta</i> unid.		-	-	-	+	+	+	+	<1	-	-	-	-		-	+	+	+	+	+	+			<1	<1	<1	+	
<i>Cladophora</i> spp.		<1	+	+	+	+	<1	+	+	+	+	<1	+		<1	<1	<1	+	+	+	+			<1	<1	<1	+	
<i>Corallina officinalis</i>		-	<1	<1	<1	-	+	-	-	-	+	-	-		-	-	-	0.1	0.1	-	-			-	<1	<1	-	
<i>Corallina vancouveriensis</i>		0.4	0.4	0.4	0.5	0.9	1.0	0.9	0.7	0.6	0.6	0.5	0.6		0.3	1.0	0.4	0.5	0.3	0.4	0.6			0.7	0.6	0.4	0.6	
<i>Cryptopleura violacea</i>		-	+	-	<1	-	-	-	-	<1	+	+	<1		-	<1	<1	<1	0.2	0.3	<1			<1	<1	0.1	-	
<i>Cryptosiphonia woodii</i>		-	-	-	-	-	-	-	-	-	-	-	+		-	-	-	-	-	-	-			-	-	-	-	
<i>Cumagloia andersonii</i>		-	-	<1	-	-	-	-	+	+	-	-	-		-	-	-	<1	-	+	-			+	+	-	-	
<i>Endocladia muricata</i>		41.6	40.1	37.7	37.0	41.4	38.5	41.0	29.8	32.4	37.8	38.2	37.1		34.2	31.5	32.1	32.6	34.4	33.2	38.9			28.9	40.8	39.7	46.2	
<i>Fucaceae</i> unid.		-	-	-	-	-	-	-	-	-	-	-	+		-	-	-	-	-	+	<1			-	-	-	-	
<i>Fucus gardneri</i>		<1	-	-	<1	-	-	<1	-	-	-	-	-		-	-	-	-	-	+	<1			-	-	-	-	
<i>Gastroclonium subarticulatum</i>		-	+	-	<1	-	-	-	-	<1	<1	<1	0.2		<1	0.2	0.2	0.2	0.1	0.2	<1			0.2	+	0.1	0.2	
<i>Gelidium coulteri</i>		0.7	0.6	0.6	0.4	0.4	0.5	0.6	1.0	1.2	0.5	0.6	0.5		0.3	0.7	0.5	0.5	0.3	0.5	0.8			0.2	0.5	0.6	0.5	
<i>Gelidium pusillum</i>		0.3	0.3	0.2	0.3	0.2	0.3	0.3	0.4	0.8	0.2	<1	0.2		0.4	0.4	0.2	0.5	0.2	0.2	0.2			0.3	<1	0.2	0.2	
<i>Gelidium</i> spp.		+	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-			-	-	-	-	
<i>Halymenia/Schizymenia</i> spp.-complex		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-			-	-	+	-	
<i>Mastocarpus jardinii</i>		0.8	0.7	1.0	1.0	1.1	1.2	1.3	0.8	0.4	0.3	0.5	0.4		1.0	0.3	0.6	1.1	1.1	1.1	1.2			0.5	0.9	1.1	1.0	
<i>Mastocarpus papillatus</i>		20.3	18.3	23.3	21.9	23.8	17.1	20.0	18.9	22.5	15.4	16.4	19.7		16.4	20.8	24.4	20.9	25.9	26.3	17.7			20.8	10.4	18.4	14.4	
<i>Mazzaella affinis</i>		3.0	1.0	2.7	3.1	1.8	2.2	1.9	1.0	1.8	1.4	1.1	1.1		4.7	4.1	2.5	3.8	2.5	4.0	2.2			6.2	6.5	6.3	4.3	
<i>Mazzaella flaccida</i>		13.2	8.1	10.1	12.5	9.0	8.4	10.1	6.5	4.5	3.5	5.5	6.2		6.8	5.8	8.8	5.7	8.3	9.9	6.6			8.0	4.5	6.9	6.0	
<i>Mazzaella heterocarpa</i>		0.2	-	0.4	0.2	0.2	0.5	0.7	0.4	0.1	0.3	0.2	0.8		0.3	0.2	1.6	1.0	0.7	0.7	0.3			0.6	0.3	0.6	0.4	
<i>Mazzaella leptorhynchus</i>		+	<1	<1	<1	<1	+	<1	0.4	0.7	<1	<1	0.2		+	<1	<1	0.3	0.1	<1	0.1			0.2	0.3	0.2	<1	
<i>Mazzaella lilacina</i>		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	<1	0.1	-			-	-	-	-	
<i>Microcladia borealis</i>		-	-	-	-	-	-	-	-	-	-	-	-		-	-	+	-	-	-	-			-	-	-	-	
<i>Microcladia coulteri</i>		-	-	-	-	-	-	-	-	+	+	-	+		-	-	-	-	-	+	-			-	+	-	-	
Non-coraline crust		12.5	10.3	10.2	14.2	12.4	12.9	13.2	11.6	14.3	12.6	15.0	17.5		22.4	15.9	12.6	18.5	15.8	16.1	19.9			18.0	14.1	11.2	17.5	
<i>Osmundea</i> spp.		+	-	-	-	-	-	-	-	<1	-	-	-		-	-	-	-	-	+	-			-	-	-	-	
<i>Pelvetia compressa</i>		<1	-	+	<1	+	+	+	+	+	+	+	-		+	+	+	+	+	-	-			+	+	+	<1	
<i>Phyllospadix</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	+			<1	-	+	-	
<i>Plocamium violaceum</i>		-	-	-	-	-	-	-	-	-	-	-	-		-	-	+	-	-	-	-			-	-	-	-	
<i>Porphyra</i> spp.		0.6	1.1	0.7	1.3	1.3	1.0	<1	3.1	0.9	0.3	0.3	0.2		0.4	0.5	0.5	<1	0.2	0.1	+			1.2	0.1	0.1	+	
<i>Prionitis</i> spp.		<1	<1	<1	<1	0.1	0.1	<1	<1	<1	<1	0.2	<1		0.2	<1	<1	<1	0.2	<1	0.2			+	+	+	+	
<i>Rhodophyta</i> (juv. blades)		-	-	<1	-	-	-	-	+	-	<1	<1	<1		-	-	-	-	-	-	-			-	-	-	-	
<i>Spongomorpha/Acrosiphonia</i> -complex		-	-	-	-	-	+	-	+	+	+	+	-		-	-	-	-	-	-	-			-	+	-	-	
<i>Ulva/Enteromorpha</i> spp.		-	+	+	<1	<1	+	+	+	+	+	+	-		+	<1	+	+	+	+	-			+	+	-	-	
coralline crust		3.5	2.7	4.4	4.5	4.7	6.0	4.6	4.8	3.6	5.5	4.2	4.5		4.7	3.8	3.5	5.1	4.6	3.8	5.5			4.3	5.2	4.8	4.7	
filamentous red algae-complex		-	-	-	-	-	<1	+	<1	-	-	<1	-		-	-	-	+	+	-	-			-	-	-	-	
juv. articulated coralline algae		-	-	+	+	<1	<1	<1	+	<1	<1	<1	<1		0.1	<1	<1	0.2	0.2	0.1	0.1			<1	<1	0.2	0.1	

ns = not sampled, < 1 = measured but in low abundance; + = only recorded as present

Horizontal Band Transects - Yearly Algal Mean Cover (per 1m squared) Field's Cove Station FC 1 at +0.3m

Taxon	Year # Surveys/Year	1976 4	1977 2	1978 ns	1979 ns	1980 ns	1981 ns	1982 ns	1983 ns	1984 1	1985 2	1986 2	1987 1	1988 ns	1989 1	1990 4	1991 4	1992 4	1993 4	1994 4	1995 4	1996 4	1997 3	1998 4	1999 4	2000 4	2001 4	2002 2
% Coverage																												
<i>Anatpis japonicus</i>		<1	-							-	-	-	-		-	-	-	-	-	-	-	0.1	-	-	-	-	-	-
<i>Bryopsis</i> spp		-	-																									
<i>Calliarthron/Bossetia</i> spp.-complex		15	11							08	08	20	08		19	14	17	19	51	46	31	27	41	31	26	26	24	14
<i>Callithamnion pikeanum</i>		03	02							+	<1	+	<1		+	01	<1	<1	<1	+	<1	<1	02	<1	<1	+	<1	+
<i>Callithamnion</i> spp./ <i>Pleonosporium</i> spp		<1	+							+	-	+	-		-	-	-	+	<1	+	<1	+	+	+	<1	<1	<1	+
<i>Callophyllis</i> spp		-	-																					<1	+	<1	+	
<i>Chondracanthus canaliculatus</i>		48	35							118	74	39	28		04	07	12	11	20	53	109	120	122	140	103	94	81	94
<i>Chondracanthus corimbiferus</i>		-	-							-	-	+	<1		-	-	-	-	01	<1	<1	<1	01	02	03	<1	05	<1
<i>Chondracanthus harveanus/spinosus</i>		-	-							-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	+	+	-
<i>Chrysophyta</i> unid.		-	-							-	<1	-	<1		-	-	-	<1	03	+	<1	<1	-	-	-	+	+	03
<i>Cladophora</i> spp		<1	+							+	+	+	+		+	<1	<1	<1	<1	+	+	<1	+	+	+	+	+	+
<i>Colpomenia</i> spp		-	-							-	-	-	-		-	-	-	-	-	-	-	-	-	+	+	+	+	
<i>Corallina officinalis</i>		17	06							+	<1	-	-		-	-	-	-	+	<1	<1	<1	<1	03	<1	06	07	<1
<i>Corallina vancouveriensis</i>		54	94							46	16	36	22		34	48	44	77	61	70	69	69	63	97	102	89	72	69
<i>Cryptopleura ruprechtiana</i>		-	-							-	-	-	-		-	-	-	-	-	+	-	-	<1	+	-	-	-	-
<i>Cryptopleura violacea</i>		61	70							53	66	70	33		35	48	25	93	43	32	84	51	62	21	31	22	96	89
<i>Cryptosiphonia woodii</i>		-	-							02	01	04	06		<1	03	10	20	06	04	01	02	+	<1	<1	+	04	01
<i>Delesseriaceae</i> (juv.)		-	-							-	-	-	-		-	-	-	-	-	-	-	+	-	-	-	-	-	-
<i>Derbesia marina</i> (filamentous)		-	-							-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	<1	-	-
<i>Egria menziesii</i>		+	-							-	02	+	-		-	-	-	-	124	238	199	100	273	139	169	105	66	08
<i>Endocladia muricata</i>		73	73							116	78	72	108		64	80	98	91	74	71	76	58	44	38	34	52	56	56
<i>Erythrophyllum delesserioides</i>		-	-							-	+	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Farlowia/Pikea</i> spp.-complex		-	-							-	-	-	-		-	-	-	-	+	+	-	-	+	+	+	-	-	-
<i>Fucus gardneri</i>		05	-							-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Gastroclonium subarticulatum</i>		94	95							140	101	81	153		76	88	77	121	153	94	155	164	128	155	127	64	120	104
<i>Gelidium coulteri</i>		107	59							65	139	76	121		79	95	114	63	62	76	85	69	62	50	44	35	47	30
<i>Gelidium pusillum</i>		05	04							07	+	+	+		+	<1	+	<1	01	<1	02	02	<1	<1	+	<1	<1	<1
<i>Grateloupia doryphora</i>		<1	-							-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Halosaccion americanum</i>		+	-							-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Halymenia/Schizymenia</i> spp.-complex		-	-							-	-	-	01		-	-	+	<1	<1	+	<1	-	-	<1	<1	-	-	-
<i>Hesperophycus californicus</i>		-	-							-	-	-	-		-	-	-	+	-	-	-	-	-	-	-	-	-	-
<i>Laminaria setchellii</i>		-	-							-	-	-	-		-	-	-	-	<1	-	-	-	-	<1	<1	-	-	-
<i>Laminariales</i>		-	-							-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Mastocarpus Jardini</i>		19	11							19	16	14	08		07	06	04	06	05	04	06	13	05	05	03	09	23	17
<i>Mastocarpus papillatus</i>		58	73							103	67	63	93		74	74	80	47	76	65	40	49	56	38	18	24	41	39
<i>Mazzaella affinis</i>		15	10							28	27	11	17		22	14	19	09	11	18	19	21	22	11	09	15	25	18
<i>Mazzaella flaccida</i>		250	186							362	289	253	400		115	217	200	147	81	116	126	152	133	117	99	159	250	265
<i>Mazzaella heterocarpa</i>		07	07							14	26	17	25		05	15	22	23	19	02	03	04	02	02	06	05	13	09
<i>Mazzaella leptorhynchus</i>		<1	02							03	05	03	06		+	05	02	03	02	<1	<1	02	04	<1	+	02	01	<1
<i>Mazzaella lilacina</i>		-	-							-	06	01	17		-	-	-	-	-	-	01	05	22	09	11	01	03	-
<i>Mazzaella rosea</i>		-	-							-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Melobesia medioensis</i>		-	-							-	-	-	-		-	-	-	-	+	+	+	+	+	+	+	+	+	+
<i>Microcladia borealis</i>		04	+							+	<1	-	-		-	-	-	-	-	-	+	+	<1	+	<1	-	+	-
<i>Microcladia coulteri</i>		02	+							+	<1	+	+		-	<1	+	<1	<1	+	+	<1	01	+	+	+	02	-
<i>Neorhodomela larix</i>		-	-							+	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Nereocystis luetkeana</i>		-	-							-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-coraline crust		299	286							314	224	358	206		397	344	330	338	278	227	211	189	179	213	188	198	207	201
<i>Osmundea</i> spp		-	+							+	02	<1	+		-	<1	+	+	01	01	05	03	03	03	<1	<1	03	01
<i>Pelvetia compressa</i>		-	-							-	-	-	-		-	-	-	-	-	-	-	-	02	-	02	-	-	-
<i>Phaeostrophion irregulare</i>		-	-							-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Phyllospadix</i> spp		12	18							29	28	22	42		33	28	35	40	54	67	80	80	45	70	76	72	50	33
<i>Placamilum violaceum</i>		-	-							-	-	-	-		-	-	-	-	<1	-	-	<1	-	-	+	-	-	-
<i>Porphyra</i> spp		01	04							19	02	06	02		-	<1	03	<1	17	38	22	04	63	03	04	67	12	02
<i>Prionitis</i> spp		<1	<1							02	04	01	02		<1	<1	02	03	03	04	08	11	05	11	06	05	10	05
<i>Pterosiphonia dendroidea</i>		-	-							+	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Rhodophyta</i> (juv. blades)		-	-							-	-	+	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Rhodomenia</i> spp.		-	-							-	-	-	-		-	-	-	-	-	-	-	<1	-	-	+	-	-	-

ns = not sampled, <1 = measured but in low abundance; + = only recorded as present

(continued)

Horizontal Band Transects - Yearly Algal Mean Cover (per 1m squared) Field's Cove Station FC 1 at +0.3m (continued)

Taxon	Year # Surveys/Year	1976 4	1977 2	1978 ns	1979 ns	1980 ns	1981 ns	1982 ns	1983 ns	1984 1	1985 2	1986 2	1987 1	1988 ns	1989 1	1990 4	1991 4	1992 4	1993 4	1994 4	1995 4	1996 4	1997 3	1998 4	1999 4	2000 4	2001 4	2002 2
% Coverage																												
<i>Rosenvingea floridana</i>		-	-							-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
<i>Sarcodiotheca gaudichaudii</i>		<1	<1							0.3	<1	<1	<1			0.1	0.1	0.6	+	<1	0.2	0.2	+	0.1	0.1	+	<1	<1
<i>Smithora naldum</i>		-	-							-	0.6	-	<1			-	-	-	+	+	<1	0.5	+	+	+	+	0.6	+
Spongomorpha/Acrosiphonia-complex		-	-							+	+	+	-		-	+	+	+	0.2	0.4	0.3	<1	0.4	<1	<1	<1	0.6	+
<i>Ulva/Enteromorpha</i> spp		-	+							+	+	+	-		-	+	+	+	0.6	1.3	2.7	0.9	1.6	0.8	0.4	1.1	3.1	0.3
coralline crust		6.1	7.9							7.2	7.8	9.3	7.2		10.0	9.8	6.9	6.8	8.3	9.2	8.3	6.2	7.4	10.0	7.8	6.3	4.9	4.5
filamentous red algae-complex		<1	-							+	+	+	-		-	-	+	+	-	+	<1	<1	<1	<1	0.2	0.4	0.2	+
juv articulated coralline algae		-	0.9							0.8	0.3	1.9	1.2		1.5	0.4	0.7	0.8	1.8	1.2	1.0	1.0	1.4	1.3	0.6	2.6	1.9	0.9

ns = not sampled, < 1 = measured but in low abundance, + = only recorded as present

Horizontal Band Transects - Yearly Algal Mean Cover (per 1m squared) Field's Cove Station FC 1 at +0.9m

Taxon	Year # Surveys/Year	1976 4	1977 2	1978 ns	1979 ns	1980 ns	1981 ns	1982 ns	1983 ns	1984 1	1985 2	1986 3	1987 3	1988 ns	1989 1	1990 4	1991 4	1992 4	1993 4	1994 4	1995 4	1996 4	1997 3	1998 4	1999 4	2000 4	2001 4	2002 2
% Coverages																												
<i>Callithamnion/Boselliella</i> spp.-complex	12	07								10	14	10	12		10	06	09	09	13	08	09	08	09	08	08	07	05	07
<i>Callithamnion pikeanum</i>	-	+								-	-	-	+		-	<1	+	+	+	-	+	-	-	-	-	-	-	<1
<i>Callithamnion</i> spp./Pleonosporium spp	-	-								-	-	-	-		-	-	-	-	-	-	-	+	-	-	-	-	-	-
<i>Chondracanthus canaliculatus</i>	07	+								+	02	03	03		-	+	<1	+	+	<1	+	+	<1	<1	+	<1	<1	+
<i>Chondracanthus corymbiferus</i>	-	-								-	-	-	-		-	-	-	-	<1	-	-	-	-	-	-	-	-	-
<i>Chondria decipiens</i>	-	-								-	-	-	-		-	+	-	-	-	-	-	-	-	-	-	-	-	-
<i>Chrysophyta</i> unid.	-	-								-	-	-	-		-	+	-	-	-	-	-	-	-	-	-	-	-	-
<i>Cladophora</i> spp.	01	+								<1	02	<1	<1		+	<1	<1	<1	<1	+	<1	<1	<1	<1	<1	<1	<1	+
<i>Corallina officinalis</i>	02	<1								-	-	+	-		-	01	-	+	-	-	+	+	-	-	-	-	-	-
<i>Corallina vancouveriensis</i>	14	1.7								09	15	10	12		10	11	06	07	03	02	03	07	05	05	04	03	02	03
<i>Cryptopleura violacea</i>	<1	-								-	+	<1	+		-	+	-	-	01	+	<1	+	+	-	-	-	<1	-
<i>Cryptosiphonia woodii</i>	06	09								05	07	<1	+		+	+	<1	<1	01	<1	02	01	01	<1	-	+	-	-
<i>Egregia menziesii</i>	-	-								-	-	-	-		-	-	-	-	+	-	-	-	-	-	-	-	-	-
<i>Endocladia muricata</i>	327	306								453	426	381	433		381	364	363	382	405	408	426	417	381	423	417	369	370	391
<i>Fucales</i> unid.	-	-								-	+	+	-		-	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Fucus gardneri</i>	<1	02								<1	<1	<1	<1		-	+	<1	<1	<1	-	+	+	+	+	<1	+	<1	-
<i>Gastroclonium subarticulatum</i>	01	<1								+	01	-	<1		-	-	-	+	+	<1	+	+	<1	+	<1	+	<1	<1
<i>Gelidium coulteri</i>	54	20								10	37	33	21		16	08	09	15	20	26	26	28	19	16	04	06	12	05
<i>Gelidium pusillum</i>	1.1	03								11	01	<1	+		<1	01	+	<1	<1	03	01	04	<1	<1	<1	<1	+	+
<i>Grateloupia doryphora</i>	-	-								-	-	-	-		-	-	<1	+	+	+	-	-	+	+	-	-	-	-
<i>Heperophycus californicus</i>	+	-								-	-	<1	<1		-	01	<1	<1	+	<1	-	<1	<1	01	<1	01	-	-
<i>Mastocarpus jordanii</i>	-	-								-	-	-	-		04	-	-	-	-	-	-	-	+	+	03	<1	-	-
<i>Mastocarpus papillatus</i>	119	99								108	109	121	88		72	102	98	52	99	132	145	149	141	92	78	40	84	60
<i>Mazzaella affinis</i>	18	06								+	03	02	<1		+	+	<1	+	+	01	<1	<1	02	02	+	<1	02	+
<i>Mazzaella flaccida</i>	61	25								03	05	10	10		06	16	09	05	13	36	27	36	28	08	03	06	16	1
<i>Mazzaella heterocarpa</i>	04	05								03	02	01	<1		+	<1	01	01	01	02	03	02	03	<1	02	<1	<1	<1
<i>Mazzaella leptorhynchus</i>	<1	<1								01	02	02	02		+	01	02	02	03	03	02	01	02	03	<1	<1	02	+
<i>Mazzaella lilacina</i>	<1	-								-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Melobesia medietris</i>	-	-								-	-	-	-		-	-	-	-	-	+	-	-	-	-	-	-	-	-
Non-coraline crust	21.5	22.9								118	97	135	181		188	175	144	177	165	211	213	206	153	185	134	131	158	159
<i>Osmundea</i> spp.	-	-								-	+	+	-		-	-	-	-	-	-	<1	-	-	-	-	-	-	-
<i>Pelvetia compressa</i>	18	43								03	07	03	+		04	02	02	03	05	05	04	08	09	12	08	07	09	10
<i>Pelvetopsis limitata</i>	-	-								-	-	-	-		-	-	-	-	-	+	-	-	-	-	-	-	-	-
<i>Phyllospadix</i> spp.	09	04								-	-	-	+		03	05	04	07	07	10	14	14	11	04	04	07	06	06
<i>Porphyra</i> spp.	03	<1								05	<1	02	<1		-	03	01	<1	<1	01	02	02	02	03	+	<1	<1	+
<i>Prionitis</i> spp.	02	+								-	<1	-	+		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	01	+	<1	01
<i>Smithora naldum</i>	-	-								-	-	-	-		-	+	+	-	-	-	-	-	-	-	-	-	-	-
Spongomorpha/Acrosiphonia-complex	-	-								+	<1	-	+		-	-	-	+	-	+	-	-	-	-	-	-	<1	-
<i>Ulva/Enteromorpha</i> spp.	-	+								+	-	+	-		-	-	-	+	+	+	+	+	+	+	+	+	+	-
coralline crust	24	45								32	34	26	33		20	24	18	19	22	20	22	16	16	12	10	09	12	14
filamentous red algae-complex	-	+								-	+	-	-		-	-	-	-	+	-	-	-	-	-	-	-	<1	-
juv. articulated coralline algae	-	03								+	01	03	05		03	<1	02	<1	01	02	<1	01	<1	<1	02	02	01	01

ns = not sampled, <1 = measured but in low abundance; + = only recorded as present

Horizontal Band Transects - Yearly Algal Mean Cover (per 1m squared) Field's Cove Station FC 2 at +0.3m

Taxon	Year # Surveys/Year	1976 4	1977 2	1978 ns	1979 ns	1980 ns	1981 ns	1982 ns	1983 ns	1984 1	1985 2	1986 2	1987 1	1988 ns	1989 1	1990 4	1991 4	1992 4	1993 4	1994 4	1995 4	1996 4	1997 4	1998 4	1999 4	2000 4	2001 4	2002 2
% Coverage																												
<i>Anallipus japonicus</i>		+	+							+	+	+	<1		<1	+	+	+	+	+	-	<1	-	-	-	-	-	-
<i>Calliarthron/Bosstiella</i> spp.-complex		3.9	3.3							4.5	2.5	3.6	2.6		4.7	4.4	6.5	5.3	9.3	7.8	5.8	6.4	8.0	6.9	7.5	5.3	4.4	4.0
<i>Callithamnion pikeanum</i>		<1	0.2							+	<1	<1	-		-	<1	+	-	-	+	+	+	+	+	+	+	+	+
<i>Callithamnion</i> spp./Pleonosporium spp		-	-							0.2	<1	<1	-		-	-	+	-	+	+	<1	+	0.1	+	<1	<1	+	+
<i>Callophyllis firma</i>		-	-							-	-	-	-		-	-	-	-	-	-	+	-	-	-	-	-	-	-
<i>Callophyllis</i> spp.		-	-							-	+	+	-		-	-	+	+	+	+	<1	<1	-	+	-	-	-	+
<i>Chondracanthus canaliculatus</i>		4.2	2.4							5.2	2.6	3.7	4.7		0.8	1.5	2.3	2.5	1.5	3.5	5.7	4.0	4.3	4.0	3.2	2.6	4.4	2.9
<i>Chondracanthus corymbiferus</i>		-	-							0.1	<1	+	-		-	<1	-	0.1	+	+	<1	<1	+	<1	<1	-	<1	+
<i>Chrysophyta</i> unid.		-	-							-	-	-	<1		-	+	+	-	+	+	0.3	0.1	<1	+	-	0.2	<1	0.3
<i>Cladophora</i> spp		<1	+							+	+	+	+		+	<1	+	+	<1	+	+	+	<1	<1	<1	<1	<1	<1
<i>Colpomenia</i> spp		-	-							-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Corallina officinalis</i>		0.3	0.7							<1	<1	<1	-		-	+	+	0.1	<1	+	0.1	0.1	+	0.1	-	0.2	<1	-
<i>Corallina vancouveriensis</i>		12.5	16.7							14.9	6.3	8.4	7.5		9.2	9.5	6.4	8.6	10.1	9.3	9.6	12.0	11.2	12.6	14.1	14.0	7.8	12.4
<i>Cryptopleura ruprechtiana</i>		-	0.1							0.1	+	+	-		-	-	<1	+	-	-	0.1	0.1	-	-	-	-	-	<1
<i>Cryptopleura violacea</i>		6.9	4.3							3.6	4.3	4.0	3.8		1.7	3.4	3.0	7.8	3.2	3.0	4.9	5.0	3.2	1.7	0.9	3.2	6.8	4.7
<i>Cryptosiphonia woodii</i>		0.2	1.3							0.7	0.5	0.5	0.4		<1	0.7	0.5	0.4	0.3	<1	<1	0.3	<1	<1	0.2	<1	0.3	<1
<i>Dictyonema californicum</i>		-	-							-	-	-	-		-	-	-	-	-	-	-	-	<1	-	-	-	-	-
<i>Egregia menziesii</i>		-	-							4.0	5.1	0.1	-		-	-	0.6	0.4	4.0	10.5	6.6	8.1	9.8	6.1	12.6	13.1	5.4	2.5
<i>Endocladia muricata</i>		10.9	7.4							10.0	11.0	8.4	12.2		7.8	10.4	10.1	11.3	10.9	10.3	9.3	9.1	9.3	6.6	3.7	5.2	6.6	5.8
<i>Ervithrophyllum delesserioides</i>		-	<1							+	-	-	-		-	-	-	-	+	+	-	-	-	-	-	-	-	-
<i>Farlowia/Pikea</i> spp.-complex		-	-							-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	<1	-	+
<i>Gastroclonium subarticulatum</i>		5.9	6.4							4.7	3.5	4.8	4.2		3.6	3.9	4.4	7.1	8.6	4.5	7.8	7.3	6.1	4.3	3.4	1.8	4.6	2.5
<i>Gelidium coulteri</i>		11.5	6.0							13.2	19.8	9.3	13.5		7.8	10.7	10.3	8.7	8.9	10.2	13.6	9.9	10.3	10.6	8.3	6.3	7.5	4.0
<i>Gelidium pusillum</i>		-	0.2							0.3	+	<1	<1		<1	+	0.6	0.2	0.2	+	<1	0.1	0.3	<1	+	+	<1	<1
<i>Gelidium robustum</i>		-	-							-	-	-	-		-	-	-	-	-	-	+	-	-	-	-	-	-	-
<i>Halicystis ovalis</i> (=Derbesia marina)		-	-							-	-	-	-		-	-	-	-	-	-	+	-	-	-	-	-	-	-
<i>Halymenia/Schizymenia</i> spp.-complex		-	-							-	<1	+	+		-	<1	<1	0.1	<1	-	+	0.1	-	+	-	-	-	-
<i>Hymenena</i> spp.		-	<1							-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Laminaria setchellii</i>		-	-							-	-	-	-		-	-	-	-	-	+	<1	0.1	+	<1	<1	-	<1	-
<i>Laminariales</i>		-	-							-	-	-	-		-	-	-	-	-	+	<1	+	-	-	-	-	-	-
<i>Mastocarpus Jardini</i>		1.9	0.7							0.9	1.0	0.5	0.8		0.5	0.7	0.9	0.9	0.6	0.7	0.6	0.9	0.5	0.4	0.5	0.9	1.8	1.6
<i>Mastocarpus papillatus</i>		6.4	5.6							11.7	6.4	4.2	6.8		2.6	7.7	7.6	5.0	4.5	4.2	3.7	4.4	4.6	4.1	1.6	4.0	3.5	3.6
<i>Mazzaella affinis</i>		1.0	1.0							1.9	1.6	0.9	2.2		0.6	1.3	1.1	1.0	0.8	1.3	0.9	0.8	0.9	0.7	0.9	1.1	1.5	1.0
<i>Mazzaella flaccida</i>		19.1	10.5							23.4	19.0	13.5	21.0		6.5	11.5	14.5	10.3	4.9	5.6	7.3	9.5	7.9	5.3	3.9	7.3	11.2	11.6
<i>Mazzaella heterocarpa</i>		1.0	1.1							1.9	1.4	1.4	0.6		0.2	1.2	1.5	0.8	0.5	0.4	0.3	0.9	0.4	0.3	0.3	0.6	1.0	0.4
<i>Mazzaella leptorhynchus</i>		<1	<1							0.5	0.4	0.2	<1		+	<1	<1	<1	0.2	<1	<1	<1	0.1	<1	<1	0.4	<1	+
<i>Mazzaella lilacina</i>		<1	0.9							1.2	0.7	0.3	1.1		-	<1	<1	0.1	0.2	<1	<1	0.6	0.4	0.1	0.4	0.3	-	<1
<i>Mazzaella linearis</i>		-	-							-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	<1
<i>Melobesia mediocris</i>		-	-							+	+	+	-		-	-	+	+	+	+	+	+	<1	+	+	+	+	+
<i>Microcladia borealis</i>		0.6	0.1							0.1	<1	<1	-		+	<1	<1	<1	-	<1	<1	0.1	0.5	<1	<1	<1	0.2	-
<i>Microcladia coulteri</i>		0.5	+							-	<1	+	-		-	0.1	<1	0.2	<1	<1	-	+	<1	<1	<1	<1	0.2	-
<i>Nereocystis luetkeana</i>		-	-							-	-	-	-		-	-	-	-	-	-	+	-	0.3	-	<1	-	-	-
Non-coraline crust		20.1	24.3							22.3	14.6	29.1	18.1		32.6	26.7	26.5	24.7	21.6	22.6	21.0	16.3	21.3	19.8	14.5	21.1	20.1	21.4
<i>Osmundea</i> spp		<1	-							<1	0.2	<1	+		+	<1	<1	<1	<1	<1	0.2	0.2	<1	<1	<1	<1	0.1	<1
<i>Pelvetia compressa</i>		-	-							-	-	-	-		-	-	-	-	-	-	0.4	-	-	-	<1	-	-	-
<i>Phyllospadix</i> spp		1.0	1.0							2.2	3.6	3.1	2.8		3.9	3.3	2.8	4.3	6.6	7.0	8.3	9.3	6.4	6.9	7.1	8.4	5.5	4.3
<i>Plocamium violaceum</i>		<1	-							-	-	-	-		-	-	-	+	<1	-	-	-	<1	-	-	-	-	-
<i>Porphyra</i> spp		<1	0.5							1.5	0.3	0.2	0.9		-	0.2	0.2	<1	1.2	1.4	1.5	0.4	2.5	0.1	0.4	0.6	0.8	0.1
<i>Prionitis</i> spp		1.0	1.6							1.7	1.1	1.6	1.7		1.0	1.2	1.3	1.6	1.5	1.7	1.9	2.2	1.5	2.8	2.4	1.5	2.5	1.6
<i>Rhodymenia</i> spp.		-	-							-	-	-	-		-	-	-	-	-	-	-	+	-	-	-	-	-	-
<i>Sarcodictyon gaudichaudii</i>		<1	+							-	<1	<1	-		-	<1	+	<1	0.1	<1	<1	+	0.1	+	-	<1	-	-
<i>Smithora naiadum</i>		-	-							+	0.5	+	0.4		-	0.4	0.2	0.7	+	<1	-	<1	<1	+	+	+	0.4	-
Spongomorpha/Acrosiphonia-complex		-	-							+	+	<1	+		-	<1	-	<1	+	<1	0.2	0.6	0.7	<1	0.2	0.3	0.2	0.2
<i>Ulva/Enteromorpha</i> spp		+	-							+	+	+	+		-	+	-	<1	+	0.1	<1	<1	0.5	0.6	0.3	0.6	0.9	0.3
coralline crust		5.2	7.7							8.6	8.0	11.5	6.6		9.0	8.3	6.9	7.6	10.2	10.1	7.6	6.7	7.6	7.4	8.4	7.0	6.3	6.4
filamentous red algae-complex		<1	0.2							0.3	<1	+	-		-	+	<1	+	<1	<1	0.2	0.2	+	+	0.2	0.1	+	+
juv articulated coralline algae		-	-							0.2	0.7	0.9	-		0.3	1.0	0.5	1.5	1.3	1.2	0.9	1.2	1.9	1.8	1.3	1.6	1.8	1.4

ns = not sampled, <1 = measured but in low abundance, + = only recorded as present

Horizontal Band Transects - Yearly Algal Mean Cover (per 1m squared) Field's Cove Station FC 2 at +0.9m

[illegible]

Horizontal Band Transects - Yearly Algal Mean Cover (per 1m squared) Field's Cove Station FC 3 at +0.3m

[illegible]

ns = not sampled, < 1 = measured but in low abundance, + = only recorded as present

(continued)

Horizontal Band Transects - Yearly Algal Mean Cover (per 1m squared) Field's Cove Station FC 3 at +0.3m (continued)

Taxon	Year # Surveys/Year	1976 4	1977 5	1978 6	1979 6	1980 6	1981 6	1982 6	1983 6	1984 6	1985 6	1986 6	1987 6	1988 4	1989 4	1990 4	1991 4	1992 4	1993 4	1994 4	1995 4	1996 4	1997 4	1998 4	1999 4	2000 4	2001 4	2002 2
% COVERAGE																												
<i>Rosenvingea floridana</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
<i>Sarcodiatheca gaudichaudii</i>		<1	<1	02	<1	<1	<1	<1	<1	<1	+	<1	01	<1	+	-	-	+	<1	<1	<1	<1	01	<1	03	<1	<1	-
<i>Scytosiphon</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	-	-	-	-	-	-	-
<i>Smithora naiadum</i>		<1	-	+	05	03	04	02	<1	<1	02	02	04	<1	04	03	04	11	+	07	<1	18	10	<1	02	+	1.1	+
Spongomorpha/Acrosiphonia-complex		-	-	-	+	<1	<1	-	+	+	<1	+	+	<1	<1	+	-	+	02	02	18	02	+	-	02	10	05	09
<i>Ulva/Enteromorpha</i> spp		-	+	+	+	-	+	+	<1	+	02	<1	+	58	67	47	51	48	77	74	68	56	52	66	42	58	46	64
coralline crust		8.3	50	63	61	80	85	71	78	72	93	88	65	58	67	47	51	48	77	74	68	56	52	66	42	58	46	64
filamentous red algae complex		06	<1	+	<1	-	<1	<1	01	02	<1	<1	01	+	<1	-	-	-	+	<1	08	04	04	02	04	03	04	04
juv. articulated coralline algae		-	14	04	05	1.1	05	03	03	02	06	02	05	<1	06	05	05	06	09	10	08	05	14	11	15	21	06	09

ns = not sampled, <1 = measured but in low abundance; + = only recorded as present

Horizontal Band Transects - Yearly Algal Mean Cover (per 1m squared) Field's Cove Station FC 3 at +0.9m

Taxon	Year # Surveys/Year	1976 4	1977 3	1978 6	1979 6	1980 6	1981 6	1982 6	1983 6	1984 6	1985 6	1986 6	1987 6	1988 4	1989 4	1990 4	1991 4	1992 4	1993 4	1994 4	1995 4	1996 4	1997 4	1998 4	1999 4	2000 4	2001 4	2002 2
% Coverage																												
<i>Ahnfeltiopsis leptophylla</i>	-	-	-	-	-	+	+	+	-	-	-	-	-	-	+	-	-	-	+	+	-	-	-	-	-	-	-	-
<i>Analipus japonicus</i>	-	-	-	-	-	+	+	+	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Calliarthron/Boselliella</i> spp -complex	0.4	0.8	0.2	0.3	0.7	0.3	0.4	0.6	0.3	0.3	0.1	0.2	0.1	0.3	0.2	<1	0.1	0.4	<1	<1	0.2	<1	<1	<1	<1	0.5	<1	0.7
<i>Callithamnion pikeanum</i>	-	<1	+	-	+	<1	+	+	<1	+	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Callithamnion</i> spp./Pleonosporium spp	-	-	<1	-	-	-	-	-	+	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
<i>Chondracanthus canaliculatus</i>	1.2	0.5	0.2	0.3	0.3	0.5	0.4	0.9	1.1	0.2	<1	<1	<1	+	<1	0.1	0.2	<1	0.2	<1	<1	<1	0.2	<1	+	0.3	0.3	0.1
<i>Cladophora</i> spp	0.2	<1	+	0.1	<1	<1	<1	<1	0.2	0.3	<1	0.3	0.4	0.2	0.2	<1	0.3	<1	0.1	<1	0.2	0.5	0.1	0.6	0.5	1.0	0.2	-
<i>Codium seichellii</i> (prostrate)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
<i>Colpomenia</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	+	-
<i>Corallina officinalis</i>	<1	-	<1	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Corallina vancouveriensis</i>	0.1	<1	0.3	0.4	0.6	0.7	0.4	0.8	0.9	0.6	0.8	0.9	0.6	0.2	0.3	0.2	0.3	0.3	0.3	0.6	0.9	0.9	0.9	0.7	0.4	0.8	0.7	0.3
<i>Cryptopleura violacea</i>	-	-	<1	-	-	-	+	<1	-	+	-	-	+	-	-	+	+	+	-	-	-	-	-	-	-	+	<1	-
<i>Cryptosiphonia woodii</i>	1.5	0.9	0.7	0.6	0.1	0.2	0.1	0.2	0.2	0.4	0.2	0.4	0.3	0.2	<1	0.1	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.1	0.3	<1	0.2	<1
<i>Egregia menziesii</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	-	-	-	-	-	-	-	-
<i>Endocladia muricata</i>	20.8	22.4	22.1	25.8	28.7	26.5	30.0	27.4	28.3	32.4	30.5	31.1	32.6	32.2	31.2	31.1	35.1	32.3	29.3	28.2	35.1	31.2	29.9	34.8	38.2	30.6	40.5	-
<i>Farlowia/Pilea</i> spp -complex	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	+	-	-	-	-	-	-	-	-
Fucales unid.	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
<i>Fucus gardneri</i>	-	-	<1	+	<1	<1	<1	-	+	<1	+	-	-	-	-	+	<1	-	-	-	-	-	+	-	-	0.2	<1	0.2
<i>Gastroleclonium subarticulatum</i>	<1	-	-	+	<1	+	+	+	<1	<1	+	<1	-	<1	+	+	+	+	<1	-	-	-	<1	-	+	<1	+	-
<i>Gelidium coulteri</i>	5.3	2.3	3.5	4.5	2.9	3.7	4.3	4.7	5.8	4.6	2.9	1.3	1.5	1.8	1.6	1.6	1.9	1.6	2.0	2.0	1.2	1.3	2.0	1.5	1.0	2.4	0.4	
<i>Gelidium pusillum</i>	2.0	3.3	0.9	0.6	0.9	1.5	1.1	1.7	2.5	0.7	0.5	0.3	0.3	0.3	0.5	0.3	0.6	0.9	0.7	1.2	0.8	1.3	0.5	0.4	0.2	0.2	0.6	-
<i>Gymnogongrus chiton</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
<i>Halosaccion americanum</i>	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Halymenia/Schizymenia</i> spp -complex	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Hesperophycus californicus</i>	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	+	<1	-	-	-	<1	<1	<1	0.1	0.1	-
<i>Mastocarpus jardinii</i>	0.4	0.4	0.9	0.4	0.4	0.4	0.4	0.4	0.3	<1	<1	+	0.1	<1	<1	<1	<1	<1	0.1	0.3	0.2	0.2	<1	<1	<1	0.2	1.8	1.0
<i>Mastocarpus papillatus</i>	31.3	33.3	35.8	36.4	34.8	30.7	33.3	31.5	37.4	33.2	31.0	27.8	27.2	28.5	31.4	29.4	27.4	30.1	36.1	37.4	33.4	31.6	33.0	23.9	19.6	26.4	23.5	-
<i>Mazzaella affinis</i>	0.4	0.4	0.5	0.8	0.2	0.5	0.5	0.5	0.8	0.4	0.2	0.4	0.4	0.2	<1	0.2	0.2	0.2	0.2	0.3	0.5	0.6	0.8	0.5	1.3	2.2	2.2	-
<i>Mazzaella flaccida</i>	16.5	13.0	10.7	12.2	12.1	12.5	10.8	6.4	6.7	6.1	4.9	4.8	2.9	2.5	4.5	5.1	4.2	3.4	6.0	6.0	4.2	4.1	2.5	3.3	2.0	4.1	3.3	-
<i>Mazzaella heterocarpa</i>	0.3	0.2	0.1	0.5	0.4	0.4	0.2	0.3	0.2	0.3	0.1	0.2	0.2	0.3	<1	0.6	0.3	0.6	0.6	0.6	0.4	0.2	0.4	0.6	0.2	0.9	0.7	-
<i>Mazzaella leptorhynchus</i>	+	<1	<1	<1	<1	<1	+	<1	<1	0.1	<1	<1	<1	<1	<1	<1	0.1	0.1	<1	0.2	<1	<1	<1	0.2	<1	0.3	0.2	<1
<i>Mazzaella lilacina</i>	-	-	-	-	-	-	-	-	-	-	-	0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-coraline crust	24.0	16.3	17.9	17.6	22.3	23.8	20.6	23.5	18.0	20.5	22.1	21.4	20.6	21.7	25.2	21.9	20.4	18.9	23.7	22.4	20.0	23.2	20.7	16.0	13.9	17.0	15.5	-
<i>Osmundea</i> spp	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Pelvetia compressa</i>	6.1	3.1	2.1	1.2	0.5	0.5	1.2	0.4	<1	0.3	0.4	0.9	0.9	0.7	0.9	1.8	2.4	2.1	3.5	2.7	2.0	1.3	1.5	1.0	0.3	2.2	0.5	-
<i>Phyllospadix</i> spp	-	-	+	+	<1	+	-	+	-	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-
<i>Porphyra</i> spp.	0.2	2.1	<1	0.2	0.2	0.1	<1	<1	0.2	0.4	0.1	0.1	0.2	0.1	0.2	0.2	<1	0.2	0.1	0.4	0.1	0.2	<1	<1	0.1	0.2	0.3	<1
<i>Prionitis</i> spp.	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.1	<1	0.2	0.4	0.2	0.2	0.3	0.1	0.2	0.2	0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.2
<i>Pterodiplodia dendroidea</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	<1	-	-	-	-	-	-	-	-	-
<i>Rhodophyta</i> (juv. blades)	-	-	-	-	-	-	-	-	-	-	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Sarcodiotheca gaudichaudii</i>	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
Spongomorpha/Acrosiphonia-complex	-	-	+	<1	<1	<1	-	<1	+	<1	<1	<1	<1	0.1	<1	0.2	<1	<1	<1	-	-	-	-	-	-	<1	<1	-
<i>Ulva/Enteromorpha</i> spp.	-	-	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	0.6	+
coralline crust	2.8	2.6	3.1	2.9	3.2	2.8	3.0	4.1	1.9	1.9	2.6	2.6	2.0	2.3	1.9	1.6	1.6	1.8	2.2	2.2	1.5	1.3	1.2	1.3	1.5	1.6	1.0	-
filamentous red algae complex	-	<1	-	-	-	-	-	-	<1	+	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	+	+	-
juv articulated coralline algae	-	<1	+	<1	<1	+	+	<1	+	<1	0.1	+	<1	<1	<1	<1	+	0.2	<1	<1	+	<1	<1	+	+	<1	<1	0.1

ns = not sampled, < 1 = measured but in low abundance, + = only recorded as present

Horizontal Band Transects - Yearly Algal Mean Cover (per 1m squared) North Diablo Cove Station NDC 1 at +0.3m

Taxon	Year # Surveys/Year	1976 4	1977 3	1978 ns	1979 ns	1980 ns	1981 ns	1982 5	1983 6	1984 6	1985 6	1986 6	1987 6	1988 ns	1989 1	1990 4	1991 4	1992 4	1993 4	1994 4	1995 2	1996 ns	1997 ns	1998 ns	1999 4	2000 4	2001 4	2002 2
% Coverage																												
<i>Analipus japonicus</i>		-	-	-	-	-	-	-	-	+	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
<i>Bryopsis</i> spp.		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Calliarthron/Bastella</i> spp.-complex		01	<1	-	-	-	-	05	04	01	<1	<1	<1	-	+	+	<1	<1	<1	<1	+	-	-	-	06	<1	+	<1
<i>Callithamnion pikeanum</i>		01	<1	-	-	-	-	01	<1	+	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Callithamnion</i> spp./Pleonospor. spp		-	<1	-	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	-
<i>Chondracanthus canaliculatus</i>		38	33	-	-	-	-	40	31	38	16	01	<1	-	<1	<1	04	14	23	44	23	-	-	-	<1	<1	<1	02
<i>Chondracanthus corymbiferus</i>		-	-	-	-	-	-	-	+	+	+	-	-	-	-	-	-	<1	+	+	-	-	-	-	-	+	-	-
<i>Chrysophyta</i> unid.		-	-	-	-	-	-	<1	<1	+	<1	-	<1	-	-	13	08	+	+	-	14	-	-	02	-	+	+	+
<i>Cladophora</i> spp.		<1	<1	-	-	-	-	+	+	+	+	+	+	-	+	+	+	+	+	+	<1	-	-	+	+	+	+	+
<i>Codium seichei</i> (prostrate)		24	19	-	-	-	-	18	19	17	13	04	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Colpomenia</i> spp.		-	-	-	-	-	-	-	+	+	-	-	-	-	-	-	+	+	+	+	-	-	-	<1	+	-	-	-
<i>Corallina officinalis</i>		04	03	-	-	-	-	+	+	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Corallina vancouverensis</i>		13	24	-	-	-	-	16	06	04	05	02	<1	-	+	<1	<1	<1	+	<1	02	-	-	10	13	05	03	
<i>Cryptopleura violacea</i>		08	03	-	-	-	-	25	05	02	01	+	02	-	-	+	<1	02	<1	<1	+	-	-	-	-	-	-	-
<i>Cryptosiphonia woodii</i>		-	+	-	-	-	-	<1	+	+	+	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
<i>Cumagloia andersonii</i>		-	-	-	-	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Egregia menziesii</i>		-	-	-	-	-	-	<1	-	04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Endocladia muricata</i>		<1	+	-	-	-	-	03	10	10	16	04	06	-	-	-	-	-	-	-	-	-	-	+	+	-	-	-
<i>Farlowia/Pilea</i> spp.-complex		-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-
<i>Fucus gardneri</i>		-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Gastroclonium subarticulatum</i>		42	54	-	-	-	-	35	37	33	31	07	09	-	-	+	04	20	50	73	55	-	-	<1	+	<1	01	
<i>Gelidium coulteri</i>		07	10	-	-	-	-	17	09	11	14	11	07	-	<1	03	04	06	25	40	07	-	-	02	03	18	01	
<i>Gelidium pusillum</i>		16	19	-	-	-	-	23	31	32	13	05	02	-	+	01	01	05	10	12	10	-	-	<1	+	+	+	
<i>Gelidium robustum</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
<i>Grateloupia doryphora</i>		-	-	-	-	-	-	-	-	+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Halosaccion americanum</i>		<1	+	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Halymenia/Schizymenia</i> spp.-complex		-	<1	-	-	-	-	<1	-	<1	-	<1	-	-	-	-	<1	06	03	<1	-	-	-	-	<1	-	-	-
<i>Hesperophycus californicus</i>		-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Macrocystis</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Mastocarpus jardini</i>		86	53	-	-	-	-	67	48	40	24	15	07	-	<1	<1	03	05	07	07	03	-	-	<1	+	+	-	-
<i>Mastocarpus papillatus</i>		123	177	-	-	-	-	119	146	256	182	236	234	-	76	217	395	410	297	199	78	-	-	16	04	33	17	
<i>Mazzaella affinis</i>		04	07	-	-	-	-	13	17	18	17	13	05	-	05	<1	05	11	14	38	19	-	-	02	<1	04	02	
<i>Mazzaella flaccida</i>		399	325	-	-	-	-	468	243	205	107	24	11	-	-	+	<1	<1	+	-	-	-	-	-	-	-	-	-
<i>Mazzaella heterocarpa</i>		08	04	-	-	-	-	15	08	10	08	10	09	-	<1	03	02	01	03	04	+	-	-	01	+	<1	-	
<i>Mazzaella leptorhynchus</i>		<1	<1	-	-	-	-	+	<1	01	02	02	06	-	01	01	<1	<1	02	<1	<1	-	-	+	<1	<1	+	
<i>Mazzaella lilacina</i>		-	-	-	-	-	-	<1	-	+	02	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Microcladia borealis</i>		<1	+	-	-	-	-	<1	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Microcladia coulteri</i>		02	<1	-	-	-	-	01	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-coraline crust		168	233	-	-	-	-	203	213	200	254	290	324	-	481	354	380	333	292	371	436	-	-	308	184	319	247	
<i>Osmundea</i> spp.		02	<1	-	-	-	-	<1	<1	01	<1	-	-	-	-	+	02	01	<1	+	+	-	-	-	-	+	-	-
<i>Pelvetia compressa</i>		-	-	-	-	-	-	-	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Phyllospadix</i> spp.		-	+	-	-	-	-	+	<1	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Plocamium violaceum</i>		<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Polymeura latissima</i>		-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Porphyra</i> spp.		<1	<1	-	-	-	-	<1	23	22	14	02	+	-	-	<1	<1	03	07	+	+	-	-	-	-	-	-	-
<i>Prionitis</i> spp.		<1	<1	-	-	-	-	-	<1	+	<1	<1	<1	-	01	-	<1	03	03	04	01	-	-	-	<1	<1	<1	
<i>Pterosiphonia dendroidea</i>		-	-	-	-	-	-	-	-	-	+	<1	-	-	-	-	-	-	+	-	-	-	-	+	-	+	-	-
<i>Rhodophyta</i> (juv blades)		-	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Sarcodiotheca gaudichaudii</i>		<1	-	-	-	-	-	-	-	+	-	-	-	-	-	-	<1	<1	+	+	-	-	-	-	+	-	-	-
<i>Smithora naiadum</i>		-	-	-	-	-	-	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Spongomorpha/Acrosiphonia</i> -complex		-	+	-	-	-	-	+	+	+	+	+	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-	-
<i>Ulva/Enteromorpha</i> spp		04	<1	-	-	-	-	13	13	05	01	+	+	-	-	03	08	37	44	<1	+	-	-	01	-	+	-	-
coralline crust		74	71	-	-	-	-	89	94	81	116	86	58	-	27	22	19	16	29	59	36	-	-	25	28	28	32	
filamentous red algae-complex		<1	+	-	-	-	-	<1	+	+	-	-	-	-	-	+	<1	04	22	37	10	-	-	<1	+	<1	02	
juv articulated coralline algae		-	<1	-	-	-	-	03	<1	02	04	02	<1	-	<1	+	<1	<1	<1	02	01	-	-	04	04	03	12	

ns = not sampled, <1 = measured but in low abundance; + = only recorded as present

Horizontal Band Transects - Yearly Algal Mean Cover (per 1m squared) North Diablo Cove Station NDC 1 at +0.9m

Taxon	Year # Surveys/Year	1976 4	1977 3	1978 ns	1979 ns	1980 ns	1981 ns	1982 5	1983 6	1984 6	1985 6	1986 6	1987 6	1988 ns	1989 1	1990 4	1991 4	1992 4	1993 4	1994 4	1995 2	1996 ns	1997 ns	1998 ns	1999 4	2000 4	2001 4	2002 2
% Coverage																												
<i>Anelopus japonicus</i>		<1	-					<1	+	+	+	<1	+		-	-	-	-	-	-	-				-	-	-	-
<i>Bryopsis</i> spp		-	-					-	-	-	-	+	+		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Calliarthron/Bossiella</i> spp -complex		+	-					<1	<1	<1	<1	<1	+		-	-	-	-	-	+	+			+	-	-	-	-
<i>Callithamnion pikeanum</i>		<1	<1					+	+	+	+	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Callithamnion</i> spp/ <i>Pleonosporium</i> spp		-	-					-	+	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Chondracanthus canaliculatus</i>		17	16					05	10	22	04	01	<1		+	+	+	03	04	03	0.1			<1	<1	<1	-	-
<i>Chondracanthus corymbiferus</i>		-	-					-	-	-	-	-	+		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Chondria decipiens</i>		-	-					-	+	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Chrysophyta</i> unid.		-	-					-	02	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Cladophora</i> spp		+	+					+	+	+	<1	<1	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Corallina officinalis</i>		+	01					-	+	-	-	-	-		-	-	-	+	-	-	-	-	-	-	-	-	-	-
<i>Corallina vancouveriensis</i>		01	<1					06	06	02	02	02	02		<1	<1	<1	+	+	<1	<1			<1	<1	<1	-	-
<i>Cryptopleura violacea</i>		-	+					+	<1	+	-	-	+		-	-	-	-	-	<1	-	-	-	-	-	-	-	-
<i>Cryptosiphonia woodii</i>		-	-					<1	<1	<1	<1	+	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Cumagloia andersonii</i>		-	-					-	+	<1	<1	+	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Egria menziesii</i>		-	01					-	-	<1	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Endocladia muricata</i>		4.7	57					96	50	33	33	28	18		16	20	18	2.5	32	32	31			50	50	55	55	-
<i>Fucaceae</i> unid.		-	-					+	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Fucus gardneri</i>		01	<1					02	01	01	07	05	<1		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Gastroclonium subarticulatum</i>		05	04					06	03	02	<1	<1	<1		-	-	+	+	<1	+	<1			<1	+	<1	-	-
<i>Gelidium coulteri</i>		15	05					13	27	20	12	04	04		<1	02	05	03	05	06	02			<1	<1	<1	-	-
<i>Gelidium pusillum</i>		12	13					08	10	18	09	03	<1		+	+	<1	05	10	05	02			+	<1	+	+	-
<i>Grateloupia doryphora</i>		-	-					-	-	-	-	-	-		-	-	+	-	-	-	-	-	-	-	-	+	-	-
<i>Halosaccion americanum</i>		+	-					+	+	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Halymenia/Schizymenia</i> spp -complex		-	-					-	-	-	-	-	-		-	-	-	-	-	+	-	-	-	-	-	-	-	-
<i>Mastocarpus jardunii</i>		44	28					53	15	11	06	<1	<1		+	+	-	+	<1	01	02			<1	+	-	-	-
<i>Mastocarpus papillatus</i>		32.7	27.9					31.3	21.4	26.4	13.5	13.3	7.5		08	33	74	16.2	19.3	18.5	14.5			38	15	13	10	-
<i>Mazzaella affinis</i>		16	17					2.5	34	35	13	05	<1		+	+	<1	02	05	07	09			01	01	<1	+	-
<i>Mazzaella flaccida</i>		20.2	12.5					16.3	9.2	6.2	18	09	01		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Mazzaella heterocarpa</i>		06	03					08	04	03	01	<1	<1		-	-	<1	-	+	<1	-	-	-	+	-	-	-	-
<i>Mazzaella leptorhynchus</i>		02	+					+	01	04	02	01	<1		+	+	<1	02	03	06	03			<1	<1	<1	<1	-
<i>Mazzaella lilacina</i>		-	<1					-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Microcladia coulteri</i>		02	-					-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Non-coralline crust</i>		21.0	29.0					27.5	22.6	18.4	26.2	32.7	32.8		29.9	29.4	27.3	30.4	31.3	33.3	34.3			34.1	26.6	38.5	45	-
<i>Pelvetia compressa</i>		19	23					03	09	16	23	29	23		23	23	20	07	01	<1	-	-	-	-	-	-	-	-
<i>Phyllospadix</i> spp.		-	-					-	-	-	+	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Porphyra</i> spp.		-	03					01	08	31	07	<1	<1		+	-	+	+	01	<1	<1			-	-	-	-	-
<i>Prionitis</i> spp.		0.3	-					-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Pterosiphonia dendroidea</i>		-	-					+	-	-	-	-	-		-	-	-	-	-	-	-	-	-	+	-	+	-	-
<i>Rhodophyta</i> (juv. blades)		-	-					-	<1	-	+	-	+		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Scinaia confusa</i>		-	-					-	-	-	-	-	-		-	-	-	-	-	<1	-	-	-	-	-	-	-	-
<i>Scytosiphon</i> spp		-	-					-	<1	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Spongomorpha/Acrosiphonia</i> -complex		-	-					-	+	+	+	<1	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Ulva/Enteromorpha</i> spp		<1	-					<1	+	<1	+	<1	+		-	-	+	0.6	0.1	+	-	-	-	+	-	<1	-	-
coralline crust		3.7	3.6					3.6	6.5	3.6	4.7	3.3	2.5		0.5	0.8	0.8	0.9	0.8	0.7	1.1			1.1	0.9	0.4	0.8	-
filamentous red algae-complex		<1	<1					-	-	+	-	+	+		-	-	-	0.1	<1	+	-	-	-	-	-	<1	-	-
juv articulated coralline algae		-	<1					<1	<1	<1	<1	+	<1		+	<1	+	<1	<1	+	+			+	<1	+	<1	-

ns = not sampled, <1 = measured but in low abundance, + = only recorded as present

Horizontal Band Transects - Yearly Algal Mean Cover (per 1m squared) North Diablo Cove Station NDC 2 at +0.3m

[illegible]

ns = not sampled; < 1 = measured but in low abundance, + = only recorded as present

(continued)

Horizontal Band Transects - Yearly Algal Mean Cover (per 1m squared) North Diablo Cove Station NDC 2 at +0.3m (continued)

Taxon	Year # Surveys/Year	1976 4	1977 6	1978 6	1979 6	1980 6	1981 6	1982 5	1983 6	1984 6	1985 6	1986 5	1987 6	1988 ns	1989 1	1990 4	1991 4	1992 4	1993 4	1994 4	1995 3	1996 2	1997 2	1998 2	1999 4	2000 4	2001 4	2002 2
% Coverage																												
Non-coraline crust		13.7	12.9	9.7	9.7	13.6	13.9	12.8	18.1	17.7	18.2	29.5	36.5		42.7	28.0	20.7	18.2	12.8	11.3	23.5	15.9	15.5	21.3	12.6	23.6	21.9	22.4
<i>Opuntella californica</i>		+		<1																								
<i>Osmundea</i> spp.		0.2	0.2	0.3	<1	0.1	0.3	<1	0.2	0.2	0.2	0.1	0.1		0.3	0.2	0.6	0.7	0.6	0.2	0.3	0.5	0.2	+	0.1	<1	<1	<1
<i>Pelvetia compressa</i>		-	-	-	-	-	-	-	-	-	+	-	<1		-	-	-	-	-	-	-	-	-	-	<1	-	-	-
Phaeophyta (juv.)		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	<1	-	-	-	-	-	-
<i>Phyllospadix</i> spp.		13.1	11.3	23.1	22.3	27.7	24.8	17.4	11.6	14.7	15.8	11.4	13.5		5.6	6.2	6.5	8.3	10.5	6.2	9.1	13.3	13.4	15.2	21.3	18.0	20.9	17.5
<i>Plocamium violaceum</i>		<1	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Porphyr</i> spp.		1.3	4.0	0.9	1.5	1.8	2.6	2.4	11.4	4.3	2.5	0.3	+		-	<1	0.6	0.2	<1	<1	+	-	<1	-	<1	-	-	<1
<i>Prionitis</i> spp.		0.8	1.0	2.3	1.3	1.2	0.8	0.8	1.9	0.9	0.8	0.7	0.5		1.7	1.4	0.8	2.3	3.3	3.3	1.1	3.4	2.6	3.2	4.2	2.4	1.0	0.7
<i>Pterosiphonia dendroidea</i>		<1	0.1	<1	<1	<1	0.2	<1	0.2	0.6	0.2	<1	0.2		+	+	0.2	0.5	0.8	1.0	2.7	1.5	<1	5.2	2.6	1.8	4.5	5.8
Rhodophyta (juv. blades)		-	-	+	-	-	<1	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Sarcodictyon gaudichaudii</i>		<1	<1	0.3	<1	<1	+	+	<1	0.1	<1	+	+		+	<1	0.5	0.5	0.6	0.4	0.2	0.6	0.5	+	<1	<1	<1	-
<i>Sargassum muticum</i>		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	<1	<1	-
<i>Scinaia confusa</i>		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	<1	-	-	-	-
<i>Scytosiphon</i> spp.		-	-	-	-	-	-	-	-	-	+	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Smithora naiadum</i>		-	<1	2.7	7.0	4.9	5.5	2.4	0.3	0.3	1.0	+	0.2		-	+	-	+	+	<1	-	-	+	+	+	0.9	<1	+
<i>Soranthra ulvoidea</i>		-	-	-	-	-	-	-	-	+	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Spongomorpha/Acrosiphonia</i> - complex		0.6	0.6	0.2	0.5	0.6	+	+	<1	<1	+	+	+		-	<1	-	-	+	+	+	-	-	-	-	+	<1	-
<i>Ulva/Enteromorpha</i> spp.		9.3	10.4	1.9	8.0	2.1	2.6	7.1	1.3	3.6	0.9	<1	+		-	3.7	3.9	4.0	3.5	1.9	2.8	0.7	11.4	0.7	2.0	0.4	1.1	0.2
coralline crust		2.3	5.3	2.9	2.8	4.1	4.3	4.5	10.6	4.6	5.2	5.2	2.9		3.2	2.1	1.1	2.3	2.7	4.9	7.0	3.8	5.0	8.8	5.6	5.3	4.1	4.2
filamentous red algae-complex		2.6	0.7	1.5	2.8	4.8	2.7	2.1	1.2	2.1	3.5	0.2	0.2		<1	3.8	11.7	14.3	11.8	10.5	12.3	18.5	15.0	8.1	16.5	13.3	13.5	16.3
juv articulated coralline algae		-	<1	0.2	0.1	0.5	0.3	0.6	1.2	0.2	0.4	0.8	0.7		0.1	0.3	0.1	0.4	0.2	0.3	0.3	0.4	0.2	1.7	0.9	1.2	0.5	0.4

ns = not sampled, < 1 = measured but in low abundance, + = only recorded as present

Horizontal Band Transects - Yearly Algal Mean Cover (per 1m squared) North Diablo Cove Station NDC 2 at +0.9m

Taxon	Year # Surveys/Year	1976 4	1977 4	1978 6	1979 6	1980 6	1981 6	1982 6	1983 6	1984 6	1985 6	1986 6	1987 6	1988 4	1989 4	1990 4	1991 4	1992 4	1993 4	1994 4	1995 3	1996 2	1997 2	1998 2	1999 4	2000 4	2001 4	2002 2
% Coverage																												
<i>Analphus japonicus</i>		-	-	-	+	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Callithamnion/Boshtella</i> spp -complex		0.2	0.1	0.2	0.3	0.7	0.5	0.3	0.1	<1	0.1	<1	<1	<1	<1	-	-	+	<1	<1	0.2	<1	-	0.2	+	<1	<1	-
<i>Callithamnion pikeanum</i>		<1	<1	+	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Callithamnion</i> spp./Pleonosporium spp		-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Chondracanthus canaliculatus</i>		3.5	1.4	1.5	2.2	1.3	1.5	1.6	1.0	1.1	0.6	<1	+	-	-	-	+	0.1	0.7	1.1	<1	<1	0.2	+	+	<1	<1	
<i>Chrysophyta</i> unid.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Cladophora</i> spp		0.5	<1	<1	0.3	<1	0.1	0.1	<1	0.2	0.2	<1	<1	+	+	+	<1	<1	+	<1	<1	+	+	+	+	+	+	+
<i>Codium setchellii</i> (prostrate)		<1	+	<1	0.1	0.1	0.2	0.2	0.2	0.4	0.2	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Corallina officinalis</i>		0.2	<1	<1	<1	+	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Corallina vancouverensis</i>		1.0	2.6	3.1	3.9	4.8	4.8	3.5	2.6	1.7	1.5	0.8	0.3	<1	<1	<1	<1	1.0	0.5	0.4	0.1	0.2	0.2	0.3	1.2	0.2	0.3	0.3
<i>Cryptopleura violacea</i>		<1	0.1	<1	0.2	0.2	0.4	0.2	0.2	0.1	<1	<1	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Cryptosiphonia woodii</i>		<1	<1	<1	0.1	0.3	0.2	<1	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-
<i>Cumagloia andersonii</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Endocladia muricata</i>		22.4	23.4	23.4	26.6	24.3	27.2	31.3	13.4	20.2	25.4	17.6	22.0	14.8	10.3	10.9	11.9	16.1	15.9	17.9	18.6	18.6	15.2	18.9	16.8	10.4	16.0	17.3
<i>Fucus gardneri</i>		7.9	7.5	4.8	4.2	6.6	6.2	5.2	1.6	0.9	2.5	0.9	+	-	-	-	+	<1	+	<1	<1	<1	<1	+	<1	+	0.2	+
<i>Gastrocylindrium subarticulatum</i>		-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Gelidium coulteri</i>		2.1	3.2	2.5	2.6	2.4	3.5	3.1	2.1	2.7	2.7	0.4	<1	+	<1	<1	1.0	2.0	1.9	3.1	2.5	2.2	1.6	0.3	0.1	0.3	0.1	
<i>Gelidium pusillum</i>		1.3	0.8	0.8	0.6	0.6	1.0	1.1	0.9	1.9	1.0	0.1	<1	+	+	+	0.2	1.0	3.3	2.6	0.6	0.3	0.3	0.4	<1	+	+	+
<i>Grateloupia doryphora</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Halosaccion americanum</i>		<1	-	-	-	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Halymenia/Schizymenia</i> spp -complex		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Hesperophycus californicus</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Mastocarpus jordanii</i>		0.4	0.3	0.2	0.4	0.3	0.2	0.1	<1	0.1	<1	<1	+	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
<i>Mastocarpus papillatus</i>		26.4	28.1	35.7	33.4	32.5	26.4	25.8	21.0	18.8	10.3	7.9	6.1	1.5	0.8	1.3	2.2	4.2	7.1	4.5	5.6	6.5	8.2	2.2	1.7	0.5	1.1	1.8
<i>Mazzaella affinis</i>		2.8	3.2	3.1	3.5	2.3	2.6	3.7	2.0	1.5	0.2	+	+	+	+	+	<1	0.6	2.6	3.0	1.4	0.6	0.6	0.6	0.1	<1	0.2	<1
<i>Mazzaella flaccida</i>		8.3	7.4	7.1	9.7	6.9	6.6	6.8	2.9	2.7	2.1	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Mazzaella heterocarpa</i>		0.1	0.1	0.2	0.3	0.4	0.4	0.2	0.1	<1	<1	<1	<1	+	+	<1	0.4	0.1	0.1	<1	0.2	<1	<1	+	+	+	<1	-
<i>Mazzaella leptorhynchus</i>		0.2	0.3	0.2	0.3	0.2	0.2	0.2	<1	<1	<1	<1	<1	+	+	<1	0.4	0.1	0.1	<1	0.2	<1	<1	+	+	+	<1	-
<i>Mazzaella lilacina</i>		-	-	<1	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Microcladia coulteri</i>		-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-coraline crust		13.1	15.2	13.5	15.0	19.5	19.8	16.6	12.9	13.1	14.5	19.8	15.1	9.6	4.2	2.9	2.7	4.3	5.5	7.0	7.8	11.6	10.3	7.3	3.4	1.9	4.3	4.8
<i>Osmundea</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Pelvetia compressa</i>		4.2	3.8	4.0	4.7	5.5	6.3	7.9	7.2	7.0	6.3	4.2	2.8	1.5	0.6	0.4	0.2	0.4	<1	-	-	-	-	-	-	-	-	-
<i>Phyllospadix</i> spp.		<1	-	+	<1	+	0.1	0.2	<1	<1	<1	<1	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Porphyra</i> spp.		3.8	2.8	1.1	0.8	0.9	0.9	0.4	1.5	6.5	1.0	0.2	<1	+	-	<1	0.2	<1	2.3	0.7	<1	-	<1	3.0	0.1	<1	-	-
<i>Prionitis</i> spp.		<1	<1	<1	0.1	<1	<1	<1	+	<1	+	<1	+	+	-	-	+	-	<1	<1	<1	<1	0.2	+	+	+	<1	+
<i>Pterosiphonia dendroidea</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Rhodophyta</i> (juv. blades)		-	-	+	-	-	-	-	-	+	+	+	+	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+
<i>Spongomorpha/Acrosiphonia</i> - complex		-	+	+	<1	+	<1	<1	<1	<1	<1	+	+	-	-	+	+	2.4	1.1	+	+	-	2.0	+	+	+	<1	-
<i>Ulva/Enteromorpha</i> spp.		0.2	+	<1	<1	+	+	<1	<1	<1	0.2	<1	+	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+
coralline crust		1.7	3.0	3.3	2.9	3.9	4.2	3.3	4.2	2.8	3.5	2.3	0.8	0.6	0.4	0.7	0.6	1.2	0.9	1.6	2.3	1.2	1.2	1.9	1.4	1.1	1.9	2.2
filamentous red algae-complex		0.3	<1	+	<1	<1	+	<1	+	-	-	-	-	-	-	-	-	0.5	0.4	0.2	-	0.1	+	-	<1	<1	0.3	+
juv. articulated coralline algae		-	+	<1	0.1	0.5	0.1	<1	<1	<1	0.1	0.1	<1	<1	<1	<1	<1	<1	0.3	0.2	0.2	0.1	0.3	0.1	0.3	0.3	0.2	0.6

ns = not sampled, <1 = measured but in low abundance; + = only recorded as present

Horizontal Band Transects - Yearly Algal Mean Cover (per 1m squared) North Diablo Cove Station NDC 3 at +0.3m

Taxon	Year		% Coverage																								
	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<i>Bryopsis</i> spp.	25	0.7	16	12	20	27	23	22	22	37	17	23	09	12	03	23	52	69	49	43	42	08	222	44	14	17	2
<i>Calothrix/Boscia</i> spp. - complex	07	0.4	02	01	<1	01	<1	<1	<1	02	<1	+	+	+	+	+	+	+	<1	+	+	+	+	+	+	+	+
<i>Callithamnion pilosum</i>	-	0.4	13	10	05	10	04	04	06	02	<1	+	+	+	+	+	+	+	<1	+	+	+	+	+	+	+	+
<i>Callithamnion</i> spp./Pleurospora spp.	-	0.7	13	11	<1	<1	04	<1	<1	<1	<1	<1	05	24	62	69	81	75	14	16	21	22	19	03	03	<1	
<i>Chondracanthus canaliculatus</i>	13.2	12.5	121	168	183	192	202	193	239	189	47	23	02	05	24	62	69	81	75	14	16	21	22	19	03	03	<1
<i>Chondracanthus coarctatus</i>	-	<1	<1	<1	<1	02	<1	0.2	0.3	02	<1	+	+	06	+	<1	<1	02	<1	56	+	76	68	01	04	+	+
<i>Chroocytis</i> spp.	<1	<1	+	+	+	+	+	+	<1	+	+	+	+	<1	+	+	+	+	+	<1	<1	<1	+	+	+	+	+
<i>Codium fragile</i>	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Codium sticheli</i> (prostrate)	-	+	+	+	<1	01	02	02	04	02	01	<1	<1	+	+	+	+	<1	<1	+	+	+	+	+	+	+	+
<i>Colpomenia</i> spp.	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Colpomenia/Leishenia/Sorathiera</i> spp.	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Corallina officinalis</i>	48	3.3	39	27	41	28	19	28	21	14	02	01	+	<1	+	+	0.7	<1	<1	+	+	+	+	+	+	+	+
<i>Corallina vancouverensis</i>	69	11.6	88	91	111	89	68	83	65	63	80	20	61	12	20	1.1	1.3	48	17	17	09	64	131	74	22	15.5	
<i>Cryptopleura niphetulata</i>	0.1	<1	0.2	0.1	0.2	02	<1	<1	0.3	01	1.7	42	1.7	12	0.7	06	16	12	0.5	<1	+	07	+	03	+	+	+
<i>Cryptopleura violacea</i>	45	7.4	107	7.1	59	87	69	107	92	50	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Cryptosiphonia woodii</i>	<1	<1	<1	<1	<1	<1	<1	<1	01	0.1	+	+	+	+	+	+	+	<1	<1	01	+	+	+	+	+	+	+
<i>Cystoseira osmundacea</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Cystoseira osmundacea</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Derbesia marina</i> (filamentous)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Demarettia</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Egygia menziesii</i>	208	10.5	70	74	54	23	06	<1	20	09	<1	-	-</														

ns = not sampled, < 1 = measured but in low abundance, + = only recorded as present

(continued)

Horizontal Band Transects - Yearly Algal Mean Cover (per 1m squared) North Diablo Cove Station NDC 3 at +0.3m (continued)

Taxon	Year	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
# Surveys/Year		4	5	6	6	5	6	5	4	6	6	5	6	4	4	4	4	4	4	4	3	2	2	-2	4	4	4	2
% Coverage																							04					
Phaeophyta (juv)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phaeostrophon irregularis		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phyllostadii spp.		41	76	153	169	156	132	91	83	117	112	75	73	07	09	10	10	06	05	03	<1	-	-	-	-	-	-	-
Placamilum violaceum		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymeura latissima		-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Porphyra spp		04	54	05	19	12	12	03	06	22	14	03	<1	+	<1	<1	16	+	01	01	+	-	+	+	08	+	+	-
Prionitis spp		14	21	38	41	30	37	26	41	40	31	27	32	37	31	54	59	74	67	31	05	04	26	28	27	09	03	-
Pterocladia caloglossoides		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pterosiphonia dendroidea		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rhodophyta (juv blades)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rhodomenia spp		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sarcodiotheca gaudichaudii		-	<1	02	<1	<1	<1	<1	01	04	04	04	02	02	<1	02	<1	02	03	<1	+	-	+	+	01	<1	-	-
Scinaia confusa		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Scytosiphon spp		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Smithora nalladum		01	-	<1	22	08	13	10	<1	<1	08	<1	+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
Spongomorpha/Acrosiphonia - complex		22	05	<1	17	+	+	01	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ulva/Enteromorpha spp		40	21	03	24	04	<1	05	05	09	03	<1	+	+	05	41	128	92	51	52	18	49	137	<1	<1	02	<1	+
coralline crust		40	41	51	52	69	84	88	80	107	98	128	67	63	45	39	61	78	99	113	105	102	69	122	79	119	70	45
filamentous red algae-complex		1.6	2.4	09	08	12	09	03	04	06	05	<1	<1	-	+	03	31	170	129	140	10	16	178	51	190	37	18	03
juv articulated coralline algae		-	12	01	08	06	07	06	05	05	05	05	15	06	05	05	11	13	20	12	16	21	13	20	30	23	14	21

ns = not sampled, <1 = measured but in low abundance; + = only recorded as present

Horizontal Band Transects - Yearly Algal Mean Cover (per 1m squared) North Diablo Cove Station NDC 3 at +0.9m

[illegible]

(continued)

Horizontal Band Transects - Yearly Algal Mean Cover (per 1m squared) South Diablo Cove Station SDC 1 at +0.3m (continued)

Taxon	Year # Surveys/Year	1976 4	1977 2	1978 ns	1979 ns	1980 ns	1981 ns	1982 4	1983 5	1984 6	1985 6	1986 5	1987 4	1988 4	1989 4	1990 4	1991 4	1992 4	1993 4	1994 4	1995 3	1996 2	1997 2	1998 2	1999 4	2000 4	2001 4	2002 2
% Coverage																												
<i>Polyneura latissima</i>		-	-					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	-
<i>Porphyra</i> spp.		27	18					38	04	13	09	04	01	<1	-	<1	-	-	-	-	-	-	-	-	-	-	-	-
<i>Prionitis</i> spp.		18	57					36	26	23	34	44	81	31	88	97	91	14	19	58	38	31	48	56	05	07	07	-
<i>Pterosiphonia dendroidea</i>		<1	<1					02	07	<1	<1	<1	+	-	-	-	+	0.3	0.4	0.2	0.5	0.7	0.9	21	02	<1	+	-
Rhodophyta (juv. blades)		-	-					-	-	<1	+	<1	<1	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
<i>Sarcoditheca gaudichaudii</i>		0.3	0.9					0.3	<1	+	<1	<1	<1	-	-	+	<1	<1	<1	<1	<1	0.2	0.1	-	-	-	-	-
<i>Sargassum muticum</i>		-	-					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	5.1	40	10
<i>Scytosiphon</i> spp.		-	-					-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Smithora nialadum</i>		<1	-					19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spongomorpha/Acrosiphonia-complex		0.3	1.5					<1	<1	46	+	<1	<1	+	-	-	+	+	+	-	1.7	-	-	-	+	-	+	-
<i>Ulva/Enteromorpha</i> spp.		9.0	8.0					39	<1	3.1	1.7	+	-	-	-	56	28	12	1.1	8.7	11.4	15.9	8.0	1.5	1.3	1.8	46	+
coralline crust		24	18					23	2.7	1.7	1.0	2.1	1.6	1.2	2.0	1.3	1.7	2.3	1.2	0.9	1.9	0.7	2.0	3.7	5.3	5.9	8.5	9.2
filamentous red algae-complex		0.2	0.1					0.2	0.3	<1	<1	<1	-	-	-	-	<1	9.7	19.3	12.0	18.2	16.3	5.5	2.8	6.1	15.6	7.9	0.2
juv. articulated coralline algae		-	1.3					0.2	0.2	<1	0.7	0.3	<1	+	<1	<1	<1	<1	0.2	+	<1	+	0.1	+	0.8	1.7	3.7	1.8

ns = not sampled, < 1 = measured but in low abundance, + = only recorded as present

Horizontal Band Transects - Yearly Algal Mean Cover (per 1m squared) South Diablo Cove Station SDC 1 at +0.6m

Taxon	Year # Surveys/Year	1976 4	1977 2	1978 ns	1979 ns	1980 ns	1981 ns	1982 5	1983 6	1984 6	1985 6	1986 5	1987 5	1988 4	1989 4	1990 4	1991 4	1992 4	1993 4	1994 4	1995 3	1996 2	1997 2	1998 2	1999 4	2000 4	2001 4	2002 2
% Coverages																												
<i>Acrosorium uncinatum</i>		-	-					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	-
<i>Ahnfeltopsis leptophylla</i>		-	-					-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	+	-	-	-	-	-
<i>Anallipus japonicus</i>		-	-					-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
<i>Bryopsis</i> spp.		-	<1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Calliarthron/Bossella</i> spp.-complex	2.5	2.8						4.6	1.4	+	0.1	0.3	<1	<1	-	+	+	+	0.1	+	<1	<1	+	0.2	1.6	1.5	1.0	0.5
<i>Callithamnion pikeanum</i>	<1	<1						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	-	-
<i>Chaetomorpha</i> spp.	-	-						-	<1	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Chondracanthus canaliculatus</i>	2.4	3.3						4.0	1.7	<1	0.4	0.3	<1	<1	+	0.4	1.1	4.5	12.5	22.6	13.1	5.1	4.9	10.4	0.1	0.2	<1	+
<i>Chondracanthus corymbiferus</i>	-	-						<1	-	-	-	-	-	-	-	-	<1	+	+	<1	-	-	-	-	-	-	-	-
<i>Chondracanthus harveyanus/spinosus</i>	-	-						-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-
<i>Chondria decipiens</i>	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Chrysophyta</i> unid.	-	-						0.6	<1	0.7	-	<1	<1	-	-	1.6	+	+	+	+	-	-	-	0.8	0.4	+	0.5	+
<i>Cladophora</i> spp.	+	+						<1	+	+	<1	<1	<1	0.2	<1	+	+	+	+	+	+	0.1	+	+	+	+	+	+
<i>Colpomenia</i> spp.	-	-						+	+	+	<1	+	-	-	-	-	-	-	-	-	+	-	-	+	+	+	+	+
<i>Corallina officinalis</i>	-	0.7						<1	<1	-	-	-	-	-	-	-	-	-	-	-	+	+	-	-	+	0.3	+	-
<i>Corallina vancouveriensis</i>	0.8	1.0						1.5	0.3	<1	<1	0.4	0.5	0.2	0.2	<1	<1	0.2	<1	<1	<1	<1	<1	0.2	1.4	1.9	0.5	0.3
<i>Cryptopleura ruprechtiana</i>	-	-						<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Cryptopleura violacea</i>	-	-						0.3	<1	-	0.1	<1	1.4	1.0	0.4	1.1	1.5	5.5	10.2	6.6	3.6	4.1	5.6	3.0	0.1	1.2	1.5	+
<i>Cryptosiphonia woodii</i>	0.1	0.1						0.2	<1	-	<1	+	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-
<i>Cumagloia andersonii</i>	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Egria menziesii</i>	<1	-						<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Endocladia muricata</i>	0.1	0.3						+	<1	+	-	<1	<1	<1	<1	<1	<1	-	+	-	-	-	-	-	-	-	-	<1
<i>Farlowia/Pilea</i> spp.-complex	-	-						-	-	-	+	<1	+	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
<i>Gastroclonium subarticulatum</i>	<1	0.1						0.4	<1	-	+	<1	<1	-	-	<1	0.1	1.5	3.5	8.7	11.6	9.2	6.9	2.8	<1	<1	<1	-
<i>Gelidium coulteri</i>	2.2	2.5						3.2	1.1	+	0.4	0.8	2.7	3.2	3.2	6.3	10.0	15.8	15.0	11.2	7.9	12.5	5.6	13.4	0.7	2.0	2.4	+
<i>Gelidium pusillum</i>	-	<1						0.3	<1	+	+	<1	+	+	0.2	<1	0.2	0.9	1.3	0.7	0.3	+	0.6	0.8	<1	+	<1	<1
<i>Gelidium</i> spp.	-	-						<1	-	<1	0.6	0.1	<1	<1	-	-	-	-	0.1	0.6	3.9	1.2	3.2	-	-	0.5	0.2	<1
<i>Grateloupia doryphora</i>	<1	-						+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Halicystis ovalis (= Derbesia marina)</i>	-	-						+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Halosaccion americanum</i>	0.3	+						0.3	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Halymenia/Schizymenia</i> spp.-complex	0.2	-						<1	+	<1	<1	<1	+	<1	+	<1	<1	<1	0.6	0.4	0.5	+	0.3	1.0	0.5	0.2	0.1	-
<i>Haploglossa andersonii</i>	-	+						+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Laminariales	-	-						+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Macrocystis</i> spp.	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Mastocarpus jardinii</i>	0.3	0.2						0.8	<1	-	-	<1	<1	-	0.2	-	0.5	0.2	0.2	<1	+	<1	-	+	+	+	+	-
<i>Mastocarpus papillatus</i>	13.4	20.7						14.5	2.1	0.7	9.5	10.6	11.0	7.2	15.1	25.2	23.8	19.1	10.6	6.0	3.9	7.0	4.1	0.9	<1	<1	<1	-
<i>Mazzaella affinis</i>	0.2	0.3						0.8	0.3	<1	<1	0.1	0.1	0.2	<1	0.4	0.5	0.7	1.9	3.8	2.9	2.0	1.6	4.4	0.3	<1	0.2	-
<i>Mazzaella flaccida</i>	1.4	1.4						3.1	0.4	-	0.3	0.2	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-
<i>Mazzaella heterocarpa</i>	0.6	0.7						1.8	0.1	+	<1	<1	0.3	<1	0.4	0.1	<1	<1	0.3	<1	<1	+	+	1.7	0.3	0.2	+	-
<i>Mazzaella leptorhynchus</i>	2.6	3.7						1.7	0.4	<1	0.8	0.1	0.5	0.3	0.4	0.3	0.2	0.9	0.8	0.5	0.5	0.7	0.3	<1	+	<1	<1	-
<i>Mazzaella lilacina</i>	<1	-						<1	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Mazzaella rosea</i>	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Melobesia mediocris</i>	-	-						+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Microcladia coulteri</i>	0.4	-						+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Neorhodomela larix</i>	-	-						<1	<1	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Nienburgia andersoniana</i>	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	-
Non-coraline crust	21.1	20.7						24.6	7.6	9.1	14.7	27.6	28.5	33.6	38.5	36.9	41.3	32.2	20.1	20.4	25.7	34.1	28.8	27.7	34.8	31.7	48.2	44.2
<i>Osmunda</i> spp.	<1	+						0.2	<1	-	+	<1	<1	-	-	<1	0.3	0.3	0.7	0.2	+	<1	0.2	-	-	-	-	-
<i>Pelvetia compressa</i>	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Phaeostrophion irregulare</i>	-	-						-	-	<1	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Phyllospadix</i> spp.	0.7	0.4						2.9	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Porphyra</i> spp.	2.0	3.8						9.6	1.3	0.4	6.6	1.9	<1	<1	-	+	<1	-	0.1	0.2	<1	<1	-	-	-	-	+	-
<i>Prionitis</i> spp.	1.0	0.6						1.1	0.2	<1	1.0	2.3	2.8	1.7	2.9	3.9	4.3	3.3	3.2	3.6	4.3	2.7	4.1	3.0	1.6	0.6	0.6	0.4
<i>Pterosiphonia dendroidea</i>	0.2	-						0.2	0.4	<1	<1	<1	-	-	-	-	<1	0.3	0.7	0.6	0.7	1.8	1.1	1.2	+	<1	<1	-
<i>Rhodophyta</i> (juv. blades)	-	-						-	+	<1	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Sarcodictyon gaudichaudii</i>	-	-						-	-	-	-	-	-	-	-	-	<1	0.2	+	0.1	0.2	-	-	-	-	-	-	-
<i>Sargassum muticum</i>	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Smithora natadum</i>	-	-						0.3	-																			

ns = not sampled, <1 = measured but in low abundance, + = only recorded as present

Horizontal Band Transects - Yearly Algal Mean Cover (per 1m squared) South Diablo Cove Station SDC 2 at +0.3m

Taxon	Year	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
# Surveys/Year	4	6	6	6	6	6	6	6	6	6	6	5	6	6	ns	1	4	4	4	4	2	ns	ns	ns	4	4	4	2
1/4 Coverage																												
<i>Anfeliopsis leptophylla</i>	-	<1	<1	<1	+	+	+	+	+	+	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
<i>Anfeliopsis linearis</i>	-	0.8	<1	<1	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1
<i>Bryopsis</i> spp.	1.4	4.5	1.9	4.1	3.0	2.8	1.5	1.8	4.2	4.2	1.3	0.6	0.6	0.6	0.3	0.5	0.2	0.4	0.7	0.5	0.5	1.0	0.7	0.7	0.7	0.3	0.3	
<i>Calliarthron/Bastella</i> spp.-complex	<1	<1	<1	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Callithamnion pilaeum</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Callithamnion</i> spp./Pleurodictum spp.	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Callithamnion</i> spp.	9.0	9.7	12.2	10.1	8.3	9.4	8.2	4.7	9.9	2.6	0.5	0.4	0.4	0.4	2.7	2.7	6.3	7.9	11.2	9.8	3.8	0.6	0.6	0.6	0.6	1.1	1.1	
<i>Chondracanthus canaliculatus</i>	<1	-	<1	<1	+	+	+	+	+	<1	<1	+	<1	<1	0.1	0.2	0.1	0.3	0.1	<1	<1	<1	0.2	0.1	0.3	<1	<1	<1
<i>Chondracanthus corymbiferus</i>	-	<1	<1	<1	+	+	+	+	+	<1	<1	+	<1	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Chondria decipiens</i>	-	<1	<1	<1	+	+	+	+	+	<1	<1	+	<1	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Chrysophyta</i> und.	-	0.2	0.7	<1	0.2	0.6	2.6	0.7	<1	<1	<1	<1	<1	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Cladophora</i> spp.	+	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Colpomenia</i> spp.	-	-	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Colpomenia/Leathesia/Sorathiera</i> spp.	-	<1	<1	<1	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Corallina officinalis</i>	1.7	2.4	1.6	1.0	1.4	1.5	0.6	0.3	0.3	0.1	<1	<1	<1	<1	1.3	0.4	1.0	1.5	1.2	1.1	0.3	0.3	1.8	1.0	1.6	1.9	1.9	
<i>Corallina vaucouveriensis</i>	2.0	2.9	2.7	4.0	5.5	4.0	3.1	1.3	2.6	2.9	1.5	1.9	1.9	1.3	0.6	0.8	1.7	3.8	4.3	1.6	0.8	0.8	<1	0.5	1.8	1.3	1.3	
<i>Cryptopleura ruprechtiana</i>	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Cryptopleura violacea</i>	0.2	0.3	0.7	0.5	0.8	0.9	0.6	0.2	0.3	0.7	<1	1.8	1.8	0.6	0.8	1.7	3.8	4.3	1.6	0.8	0.8	<1	<1	<1	<1	<1	<1	<1
<i>Cryptosiphonia woodii</i>	<1	0.2	0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Delesseriaceae</i> (juv.)	-	-	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Egregia menziesii</i>	1.6	0.6	+	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Endocladia muricata</i>	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Furrowia/Pilea</i> spp.-complex	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Fucus gardneri</i>	0.3	0.9	0.1	<1	<1	<1	<1	0.6	0.3	0.6	0.4	0.3	0.6	0.6	0.4	1.1	2.8	3.1	6.6	4.8	2.3	0.1	0.2	0.5	0.5	0.8	0.8	
<i>Gastrocioneum subarticulatum</i>	3.2	1.7	3.4	3.5	4.3	3.1	3.0	0.3	0.6	0.4	0.3	0.5	0.5	0.5	1.5	7.4	6.8	3.7	4.7	4.7	3.4	3.4	3.0	4.0	3.2	2.4	2.4	
<i>Gelidium coulteri</i>	3.8	2.5	4.2	3.4	4.7	4.8	3.8	2.8	9.4	3.5	6.5	6.5	6.5	0.2	0.2	<1	0.5	0.6	1.1	0.5	0.1	0.1	<1	<1	<1	<1	<1	<1
<i>Gelidium pusillum</i>	0.1	<1	<1	<1	<1	0.3	0.2	0.2	<1	<1	<1	<1	0.2	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Gelidium robustum</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Gelidium robustum</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Gelidium doryphora</i>	<1	0.1	-	<1	0.2	0.1	0.3	<1	<1	<1	<1	<1	<1	<1	-	-	0.2	<1	-	+	0.5	0.7	<1	<1	<1	<1	<1	<1
<i>Gymnogongrus chinii</i>	-	-	-	-	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Hyalococcion americanum</i>	<1	-	-	+	+	+	+	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Halymenia/Schizymenia</i> spp.-complex	<1	<1	0.3	0.2	<1	0.3	0.3	0.5	0.2	0.1	0.1	0.1	0.1	0.1	-	<1	+	<1	<1	+	+	+	+	0.2	0.1	0.2	0.2	
<i>Laminaria setchellii</i>	-	-	<1	-	-	-	-	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Laminaria</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Macrocystis</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Macrocystis jordanii</i>	2.5	1.6	1.8	2.7	2.7	2.9	2.9	0.1	1.1	0.6	<1	0.2	0.2	0.2	-	0.4	2.4	2.2	0.5	0.2	+	+	+	<1	0.1	<1	<1	
<i>Macrocystis papillatus</i>	7.5	11.4	14.0	10.4	10.8	11.8	9.9	4.1	8.7	6.0	4.8	7.3	7.3	5.3	16.5	22.0	18.6	20.7	21.5	7.5	7.5	3.6	1.3	1.8	2.1	2.1	2.1	
<i>Mazzaella affinis</i>	6.0	5.1	4.8	6.9	4.5	4.5	5.9	4.1	4.2	3.5	1.3	0.8	0.8	0.1	1.4	1.7	1.1	1.8	2.4	1.8	1.8	0.5	1.0	0.6	0.7	0.7	0.7	
<i>Mazzaella floccida</i>	1.9	3.4	3.4	2.5	3.1	2.9	3.1	2.2	0.7	0.2	0.1	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Mazzaella heterocarpa</i>	0.8	0.9	0.9	1.3	0.7	2.0	1.0	0.3	0.2	0.2	0.2	0.2	0.2	-	0.1	0.2	<1	0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	
<i>Mazzaella leptorhynchus</i>	0.5	0.4	0.8	0.3	0.1	0.3	0.3	0.8	0.4	0.2	0.1	0.2	0.2	+	0.1	0.1	0.4	0.1	0.6	0.3	0.3	<1	0.2	<1	0.1	0.1	0.1	
<i>Mazzaella lilacina</i>	0.5	0.4	0.3	0.9	0.4	0.3	0.2	0.6	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Mazzaella linearis</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Mazzaella rosea</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Melobesia medocensis</i>	-	-	-	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Microcladia borealis</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Microcladia coulteri</i>	0.1	0.4	0.3	<1	<1	0.1	0.1	0.2	0.1	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Neorhodomela larx</i>	7.5	5.7	5.7	9.4	6.5	7.3	6.1	2.5	1.7	1.9	0.6	0.4	0.4	<1	<1	<1	<1	<1	<1	+	+	+	+	+	+	+	+	
<i>Neorhodomela larx</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Neorhodomela andersoniana</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Non-coraline crust</i>	23.8	23	25.7	20.5	29.5	27.6	22.3	27.7	34.5	31.5	35.6	44.5	44.5	62.9	37.1	35.8	32.1	31.0	31.9	42.3	42.3	46.4	43.1.					

ns = not sampled, <1 = measured but in low abundance, + = only recorded as present

(continued)

Horizontal Band Transects - Yearly Algal Mean Cover (per 1m squared) South Diablo Cove Station SDC 2 at +0.3m (continued)

Taxon	# Surveys/Year	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
% Coverage																												
<i>Prionitis australis</i>																												
<i>Prionitis</i> spp		08	15	37	30	23	23	13	26	28	29	30	59		29	41	47	41	62	73	66				45	37	52	36
<i>Pterosphonia dendroidea</i>		+	+	<1	<1	01	02	01	<1	<1	01	+	<1				+	01	01	<1	05				<1	01	08	10
Rhodophyta (juv blades)		<1	-	01	-	-	<1	-	<1	02	-	+	-		-	-	-	-	-	-	-	-	-	-	-	-	-	+
<i>Rhodomenia</i> spp		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Sarcodithecra gaudichaudii</i>		-	<1	<1	<1	01	+	<1	01	<1	<1	-	<1		-	-	+	<1	<1	+	+				09	+	04	-
<i>Sargassum muticum</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Smithora natadum</i>		04	-	+	02	02	08	05	<1	+	+	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Sorathera ulvoidea</i>		-	-	+	+	+	+	+	+	+	+	+	+		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spongomorpha/Acrosiphonia-complex		30	12	02	09	02	<1	<1	32	08	<1	+	<1		-	+	+	-	+	<1	-				23	11	18	17
<i>Ulva/Enteromorpha</i> spp.		70	91	93	71	15	24	52	32	49	47	+	+		-	112	26	152	63	90	51				68	88	55	61
coralline crust		38	56	38	33	56	52	60	108	76	95	78	63		33	23	29	33	38	59	107				18	06	24	36
filamentous red algae-complex		<1	02	<1	02	<1	02	03	01	02	<1	+	<1		-	-	+	<1	04	<1	04				15	06	11	14
juv articulated coralline algae		-	02	<1	01	07	03	02	11	03	07	04	07		03	<1	<1	01	03	02	04							

ns = not sampled, < 1 = measured but in low abundance; + = only recorded as present

Horizontal Band Transects - Yearly Algal Mean Cover (per 1m squared) South Diablo Cove Station SDC 2 at +0.9m

[illegible]

Horizontal Band Transects - Yearly Algal Mean Cover (per 1m squared) South Diablo Cove Station SDC 3 at +0.3m

Taxon	Year	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
# Surveys/Year	4	6	6	6	6	6	6	6	6	6	6	6	6	4	4	4	4	4	4	4	3	2	2	2	4	4	4	2
% COVER																												
<i>Agardhiopsis leporophylla</i>		<1	<1	+	+	+	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Agardhiopsis japonica</i>		<1	<1	+	+	+	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Byropis</i> spp.		01	01	02	<1	03	03	03	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Callithrix/Gostellia</i> spp.-complex		<1	+	<1	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Callithamnion plenum</i>		<1	+	<1	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Callithamnion</i> spp./Pleuroporum spp.		5.7	6.3	5.1	6.8	3.9	5.0	4.0	0.2	0.4	0.2	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Chondracanthus crinalidatus</i>		0.2	0.2	0.2	0.1	0.2	0.4	0.3	<1	<1	<1	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Chondra deepiens</i>		+	<1	0.5	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Chrysophyta</i> und.		+	<1	0.1	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Cladophora</i> spp.		+	<1	0.1	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Colpomenia</i> spp.		+	<1	0.1	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Colpomenia/Lecanella/Sorinella</i> spp.		0.3	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Corallina officinalis</i>		<1	0.3	0.2	0.4	0.7	0.4	0.5	0.2	<1	<1	<1	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Corallina Vancouverensis</i>		<1	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Cryptopleura ruyteriana</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Cryptopleura violacea</i>		0.2	1.4	2.5	1.7	1.2	1.3	1.2	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Cryptosiphonia woodii</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Cymatocera andersonii</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Cystoseira amundacea</i>		0.2	+	0.3	0.2	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Egregia menziesii</i>		+	+	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Endocladia muricata</i>		+	+	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Fucus</i> spp.		5.5	3.6	0.6	3.2	6.4	4.5	1.8	<1	1.1	0.5	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Fucus gardneri</i>		9.3	7.8	12.7	9.4	15.0	7.1	5.1	0.7	0.8	0.1	0.9	0.2	0.1	0.5	0.9	0.9	0.6	1.2	2.2	1.9	3.9	0.7	0.2	0.1	0.5	0.2	0.1
<i>Gastromolophilus suberitiformis</i>		0.5	2.3	2.7	1.1	2.0	2.3	3.0	0.7	0.8	0.1	0.2	0.1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Gelidium coulteri</i>		0.3	0.4	0.3	0.5	0.6	0.6	0.6	0.1	0.2	0.1	0.1	0.1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Gelidium pusillum</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Gelidium</i> spp.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Gelidopsis dorsifera</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Heterosira amplexum</i>		<1	<1	<1	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Heterosira/Lichmanella</i> spp.-complex		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Macrocystis</i> spp.		<1	0.2	0.2	0.2	<1	0.3	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Macrocystis jordanii</i>		14.3	13.1	15.3	20.2	14.8	18.6	14.8	4.6	17.7	29.9	19.2	21.1	15.9	28.7	28.1	43.7	41.6	38.4	44.1	38.1	37.6	41.5	23.4	7.9	6.2	17.6	6.9
<i>Macrocystis papillatus</i>		3.1	3.9	3.8	3.9	2.9	4.0	5.3	0.4	1.1	0.9	0.4	0.2	0.2	+	0.1	0.5	0.6	1.8	1.7	0.7	0.3	1.4	0.7	0.1	0.2	0.2	0.2
<i>Mazzeella affinis</i>		27.4	24.4	22.6	26.5	20.0	20.1	21.6	0.2	0.4	0.1	0.2	0.4	<1	0.3	0.2	0.5	<1	<1	0.2	0.2	0.2	0.2	0.2	<1	+	+	+
<i>Mazzeella flaccida</i>		1.9	1.7	2.4	1.1	1.6	1.6	1.6	<1	0.1	0.2	0.1	0.4	<1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	<1	+	+	+
<i>Mazzeella heterocarpa</i>		0.1	0.4	0.7	0.4	0.6	0.5	0.5	<1	0.6	<1	0.1	0.1	0.1	<1	<1	<1	0.2	0.2	0.5	0.4	0.2	0.3	0.5	<1	0.2	<1	<1
<i>Mazzeella leporophylla</i>		<1	<1	+	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Mazzeella lilacina</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Mazzeella rosea</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Milobesia medietis</i>		+	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Microcladia borealis</i>		<1	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Microcladia coulteri</i>		0.7	0.5	1.4	1.4	1.5	1.6	1.3	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Neorhodomenia lutea</i>		17.6	19.8	20.2	18.9	26.9	25.9	24.5	9.7	17.6	14.6	17.4	18.2	19.0	22.5	25.8	27.5	24.9	20.9	22.6	24.3	25.2	28.9	33.4	37.0	31.3	34.8	39.1
<i>Non-coraline crust</i>		+	+	<1	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Osmunda</i> spp.		0.5	<1	<1	<1	0.2	0.2	<1	<1	<1	<1	<1	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Phyllospora</i> spp.		<1	<1	<1	<1	<1	0.2	<1	<1	<1	<1	<1	<1	2.3	1.5	<1	<1	0.2	<1	0.9	+	+	+	0.1	+	<1	0.2	0.1
<i>Porphyra</i> spp.		0.3	0.3	0.3	0.9	<1	0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
<i>Prionitis</i> spp.		0.4	0.2	0.1	0.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
<i>Pterodiploma denudata</i>		+	+	<1	+	+	+	+	0.2	<1	+	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Rhodophyta</i> (furf blades)		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Sporodictyon gaudichaudii</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Sporosiphon</i> spp.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Syllisora radiata</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Syllisora ulivoides</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Spongomorpha/Acrospira</i> -complex		5.8	4.1	<1	0.1	<1	<1	0.1	<1	1.8	0.3	+	+	+	+	+	+	8.4	3.7	<1	0.9	0.5	1.1	+	+	+	+	+
<i>Ulva/Eutima</i> spp.		6.0	5.4	5.6	3.7	5.0	3.4	5.4	1.1	1.1	1.3	0.6	0.6	0.4	0.3	0.3	0.3	0.3	0.7	<1	0.7	0.7	0.9	1.0	0.4	0.7	0.4	1.1
<i>filamentous red algae</i> -complex		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>juv. articulated coralline algae</i>		<1	<1	0.3	0.2	0.2	<1	<1	<1	+	+	<1	<1	<1	<1	+	+	<1	+	+	+	0.1	+	+	+	+	<1	<1

ns = not sampled, <1 = measured but in low abundance, + = only recorded as present

Horizontal Band Transects - Yearly Algal Mean Cover (per 1m squared) South Diablo Cove Station SDC 3 at +0.9m

Taxon	Year	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
Taxon	# Surveys/Year	4	4	6	6	6	6	6	6	6	6	6	6	4	4	4	4	4	4	4	4	2	2	2	4	4	4	4	
% COVER																													
<i>Anelasma japonicus</i>		-	+	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Bryopsis</i> spp		0.1	<1	0.1	0.2	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	
<i>Calliarthron/Bostelia</i> spp - complex		<1	+	<1	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Callithamnion pikeanum</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Callithamnion</i> spp./Pleurosporum spp		0.6	0.3	0.4	0.6	0.3	0.3	0.2	+	<1	<1	+	+	-	-	-	-	+	<1	-	-	-	-	+	-	-	+	-	
<i>Chondracanthus canaliculatus</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Chondra decipiens</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Chrysophyta</i> und.		-	-	<1	+	-	<1	+	+	<1	-	-	-	-	-	<1	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Cladophora</i> spp		<1	0.5	<1	<1	<1	<1	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Colpomenia</i> spp		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Corallina officinalis</i>		<1	<1	-	-	-	+	+	-	-	-	-	-	-	-	-	-	<1	<1	+	+	-	+	+	<1	+	+	-	
<i>Corallina vancouverensis</i>		0.2	2.6	2.1	2.4	2.4	2.3	2.6	0.1	0.4	0.4	0.2	0.1	0.1	0.1	<1	<1	<1	+	+	-	+	+	+	<1	+	+	-	
<i>Cryptopleura violacea</i>		-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Cryptosiphonia woodii</i>		<1	<1	<1	0.2	0.2	0.1	0.1	+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Endocladia muricata</i>		5.6	8.8	9.8	9.8	10.3	10.6	9.3	3.1	3.2	3.3	3.3	2.6	2.6	1.4	0.9	0.7	1.0	1.0	1.5	1.3	1.4	1.0	0.2	+	<1	<1	+	
<i>Fucales</i> und.		-	-	<1	-	-	-	-	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Fucus gardneri</i>		2.7	0.9	1.4	4	4.2	4.5	3.4	1.1	0.5	0.1	0.2	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Gastreaclonium subarticulatum</i>		-	-	<1	<1	<1	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	
<i>Gelidium coulteri</i>		1.5	1.0	1.8	1.8	1.6	2.6	2.4	0.6	1.2	1.1	0.5	0.1	0.1	+	<1	0.1	0.4	0.9	<1	<1	+	0.7	<1	<1	<1	+	+	
<i>Gelidium pusillum</i>		0.6	0.8	0.8	1.1	0.5	0.7	1.2	0.2	0.6	0.3	0.1	<1	<1	-	<1	0.1	0.6	1.1	0.3	<1	0.1	0.2	0.2	+	+	+	+	
<i>Gelidium</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Halosaccus americanus</i>		0.2	-	+	+	<1	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Heperophycus californicus</i>		0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Mastocarpus jordanii</i>		+	<1	<1	<1	0.2	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	<1	<1	-	-	-	-	-	<1	+	+	-	
<i>Mastocarpus papillatus</i>		15.2	16.1	16.7	21.9	19.6	20.3	23.1	2.6	6.7	10.0	8.6	9.3	3.8	3.9	2.0	1.8	8.8	17.9	11.3	7.3	8.2	16.8	3.1	5.1	2.8	3.2	1.2	
<i>Mazzaella affinis</i>		0.3	0.6	0.7	1.2	0.8	0.5	0.9	0.2	0.1	0.2	<1	+	+	+	-	<1	<1	<1	+	+	+	<1	+	-	+	+	-	
<i>Mazzaella flaccida</i>		6.9	4.9	4.5	5.7	4.1	4.6	5.0	<1	<1	<1	<1	+	+	<1	+	+	+	+	<1	+	+	+	+	+	+	+	-	
<i>Mazzaella heterocarpa</i>		0.2	0.4	0.4	0.2	0.3	0.4	0.4	<1	<1	<1	<1	+	+	<1	+	+	+	+	<1	+	+	<1	<1	+	+	+	<1	
<i>Mazzaella leporiophylla</i>		<1	<1	0.2	0.2	0.2	0.2	0.1	<1	<1	<1	<1	+	+	+	+	<1	+	+	+	+	+	<1	<1	+	+	+	<1	
<i>Mazzaella lilacina</i>		-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Melobesia medietus</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Nematostella helminthoides</i>		-	-	-	-	-	+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Neorhododendron latic</i>		0.1	<1	<1	0.2	0.2	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Non-coraline crust</i>		20.4	20.3	19.5	21.6	26.1	26.1	26.1	10.6	11.9	13.2	11.3	13.7	14.5	13.3	10.9	9.4	15.5	16.9	16.3	22.9	22.8	22.9	21.6	21.7	17.0	21.0	26.3	
<i>Peltvetia compressa</i>		0.5	<1	0.1	0.5	0.6	1.1	2.8	2.5	2.7	3.2	2.4	2.2	1.7	1.6	1.3	0.5	-	-	-	-	-	-	-	-	-	-	-	
<i>Phyllospadix</i> spp.		0.6	0.5	1.7	1.0	1.0	0.9	1.1	+	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Polysiphonia latissima</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Porphyra</i> spp.		0.2	0.4	0.2	0.6	0.2	0.3	0.1	0.3	0.2	<1	<1	+	+	+	+	<1	+	<1	<1	<1	+	<1	+	<1	<1	+	-	
<i>Prorhiza</i> spp.		0.1	<1	0.2	0.4	0.2	<1	<1	<1	<1	<1	<1	+	+	+	+	<1	+	<1	<1	<1	+	<1	+	<1	<1	+	-	
<i>Rhodophyta</i> (juv blades)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Scytosiphon</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Smittia nauium</i>		-	-	<1	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Spongomorpha/Acrosiphonia</i> complex		<1	+	0.3	0.2	<1	0.2	<1	<1	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Ulva/Enteromorpha</i> spp		0.9	0.4	0.6	2.4	<1	0.2	<1	<1	<1	0.2	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<i>coralline crust</i>		2.4	2.8	2.3	2.3	2.8	2.1	2.2	1.0	0.9	0.3	0.4	0.6	0.3	0.2	0.2	<1	<1	<1	<1	0.1	<1	+	0.2	+	0.2	0.2	1.1	
<i>filamentous red algae</i> complex		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>juv articulated coralline algae</i>		-	-	<1	<1	+	+	+	<1	+	+	+	+	+	+	+	<1	+	+	+	+	+	+	+	+	+	+	<1	+

= not sampled, <1 = measured but in low abundance, + = only recorded as present

ns = not sampled, <1 = measured but in low abundance, + = only recorded as present

Horizontal Band Transects - Yearly Algal Mean Cover (per 1m squared) South Diablo Point Station SDP 1 at +0.9m

Taxon	Year # Surveys/Year	1976 ns	1977 ns	1978 ns	1979 ns	1980 ns	1981 ns	1982 4	1983 4	1984 5	1985 6	1986 6	1987 6	1988 ns	1989 1	1990 4	1991 4	1992 4	1993 4	1994 4	1995 2	1996 ns	1997 ns	1998 ns	1999 3	2000 4	2001 4	2002 2
% Coverage																												
<i>Alaria marginata</i>								+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Anallipus japonicus</i>								<1	<1	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Bryopsis</i> spp.								+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
<i>Callithamnion/Boselliella</i> spp -complex								4.6	4.3	5.1	5.3	3.4	5.8	-	4.6	2.2	3.5	2.7	6.1	4.2	2.4	-	-	-	1.5	2.1	1.2	0.8
<i>Callithamnion pikeanum</i>								<1	0.4	<1	<1	+	+	-	-	<1	+	+	+	+	-	-	-	-	-	-	-	-
<i>Callithamnion</i> spp./ <i>Pleonosporium</i> spp								0.2	0.8	1.2	0.5	0.4	0.3	-	+	0.4	0.4	<1	0.6	0.3	<1	-	-	-	+	+	<1	-
<i>Callophyllis</i> spp								-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Chondracanthus canaliculatus</i>								+	0.1	<1	0.1	0.2	<1	-	<1	-	+	-	+	+	+	-	-	-	-	-	<1	-
<i>Chondracanthus corymbiferus</i>								-	-	<1	+	-	+	-	-	+	+	<1	+	+	-	-	-	-	-	-	-	-
<i>Chondria decipiens</i>								-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Chrysophyta</i> unid.								0.3	2.5	2.4	1.3	0.3	0.7	-	-	0.1	0.2	0.3	+	+	-	-	-	-	-	-	-	0.1
<i>Cladophora</i> spp								+	<1	<1	0.2	0.1	<1	-	<1	0.1	0.2	<1	<1	<1	+	-	-	+	+	+	+	+
<i>Codium fragile</i>								0.6	0.5	2.7	1.6	0.3	0.1	-	<1	+	<1	<1	<1	+	+	-	-	-	-	-	-	-
<i>Codium setchellii</i> (prostrate)								-	-	+	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
<i>Colpomenia</i> spp								+	+	<1	<1	+	<1	-	-	<1	+	+	+	+	-	-	-	-	-	-	-	-
<i>Corallina officinalis</i>								0.1	0.3	0.8	0.1	0.2	<1	-	+	0.3	<1	+	-	-	-	-	-	-	-	-	0.2	-
<i>Corallina vancouveriensis</i>								34.4	36.5	33.3	29.6	24.3	23.0	-	20.1	19.6	19.3	22.6	16.9	12.1	8.0	-	-	-	6.5	3.9	2.2	0.5
<i>Cryptopleura violacea</i>								+	+	<1	<1	<1	0.1	-	<1	<1	0.2	0.3	1.1	0.9	0.5	-	-	-	<1	<1	-	+
<i>Cryptosiphonia woodii</i>								<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Cumagloia andersonii</i>								-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Cystoselma osmundacea</i>								-	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Desmarestia</i> spp								-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Egregia menziesii</i>								1.5	1.2	2.1	0.7	<1	0.7	-	1.0	0.7	1.1	0.7	2.7	3.9	1.1	-	-	-	-	-	-	-
<i>Endocladia muricata</i>								9.8	9.0	3.9	4.1	5.3	5.0	-	6.0	9.3	10.3	10.9	6.8	2.9	2.3	-	-	-	0.2	<1	0.2	0.2
<i>Farlowia/Pikea</i> spp -complex								-	+	-	-	-	<1	-	-	<1	+	<1	<1	<1	-	-	-	-	-	-	-	-
<i>Gastroclonium subarticulatum</i>								-	-	-	-	-	-	-	-	<1	+	+	+	+	-	-	-	-	-	-	-	-
<i>Gelidium coulteri</i>								4.4	3.1	2.9	4.8	5.0	6.3	-	8.0	10.0	11.9	10.8	12.5	14.3	3.8	-	-	-	5.0	1.6	1.4	0.5
<i>Gelidium pusillum</i>								+	0.2	<1	<1	<1	<1	-	-	0.1	<1	0.3	0.2	0.1	-	-	-	-	+	+	+	<1
<i>Gelidium robustum</i>								+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Halosaccion americanum</i>								1.8	0.3	0.1	0.5	0.1	+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
<i>Halymenia/Schizymenia</i> spp -complex								-	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-
<i>Hymenena</i> spp.								-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Laminaria setchellii</i>								+	<1	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Laminariales</i>								-	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Mastocarpus jardinii</i>								4.4	3.0	4.1	2.0	1.9	1.6	-	2.4	3.5	4.7	4.0	2.8	1.3	1.1	-	-	-	0.1	<1	0.2	0.2
<i>Mastocarpus papillatus</i>								0.6	0.9	0.3	0.2	0.1	0.1	-	0.3	0.2	0.5	0.2	0.1	0.1	+	-	-	-	0.1	<1	+	-
<i>Mazzaella affinis</i>								-	<1	<1	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Mazzaella flaccida</i>								16.4	14.5	7.5	10.3	7.5	8.1	-	5.3	12.7	13.5	8.1	4.1	3.9	0.8	-	-	-	<1	<1	<1	-
<i>Mazzaella heterocarpa</i>								<1	+	<1	0.1	<1	+	-	-	0.3	<1	<1	+	<1	-	-	-	-	+	+	+	+
<i>Mazzaella leptorhynchus</i>								+	-	-	+	+	-	-	-	-	-	-	+	<1	-	-	-	-	-	-	-	-
<i>Mazzaella lilacina</i>								-	<1	-	<1	-	<1	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-
<i>Mazzaella linearis</i>								-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Mazzaella rosea</i>								-	-	<1	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Microcladia borealis</i>								3.9	4.9	0.3	1.7	0.8	0.6	-	<1	<1	0.2	<1	+	-	-	-	-	-	-	-	-	-
<i>Microcladia coulteri</i>								-	-	+	-	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-coraline crust								9.3	10.6	9.9	9.0	16.3	20.2	-	15.6	16.6	18.8	25.0	19.9	22.3	23.9	-	-	-	34.6	34.6	36.2	28.7
<i>Osmundea</i> spp								-	-	-	-	+	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
<i>Pelvetia compressa</i>								-	-	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Phaeophyta</i> (juv.)								-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Phaeostrophion irregulare</i>								-	-	0.1	<1	-	+	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
<i>Phyllospadix</i> spp								+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Plocamium cartilagineum</i>								-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Plocamium violaceum</i>								<1	<1	0.1	<1	<1	<1	-	+	+	+	<1	+	<1	-	-	-	-	-	-	-	-
<i>Porphyra</i> spp								0.5	0.3	<1	0.2	<1	<1	-	+	0.1	0.5	0.1	0.3	2.5	+	-	-	-	-	-	-	-
<i>Prionitis</i> spp								0.2	0.1	0.1	0.1	<1	0.2	-	<1	<1	<1	<1	<1	<1	<1	-	-	-	<1	<1	<1	-
<i>Rhodophyta</i> (juv. blades)								-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ns = not sampled, <1 = measured but in low abundance, + = only recorded as present

(continued)

Horizontal Band Transects - Yearly Algal Mean Cover (per 1m squared) South Diablo Point Station SDP 1 at +09m (continued)

Taxon	Year # Surveys/Year	1976 ns	1977 ns	1978 ns	1979 ns	1980 ns	1981 ns	1982 4	1983 4	1984 5	1985 6	1986 6	1987 6	1988 ns	1989 1	1990 4	1991 4	1992 4	1993 4	1994 4	1995 2	1996 ns	1997 ns	1998 ns	1999 3	2000 4	2001 4	2002 2
% Coverage																												
<i>Sarcodiotheca gaudichaudii</i>								-	+	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Scytosiphon</i> spp								-	+	<.1	<.1	+	+	-	-	+	-	-	+	-	-	-	-	-	-	-	-	-
<i>Soranthra ulvoidea</i>								-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spongomorpha/Acrosiphonia complex								<.1	<.1	<.1	+	+	+	-	+	-	-	+	+	+	-	-	-	-	-	-	-	-
<i>Ulva/Enteromorpha</i> spp								14	29	68	41	16	02	-	01	+	<.1	<.1	02	<.1	-	-	-	-	+	+	+	-
coralline crust								207	232	289	251	276	217	-	222	175	130	148	182	201	239	-	-	-	133	99	101	88
filamentous red algae complex								08	06	08	12	04	10	-	<.1	01	+	02	+	+	-	-	-	-	-	+	+	-
juv articulated coralline algae								06	02	02	03	08	14	-	15	12	09	29	26	25	40	-	-	-	44	34	21	41

ns = not sampled, <.1 = measured but in low abundance, + = only recorded as present

Horizontal Band Transects - Yearly Algal Mean Cover (per 1m squared) South Diablo Point Station SDP 2 at +0.9m

Taxon	Year	# Survey/Year	% Coverage
<i>Amphitropis leptophylla</i>	1976	4	-
<i>Amphitropis linearis</i>	1977	3	-
<i>Alaria marginata</i>	1978	5	-
<i>Anallaps japonicus</i>	1979	6	-
<i>Byopsis</i> spp.	1980	5	-
<i>Calliarthron/Bostryella</i> spp.-complex	1981	6	-
<i>Callithamnion pilaeum</i>	1982	4	-
<i>Callithamnion</i> spp./Leosporium spp.	1983	4	-
<i>Calliphylis firma</i>	1984	4	-
<i>Chondracanthus corymbiferus</i>	1985	5	-
<i>Chondracanthus harveyanus/spinosus</i>	1986	3	-
<i>Chondracanthus</i> spp.	1987	6	-
<i>Chondria decipiens</i>	1988	4	-
<i>Chrysophyta</i> undid.	1989	4	-
<i>Cladophora</i> spp.	1990	4	-
<i>Codium fragile</i>	1991	4	-
<i>Codium setchellii</i> (prostrate)	1992	4	-
<i>Colpomenia</i> spp.	1993	4	-
<i>Corallina officinalis</i>	1994	4	-
<i>Corallina vancouveriensis</i>	1995	2	-
<i>Cryptopleura rupestrifrons</i>	1996	ns	-
<i>Cryptopleura violacea</i>	1997	ns	-
<i>Cryptosiphonia woodii</i>	1998	ns	-
<i>Cystoseira osmundacea</i>	1999	3	-
<i>Desmarestia</i> spp.	2000	4	-
<i>Egrella menziesii</i>	2001	4	-
<i>Endocladia muricata</i>	2002	2	-
<i>Erythrophyllum delavayioides</i>			-
<i>Fartowia/Flicka</i> spp.-complex			-
<i>Gastrocolum subcylindricum</i>			-
<i>Gelidium coulteri</i>			-
<i>Gelidium pusillum</i>			-
<i>Gelidium robustum</i>			-
<i>Gelidium spp.</i>			-
<i>Halosaccus (=Derbesia marina)</i>			-
<i>Halosaccus americanus</i>			-
<i>Haplomenia/Schizymenia</i> spp.-complex			-
<i>Haplomenia andersonii</i>			-
<i>Hymenena</i> spp.			-
<i>Laminaria setchellii</i>			-
<i>Laminariales</i>			-
<i>Macrocystis</i> spp.			-
<i>Mastocarpus papillatus</i>			-
<i>Mastocarpus javidini</i>			-
<i>Mastocarpus</i> spp.			-
<i>Mazzeella flaccida</i>			-
<i>Mazzeella heterocarpa</i>			-
<i>Mazzeella leptorhynchus</i>			-
<i>Mazzeella linearis</i>			-
<i>Mazzeella rosea</i>			-
<i>Micrrodadia borealis</i>			-
<i>Micrrodadia coulteri</i>			-
<i>Neoplatia hypnoides</i>			-
<i>Nereocystis luetkeana</i>			-

Horizontal Band Transects - Yearly Algal Mean Cover (per 1m squared) South Diablo Point Station SDP 2 at +0.9m (continued)

Taxon	Year	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
	# Surveys/Year	4	3	5	6	5	6	4	4	4	5	3	6	4	4	4	4	4	4	4	2	ns	ns	ns	3	4	4	2
2A. COVERAGES																												
Non-coraline crust		<1	0.9	0.3	0.1	0.5	0.5	0.7	0.4	0.3	0.6	0.2	0.4	0.5	0.6	0.8	0.7	0.1	0.9	1.5	1.3				1.3	1.6	5.5	7.3
<i>Opuntia californica</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Opuntia</i> spp.		1.1	1.5	1.4	1.2	1.7	1.4	0.5	1.1	2.5	0.8	0.3	1.5	0.6	1.4	0.7	0.6	0.4	0.7	<1	-	-	-	-	-	-	-	-
Phaeophyta (uv)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Phaeotrichon lrygularis</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Phyllospora</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Placodium cartilagineum</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Placodium violaceum</i>		<1	0.2	<1	0.2	<1	<1	<1	<1	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Polysiphonia latissima</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Porphyra</i> spp.		-	-	<1	<1	<1	<1	0.1	<1	<1	<1	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Prorocentrum</i> spp.		1.9	3.8	4.7	4.7	4.4	4.6	2.2	3.9	5.8	4.3	5.0	8.9	9.5	5.5	6.7	5.4	9.7	9.8	11.9	8.5	-	-	-	-	-	-	-
<i>Pterodroma dendroidea</i>		-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Rhodophyta</i> (uv, blades)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Rhodophyta</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Sarcodictyon gaudichaudii</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Sporosiphon</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Sporosiphon/Acrosiphon</i> complex		<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Ulva/Enteromorpha</i> spp.		8.3	12.9	10.7	9.9	9.9	11.6	12.6	14.0	16.0	14.0	14.1	14.8	12.2	11.9	11.1	15.3	16.2	20.3	22.0	30.4	-	-	-	-	-	-	-
coraline crust		0.8	2.4	0.8	1.2	1.0	0.9	1.1	0.2	0.4	1.0	1.2	0.4	0.6	0.7	0.4	0.2	0.3	0.2	0.3	<1	-	-	-	-	-	-	-
filamentous red algae complex		-	1.4	0.2	0.3	0.8	0.2	0.4	0.1	0.2	<1	0.5	0.7	<1	0.6	0.3	1.1	1.2	1.6	2.1	2.7	-	-	-	-	-	-	-
juv. articulated coralline algae		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ns = not sampled, < 1 = measured but in low abundance, + = only recorded as present

Horizontal Band Transects - Yearly Algal Mean Cover (per 1m squared) South Diablo Point Station SDP 3 at +0.3m

Taxon	Year # Surveys/Year	1976 ns	1977 1	1978 ns	1979 ns	1980 ns	1981 ns	1982 ns	1983 ns	1984 ns	1985 1	1986 1	1987 1	1988 1	1989 ns	1990 ns	1991 ns	1992 ns	1993 ns	1994 ns	1995 ns	1996 ns	1997 ns	1998 ns	1999 ns	2000 ns	2001 ns	2002 ns
% Coverage																												
<i>Calliarthron/Bosstellia</i> spp -complex			-								0.5	0.1	1.3	<1														
<i>Callithamnion pikeanum</i>			+								-	-	-	-														
<i>Chondracanthus canaliculatus</i>			3.8								10.4	4.7	2.8	1.9														
<i>Cladophora</i> spp			+								+	+	+	0.2														
<i>Codium setchellii</i> (prostrate)			0.4								-	0.3	0.3	0.3														
<i>Corallina officinalis</i>			-								+	-	-	-														
<i>Corallina vancouveriensis</i>			2.0								2.1	1.9	2.2	1.1														
<i>Cryptopleura violacea</i>			2.4								3.6	5.7	3.1	1.9														
<i>Cryptosiphonia woodii</i>			0.3								0.3	0.3	<1	0.1														
<i>Endocladia muricata</i>			2.6								1.9	3.0	1.6	2.9														
<i>Gastroclonium subarticulatum</i>			9.7								3.5	6.0	2.9	1.3														
<i>Gelidium coulteri</i>			12.8								18.3	13.5	14.5	11.4														
<i>Gelidium pusillum</i>			0.3								0.6	1.2	0.3	1.7														
<i>Grateloupia doryphora</i>			+								-	-	+	-														
<i>Halymenia/Schizymenia</i> spp -complex			-								+	-	-	-														
<i>Mastocarpus jardinii</i>			0.2								0.6	0.5	0.6	0.1														
<i>Mastocarpus papillatus</i>			7.8								6.6	8.2	9.9	23.8														
<i>Mazzaella affinis</i>			1.5								1.2	2.0	1.9	2.0														
<i>Mazzaella flaccida</i>			40.3								25.5	18.8	29.1	5.6														
<i>Mazzaella heterocarpa</i>			5.4								1.5	6.9	1.7	3.5														
<i>Mazzaella leptorhynchus</i>			-								0.1	0.5	0.6	1.0														
<i>Melobesia mediocris</i>			-								-	-	+	-														
Non-coraline crust			19.2								32.0	35.3	30.8	20.3														
<i>Osmundea</i> spp			-								+	-	<1	-														
<i>Phyllospadix</i> spp			3.4								3.0	2.6	3.6	1.7														
<i>Porphyra</i> spp			0.2								-	-	-	0.2														
<i>Prionitis</i> spp			0.6								0.8	0.6	0.8	0.1														
<i>Pterosiphonia dendroidea</i>			-								-	+	-	-														
<i>Smithora natadum</i>			-								+	-	<1	-														
coralline crust			4.4								9.6	9.0	16.9	5.1														
filamentous red algae complex			<1								-	-	+	-														
juv. articulated coralline algae			-								0.1	0.4	0.1	+														

ns = not sampled; < 1 = measured but in low abundance; + = only recorded as present

Horizontal Band Transects - Yearly Algal Mean Cover (per 1m squared) South Diablo Point Station SDP 3 at +0.9m

Taxon	Year # Surveys/Year	1976 ns	1977 1	1978 ns	1979 ns	1980 ns	1981 ns	1982 ns	1983 ns	1984 ns	1985 1	1986 1	1987 1	1988 1	1989 ns	1990 ns	1991 ns	1992 ns	1993 ns	1994 ns	1995 ns	1996 ns	1997 ns	1998 ns	1999 ns	2000 ns	2001 ns	2002 ns
% Coverage																												
<i>Calliarthron/Bossella</i> spp -complex			+								0.1	<1	0.3	+														
<i>Callithamnion pikeanum</i>			0.2								+	-	+	+														
<i>Callithamnion</i> spp/ <i>Pleonosporium</i> spp			-								+	-	-	+														
<i>Chondracanthus canaliculatus</i>			0.1								-	+	0.1	+														
<i>Chrysophyta</i> unid.			-								+	-	-	-														
<i>Cladophora</i> spp			<1								+	+	<1	<1														
<i>Codium seicheilli</i> (prostrate)			-								<1	-	-	-														
<i>Corallina vancouverensis</i>			1.7								1.4	1.3	1.1	1.0														
<i>Cryptopleura violacea</i>			-								+	<1	+	-														
<i>Cryptosiphonia woodii</i>			-								+	-	+	-														
<i>Endocladia muricata</i>			10.1								22.6	21.0	22.0	31.0														
<i>Gelidium coulteri</i>			0.6								1.5	0.8	1.6	0.2														
<i>Gelidium pusillum</i>			1.9								0.2	0.4	<1	+														
<i>Mastocarpus jardinii</i>			7.6								4.9	4.4	5.7	4.7														
<i>Mastocarpus papillatus</i>			10.6								9.7	8.7	21.4	19.3														
<i>Mazzaella affinis</i>			0.1								-	-	+	-														
<i>Mazzaella flaccida</i>			16.0								15.6	6.5	16.8	9.2														
<i>Mazzaella heterocarpa</i>			1.5								0.7	0.3	0.6	0.2														
<i>Mazzaella leptorhynchus</i>			-								0.1	+	+	-														
Non-coraline crust			33.5								42.8	50.6	41.4	39.1														
<i>Peletia compressa</i>			2.7								0.7	1.7	1.4	1.3														
<i>Phyllospadix</i> spp			1.7								0.8	<1	0.6	0.1														
<i>Porphyra</i> spp.			0.5								<1	<1	<1	0.3														
<i>Prionitis</i> spp			0.6								<1	<1	<1	+														
<i>Ulva/Enteromorpha</i> spp			+								-	-	-	-														
coralline crust			7.2								7.8	6.0	5.4	5.1														
juv. articulated coralline algae			-								+	0.4	0.2	-														

ns = not sampled, < 1 = measured but in low abundance, + = only recorded as present

Horizontal Band Transects - Yearly Algal Mean Cover (per 1m squared) South Control Station SC 1 at +0.3m

Taxon	Year	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
# Surveys/Year	4	6	6	6	6	6	6	6	4	6	6	6	6	4	4	4	4	4	4	4	3	2	2	2	4	4	4	2
% Coverages																												
<i>Amphileptis leprophylla</i>	-	+	<1	<1	+	<1	<1	<1	<1	+	<1	+	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Amphileptis linearis</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Amphitus japonicus</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Brongia</i> spp.	0.5	0.1	0.5	0.9	0.6	0.9	0.9	1.4	0.9	0.6	0.5	1.1	1.0	0.7	0.4	0.4	1.4	1.7	2.4	3.1	1.9	2.1	2.3	2.5	0.4	0.4	0.9	0.8
<i>Callithamnion/Boscia</i> spp.-complex	0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.2	<1	<1	+	+	+	<1	0.1	<1	+	0.1	<1	<1	0.1	<1	0.2
<i>Callithamnion plicatum</i>	0.2	0.4	0.2	0.2	0.2	0.1	0.1	<1	<1	<1	<1	+	+	+	+	+	+	+	<1	+	<1	+	+	+	<1	<1	+	+
<i>Callithamnion</i> spp./Pleurospora spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Callithamnion firma</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Callithamnion</i> spp.	21.3	20.2	19.1	24.0	19.7	27.3	33.0	22.0	29.9	16.4	9.8	13.1	14.9	17.2	19.6	20.7	21.8	25.3	30.2	32.2	28.5	26.0	24.6	36.0	27.3	29.7	29.1	
<i>Chondracanthus candelabrus</i>	<1	0.4	0.3	0.4	0.8	0.4	0.7	0.3	0.4	<1	<1	<1	<1	<1	<1	0.1	0.2	0.7	0.9	1.0	0.9	0.6	0.2	1.0	0.8	0.6	0.5	0.8
<i>Chondracanthus corymbosus</i>	<1	<1	<1	0.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
<i>Chondracanthus brevicaudatus</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Chrysophyta</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Cleodora</i> spp.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Colpomenia</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Corallina officinalis</i>	1.3	1.0	1.8	1.3	1.3	0.4	0.8	0.6	0.1	<1	<1	<1	0.1	0.1	<1	0.1	<1	0.2	0.1	0.4	0.2	<1	+	+	<1	+	+	<1
<i>Corallina wuicoverensis</i>	2.4	2.6	3.4	3.5	3.7	2.6	2.5	3.0	2.0	2.6	1.5	1.7	1.4	0.6	2.6	2.2	1.2	1.1	1.4	1.8	1.3	2.5	2.2	1.2	1.1	0.7	1.3	
<i>Cryptopleura rupestris</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Cryptopleura rupestris</i>	0.2	0.5	0.9	0.9	1.7	1.8	2.5	1.5	0.9	0.4	0.4	0.8	0.7	0.5	1.3	1.0	1.8	1.3	1.4	2.0	1.8	0.5	2.5	0.9	2.0	3.3	2.3	
<i>Cryptosiphonia violacea</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Cryptosiphonia woodii</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Cystosera ornulacea</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Derbesia maritima</i> (filamentous)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Demarestia</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Egeria menziesii</i>	0.8	<1	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
<i>Endocladia muricata</i>	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
<i>Erythropodium delacourii</i>	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Forlowia/Pilea</i> spp.-complex	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Fucus gardneri</i>	6.8	6.4	8.4	5.9	14.9	8.5	6.0	18.0	16.6	8.6	7.3	7.3	6.3	4.1	6.0	4.6	12.7	10.2	9.8	8.5	9.3	11.5	19.9	11.6	8.0	12.3	8.6	
<i>Gastrophilus subarticulatum</i>	<1	0.6	<1	0.3	<1	<1	<1	0.2	0.5	0.4	0.6	0.5	0.4	0.4	1.0	0.5	0.2	0.4	0.1	<1	<1	0.2	0.3	0.6	0.3	0.2	0.3	0.2
<i>Gelidium coulteri</i>	0.2	0.6	0.2	0.2	0.6	0.5	0.6	0.7	0.7	0.5	0.3	0.3	0.4	0.4	0.5	0.3	0.3	0.5	0.5	0.5	0.2	0.3	0.3	0.6	0.3	0.2	0.3	0.2
<i>Gelidium pusillum</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Gelidium robustum</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Gracilaria lemaneiformis</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Gracilaria doryphora</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Halosaccion emarginatum</i>	0.2	<1	0.1	<1	<1	<1	<1	<1	<1	0.1	0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
<i>Halosaccion</i> spp.-complex	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Hymenocera</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Hymenocera</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Laminaria setchellii</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Laminaria</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Mastocarpus parrisi</i>	0.3	0.7	0.8	0.7	1.4	0.9	0.7	1.1	1.5	1.2	0.9	1.6	2.1	2.5	1.2	1.3	1.5	1.7	1.7	1.8	1.4	1.9	1.7	2.5	1.8	1.5	2.0	
<i>Mastocarpus parrisi</i>	1.6	2.0	2.7	2.5	2.5	3.3	2.0	2.3	7.2	4.7	7.1	12.8	11.1	5.3	4.0	3.5	2.7	2.6	2.3	1.9	2.2	3.0	2.1	2.6	4.4	3.4	2.7	
<i>Mastocarpus affinis</i>	0.1	<1	0.1	0.2	<1	<1	<1	0.3	0.4	0.7	0.7	0.5	0.4	0.3	<1	0.2	0.3	0.3	0.5	0.2	0.3	0.3	0.6	0.7	1.9	0.8	1.5	
<i>Mastocarpus californicus</i>	55.1	43.4	41.1	47.2	47.4	48.2	51.6	37.1	25.4	24.5	38.0	47.9	47.8	52.4	55.9	56.1	47.6	40.5	40.4	42.2	36.1	37.3	33.8	31.5	32.0	44.8	35.6	
<i>Mastocarpus fasciata</i>	0.3	0.3	0.6	0.6	1.2	1.1	0.7	0.4	1.0	1.1	2.7	2.2	1.4	1.8	1.8	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
<i>Mastocarpus heterocarpa</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Mastocarpus leptorhynchus</i>	<1	0.4	0.3	0.5	1.2	0.4	0.5	0.1	0.4	0.9	0.9	0.8	0.3	0.1	0.1	0.3	0.8	0.4	0.2	1.5	1.2	-	-	-	-	-	-	-
<i>Mastocarpus liliacea</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Mastocarpus rostratus</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Mastocarpus volans</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Metobesia medocensis</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Microcladia borealis</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Microcladia coulteri</i>	1.7	0.2	0.9	0.2	0.6	0.3	0.6	0.3	0.2	0.2	0.2	1.0	0.1	<1	<1	<1	0.2	0.6	0.3	0.1	0.4	0.2	0.1	0.2	<1	<1	<1	

ns = not sampled; < 1 = measured but in low abundance; + = only recorded as present

(continued)

Horizontal Band Transects - Yearly Algal Mean Cover (per 1m squared) South Control Station SC 1 at +0.3m (continued)

Taxon	Year # Surveys/Year	1976 4	1977 6	1978 6	1979 6	1980 6	1981 6	1982 6	1983 4	1984 6	1985 6	1986 6	1987 6	1988 4	1989 4	1990 4	1991 4	1992 4	1993 4	1994 4	1995 3	1996 2	1997 2	1998 2	1999 4	2000 4	2001 4	2002 2
% Coverage																												
<i>Phaeostrophion irregulare</i>	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Phyllospadix</i> spp	15	20	36	28	37	18	14	16	12	07	01	10	04	03	02	01	12	13	17	41	49	25	49	65	63	60	20	
<i>Polysiphonia latissima</i>	<1	01	<1	02	<1	02	<1	03	<1	<1	+	<1	<1	+	<1	01	01	<1	01	02	+	-	<1	<1	+	02	02	
<i>Porphyra</i> spp.	-	01	05	02	09	03	+	16	<1	20	33	14	16	01	03	01	-	04	10	12	+	-	15	<1	07	+	+	
<i>Prionitis</i> spp.	01	06	09	13	12	08	04	09	09	05	03	06	04	02	06	05	15	21	30	26	16	10	19	24	09	10	15	
<i>Pterosiphonia dendroidea</i>	-	-	+	+	+	<1	+	+	<1	+	+	+	-	<1	-	-	-	<1	-	-	+	-	-	-	-	<1	-	
Rhodophyta (juv. blades)	-	-	<1	-	-	-	-	-	<1	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	
<i>Rhodomenia</i> spp	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	
<i>Sarcodiotheca gaudichaudii</i>	<1	01	<1	<1	02	<1	<1	<1	<1	<1	+	<1	+	-	<1	+	<1	02	02	02	03	02	02	<1	<1	01	<1	
<i>Smuthora natadum</i>	+	-	05	05	02	06	02	+	<1	<1	-	<1	+	+	+	+	+	03	+	<1	02	+	03	-	+	01	02	<1
Spongomorpha/Acrosiphonia-complex	<1	+	<1	+	-	-	-	-	11	<1	04	+	-	+	+	<1	-	+	+	03	<1	-	+	-	+	+	02	-
<i>Ulva/Enteromorpha</i> spp	07	04	27	55	07	08	11	21	42	35	22	11	05	12	41	27	32	12	10	05	02	11	02	11	12	17	25	
coralline crust	168	128	122	102	114	129	138	171	118	153	117	75	75	84	86	81	102	89	101	123	142	113	132	67	94	58	58	
filamentous red algae-complex	<1	02	<1	01	<1	02	<1	<1	<1	<1	+	<1	<1	+	+	<1	<1	<1	<1	+	+	02	+	+	+	01	<1	05
juv. articulated coralline algae	-	11	<1	06	07	<1	03	<1	02	03	06	02	02	02	02	01	01	12	07	04	14	01	10	07	02	08	05	10

ns = not sampled, <1 = measured but in low abundance, + = only recorded as present

Horizontal Band Transects - Yearly Algal Mean Cover (per 1m squared) South Control Station SC 1 at +0.9m

Taxon	Year # Surveys/Year	1976 4	1977 4	1978 6	1979 6	1980 6	1981 6	1982 6	1983 6	1984 6	1985 6	1986 6	1987 6	1988 4	1989 4	1990 4	1991 4	1992 4	1993 4	1994 4	1995 3	1996 2	1997 2	1998 2	1999 4	2000 4	2001 4	2002 2
% Coverage																												
<i>Anatopus japonicus</i>		<1	<1	+	+	+	+	<1	-	<1	<1	<1	<1	<1	+	<1	-	-	-	-	-	-	-	-	-	-	-	-
<i>Callithamnion/Bosziella</i> spp.-complex		-	-	-	-	+	+	<1	<1	+	+	+	+	+	<1	+	<1	<1	<1	<1	<1	0.5	+	+	-	-	-	-
<i>Callithamnion pikeanum</i>		<1	0.2	<1	<1	<1	<1	<1	+	+	+	+	+	+	<1	+	+	+	+	+	+	+	+	-	-	<1	+	<1
<i>Callithamnion</i> spp./Pleonosporium spp		-	-	-	+	+	-	+	-	-	-	-	-	-	-	-	-	+	+	+	+	+	+	-	-	-	-	-
<i>Chaetomorpha</i> spp.		-	-	-	-	-	-	-	1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Chondracanthus canaliculatus</i>		0.8	0.3	<1	<1	0.1	<1	0.1	0.4	0.3	0.2	0.1	<1	<1	<1	0.2	0.3	0.9	0.6	0.4	0.3	0.1	0.2	0.7	<1	0.3	0.1	0.2
<i>Chondria decipiens</i>		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Chrysophyta</i> unid.		-	-	-	-	-	-	-	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Cladophora</i> spp		0.2	<1	<1	0.2	+	<1	<1	+	<1	<1	<1	<1	0.1	+	<1	<1	+	+	<1	+	<1	<1	+	+	+	<1	<1
<i>Corallina officinalis</i>		-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Corallina vancouveriensis</i>		0.7	1.1	1.0	1.1	1.2	1.1	1.7	0.5	0.2	0.2	0.1	0.2	0.2	0.1	0.3	0.5	0.6	1.1	1.8	2.0	1.7	1.3	1.0	0.9	0.8	0.7	2.0
<i>Cryptopleura violacea</i>		-	-	-	-	-	-	+	-	-	-	-	-	-	-	+	-	<1	<1	0.2	0.2	0.1	0.1	0.4	0.2	<1	0.2	0.2
<i>Cryptosiphonia woodii</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-
<i>Cumagloia andersonii</i>		-	<1	+	-	+	-	+	<1	+	+	-	-	+	-	+	-	+	-	-	-	-	-	-	-	<1	-	-
<i>Egrelia menziesii</i>		-	-	-	-	-	-	<1	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Endocladia muricata</i>		14.6	15.9	13.5	18.6	17.5	16.1	18.5	6.2	11.1	15.9	18.7	21.3	20.1	24.4	24.9	24.8	22.6	19.0	20.3	16.3	13.0	19.7	14.6	15.7	17.7	18.6	20.1
<i>Fucaceae</i> unid.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Fucus gardneri</i>		0.3	0.4	0.2	<1	0.3	0.3	0.5	0.3	0.2	<1	-	-	-	<1	<1	0.1	0.6	0.7	0.3	0.3	0.6	0.4	0.1	0.1	0.1	<1	1.3
<i>Gastroclonium subarticulatum</i>		<1	-	-	-	-	-	-	+	-	+	-	-	-	-	-	-	<1	-	+	+	-	<1	0.1	<1	<1	<1	-
<i>Gelidium coulteri</i>		0.1	0.3	0.4	0.6	0.6	0.6	0.6	2.1	1.8	0.6	0.2	0.1	<1	<1	0.1	0.1	0.2	<1	0.1	<1	+	+	<1	<1	<1	0.2	<1
<i>Gelidium pusillum</i>		1.6	2.7	1.1	0.7	0.9	0.9	0.8	1.2	2.0	0.5	<1	+	+	<1	<1	<1	0.3	0.5	0.5	0.2	0.1	0.5	0.3	0.4	0.2	0.1	0.2
<i>Gelidium</i> spp		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Halosaccion americanum</i>		0.3	0.1	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-
<i>Halymenia/Schizymenia</i> spp.-complex		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-
<i>Hesperophycus californicus</i>		<1	0.2	0.1	0.2	0.3	0.3	-	-	-	-	-	-	-	-	-	+	<1	-	-	-	-	+	0.1	<1	0.1	-	-
<i>Mastocarpus jordanii</i>		4.3	4.5	4.0	3.3	3.6	3.2	2.9	0.9	0.5	0.9	1.1	1.0	1.0	0.9	1.3	1.1	2.7	2.4	2.8	1.7	2.2	1.5	1.3	2.1	1.2	2.3	2.4
<i>Mastocarpus papillatus</i>		25.6	23.6	24.3	24.0	22.8	22.6	25.3	13.9	14.6	10.0	9.0	11.6	13.0	13.2	16.0	18.3	21.5	22.3	27.7	27.5	21.0	26.0	21.3	16.3	7.5	13	9.4
<i>Mazzaella affinis</i>		0.1	0.1	0.2	0.5	0.1	0.1	<1	0.2	0.2	0.1	<1	<1	<1	+	0.1	0.4	0.3	0.4	0.3	0.1	0.1	0.1	0.1	0.2	0.4	<1	0.6
<i>Mazzaella flaccida</i>		11.1	11.0	8.5	10.0	7.3	5.4	6.6	3.3	1.8	1.5	1.2	1.4	1.2	0.7	1.5	1.6	2.6	3.2	4.3	3.2	2.0	3.0	2.9	3.2	1.6	2.3	3.4
<i>Mazzaella heterocarpa</i>		0.3	0.3	0.1	0.3	0.4	0.4	0.4	0.2	0.1	0.3	0.3	0.7	0.4	0.3	0.4	0.6	0.8	0.7	0.8	0.7	0.2	0.1	1.3	0.5	0.5	1.1	0.4
<i>Mazzaella leptorhynchus</i>		-	-	-	+	-	-	<1	+	<1	<1	<1	<1	<1	+	+	+	<1	+	<1	+	+	+	+	<1	+	<1	+
<i>Nemalion helminthoides</i>		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-coraline crust		23.4	20.5	23.3	20.8	22.8	23.9	24.6	17.9	12.8	12.6	15.5	19.4	21.7	20.1	21.7	19.8	21.0	20.7	20.6	18.4	21.2	17.9	19.7	22.4	19.1	17.3	19.4
<i>Osmundea</i> spp		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Pelvetia compressa</i>		4.4	3.5	4.6	4.0	4.7	5.0	4.0	2.0	1.7	1.8	2.2	2.4	2.7	2.6	2.8	3.7	6.1	7.1	9.4	8.5	6.4	7.5	6.0	7.6	8.1	9.3	6.8
<i>Phyllospadix</i> spp		-	+	-	+	+	+	+	-	-	+	+	+	+	+	-	-	<1	-	-	-	+	-	-	+	+	+	+
<i>Plocamium violaceum</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Porphyra</i> spp		0.3	0.8	0.3	0.4	0.2	0.3	+	1.7	0.5	<1	0.2	<1	0.1	-	<1	<1	<1	0.6	0.6	0.3	0.1	0.2	7.1	1.3	<1	0.3	0.4
<i>Prionitis</i> spp		1.1	-	-	-	-	-	-	+	-	-	+	-	-	-	-	-	-	-	-	+	-	-	+	-	-	-	-
<i>Pterosiphonia dendroidea</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Rhodophyta</i> (juv. blades)		-	-	<1	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Scytosiphon</i> spp.		-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Spongomorpha/Acrosiphonia</i> -complex		-	+	-	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<1	-	-
<i>Ulva/Enteromorpha</i> spp.		-	+	<1	+	+	<1	+	0.4	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<1	<1	+
coralline crust		2.4	4.1	4.7	4.1	4.7	4.1	3.5	5.0	1.2	1.1	1.4	1.4	2.1	1.0	1.3	1.4	2.6	2.7	4.5	6.3	7.3	5.8	4.8	5.1	4.0	3.4	6.2
filamentous red algae-complex		<1	0.2	0.2	0.1	0.2	0.1	+	-	-	+	-	-	+	+	-	-	-	-	-	+	-	-	<1	-	+	-	-
juv. articulated coralline algae		-	<1	<1	-	-	-	-	+	+	<1	+	+	+	<1	+	<1	<1	<1	<1	<1	+	+	<1	<1	<1	+	0.1

ns = not sampled, < 1 = measured but in low abundance; + = only recorded a present

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) North Control Station NC 1 at +0.3m (Based on 5 "Tegula" Count Quadrats)

[illegible]

ns = not sampled; < 1 = measured but in low abundance; + = only recorded as present

(continued)

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) North Control Station NC 1 at +0.9m (Based on 5 "Tegula" Count Quadrats)

Taxon	Year # Surveys/Year	1976 4	1977 4	1978 5	1979 6	1980 5	1981 6	1982 5	1983 4	1984 3	1985 6	1986 5	1987 6	1988 4	1989 4	1990 4	1991 4	1992 4	1993 4	1994 4	1995 3	1996 2	1997 2	1998 2	1999 4	2000 4	2001 4	2002 2
Counted Regardless of Size																												
<i>Acanthina</i> spp.	-	-	-	-	<1	-	-	-	-	0.4	<1	0.1	0.3	-	-	0.1	<1	<1	-	-	0.1	-	0.1	<1	-	-	-	0.1
<i>Anthopleura elegantissima</i>	13.2	8.3	10.3	12.5	14.4	16.1	6.9	4.7	3.8	5.9	6.9	7.8	4.7	4.3	5.6	3.4	2.7	2.5	2.8	2.1	2.1	1.8	2.0	1.8	7.0	10.6	7.3	
<i>Balanus</i> spp.	-	+	0.2	<1	-	0.2	<1	0.6	-	1.4	0.4	-	-	-	-	<1	-	-	-	-	0.1	-	-	-	-	-	-	-
<i>Calliostoma ligatum</i>	-	-	-	0.3	0.3	<1	0.1	<1	<1	<1	0.3	<1	<1	<1	<1	0.2	<1	<1	0.3	0.5	<1	-	0.1	0.3	0.2	<1	0.2	
<i>Epilactis prolifera</i>	0.1	<1	<1	<1	0.2	0.1	<1	<1	0.2	0.5	0.4	0.2	-	0.1	0.1	<1	<1	0.4	0.3	0.5	<1	-	0.1	0.3	0.2	-	0.2	
<i>Fissurella volcano</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	
<i>Fusinus luteopictus</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Halotis</i> spp.	0.2	0.2	0.2	0.1	0.2	0.2	<1	0.7	0.2	0.4	0.7	0.8	0.6	0.6	0.6	0.6	0.4	0.6	0.2	-	-	0.1	-	-	-	-	-	
<i>Hemigrapsus nudus</i>	-	-	<1	-	<1	0.2	<1	0.2	-	-	<1	-	<1	-	-	<1	-	<1	-	-	-	-	-	-	-	-	-	
<i>Lepidasterias</i> spp.	0.2	0.2	0.3	0.7	0.4	0.5	0.4	0.4	<1	<1	0.2	0.4	0.2	0.2	0.2	0.7	0.8	0.2	0.7	0.8	0.2	0.4	0.2	0.3	0.4	0.7	0.3	
<i>Lottia digitalis</i>	-	-	-	<1	-	0.2	-	-	-	-	0.5	-	-	-	0.1	-	-	-	-	0.1	-	0.1	-	-	<1	-	-	
<i>Lottia lomatula</i>	0.3	0.2	0.5	1.3	0.9	1.6	1.2	0.6	1.3	1.5	2.0	0.8	2.3	1.6	1.3	1.7	1.2	1.3	0.3	0.4	0.8	0.8	0.4	2.6	4.7	0.9	1.1	
<i>Lottia pelta</i>	<1	0.3	0.6	0.8	0.4	1.1	0.6	0.3	6.6	2.1	0.7	0.2	0.2	0.1	0.3	0.4	0.3	0.3	-	-	-	-	0.3	2.3	0.8	0.4	0.4	
<i>Macclintockia scabra</i>	1.8	1.3	6.9	5.5	8.0	16.1	11.7	15.9	130.0	132.2	96.5	25.1	11.2	14.0	14.9	7.3	1.9	2.3	0.5	0.7	0.3	0.4	2.1	7.5	3.3	2.6	2.5	
<i>Mopalia</i> spp.	-	-	0.1	<1	<1	<1	<1	0.2	0.2	<1	0.4	0.6	0.2	0.4	0.3	0.1	<1	<1	0.2	0.2	-	0.3	-	0.5	0.6	0.6	0.2	
<i>Nucella emarginata</i>	<1	+	<1	-	-	-	-	-	-	-	<1	<1	-	-	-	-	-	-	-	-	-	-	-	<1	<1	-	0.1	
<i>Ocenebra</i> spp.	-	<1	0.2	0.8	0.8	0.4	0.3	0.4	1.5	2.5	1.6	0.7	0.5	0.2	0.9	0.4	0.7	0.8	0.3	0.2	0.1	0.2	0.4	0.5	0.4	0.1	0.5	
<i>Pachygrapsus crassipes</i>	0.2	0.1	0.2	0.1	0.3	0.3	0.3	0.6	0.1	0.3	0.5	0.2	0.5	0.7	0.8	0.5	0.4	0.9	0.3	0.5	0.6	0.4	0.1	0.1	0.6	0.6	1.1	
<i>Pagurus</i> spp.	6.5	6.9	16.7	14.6	19.5	22.8	17.1	15.7	12.9	13.6	11.3	12.0	10.7	14.3	25.8	38.5	29.8	27.4	23.1	27.3	27.5	11.3	8.2	8.2	11.7	10.3	12.7	
<i>Puaster ochraceus</i>	-	-	<1	-	-	<1	-	-	-	<1	<1	-	-	-	0.1	-	-	-	-	0.2	<1	-	-	-	-	-	-	
<i>Pseudomelasma torosa</i>	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Strongylocentrotus purpuratus</i>	<1	0.1	<1	0.2	0.3	0.2	0.2	<1	<1	<1	<1	<1	<1	-	0.1	<1	-	-	<1	0.5	0.1	0.2	-	<1	0.2	0.5	0.7	
<i>Tectura persona</i>	<1	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Tectura scutum</i>	0.6	0.2	1.2	1.7	1.7	1.1	3.9	1.2	3.0	2.2	3.0	1.8	1.0	1.0	1.4	0.5	-	0.6	0.5	-	0.4	-	0.2	0.3	0.9	0.6	0.1	
<i>Tegula brunnea</i>	0.2	-	-	0.1	<1	<1	0.3	<1	<1	<1	<1	<1	-	0.2	-	0.1	<1	-	-	-	-	0.4	-	-	<1	-	-	
<i>Tegula funebris</i>	65.8	69.2	129.7	131.2	162.9	119.9	122.3	190.1	151.3	272.2	290.4	249.8	230.3	212.2	203.6	146.1	118.7	110.7	86.5	157.1	123.6	127.4	127.2	110.6	91.5	92.8	101.4	
<i>Terracina rubescens</i>	0.2	1.9	2.0	0.4	0.6	1.9	0.7	2.6	0.7	1.3	0.5	0.1	0.3	0.3	0.3	0.7	3.3	1.5	<1	0.2	0.3	-	0.8	-	0.1	<1	0.6	
Only Counted If Greater than 1"																												
<i>Acmaea mitra</i>	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	
<i>Acmaeidae</i> unid.	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Alia</i> spp.	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	
<i>Barleeia</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	
<i>Blittium</i> spp.	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	
<i>Cancer</i> spp.	-	-	+	-	-	-	<1	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	
<i>Chaetopteridae</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	+	-	-	-	-	
<i>Cirratulidae/Terebellidae</i> unid.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Crepidula</i> spp.	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Cyanoplax</i> spp.	-	-	-	-	-	<1	+	-	-	0.3	0.3	0.1	0.2	+	0.1	-	-	-	<1	<1	-	-	-	-	-	<1	0.1	
<i>Diaulula sandiegensis</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Diodora</i> spp.	-	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Grapsidae</i> (juv.)	-	-	<1	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Hemigrapsus oregonensis</i>	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Heptacarpus</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Hermisenda crassicornis</i>	-	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Hippolyte</i> spp.	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Homolo, luridum/Lirularia succincta</i>	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Idotea</i> spp.	<1	-	<1	<1	-	<1	<1	-	-	-	-	-	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-	-	
<i>Ischnochitonidae</i>	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Isopoda</i> unid.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Lacuna</i> spp.	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Lissothuria nuttensis</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Littorina</i> spp.	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Lophopanopeus</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Lottia asmi</i>	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	0.1	+	+	+	+	+	
<i>Lottia gigantea</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	-	
<i>Lottia ochracea</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	

ns = not sampled; <.1 = measured but in low abundance; + = only recorded as present.

(continued)

(continued)

[illegible]

ns = not sampled, < 1 = measured but in low abundance, + = only recorded as present

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) North Control Station NC 2 at +0.3m (Based on 5 "Tegula" Count Quadrats)

Taxon	Year	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
	# Surveys/Year	4	2	5	6	5	6	4	3	3	6	4	6	ns	1	4	4	4	4	4	2	ns	ns	ns	4	4	4	2
Controlled Retardation of Size																												
<i>Acrothrips</i> spp.		79	109	104	81	54	62	64	39	35	55	82	84	<1	38	30	63	40	51	35	41				23	81	<1	72
<i>Anthophora elegantissima</i>			03		<1						02	02				<1			<1									
<i>Callitropa ligatum</i>																												
<i>Conus californicus</i>		02	08	34	49	48	17	10	10	1.1	09	13	07		24	10	19	20	13	08	17				11	09	05	
<i>Epilachna profligata</i>		03	02	03	01	03	03	02	02	25	08		04		10	10	14	12	15	08	06				1.3	02	03	07
<i>Fusurella volcano</i>		01	04	02	<1	<1	<1	<1	<1	<1	<1				06	22	06	08	02	04	09				03	05	06	05
<i>Leptasterias</i> spp.		<1	02	03	10	<1	08	06	03	01	04	16	20															
<i>Littorina digitata</i>		<1	02	02	<1	<1	<1	01	07	04	12	12	01			01	02	06	06	03					40	16	12	26
<i>Littorina littorea</i>		01	03	06	04	04	10	03	03	155	85	07	<1			<1	03	02	05	09	07				128	43	10	05
<i>Macchirobia scabra</i>		<1	02	09	<1	02	02	03	03	190	621	762	104		02	02	03	01	01	02	03				27	70	10	41
<i>Mopalia</i> spp.		<1		<1	01	01	03	03	01	04	07	10	12			03	03	<1	<1	03	01				<1	05	<1	02
<i>Ocenebra</i> spp.			<1	<1	01	02	05	03	<1	04	07	10	12			<1	01	01	01	02					02	02	02	03
<i>Pachygyrus crassipes</i>		55	68	66	122	153	209	164	111	103	129	98	111		132	255	253	193	144	125	186				134	88	146	168
<i>Pagurus</i> spp.			0.1			<1					<1					<1	<1	01										
<i>Pleurostoma ochraceus</i>																												
<i>Pseudomelasma tonsa</i>						<1	<1	<1																				
<i>Strongylocentrotus purpuratus</i>		49																										
<i>Tectaria palacae</i>																												
<i>Tectaria personata</i>		01																										
<i>Tectaria scutum</i>		05	03	14	03	08	11	09	03	49	128	44	08		20	08	13	05	05	08	08				20	44	22	60
<i>Tegula brunnea</i>		133	18	242	293	185	140	162	67	62	41	59			28	100	72	59	36	43	80				34	29	31	27
<i>Tegula funebilis</i>		124	195	113	110	166	194	108	378	78	183	427	687		592	400	300	289	191	125	372				179	364	224	285
<i>Tenaculum rubescens</i>		03		02	14	08	21	28	06	25	70	51	05			<1	09	34	06	27	01				12	18	04	16
Only Counted if Greater than 1																												
<i>Acanthina</i> spp.		<1			<1							<1																
<i>Acmaea</i> spp.																												
<i>Alia</i> spp.																												
<i>Amphissa</i> spp.																												
<i>Asteria</i> spp.																												
<i>Bartelia</i> spp.																												
<i>Bitum</i> spp.																												
<i>Cancer antennarius</i>																												
<i>Cancer productus</i>																												
<i>Cancer</i> spp.																												
<i>Chaetoptera</i>																												
<i>Clavelina lemniscata</i>																												
<i>Crepidula</i> spp.																												
<i>Cymatoplex</i> spp.																												
<i>Diodora</i> spp.																												
<i>Diopatra</i> spp.																												
<i>Discaria</i> spp.																												
<i>Euperidactylus</i>																												
<i>Grapsidae</i> (juv)																												
<i>Haliotis</i> spp.																												
<i>Hemirhamphus</i>																												
<i>Hippocampus</i> spp.																												
<i>Homolus</i>																												
<i>Isopoda</i> spp.																												
<i>Isopoda</i> und.																												
<i>Leptocarpus</i> spp.																												
<i>Lipidodonta</i> spp.																												
<i>Littorina</i> spp.																												
<i>Littorina</i> spp.																												

ns = not sampled, <1 = measured but in low abundance, + = only recorded as present

(continued)

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) North Control Station NC 2 at +0.3m (Based on 5 "Tegula" Count Quadrats)

Taxon	Year	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
	Survey/Year	4	2	5	6	5	6	4	3	3	6	4	6	na	1	4	4	4	4	4	2	na	na	na	4	4	4	2
Only Counted if Greater than 1																												
<i>Lithopoma gibberosum</i>		.	.	.	<1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Littorina</i> spp.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Littorina asini</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Littorina gigantea</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Littorina lineatilis</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Littorina lineatilis</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Littorina ochracea</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Littorina lineatilis</i> spp.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Macoma</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Macoma balthica</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Macoma balthica</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Macoma balthica</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Macoma balthica</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Macoma balthica</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Macoma balthica</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Macoma balthica</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Macoma balthica</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Macoma balthica</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Macoma balthica</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Macoma balthica</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Macoma balthica</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Macoma balthica</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Macoma balthica</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Macoma balthica</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Macoma balthica</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Macoma balthica</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Macoma balthica</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Macoma balthica</i>		.	.	.	.	.																						

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) North Control Station NC 2 at +0.9m (Based on 5 "Tegula" Count Quadrats)

Taxon	Year	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
	# Surveys/Year	4	2	5	6	5	6	5	4	3	6	5	6	ns	1	4	4	4	4	4	2	ns	ns	ns	4	4	4	2
Coated Breachers of Size																												
<i>Acanthina</i> spp.		-	-	01	<1	<1	01	02	02	-	02	<1	02	02	-	01	01	02	02	03	05				<1	01	02	+
<i>Amphileura elegantissima</i>		78	172	161	171	184	108	98	72	85	161	144	154		208	141	178	205	123	132	180			156	139	171	16.9	
<i>Amphileura xanillogrammica</i>		02	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-			-	-	-	-	
<i>Balanus</i> spp.		-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	
<i>Calliostoma ligatum</i>		-	-	03	<1	-	-	-	<1	-	-	-	-	-	-	-	-	-	01	-	-			<1	-	<1	-	
<i>Egarrhis prolifera</i>		-	-	<1	-	<1	-	<1	01	01	02	-	<1	-	-	-	-	-	<1	01	-			<1	<1	-	-	
<i>Fissurella volcano</i>		-	-	06	<1	<1	<1	<1	01	07	<1	<1	<1	-	-	-	-	-	-	-	-			-	-	-	0.5	
<i>Hemiterys nudus</i>		-	-	<1	<1	<1	03	02	02	07	<1	01	02	-	-	-	-	-	-	-	-			-	-	-	-	
<i>Lepidasteris</i> spp.		01	-	03	03	02	03	02	03	<1	02	<1	<1	02	02	<1	01	01	02	<1	03			<1	02	03	0.6	
<i>Lonia digitalis</i>		03	-	<1	04	05	02	03	02	<1	02	02	02	-	20	<1	17	10	21	22	16			03	04	<1	0.6	
<i>Lonia limicola</i>		04	09	12	13	25	36	22	21	35	28	22	16	06	03	05	06	06	07	02	20			39	09	20	0.5	
<i>Lonia pelia</i>		02	-	01	02	03	06	03	10	07	09	05	06	06	280	259	159	140	62	74	115			409	325	114	5.5	
<i>Mecynocochlea scabra</i>		<1	-	<1	02	04	06	06	02	02	09	08	04	04	04	04	04	02	03	02	06			02	02	02	0.6	
<i>Mopalia</i> spp.		04	01	14	16	17	11	17	13	17	27	26	40	26	15	28	26	36	25	39	39			10	12	17	1.3	
<i>Nucella emarginata</i>		-	-	03	01	02	06	05	08	07	04	04	03	03	05	06	06	05	03	03	04			03	05	08	0.6	
<i>Ocenebra</i> spp.		-	-	03	01	02	06	05	08	07	04	04	03	03	05	06	06	05	03	03	04			86	74	262	26.6	
<i>Pachygnathus crassipes</i>		221	58	<1	-	-	-	-	-	-	-	-	<1	-	138	160	408	273	99	179	194			<1	<1	<1	<1	
<i>Pagurus</i> spp.		-	-	112	269	102	199	280	104	217	173	88	103	<1	-	-	-	-	-	-	01			-	-	-	-	
<i>Pilaster echinaceus</i>		-	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	
<i>Strongylocentrotus purpuratus</i>		-	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	
<i>Tectura scutum</i>		15	17	13	12	31	30	44	16	38	43	28	23	36	28	27	20	20	17	23	23			31	36	25	4.0	
<i>Tegula barneae</i>		-	-	<1	-	02	-	-	-	-	<1	<1	-	257.4	1402	1445	1482	1347	02	<1	-			84.0	139.4	1272	90.0	
<i>Tegula funiculata</i>		1140	1187	1885	1847	2345	1645	1490	1734	1605	1662	1537	1227	-	-	-	-	-	-	-	-			-	-	-	-	
<i>Terrachia rubescens</i>		-	-	04	-	<1	05	09	23	33	48	44	1.5	-	-	01	07	02	02	02	190.2			-	-	-	0.2	
Only Coated If Greater than 1"																												
Acanthidae und.		03	-	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	06	+	+			+	+	+	+	
<i>Alia</i> spp.		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	+	
<i>Amphistea</i> spp.		-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	+	
<i>Borsetia</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Bittium</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
Cerithiidae/Teretiidae und.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Crepidula</i> spp.		-	-	+	+	04	-	<1	+	02	02	08	01	02	06	02	02	02	<1	02	02			0.2	0.2	0.2	0.2	
<i>Cyrenoida</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Dicathula sandiegensis</i>		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Epilachna californica</i>		-	-	01	+	+	+	+	+	+	+	<1	+	+	+	+	+	+	+	+	+			+	<1	+	+	
Gastropoda (Iuv.)		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Hippocampus</i> spp.		-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Homolo lundiana</i> / <i>Littoriana saccharata</i>		-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Isoera</i> spp.		-	-	<1	<1	<1	-	-	-	-	-	-	-	-	<1	+	+	+	+	+	+			+	+	+	+	
Ischnochitonidae		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Lacuna</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Littorina</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Littorina</i> spp.		-	-	<1	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Littorina</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Littorina</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Littorina</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Littorina</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Littorina</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Littorina</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Littorina</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Littorina</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Littorina</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Littorina</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Littorina</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Littorina</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Littorina</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Littorina</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Littorina</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Littorina</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Littorina</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Littorina</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Littorina</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Littorina</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Littorina</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Littorina</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Littorina</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Littorina</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Littorina</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Littorina</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Littorina</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Littorina</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Littorina</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Littorina</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	
<i>Littorina</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							

ns = not sampled; <.1 = measured but in low abundance, + = only recorded as present

(continued)

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) North Control Station NC 2 at +0.9m (Based on 5 "Tegula" Count Quadrats)
(continued)

Taxon	Year # Surveys/Year	1976 4	1977 2	1978 5	1979 6	1980 5	1981 6	1982 5	1983 4	1984 3	1985 6	1986 5	1987 6	1988 ns	1989 1	1990 4	1991 4	1992 4	1993 4	1994 4	1995 2	1996 ns	1997 ns	1998 ns	1999 4	2000 4	2001 4	2002 2
Only Counted if Greater than 1"																												
<i>Onchidella borealis</i>		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Pachycheilus</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2
<i>Petrolisthes</i> spp.		-	-	-	0.1	-	<1	-	-	-	-	<1	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-
<i>Pisaster/Henricia</i> (juv.)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-
<i>Pollicipes polymerus</i>		-	-	-	+	-	+	-	-	-	+	+	+	-	0.2	10	10	18	0.8	0.9	10	-	-	-	14	12	0.7	24
<i>Pugetia</i> spp.		-	-	-	-	-	<1	-	-	-	-	<1	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
<i>Pycnogonida</i> unid.		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Serpulidae</i> unid.		-	-	-	-	-	-	-	+	-	-	<1	+	-	-	-	-	-	-	+	+	-	-	-	+	+	<1	-
<i>Sipuncula</i> unid.		-	-	-	-	-	-	-	-	-	+	+	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-
<i>Tricolia</i> spp.		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Trimusculus reticulatus</i>		-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
% Coverage																												
Bryozoa, unid. (encrusting)		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
<i>Chthamalus fissus</i>		0.7	0.1	0.1	<1	+	0.1	0.3	+	+	0.4	0.6	0.6	-	-	+	+	0.1	0.1	+	+	-	-	+	+	0.5	0.3	-
<i>Haliclona</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Phragmatopoma californica</i>		-	-	+	+	+	+	+	<1	+	+	+	+	-	+	+	+	+	+	+	+	-	-	+	+	+	+	-
<i>Pista</i> spp.		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Porifera unid. (encrusting)		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	+	+	-	-	-	-	-	-	-
<i>Salmacina tribranchiata</i>		-	-	-	-	-	-	-	-	+	+	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
Spirorbidae		-	-	+	+	-	<1	+	0.2	+	+	+	+	-	+	+	+	<1	+	+	+	-	-	+	+	+	+	+
tunicates, colonial/social unid.		-	-	+	-	-	+	-	-	-	-	-	-	-	-	-	-	+	-	+	-	-	-	-	-	-	+	-

ns = not sampled, < 1 = measured but in low abundance, + = only recorded as present

(drafts),

(continued)

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) Field's Cove Station FC 1 at +0.9m (Based on 5 "Tegula" Count Quadrats)

Taxon	Year # Surveys/Year	1976 4	1977 2	1978 ns	1979 ns	1980 ns	1981 ns	1982 ns	1983 ns	1984 1	1985 2	1986 3	1987 3	1988 ns	1989 1	1990 4	1991 4	1992 4	1993 4	1994 4	1995 4	1996 4	1997 3	1998 4	1999 4	2000 4	2001 4	2002 2
Counted Regardless of Size																												
<i>Acanthina</i> spp	02	-	-	-	-	-	-	-	-	06	07	34	19	-	14	20	25	17	11	08	08	11	13	15	09	09	04	16
<i>Anthopleura elegantissima</i>	133.9	206.5	-	-	-	-	-	-	-	359.8	223.4	251.2	259.3	-	265.0	271.4	316.1	322.2	231.1	222.8	151.6	161.9	152.7	155.5	172.7	151.7	199.8	145.5
<i>Anthopleura xanthogrammica</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-
<i>Conus californicus</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Epilactis prolifera</i>	02	-	-	-	-	-	-	-	-	-	-	<1	-	-	02	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Fissurella volcano</i>	-	-	-	-	-	-	-	-	-	04	-	<1	-	-	-	-	-	-	-	-	<1	-	-	-	<1	<1	-	0.1
<i>Halotis</i> spp	1.2	1.8	-	-	-	-	-	-	-	04	04	03	04	-	-	<1	01	-	<1	-	<1	-	-	-	-	-	-	-
<i>Hemigrapsus nudus</i>	-	01	-	-	-	-	-	-	-	-	04	<1	-	-	02	-	-	<1	<1	<1	01	-	01	01	-	01	-	01
<i>Lepidasterias</i> spp.	<1	01	-	-	-	-	-	-	-	-	-	-	0.1	-	-	-	-	<1	-	-	-	01	<1	-	-	-	-	-
<i>Lotia digitalis</i>	-	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	01	-	-	-	-	02	-	-
<i>Lotia limatula</i>	06	05	-	-	-	-	-	-	-	18	67	44	50	-	52	41	42	28	42	28	25	42	28	35	38	37	30	32
<i>Lotia pelia</i>	02	-	-	-	-	-	-	-	-	-	03	03	-	-	06	03	05	<1	03	04	04	05	05	10	12	13	04	06
<i>Macclintockia scabra</i>	129	39	-	-	-	-	-	-	-	92	453	426	464	-	750	655	673	327	367	92	58	122	149	113	328	161	232	238
<i>Mopalia</i> spp	<1	-	-	-	-	-	-	-	-	-	02	04	03	-	-	05	02	01	<1	02	03	01	02	02	02	<1	01	-
<i>Nucella emarginata</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	<1	-	-	-	-	-
<i>Ocenebra</i> spp	<1	-	-	-	-	-	-	-	-	60	09	25	43	-	12	36	31	26	25	17	11	14	11	06	04	12	07	14
<i>Pachygrapsus crassipes</i>	03	-	-	-	-	-	-	-	-	06	15	07	13	-	14	08	20	11	07	09	10	15	12	09	06	05	04	01
<i>Pagurus</i> spp.	33.5	53.5	-	-	-	-	-	-	-	23.2	23.8	26.7	39.4	-	32.0	29.4	33.6	34.6	44.9	29.4	41.3	62.1	20.7	19.7	18.8	26.9	38.7	15.4
<i>Pisaster ochraceus</i>	<1	-	-	-	-	-	-	-	-	0.2	01	<1	-	-	-	<1	<1	01	02	03	04	01	-	<1	<1	01	01	01
<i>Strongylocentrotus purpuratus</i>	-	01	-	-	-	-	-	-	-	02	02	01	01	-	-	01	01	02	02	03	04	03	<1	02	-	02	06	-
<i>Tectura persona</i>	02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Tectura scutum</i>	06	06	-	-	-	-	-	-	-	06	11.1	46	19	-	66	37	32	06	15	13	19	13	13	07	34	36	28	16
<i>Tegula brunnea</i>	02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
<i>Tegula funebralis</i>	281.2	233.5	-	-	-	-	-	-	-	260.4	321.5	235.7	269.7	-	267.6	386.6	310.7	271.2	284.6	261.0	214.5	194.7	249.9	221.3	326.3	272.1	255.2	199.6
<i>Tetraclita rubescens</i>	-	-	-	-	-	-	-	-	-	-	01	-	<1	-	-	-	03	+	01	03	09	01	-	<1	<1	-	-	-
Only Counted If Greater than 1"																												
<i>Acmaea mitra</i>	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	+	+	+	-	-	-	-	+	+	+	+	+
<i>Acmaeidae</i> unid.	03	-	-	-	-	-	-	-	-	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Aeolidia papillosa</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	-	<1	-	-	-	-	-	-	-	-	-
<i>Alia</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	-	+	-	-	-	+
<i>Amphissa</i> spp	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	-	-	-	-	-	+
<i>Bitum</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	-	-	-	-	-
<i>Cirratulidae/Terebellidae</i> unid.	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	+	<1	-	-	-	01	-	-	+	+	-	-
<i>Crepidula</i> spp.	-	-	-	-	-	-	-	-	-	+	+	+	+	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Cyanoplax</i> spp	-	01	-	-	-	-	-	-	-	06	30	01	07	-	20	3.1	1.8	1.8	09	10	11	08	12	07	06	10	1.5	15
<i>Diadula sandiegensis</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	-
<i>Discurria inessa</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Grapsidae</i> (juv.)	-	-	-	-	-	-	-	-	-	+	+	+	+	-	-	+	+	+	+	+	-	-	+	-	-	+	+	-
<i>Hemigrapsus oregonensis</i>	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	+	+	-	<1	-	+	-	-	-	-	-	-
<i>Heptacarpus</i> spp	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	+	+	-	-	+	+	-	-	-	-	-	-
<i>Hippinx</i> spp	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Homolo. luridum/Lirularia succincta</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	-	+	-	-	-	-	-	-	-
<i>Idotea</i> spp	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-
<i>Ischnochitonidae</i>	-	-	-	-	-	-	-	-	-	-	+	<1	+	-	-	+	+	+	+	+	+	+	-	-	-	+	+	-
<i>Lacuna</i> spp.	-	-	-	-	-	-	-	-	-	-	+	+	+	-	-	+	+	+	-	+	+	+	-	-	-	-	-	-
<i>Lepidozona</i> spp	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	-	+	+	+	-	-	-	-	-	-
<i>Littorina</i> spp.	-	-	-	-	-	-	-	-	-	+	+	+	+	-	-	+	+	+	+	+	+	+	+	04	+	+	+	+
<i>Lophopanopeus</i> spp	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
<i>Lotia asmi</i>	-	-	-	-	-	-	-	-	-	+	+	+	+	-	+	+	+	<1	+	+	+	+	+	+	+	+	+	+
<i>Lotia ochracea</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
<i>Majidae</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Nemertea</i> unid	-	-	-	-	-	-	-	-	-	04	+	<1	02	-	08	02	<1	<1	<1	<1	02	<1	03	01	+	<1	+	01
<i>Nereididae</i> unid.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1	-	<1	<1	-	-	-	-	-	-
<i>Nitidiscala/Opalia</i> spp	-	-	-	-	-	-	-	-	-	+	+	+	+	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Nuttallina californica</i>	-	-	-	-	-	-	-	-	-	04	01	<1	02	-	-	04	02	-	03	-	-	<1	-	-	04	02	<1	01
<i>Octopus</i> spp	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-

ns = not sampled, <.1 = measured but in low abundance, + = only recorded as present

(continued)

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) Field's Cove Station FC 1 at +0.9m (Based on 5 "Tegula" Count Quadrats)
(continued)

Taxon	Year # Surveys/Year	1976 4	1977 2	1978 ns	1979 ns	1980 ns	1981 ns	1982 ns	1983 ns	1984 1	1985 2	1986 3	1987 3	1988 ns	1989 1	1990 4	1991 4	1992 4	1993 4	1994 4	1995 4	1996 4	1997 3	1998 4	1999 4	2000 4	2001 4	2002 2
<u>Only Counted if Greater than 1"</u>																												
<i>Pelecypoda</i> unid.		-	-							-	-	-	-		-	-	-	+	-	-	-	-	-	-	-	-	-	-
<i>Petrolisthes</i> spp.		-	-							-	+	-	-		-	-	-	-	+	-	-	-	-	-	-	-	-	-
<i>Polychaeta</i> unid		-	-							-	+	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Polynoidae</i>		-	-							-	+	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Pugettia</i> spp		-	-							-	-	<1	-		-	-	-	+	-	-	-	-	<1	-	-	+	-	-
<i>Serpulidae</i> unid.		-	-							-	+	-	-		-	+	+	<1	<1	+	+	<1	-	+	+	<1	0.1	0.2
<i>Sipuncula</i> unid.		-	-							-	0.2	-	+		-	+	+	-	+	+	+	+	+	+	+	+	-	-
<i>Stenoplax</i> spp.		-	-							-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	<1	-
<i>Tonicella lineata</i>		-	-							-	-	-	-		-	-	+	-	-	-	-	-	-	-	-	-	-	-
<i>Tricolia</i> spp.		-	-							-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	+	-
<i>Xanthidae</i> unid.		-	-							-	-	<1	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<u>% Coverage</u>																												
<i>Bryozoa</i> , unid. (encrusting)		-	-							-	+	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Chthamalus fissus</i>		1.0	<1							0.1	<1	0.4	0.8		1.5	2.0	1.4	1.4	0.4	0.2	0.6	0.4	0.4	+	<1	+	0.1	0.3
<i>Haliclona</i> spp		-	-							-	+	-	-		+	-	+	-	-	-	-	+	-	-	-	-	-	-
<i>Phragmatopoma californica</i>		-	0.1							0.3	<1	<1	0.1		2.4	2.0	1.2	2.0	0.9	0.3	0.1	+	0.3	<1	0.6	0.5	0.5	1.3
<i>Pista</i> spp.		-	-							-	-	-	-		-	+	+	-	-	-	-	-	-	-	-	-	-	-
<i>Porifera</i> unid (encrusting)		-	-							-	-	-	+		+	-	-	-	-	-	-	+	-	-	-	+	-	-
<i>Spirorbidae</i>		-	-							+	+	+	+		-	+	-	+	+	+	+	+	+	+	+	+	-	+

ns = not sampled, < 1 = measured but in low abundance, + = only recorded as present

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) Field's Cove Station FC 2 at +0.3m (Based on 5 "Tegula" Count Quadrats)

Taxon	Year # Surveys/Year	1976 4	1977 2	1978 ns	1979 ns	1980 ns	1981 ns	1982 ns	1983 ns	1984 1	1985 2	1986 2	1987 1	1988 ns	1989 1	1990 4	1991 4	1992 4	1993 4	1994 4	1995 4	1996 4	1997 4	1998 4	1999 4	2000 4	2001 4	2002 2
Counted Regardless of Size																												
<i>Acanthina</i> spp.	-	-	-	-	-	-	-	-	-	01	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-
<i>Anthopleura elegantissima</i>	29.4	45.9	-	-	-	-	-	-	-	23.6	20.0	14.9	26.4	-	27.6	40.3	44.7	46.5	31.0	26.7	21.0	22.2	12.1	10.1	16.9	27.4	24.0	25.2
<i>Balanus</i> spp.	<1	-	-	-	-	-	-	-	-	-	2.0	0.4	-	-	0.8	0.5	-	0.1	-	-	-	-	-	-	-	-	0.1	-
<i>Calliostoma ligatum</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	<1	0.1	-	-	-	<1	<1	-	-
<i>Epiactis prolifera</i>	0.2	0.4	-	-	-	-	-	-	-	0.5	0.3	-	-	-	0.8	0.4	0.5	0.4	1.1	1.3	0.8	0.4	0.7	0.2	0.8	1.4	0.3	0.2
<i>Fissurella volcano</i>	0.2	0.4	-	-	-	-	-	-	-	4.8	1.5	3.5	1.8	-	3.8	2.5	1.8	2.9	2.7	2.2	1.5	1.1	5.1	3.8	2.3	2.2	1.3	1.7
<i>Fusinus luteopictus</i>	-	-	-	-	-	-	-	-	-	-	0.5	-	-	-	0.2	0.1	-	-	-	-	<1	0.1	-	<1	-	-	-	-
<i>Halios</i> spp.	4.6	8.6	-	-	-	-	-	-	-	1.4	0.9	1.3	1.6	-	0.6	0.7	0.2	0.3	0.2	0.3	-	-	-	<1	-	-	-	-
<i>Hemigrapsus nudus</i>	0.1	-	-	-	-	-	-	-	-	-	0.4	0.2	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-
<i>Leptasterias</i> spp.	<1	0.3	-	-	-	-	-	-	-	1.2	2.0	2.4	2.8	-	0.4	1.2	0.9	0.6	1.1	1.2	1.1	1.3	0.9	0.1	0.6	2.3	1.6	0.9
<i>Lotia digitalis</i>	-	-	-	-	-	-	-	-	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Lotia limatula</i>	-	-	-	-	-	-	-	-	-	1.6	1.3	2.3	0.4	-	1.2	2.8	1.9	2.1	1.5	1.5	1.0	1.0	1.8	3.1	7.2	3.1	2.7	1.6
<i>Lotia pelta</i>	-	-	-	-	-	-	-	-	-	8.2	0.3	1.0	0.8	-	0.2	0.2	0.7	0.7	1.1	0.9	0.5	0.7	0.9	4.9	6.1	2.2	0.4	1.1
<i>Macclintockia scabra</i>	0.3	1.2	-	-	-	-	-	-	-	15.0	9.1	26.5	13.2	-	5.8	6.7	3.9	1.8	4.7	11.1	4.3	2.5	2.6	19.8	37.8	47.9	30.6	28.2
<i>Mitra</i> idae	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	0.1
<i>Mopalia</i> spp.	0.1	-	-	-	-	-	-	-	-	-	0.1	0.3	-	-	0.2	0.2	<1	-	0.1	-	<1	0.1	0.2	-	0.1	<1	-	-
<i>Nucella emarginata</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	-
<i>Ocenebra</i> spp.	0.1	-	-	-	-	-	-	-	-	0.4	0.6	0.2	0.8	-	2.0	0.9	1.0	1.1	0.5	1.1	0.4	0.4	1.1	0.2	0.6	0.8	0.5	1.6
<i>Pachygrapsus crassipes</i>	0.2	0.2	-	-	-	-	-	-	-	0.4	0.5	0.7	0.8	-	1.2	1.6	1.3	1.1	2.0	1.5	1.8	1.4	1.4	1.5	0.6	0.8	1.1	0.2
<i>Pagurus</i> spp.	7.8	16.3	-	-	-	-	-	-	-	18.2	17.1	16.4	18.4	-	15.0	19.9	17.8	21.4	13.8	14.9	25.5	24.6	16.7	7.1	8.5	22.4	19.2	11.9
<i>Pisaster ochraceus</i>	-	0.2	-	-	-	-	-	-	-	0.2	0.2	0.3	0.4	-	0.2	0.3	0.2	0.5	0.5	0.2	0.2	0.3	0.4	0.3	<1	0.1	<1	0.1
<i>Pseudomelasma torosa</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1	-	-	-	-	-	-	-	-	-	-	-
<i>Strongylocentrotus purpuratus</i>	1.2	3.8	-	-	-	-	-	-	-	1.4	1.6	1.7	3.4	-	8.6	13.0	15.6	16.4	23.8	33.7	37.9	23.5	22.4	27.0	22.9	33.0	49.4	40.5
<i>Tectura paleacea</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Tectura persona</i>	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	-	-	-
<i>Tectura scutum</i>	0.4	0.3	-	-	-	-	-	-	-	2.0	3.8	2.6	2.4	-	4.4	2.4	1.1	0.7	1.2	2.0	0.9	1.0	0.3	0.4	1.0	2.2	0.9	1.8
<i>Tegula brunnea</i>	0.9	2.0	-	-	-	-	-	-	-	6.6	5.3	5.0	0.4	-	2.2	5.6	4.1	8.8	10.0	9.7	5.2	3.5	6.7	6.8	2.3	4.5	2.2	1.5
<i>Tegula funebris</i>	41.8	95.0	-	-	-	-	-	-	-	56.2	70.1	141.3	77.6	-	273.8	162.8	187.9	71.1	88.4	36.6	38.9	73.8	62.4	46.0	54.0	64.5	69.8	96.0
<i>Tetracitta rubescens</i>	9.2	16.3	-	-	-	-	-	-	-	9.8	14.5	7.1	14.6	-	1.6	20.3	14.2	16.4	21.5	51.9	4.3	9.4	5.0	3.0	7.3	8.3	3.0	2.4
Only Counted If Greater than 1"																												
<i>Acmaea mitra</i>	<1	-	-	-	-	-	-	-	-	+	+	0.3	-	-	0.4	0.2	+	0.1	0.1	0.2	0.1	0.2	0.2	<1	0.1	0.1	0.2	0.1
<i>Acmaeidae</i> unid.	-	-	-	-	-	-	-	-	-	+	0.1	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Aegires albopunctatus</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Aeolidia papillosa</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-
<i>Alla</i> spp.	-	-	-	-	-	-	-	-	-	-	+	+	+	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Amphissa</i> spp.	-	-	-	-	-	-	-	-	-	-	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Bittium</i> spp.	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Cadlina</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Cancer antennarius</i>	-	0.1	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	-	-
<i>Cirratulidae/Terebellidae</i> unid.	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	+	+	-	-	-	-	<1	+	-	-	+	-	+
<i>Crepidula</i> spp.	+	-	-	-	-	-	-	-	-	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Cryptochiton stelleri</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Cyanoplax</i> spp.	-	-	-	-	-	-	-	-	-	-	0.5	-	-	-	-	<1	<1	<1	-	<1	0.1	<1	-	+	+	0.1	0.4	-
<i>Dialula sandlegensis</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-
<i>Diodora</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1
<i>Diopatra ornata</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-
<i>Discaria inessa</i>	-	-	-	-	-	-	-	-	-	+	+	-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+
<i>Doriposilla albopunctata</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-
<i>Erato</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Flabellina trilineata</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	-	-
<i>Grospidae</i> (juv.)	-	-	-	-	-	-	-	-	-	-	+	+	+	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Halocampa decemtentaculata</i>	-	-	-	-	-	-	-	-	-	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Henricia leviuscula</i>	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-
<i>Heptacarpus</i> spp.	-	-	-	-	-	-	-	-	-	-	+	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Hermisenda crassicornis</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Homolo luridum/Lirularia succincta</i>	-	-	-	-	-	-	-	-	-	+	+	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Idotea</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ns = not sampled, < 1 = measured but in low abundance, + = only recorded as present

(continued)

(continued)

ns = not sampled, <1 = measured but in low abundance, + = only recorded as present

ns = not sampled, <1 = measured but in low abundance, + = only recorded as present

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) Field's Cove Station FC 2 at +0.9m (Based on 5 "Tegula" Count Quadrats)

Taxon	Year	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
# Survey/Year	4	2	ns	ns	ns	ns	ns	ns	ns	1	2	3	3	ns	1	4	4	4	4	4	4	4	4	4	4	4	4	4
Counted Remnants of Size																												
<i>Acanthina</i> spp.	05	05								08	16	33	15		14	12	11	15	09	14	14	10	11	09	08	05	05	11
<i>Amphipoda</i> spp.	146	1415								1252	1132	985	1435		1450	1058	1290	1500	1031	582	539	603	607	497	585	608	738	634
<i>Balanus</i> spp.	-	23								09	03	-	-		02	01	01	<1	<1	01	01							
<i>Callinectes ligatum</i>	-	-								-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Epilobium</i> spp.	-	-								-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Fistularia volucre</i>	-	-								-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Halonia</i> spp.	06	12								32	23	20	28		10	21	15	05	<1	<1	03	01	03	02	-	<1	<1	
<i>Hemigrapsus nudus</i>	-	-								0.1	-	-	-		02	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	
<i>Lepidaster</i> spp.	04	09								06	01	01	13		18	17	11	07	09	12	13	04	11	03	-	59	01	
<i>Littorina digitalis</i>	07	07								46	34	67	47		06	62	36	31	44	42	21	27	48	40	36	49	53	
<i>Littorina lineata</i>	08	08								02	15	08	15		02	05	05	15	20	17	16	11	14	07	33	45	17	
<i>Littorina pelia</i>	04	04								128	566	685	455		1446	577	527	268	354	142	125	321	255	193	216	225	341	
<i>Macclintockia scabra</i>	114	137								01	03	03	03		02	04	01	<1	<1	<1	<1	<1	02	<1	<1	01	<1	
<i>Mopalia</i> spp.	<1	03								-	01	05	02		06	08	10	14	09	07	10	11	11	02	02	11	08	
<i>Nucella emarginata</i>	-	-								10	22	19	28		06	21	18	08	12	16	16	13	16	10	05	07	09	
<i>Ocenebra</i> spp.	01	04								16	13	09	06		08	08	10	14	12	11	16	13	16	10	05	07	09	
<i>Pachygrapsus crassipes</i>	80	208								34	276	207	173		106	68	69	88	119	117	73	98	103	59	52	90	99	
<i>Pagurus</i> spp.	01	-								-	-	-	-		-	01	01	-	-	-	-	<1	<1	-	-	01	-	
<i>Pisaster ochraceus</i>	-	02								-	-	-	-		-	-	-	-	-	01	-	<1	<1	-	-	<1	-	
<i>Strongylocentrotus purpuratus</i>	-	-								-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Tectura persona</i>	-	-								-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Tectura acutum</i>	13	27								14	82	78	53		82	33	23	06	29	31	20	30	32	06	10	18	07	
<i>Tegula brunnea</i>	-	01								-	-	-	<1		-	-	<1	<1	<1	-	-	-	-	-	-	-	-	
<i>Tegula funebralis</i>	1547	1367								1458	1912	1576	1789		2404	1942	1416	1533	1517	1217	1611	1287	1778	1427	1300	1325	1313	
<i>Terricola rubescens</i>	-	-								-	1.1	-	+		-	02	<1	03	-	-	-	-	-	-	-	-	-	-
Only Counted If Greater than 1"																												
<i>Acanthina mitra</i>	-	-								-	+	+	+		-	+	<1	+	+	+	+	+	+	+	+	+	+	+
<i>Acanthina</i> und.	-	-								-	+	+	+		-	+	<1	+	+	+	+	+	+	+	+	+	+	+
<i>Alia</i> spp.	03	-								-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Allopioplana californica</i>	-	-								-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Amphissa</i> spp.	-	-								-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Camantidea</i> Terebellidae und.	-	-								-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Crepidula</i> spp.	-	-								-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Cyrenoida</i> spp.	-	-								-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Cyrenoida</i> (juv)	-	-								04	24	11	22		08	37	23	12	11	15	11	08	04	1.7	03	29	28	
<i>Hippocampus</i> spp.	-	-								-	+	+	+		-	+	<1	+	+	+	+	+	+	+	+	+	+	
<i>Idotea</i> spp.	-	-								-	+	+	+		-	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Isopoda</i> spp.	-	-								-	+	+	+		-	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Isopoda</i> und.	-	05								-	+	+	+		-	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Lacuna</i> spp.	-	-								-	+	+	+		-	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Littorina</i> spp.	-	-								-	+	+	+		-	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Littorina</i> und.	-	-								-	+	+	+		-	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Littorina</i> und.	-	-								-	+	+	+		-	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Littorina</i> und.	-	-								-	+	+	+		-	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Littorina</i> und.	-	-								-	+	+	+		-	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Littorina</i> und.	-	-								-	+	+	+		-	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Littorina</i> und.	-	-								-	+	+	+		-	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Littorina</i> und.	-	-								-	+	+	+		-	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Littorina</i> und.	-	-								-	+	+	+		-	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Littorina</i> und.	-	-								-	+	+	+		-	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Littorina</i> und.	-	-								-	+	+	+		-	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Littorina</i> und.	-	-								-	+	+	+		-	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Littorina</i> und.	-	-								-	+	+	+		-	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Littorina</i> und.	-	-								-	+	+	+		-	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Littorina</i> und.	-	-								-	+	+	+		-	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Littorina</i> und.	-	-								-	+	+	+		-	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Littorina</i> und.	-	-								-	+	+	+		-	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Littorina</i> und.	-	-								-	+	+	+		-	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Littorina</i> und.	-	-								-	+	+	+		-	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Littorina</i> und.	-	-								-	+	+	+		-	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Littorina</i> und.	-	-								-	+	+	+		-	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Littorina</i> und.	-	-								-	+	+	+		-	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Littorina</i> und.	-	-								-	+	+	+		-	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Littorina</i> und.	-	-								-	+	+	+		-	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Littorina</i> und.	-	-								-	+	+	+		-	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Littorina</i> und.	-	-								-	+	+	+		-	+	+	+	+	+	+	+	+	+	+			

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) Field's Cove Station FC 2 at +0.9m (Based on 5 "Tegula" Count Quadrats)
(continued)

Taxon	Year # Surveys/Year	1976 4	1977 2	1978 ns	1979 ns	1980 ns	1981 ns	1982 ns	1983 ns	1984 1	1985 2	1986 3	1987 3	1988 ns	1989 1	1990 4	1991 4	1992 4	1993 4	1994 4	1995 4	1996 4	1997 4	1998 4	1999 4	2000 4	2001 4	2002 2
Only Counted If Greater than 1"																												
<i>Pollicipes polymerus</i>		0.1	-							0.2	0.2	0.5	0.3		1.4	4.9	2.2	0.8	2.3	1.1	1.0	0.2	1.5	0.5	0.7	1.2	2.6	0.7
<i>Polychaeta</i> unid.		-	-							-	0.1	-	+		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Pugettia</i> spp.		-	-							-	-	-	<1		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Serpulidae</i> unid.		-	-							-	-	-	-		-	-	-	-	-	-	+	-	-	+	+	+	+	+
<i>Sipuncula</i> unid.		-	-							-	0.2	-	-		-	+	-	+	+	+	+	+	+	+	+	+	+	+
<i>Spionidae</i> unid.		-	-							-	-	+	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Tonicella lineata</i>		-	0.1							-	-	-	-		0.2	-	-	-	-	-	-	-	-	-	-	-	-	-
% Coverage																												
<i>Bryozoa</i> , unid. (encrusting)		-	-							-	-	-	-		-	-	-	+	-	-	-	-	-	-	-	-	-	-
<i>Chthamalus fissus</i>		0.8	0.5							+	0.3	0.5	0.7		+	+	+	<1	+	+	+	+	+	+	+	+	+	+
<i>Phragmatopoma californica</i>		0.3	1.5							0.1	<1	0.3	0.5		1.0	1.1	0.3	0.1	<1	0.1	<1	<1	0.2	<1	+	0.1	<1	<1
<i>Spirorbidae</i>		-	-							-	-	-	+		-	-	+	-	-	-	+	0.1	-	-	-	-	-	-

ns = not sampled, < 1 = measured but in low abundance, + = only recorded as present

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) Field's Cove Station FC 3 at +0.9m (Based on 5 "Tegula" Count Quadrats)

Taxon	Year # Surveys/Year	1976 4	1977 3	1978 6	1979 6	1980 6	1981 6	1982 6	1983 6	1984 6	1985 6	1986 6	1987 6	1988 4	1989 4	1990 4	1991 4	1992 4	1993 4	1994 4	1995 4	1996 4	1997 4	1998 4	1999 4	2000 4	2001 4	2002 2
Counted Regardless of Size																												
<i>Acanthina</i> spp		02	01	08	06	03	04	01	05	07	10	11	05	02	07	05	02	03	04	04	04	<1	03	03	02	02	02	02
<i>Anthopleura elegantissima</i>		181	157	135	163	261	275	210	222	187	190	193	246	211	258	289	253	245	187	142	129	102	105	51	70	150	147	107
<i>Anthopleura xanthogrammica</i>		-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Balanus</i> spp		02	-	06	-	<1	-	-	-	-	-	-	-	01	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Calliostoma ligatum</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Epiactis prolifera</i>		-	-	<1	-	01	<1	<1	-	-	-	-	-	-	-	<1	-	<1	<1	-	-	-	-	-	-	-	-	-
<i>Fissurella volcano</i>		-	-	-	-	-	-	-	-	<1	-	<1	-	-	-	-	-	-	-	01	-	-	-	-	-	-	-	-
<i>Fusinus luteopictus</i>		-	-	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Galliopsis</i> spp		-	<1	01	<1	<1	01	02	03	02	<1	<1	01	02	05	02	<1	-	-	-	-	-	-	<1	-	-	-	-
<i>Hemigrapsus nudus</i>		-	<1	01	01	-	<1	-	01	-	<1	-	01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Leptasterias</i> spp		<1	-	-	02	02	01	01	02	<1	-	<1	01	<1	<1	<1	-	<1	01	<1	<1	02	01	-	-	-	<1	01
<i>Lottia digitalis</i>		-	<1	02	<1	03	-	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-
<i>Lottia limatula</i>		01	01	04	07	07	07	04	01	02	17	13	19	09	15	19	14	14	20	13	06	18	16	60	46	14	09	03
<i>Lottia pelta</i>		01	-	04	02	03	05	04	02	03	94	07	02	05	03	03	05	05	08	09	13	04	05	21	42	10	02	02
<i>Mactinotockia scabra</i>		73	51	7.7	58	186	191	256	72	118	128	214	159	155	110	140	133	78	46	35	37	46	63	88	210	167	81	37
<i>Mopalia</i> spp		01	-	02	04	02	<1	<1	02	<1	<1	<1	<1	02	02	<1	-	<1	-	01	<1	<1	<1	02	<1	02	-	-
<i>Nucella emarginata</i>		03	-	-	-	<1	-	-	-	-	<1	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-
<i>Ocenebra</i> spp.		-	-	09	10	11	15	08	19	12	14	15	14	16	09	11	10	10	06	10	11	13	14	01	07	10	03	06
<i>Pachygrapsus crassipes</i>		-	02	02	04	04	02	05	03	03	02	04	07	02	06	08	13	07	10	08	09	10	07	08	03	05	01	05
<i>Pagurus</i> spp		122	118	85	67	167	201	124	131	114	116	120	149	119	139	152	180	159	169	236	135	96	133	139	128	166	137	82
<i>Pisaster ochraceus</i>		<1	-	-	-	<1	-	<1	<1	-	-	<1	01	-	-	-	-	<1	02	02	02	<1	01	<1	<1	01	02	01
<i>Strongylocentrotus purpuratus</i>		<1	-	-	-	-	<1	<1	-	-	-	-	-	-	-	-	02	<1	02	03	<1	-	<1	<1	01	01	01	01
<i>Tectura scutum</i>		06	03	06	08	13	16	06	06	08	23	18	13	10	27	07	11	03	<1	11	04	08	04	05	02	17	07	04
<i>Tegula brunnea</i>		-	-	<1	-	<1	-	-	02	-	-	<1	<1	-	<1	<1	-	<1	-	-	01	-	<1	<1	-	-	-	01
<i>Tegula funebris</i>		168.2	150.5	197.6	243.0	179.0	209.1	182.2	228.6	163.4	256.5	277.8	291.1	201.8	179.3	313.8	203.8	302.9	261.1	229.8	237.9	184.4	225.3	262.3	165.4	227.4	154.0	201.3
<i>Tegula montereyi</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	03	<1	<1	-	-	<1	-	-	-	02
<i>Terracilla rubescens</i>		-	-	0.5	<1	<1	0.5	0.1	<1	-	<1	-	<1	-	-	-	-	<1	0.3	<1	<1	-	-	<1	-	-	-	-
Only Counted if Greater than 1"																												
<i>Acmaea mitra</i>		-	-	+	-	+	+	+	+	+	<1	+	+	+	+	+	+	+	+	+	+	+	04	+	+	+	+	+
<i>Acmaeidae</i> unid.		-	-	+	+	+	+	+	+	+	+	+	+	+	01	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Alla</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Amphissa</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Anthozoa</i> unid.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Bitium</i> spp		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Chaetopteridae</i>		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Cirratulidae/Terebellidae</i> unid.		-	-	+	+	+	+	+	+	+	+	+	0.2	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Crangon</i> spp		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Crepidula</i> spp		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Cryptolithodes stichensis</i>		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Cyanoplax</i> spp		-	-	<1	02	01	03	03	+	-	04	02	07	10	1	18	13	03	08	05	07	05	05	01	05	08	01	09
<i>Diadula sandiegensis</i>		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Discaria inessa</i>		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Grapsidae</i> (juv)		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Heptacarpus</i> spp		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Homolo luridum/Littoraria succinea</i>		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Idotea</i> spp		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Ischnochitonidae</i>		-	-	<1	01	<1	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	02
<i>Lacuna</i> spp		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Lepidodonta</i> spp.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Lissothuria nutiens</i>		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Littorina</i> spp		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Littorina asmi</i>		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Mayidae</i>		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Mytilus californianus</i>		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Nemertea</i> unid		-	-	02	02	03	01	01	03	02	03	01	04	02	02	03	02	<1	03	03	<1	-	01	<1	<1	02	02	-
<i>Nereididae</i> unid.		-	-	<1	<1	<1	-	<1	-	-	<1	-	-	<1	-	<1	<1	-	<1	+	-	-	<1	<1	-	-	-	-

ns = not sampled, < 1 = measured but in low abundance, + = only recorded as present

(continued)

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) Field's Cove Station FC 3 at +0.9m (Based on 5 "Tegula" Count Quadrats)
(continued)

Taxon	Year	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
# Surveys/Year	4	3	6	6	6	6	6	6	6	6	6	6	6	4	4	4	4	4	4	4	4	4	4	4	4	4	4	2
Only Counted If Greater than 1"																												
<i>Mundicula Opalia</i> spp	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Nutallia californica</i>	-	0.1	0.3	0.2	0.4	0.2	0.1	0.5	0.2	0.2	0.7	0.7	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	+
<i>Opalioidea</i> und.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Polydora</i> und. boring	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Polydora</i> und.	-	-	-	-	-	+	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Polydora</i> spp	-	-	<1	<1	<1	<1	<1	<1	<1	<1	+	+	<1	-	+	+	0.1	<1	<1	-	<1	<1	+	+	+	+	+	+
<i>Rostanga pulchra</i>	-	-	+	+	+	-	-	-	-	-	+	+	+	+	+	+	-	<1	-	+	+	+	+	+	<1	+	+	+
<i>Serpulidae</i> und.	-	-	+	+	+	-	-	-	-	+	+	+	+	+	+	+	-	<1	-	+	+	+	+	+	+	+	+	+
<i>Sipuncula</i> und.	-	-	+	+	+	-	-	-	-	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-
<i>Sipuncula</i> und.	-	-	+	+	+	-	-	-	-	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-
<i>Toniceila lineata</i>	-	-	-	-	+	-	-	-	-	-	-	-	-	+	-	+	+	-	-	-	-	-	-	-	-	-	-	-
<i>Tricola</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	+	-	-	-	-	-	-	-	-	-
% Coverage																												
<i>Chironomus fuscus</i>	2.3	0.4	0.1	<1	0.1	0.2	0.6	0.6	0.3	0.5	0.4	<1	0.1	0.1	0.1	0.3	0.2	0.2	0.1	0.1	0.2	0.1	0.2	+	+	+	0.3	<1
<i>Hydrobia</i> spp	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Phragmatopoma californica</i>	-	0.1	<1	0.2	0.2	+	<1	<1	<1	<1	0.1	0.1	0.4	0.8	0.6	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	<1	<1	0.3	0.2	0.1
<i>Pista</i> spp	-	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Pontia</i> und. (encrusting)	-	-	+	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Sponidae</i>	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ns = not sampled, <1 = measured but in low abundance, + = only recorded as present

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) North Diablo Cove Station NDC 1 at +0.3m (Based on 5 "Tegula" Count Quadrats)

Taxon	Year # Surveys/Year	1976 4	1977 3	1978 ns	1979 ns	1980 ns	1981 ns	1982 5	1983 6	1984 6	1985 6	1986 6	1987 6	1988 ns	1989 1	1990 4	1991 4	1992 4	1993 4	1994 4	1995 2	1996 ns	1997 ns	1998 ns	1999 4	2000 4	2001 4	2002 2
Counted Regardless of Size																												
<i>Acanthina</i> spp	-	-	-	-	-	-	-	-	-	-	<1	03	05	-	-	01	-	-	-	-	-	-	-	-	-	<1	01	07
<i>Anthopleura elegantissima</i>	19	12	-	-	-	-	-	19	21	23	30	43	53	-	94	72	94	83	70	53	39	-	-	-	41	45	30	45
<i>Anthopleura xanthogrammica</i>	02	-	-	-	-	-	-	02	04	06	06	07	04	-	06	07	04	05	03	05	04	-	-	-	09	07	06	11
<i>Balanus</i> spp	63	07	-	-	-	-	-	01	04	-	36	-	02	-	04	09	13	-	<1	-	-	-	-	-	-	-	-	-
<i>Calliostoma ligatum</i>	-	-	-	-	-	-	-	-	<1	-	<1	-	<1	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-
<i>Calliostoma</i> spp	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	01	-	-	-	-	-	-	-
<i>Epilactis prolifera</i>	<1	02	-	-	-	-	-	<1	-	<1	-	<1	01	-	-	<1	02	<1	-	-	-	-	-	-	-	-	-	-
<i>Fissurella volcano</i>	08	10	-	-	-	-	-	08	05	26	48	29	21	-	18	11	48	49	70	67	113	-	-	-	32	08	13	43
<i>Haliotis</i> spp	93	133	-	-	-	-	-	16	03	<1	05	04	04	-	-	-	<1	-	-	01	04	-	-	-	-	-	-	-
<i>Hemigrapsus nudus</i>	-	-	-	-	-	-	-	<1	01	01	01	01	<1	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-
<i>Leptasterias</i> spp	<1	<1	-	-	-	-	-	02	01	<1	<1	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Lotia digitalis</i>	-	+	-	-	-	-	-	-	12	04	02	-	01	-	42	-	04	03	09	12	07	-	-	-	118	151	48	19
<i>Lotia limatula</i>	<1	01	-	-	-	-	-	12	21	15	38	44	31	-	80	31	25	16	36	42	50	-	-	-	105	169	144	138
<i>Lotia pelta</i>	01	<1	-	-	-	-	-	18	24	19	24	17	11	-	50	10	42	12	49	73	55	-	-	-	296	156	72	132
<i>Macclintockia scabra</i>	<1	<1	-	-	-	-	-	160	364	678	1512	1868	2128	-	1222	698	905	307	1059	918	416	-	-	-	2111	2087	2215	3026
<i>Mopalia</i> spp	02	02	-	-	-	-	-	04	04	03	04	03	01	-	02	<1	<1	-	<1	-	-	-	-	-	01	02	<1	01
<i>Nucella emarginata</i>	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Ocenebra</i> spp	-	+	-	-	-	-	-	20	18	46	46	35	65	-	14	28	19	09	04	08	08	-	-	-	06	05	08	14
<i>Pachygrapsus crassipes</i>	<1	<1	-	-	-	-	-	<1	02	02	03	02	09	-	04	08	11	14	07	18	21	-	-	-	05	12	14	18
<i>Pagurus</i> spp	88	115	-	-	-	-	-	203	14	143	136	148	225	-	336	270	285	137	421	318	523	-	-	-	96	260	197	180
<i>Pisaster ochraceus</i>	01	-	-	-	-	-	-	-	<1	<1	<1	<1	<1	-	04	02	05	07	06	04	02	-	-	-	-	-	-	-
<i>Pseudomelasma torosa</i>	-	-	-	-	-	-	-	-	<1	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Strongylocentrotus purpuratus</i>	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	08	10	30	17	20	174	309	-	-	-	41	178	93	66
<i>Tectura scutum</i>	08	07	-	-	-	-	-	69	55	70	135	69	42	-	62	17	51	03	11	80	10	-	-	-	50	119	50	142
<i>Tegula brunnea</i>	17	05	-	-	-	-	-	87	48	15	24	15	02	-	-	06	54	157	255	101	138	-	-	-	190	15	53	49
<i>Tegula funebralis</i>	211	542	-	-	-	-	-	296	509	764	1610	2144	2882	-	2852	1651	816	173	78	195	787	-	-	-	539	2161	589	1163
<i>Tegula</i> spp	-	-	-	-	-	-	-	-	-	-	-	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Terracilla rubescens</i>	22	04	-	-	-	-	-	511	799	297	584	162	42	-	28	264	751	841	721	2355	2600	-	-	-	223	154	53	250
Only Counted if Greater than 1"																												
<i>Acmaea mitra</i>	-	-	-	-	-	-	-	-	+	+	+	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Acmaeidae</i> unid.	-	+	-	-	-	-	-	+	+	+	+	+	+	-	+	+	+	+	+	+	+	-	-	-	+	+	+	+
<i>Allia</i> spp	-	-	-	-	-	-	-	+	+	+	+	+	+	-	-	-	-	+	+	-	-	-	-	-	-	-	-	-
<i>Amphissa</i> spp	-	-	-	-	-	-	-	-	-	+	-	+	-	-	-	-	-	+	+	-	-	-	-	-	-	-	-	-
<i>Asterina miniata</i>	03	01	-	-	-	-	-	04	05	<1	-	-	01	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-
<i>Barleeia</i> spp	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Blittium</i> spp	-	-	-	-	-	-	-	+	+	-	+	-	-	-	-	-	-	+	+	-	-	-	-	-	-	-	-	-
<i>Chaetopteridae</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	-	-	-	-	-	-	-
<i>Crepidula</i> spp	-	-	-	-	-	-	-	+	+	+	+	+	+	-	+	+	+	+	+	+	-	-	-	-	03	08	09	04
<i>Cyanoplax</i> spp	-	-	-	-	-	-	-	+	+	+	+	01	01	-	02	05	01	01	-	<1	-	-	-	-	-	-	-	-
<i>Diodora</i> spp	-	-	-	-	-	-	-	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Discaria insessa</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Doriopsilla albopunctata</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Flabellina trilineata</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Grapsidae</i> (juv.)	-	-	-	-	-	-	-	-	+	<1	+	+	+	-	-	+	+	+	+	+	-	-	-	-	-	-	-	-
<i>Hermisenda crassicornis</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	-	-	-	-	-	-	-	-
<i>Homolo furidum/Lirularia succincta</i>	-	-	-	-	-	-	-	-	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Ischnochitonidae</i>	-	+	-	-	-	-	-	+	+	+	+	<1	+	+	+	+	+	+	+	+	+	-	-	-	+	+	+	+
<i>Katharina tunicata</i>	-	-	-	-	-	-	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Locuna</i> spp	-	+	-	-	-	-	-	+	+	+	+	+	+	-	-	-	-	+	+	+	+	-	-	-	-	-	-	-
<i>Lepidozona</i> spp	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-
<i>Lissothuria nutrens</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Littorina</i> spp	-	-	-	-	-	-	-	-	+	+	+	+	+	-	-	+	+	+	+	+	+	-	-	-	+	04	+	+
<i>Lotia asmi</i>	-	-	-	-	-	-	-	+	+	+	+	+	+	-	-	+	+	+	+	+	+	-	-	-	+	+	+	+
<i>Lotia gigantea</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	-	-	-	-	+	+	<1	02

ns = not sampled, <1 = measured but in low abundance; + = only recorded as present

(continued)

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) North Diablo Cove Station NDC 1 at +0.3m (Based on 5 "Tegula" Count Quadrats) (continued)

Taxon	Year	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
	# Surveys/Year	4	3	ns	ns	ns	ns	5	6	6	6	6	6	ns	1	4	4	4	4	4	2	ns	ns	ns	4	4	4	4
Only Counted If Greater than 1"																												
<i>Lotia instabilis</i>		+	+	+	+	+	+	+	+	+	+	<1	+	+	+	+	+	<1	+	+	+	+	+	+	0.2	+	+	+
<i>Lotia ochracea</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Mytilidae</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Mytilus californianus</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Mytilus galloprovincialis</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Mytilus spp.</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Natania und.</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Nematode und.</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Nereididae und.</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Nutidiscalia Opelia spp</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Nutallina californica</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Onchidella borealis</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Ophiuroid spp</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Pectinidae</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Pelecypoda und. boring</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Ferrosites spp.</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Pisaster giganteus</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Polydora polymenus</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Polydora und.</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Polydora spp.</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Pyrosoma helianthoides</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Pyrosoma iliaxator</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Serpulidae und.</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Serpulorhynchus equimigerus</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Sipuncula und.</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Sipuncula spp.</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Tetrasaurina</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Tricella lineata</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Tricella spp</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
% CORTICES																												
<i>Bryozoa und. (encrusting)</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Chthamalus fissus</i>		0.1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Phragmatopoma californica</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Purra spp.</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Porifera und. (encrusting)</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Sipunculidae</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Sipunculidae</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Tunicata, colonial/social und.</i>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

ns = not sampled, <1 = measured but in low abundance + = only recorded as present

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) North Diablo Cove Station NDC 1 at +0.9m (Based on 5 "Tegula" Count Quadrats)

Taxon	Year # Surveys/Year	1976 4	1977 3	1978 ns	1979 ns	1980 ns	1981 ns	1982 5	1983 6	1984 6	1985 6	1986 6	1987 6	1988 ns	1989 1	1990 4	1991 4	1992 4	1993 4	1994 4	1995 2	1996 ns	1997 ns	1998 ns	1999 4	2000 4	2001 4	2002 2
Counted Regardless of Size																												
<i>Acanthina</i> spp	02	-	-	-	-	-	-	+	02	07	06	15	23	-	-	08	10	06	02	02	04	04	-	-	02	09	06	09
<i>Anthopleura elegantissima</i>	148	167	-	-	-	-	-	12.5	19.1	17.2	17.8	28.6	11.5	-	-	17.6	14.5	18.0	20.4	15.9	15.1	25.1	-	-	27.7	25.5	33.5	34.7
<i>Anthopleura xanthogrammica</i>	03	-	-	-	-	-	-	0.6	0.1	<1	0.1	0.1	0.2	-	-	-	0.2	0.1	<1	<1	0.1	-	-	0.1	-	-	-	0.1
<i>Balanus</i> spp	-	09	-	-	-	-	-	<1	0.3	-	-	<1	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-
<i>Calliostoma ligatum</i>	-	-	-	-	-	-	-	-	<1	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Epiactis prolifera</i>	-	<1	-	-	-	-	-	-	-	-	-	<1	<1	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-
<i>Fissurella volcano</i>	02	02	-	-	-	-	-	0.3	0.2	0.5	0.3	0.3	0.1	-	-	-	0.3	0.2	1.5	1.5	0.8	0.4	-	-	1.3	0.3	0.5	-
<i>Haliotis</i> spp	47	52	-	-	-	-	-	12	0.3	-	-	0.1	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Hemigrapsus nudus</i>	-	<1	-	-	-	-	-	0.2	0.2	-	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Leptasterias</i> spp	-	-	-	-	-	-	-	0.2	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Lottia digitalis</i>	-	0.5	-	-	-	-	-	0.1	0.1	0.3	0.3	-	0.2	-	-	-	0.9	0.2	0.3	0.1	-	-	-	-	0.4	30.0	0.5	-
<i>Lottia limatula</i>	01	01	-	-	-	-	-	16	0.7	0.4	4.2	2.8	2.7	-	-	2.8	2.4	3.0	2.0	2.8	4.7	0.9	-	-	3.8	10.7	3.2	2.1
<i>Lottia pelta</i>	<1	01	-	-	-	-	-	1.0	0.4	1.2	1.1	0.3	0.4	-	-	0.8	0.6	0.7	0.6	1.6	1.4	0.9	-	-	5.8	2.7	1.6	1.3
<i>Macclintockia scabra</i>	10	12	-	-	-	-	-	15.1	16.8	28.4	50.6	114.5	119.6	-	-	82.0	41.5	89.6	57.5	84.8	82.7	35.8	-	-	125.4	155.0	134.6	111.0
<i>Mopalia</i> spp	-	-	-	-	-	-	-	0.2	0.7	0.3	0.6	0.6	0.4	-	-	0.2	<1	-	-	-	<1	-	-	-	0.3	0.4	0.3	-
<i>Nucella emarginata</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Ocenebra</i> spp	-	-	-	-	-	-	-	0.6	0.4	0.6	1.2	1.2	1.7	-	-	1.4	1.6	0.9	1.7	0.8	0.6	0.5	-	-	0.2	0.8	1.1	1.5
<i>Pachygrapsus crassipes</i>	<1	<1	-	-	-	-	-	0.3	0.1	<1	<1	0.3	0.5	-	-	0.2	0.7	0.9	0.9	0.6	0.9	0.8	-	-	0.4	0.7	0.9	0.4
<i>Pagurus</i> spp	10.3	15.1	-	-	-	-	-	21.8	7.7	7.9	6.4	9.9	9.2	-	-	16.6	11.3	18.9	14.9	17.1	11.8	4.5	-	-	2.2	6.2	6.4	11.0
<i>Pisaster ochraceus</i>	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	0.1	0.3	0.2	<1	-	-	-	-	-	-	-
<i>Strongylocentrotus purpuratus</i>	-	-	-	-	-	-	-	-	<1	-	-	<1	-	-	-	0.2	0.1	0.3	0.3	-	0.2	0.6	-	-	-	<1	0.1	-
<i>Tectura paleacea</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Tectura persona</i>	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Tectura scutum</i>	2.0	0.9	-	-	-	-	-	5.1	1.8	2.5	6.2	3.3	2.6	-	-	3.2	0.9	4.5	0.4	1.0	2.0	0.9	-	-	1.6	1.7	1.2	3.6
<i>Tegula brunnea</i>	<1	0.1	-	-	-	-	-	0.2	0.9	0.1	-	0.1	-	-	-	-	-	-	0.3	0.2	-	0.1	-	-	-	0.3	0.2	-
<i>Tegula funebralis</i>	52.0	81.7	-	-	-	-	-	124.8	143.8	113.3	157.8	193.8	183.7	-	-	301.6	353.5	214.9	173.1	173.6	192.5	158.0	-	-	225.8	245.2	207.4	151.3
<i>Tegula pulligo</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Tegula</i> spp	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Tetracita rubescens</i>	02	09	-	-	-	-	-	7.1	0.8	<1	0.1	0.5	<1	-	-	-	0.3	1.8	7.1	2.4	1.3	2.0	-	-	-	-	-	-
Only Counted if Greater than 1"																												
<i>Acanthodoris lutea</i>	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Acmaea mitra</i>	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Acmaeidae</i> unid.	02	01	-	-	-	-	-	+	+	+	+	+	0.1	-	-	+	+	+	+	+	+	+	-	-	+	+	+	+
<i>Aeolidia papillosa</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
<i>Allia</i> spp	-	-	-	-	-	-	-	-	-	+	+	-	-	-	-	-	-	-	+	+	-	-	-	-	-	-	-	-
<i>Amphissa</i> spp	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Anthozoa</i> unid.	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Asterina miniata</i>	-	0.1	-	-	-	-	-	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	0.3
<i>Balanophyllia elegans</i>	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Bittium</i> spp	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Cirratulidae/Terebellidae</i> unid.	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Crepidula</i> spp	-	-	-	-	-	-	-	+	+	+	+	+	+	-	-	+	+	+	+	+	+	-	-	-	-	-	-	+
<i>Cyanoplax</i> spp	-	-	-	-	-	-	-	+	+	+	0.3	0.4	0.7	-	-	0.2	0.5	0.4	-	0.1	0.5	0.3	-	-	0.4	2.0	0.9	0.1
<i>Diopatra ornata</i>	-	-	-	-	-	-	-	-	<1	<1	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Discaria inessa</i>	-	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Grapsidae</i> (juv.)	-	-	-	-	-	-	-	-	+	-	+	+	+	-	-	-	+	+	+	+	+	+	-	-	-	-	-	-
<i>Hyponyx</i> spp	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Homolop luridum/Lirularia succincta</i>	-	-	-	-	-	-	-	-	-	-	-	+	+	-	-	-	<1	-	+	-	-	-	-	-	-	-	-	-
<i>Ischnochitonidae</i>	-	-	-	-	-	-	-	+	+	+	+	+	+	-	-	-	+	-	-	-	+	-	-	-	+	-	+	-
<i>Lacuna</i> spp	-	-	-	-	-	-	-	+	+	+	+	+	+	-	-	-	+	+	+	+	+	-	-	-	-	-	-	-
<i>Lepidoxona</i> spp	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	0.2	-	-	-	-	-	-	-	-	-
<i>Littorina</i> spp	-	-	-	-	-	-	-	+	+	+	+	+	+	-	-	+	+	+	+	+	+	+	-	-	+	+	+	+
<i>Lottia asmi</i>	-	<1	-	-	-	-	-	+	+	+	+	+	+	-	-	+	+	+	+	+	+	+	-	-	+	<1	+	+
<i>Lottia instabilis</i>	-	-	-	-	-	-	-	-	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ns = not sampled, <1 = measured but in low abundance; + = only recorded as present

(continued)

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) North Diablo Cove Station NDC 1 at +0.9m (Based on 5 "Tegula" Count Quadrats) (continued)

Taxon	Year	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002		
	# Surveys/Year	4	3	ns	ns	ns	ns	5	6	6	6	6	6	6	ns	1	4	4	4	4	4	ns	ns	ns	4	4	4	4	2	
Only Counted If Greater than 1"																														
<i>Lotia ochracea</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	+	-	-	-	-	-	-	-	-	-	-	
Najidae		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Modiolus</i> spp		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mytilidae		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Mytilus californianus</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nemertea unid.	02	01	-	-	-	-	-	02	01	03	<1	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nereididae unid.	-	-	-	-	-	-	-	-	<1	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Nudiscolia/opalia</i> spp	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Nuttallina californica</i>	-	-	-	-	-	-	-	02	02	-	03	04	06	-	-	-	-	-	-	<1	-	-	-	-	<1	-	-	-	-	
<i>Onchidella borealis</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Ophiotroch</i> spp	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Peroluthia</i> spp	01	<1	-	-	-	-	-	-	<1	-	-	-	-	-	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-	-	
Platyhelminthes unid.	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Polychaeta unid.	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Porcellanidae unid.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Pugetia</i> spp	<1	-	-	-	-	-	-	01	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pyrosomida unid.	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Serpulidae unid.	-	-	<1	-	-	-	-	<1	<1	-	<1	<1	-	-	-	01	<1	<1	<1	01	+	-	-	-	03	02	<1	01	-	
<i>Sipuncula</i> unid.	-	-	-	-	-	-	-	<1	<1	-	+	-	+	-	-	+	-	-	-	+	-	-	-	-	-	+	-	-	-	
<i>Tonicella lineata</i>	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Tricolia</i> spp.	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
% Coverage																														
Bryozoa, unid. (encrusting)	-	<1	<1	-	-	-	-	<1	+	+	02	09	15	-	68	73	68	30	-	-	-	-	-	-	+	02	05	12	-	
<i>Chthamalus fissus</i>	-	-	-	-	-	-	-	-	-	-	-	+	+	-	+	<1	+	+	-	+	+	+	+	+	+	+	+	+	+	
<i>Halictone</i> spp	-	-	-	-	-	-	-	<1	+	+	+	+	+	+	+	<1	+	+	-	+	+	+	+	+	+	+	+	+	+	
<i>Phragmatopoma californica</i>	-	-	-	-	-	-	-	-	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	
<i>Pista</i> spp	-	-	+	-	-	-	-	-	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Porifera unid. (encrusting)	-	-	-	-	-	-	-	-	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sporobidae	-	+	+	-	-	-	-	<1	<1	+	+	+	<1	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

ns = not sampled, < 1 = measured but in low abundance, + = only recorded as present

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) North Diablo Cove Station NDC 2 at +0.3m (Based on 5 "Tegula" Count Quadrats)

Taxon	Year	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
	# Surveys	4	6	6	6	6	6	5	6	6	6	5	6	6	1	4	4	4	4	4	3	2	2	2	4	4	4	2	
Counted Recruits at Site																													
<i>Acanthina</i> spp.		2.2	2.3	<1	<1	<1	<1	<1	0.1	0.6	1.1	1.1	1.2	0.4	0.2	8.7	7.7	3.4	3.0	3.2	4.5	0.1	3.4	4.4	4.1	0.2	0.1	0.1	
<i>Aniophleura elegantissima</i>		0.1	0.1	0.1	0.1	<1	<1	<1	<1	<1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
<i>Aniophleura xanthogrammica</i>		1.1	0.4	0.3	1.2	1.3	0.2	0.6	<1	0.9	0.6	0.6	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
<i>Balanus</i> spp.		0.3	1.4	0.6	1.3	1.2	1.9	0.4	1.2	0.6	<1	0.2	0.2	0.2	0.2	0.2	0.3	0.1	0.2	0.1	0.5	0.8	0.2	0.1	0.3	<1	0.3	0.3	
<i>Caprellina ligulum</i>		0.5	0.9	1.6	1.4	1.2	1.3	1.0	1.0	2.9	4.4	1.4	0.9	2.0	3.6	9.6	13.4	24.6	13.5	11.6	9.7	5.0	3.0	3.0	1.1	0.1	0.1	0.1	
<i>Epacris prolifera</i>		0.5	0.9	1.6	1.4	1.2	1.3	1.0	1.0	2.9	4.4	1.4	0.9	2.0	3.6	9.6	13.4	24.6	13.5	11.6	9.7	5.0	3.0	3.0	1.1	0.1	0.1	0.1	
<i>Fissurella volcano</i>		2.7	5.2	6.7	8.3	4.6	2.8	1.5	1.6	1.0	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
<i>Haliotis</i> spp.		0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
<i>Hemigrapsus nudus</i>		0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
<i>Lepidasteria</i> spp.		<1	0.1	0.2	0.1	0.1	0.1	0.1	<1	0.3	0.6	3.6	17.5	1.6	3.1	3.1	2.0	2.0	5.3	5.8	12.7	0.6	13.3	16.1	17.4	19.0	8.6	7.2	
<i>Lottia digitalis</i>		0.3	0.6	1.2	0.9	0.9	1.4	1.4	1.1	1.1	3.4	3.0	1.8	3.0	2.3	5.3	2.4	5.0	7.0	3.3	8.2	2.5	12.5	44.1	20.3	41.3	10.9	8.6	
<i>Lottia limicola</i>		0.1	0.2	0.8	0.2	0.2	2.7	1.0	0.9	4.4	2.5	1.3	3.6	192.2	171.7	126.8	30.3	64.5	36.5	78.7	114.7	25.8	81.5	210.2	189.9	148.7	189.5	189.5	
<i>Mecliniochla scabra</i>		1.1	3.6	2.9	6.4	6.3	10.3	19.5	47.2	52.8	228.6	189.9	227.6	0.4	<1	<1	<1	<1	0.2	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
<i>Mura</i> spp.		0.1	<1	0.3	0.5	0.9	0.3	0.4	0.5	0.7	1.0	0.4	0.6	0.4	<1	<1	<1	<1	0.2	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
<i>Nucella</i> spp.		<1	0.1	1.4	2.3	1.4	1.7	1.5	1.1	1.4	2.7	2.8	4.5	2.0	2.7	2.2	1.7	1.0	0.2	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
<i>Ocenebra</i> spp.		<1	<1	<1	0.1	<1	<1	0.1	0.1	<1	0.4	0.3	0.5	0.6	0.8	1.4	1.1	0.8	1.7	0.9	1.1	2.0	2.6	0.7	1.2	1.3	0.6	0.6	
<i>Pachygrapsus crassipes</i>		4.6	13.9	10.4	12.8	15.2	19.1	20.9	11.1	12.8	16.6	11.8	16.5	24.2	11.3	9.0	14.3	19.1	11.9	8.0	18.6	12.8	1.7	4.6	10.3	6.6	10.9	10.9	
<i>Pagurus</i> spp.		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
<i>Pilaster oleraceus</i>		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
<i>Pseudodiploma borea</i>		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
<i>Strongylocentrotus purpuratus</i>		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
<i>Tectura palmetta</i>		0.3	0.5	1.5	2.6	2.2	2.7	2.6	2.0	9.0	6.8	8.4	8.5	6.6	2.0	5.6	0.9	4.2	3.1	4.9	5.6	2.2	1.1	8.0	3.2	1.0	0.6	2.8	
<i>Tectura scutum</i>		1.8	1.3	6.6	4.2	10.8	8.7	7.0	5.8	4.6	7.0	2.9	3.3	1.2	2.1	0.8	9.4	4.2	4.1	1.7	5.2	1.5	0.3	2.3	1.0	0.6	0.6	0.6	
<i>Tegula brunnea</i>		2.5	10.0	7.8	8.6	17.1	12.4	7.2	23.8	12.9	3.6	114.4	137.2	168.2	58.8	7.2	4.4	0.6	4.6	7.8	7.3	7.5	1.6	7.2	42.5	9.7	17.5	17.5	
<i>Tegula funebralis</i>		3.8	13.1	9.9	11.7	24.8	16.6	19.7	14.9	19.0	14.8	5.2	5.2	24.0	27.6	87.4	46.7	65.3	55.7	96.6	95.9	55.6	28.4	69.1	70.1	82.7	69.2	69.2	
<i>Trochella rubescens</i>		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Only Counted If Greater than 1"																													
<i>Acmaea mitra</i>		0.2	<1	<1	0.1	<1	<1	<1	<1	0.1	0.3	+	+	+	+	<1	+	+	+	+	+	+	+	+	0.2	<1	<1	<1	<1
<i>Acmaeidae</i> und.																													
<i>Acidalia papillosa</i>																													
<i>Aeolidacea</i> und.																													
<i>Alia</i> spp.																													
<i>Amphusa</i> spp.																													
<i>Amphipleura artemisia</i>																													
<i>Amphiozoa</i> und.																													
<i>Aplysia californica</i>																													
<i>Archidoris</i> spp.																													
<i>Asteria miniata</i>																													
<i>Boreia</i> spp.																													
<i>Brittonia</i> spp.																													
<i>Cancer antennarius</i>																													
<i>Cancer</i> spp.																													
<i>Cirratulidae</i> Terrellidae und.																													
<i>Crepidula</i> spp.																													
<i>Cyrenopsis</i> spp.																													
<i>Diodora</i> spp.																													
<i>Diopatra ornata</i>																													
<i>Discaria lineata</i>																													
<i>Elysia heughebaerti</i>																													
<i>Fiabellina pilinella</i>																													
<i>Gastropoda</i> (juv.)																													
<i>Halimacra decemlineata</i>																													
<i>Hemigrapsus oregonensis</i>																													
<i>Hemiscilla leucocula</i>																													
<i>Hypocrepidia</i> spp.																													

ns = not sampled, < 1 = measured but in low abundance, + = only recorded as present

(continued)

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) North Diablo Cove Station NDC 2 at +0.3m (Based on 5 "Tegula" Count Quadrats) (continued)

Taxon	Year	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
	# Surveys/Year	4	6	6	6	6	6	5	6	6	6	5	6	ms	1	4	4	4	4	4	3	2	2	2	4	4	4	2
Only Counted If Greater than 1*																												
<i>Hermistella crassicornis</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Hippocampus</i> spp.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Hydrobia ulrillum</i> / <i>Uvula succinea</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Idotea</i> spp.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Ischnochitonidae		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Isopoda und.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Lucina</i> spp.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Lepidocoma</i> spp.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Lissodonta nitrens</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Littorina gibberula</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Littorina</i> spp.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Lophoporeus</i> spp.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Lotia saxi</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Lotia gigantea</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Lotia nataschia</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Lotia ochracea</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mayidae		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Megabala crenulata</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Mytilus californianus</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Mytilus</i> spp.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Natania</i> und.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Nemertea</i> und.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Nemertea</i> und.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Nitidulacal</i> / <i>Opelia</i> spp.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Nutallina californica</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Nutallina</i> spp.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Orchidella borealis</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Ophiolirix</i> spp.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Ophiuridea</i> und.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Pelecyopoda</i> und. boring		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Phidiana hilarii</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Pisaster giganteus</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Pisaster</i> (<i>Pisaster</i>) (<i>juv</i>)		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Pododemus cepus</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Polydora</i> und.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Pagurus</i> spp.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Pycnogonida</i> und.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Pycnogonidae</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Serpulidae</i> und.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Serpulidae</i> (<i>Serpulidae</i>) (<i>juv</i>)		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Sipuncula</i> und.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Sipunculus</i> spp.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Stenoplia</i> spp.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Tonacella lineata</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Transversella</i> spp.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Trochella</i> spp.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Utricina</i> spp.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
% COVERAGES																												
<i>Abies</i> (<i>Serialella</i>) (<i>Serialella</i>) spp.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Boysia</i> und. (encrusting)		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Boysia</i> und. (foliose)		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Chlamydomonas</i> spp.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Hydrobia</i> spp.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Pirene</i> (<i>Pirene</i>) (<i>Pirene</i>) spp.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Pirene</i> spp.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Portia</i> und. (encrusting)		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Salicaria</i> (<i>Salicaria</i>) (<i>Salicaria</i>) spp.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Spizella</i> spp.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Utricina</i> spp.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

ms = not sampled, < 1 = measured but in low abundance, + = only recorded as present

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) North Diablo Cove Station NDC 2 at +0.9m (Based on 5 "Tegula" Count Quadrats)

Taxon	Year	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
	# Surveys/Year	4	4	6	6	6	6	6	6	6	6	6	6	6	4	4	4	4	4	4	3	2	2	2	2	4	4	4
Counted Regardless of Size																												
<i>Acanthina</i> spp.		0.5	0.3	0.4	0.2	0.5	0.4	0.1	0.2	0.1	0.2	0.6	0.7	0.5	0.4	0.2	0.5	0.4	0.2	0.5	0.5	1.0	1.3	0.3	0.4	0.6	0.5	1.6
<i>Anthopleura elegantissima</i>		21.4	28.4	27.7	23.9	35.9	31.6	34.1	12.2	11.7	14.5	15.4	17.4	22.7	22.6	25.9	35.0	31.5	26.6	28.8	29.5	43.1	33.1	38.2	44.9	57.0	59.2	66.6
<i>Anthopleura xanthogrammica</i>																												
<i>Balanus</i> spp.																												
<i>Epilactis prolifera</i>																												
<i>Fissurella volcano</i>																												
<i>Haliotis</i> spp.																												
<i>Hemigrapsus nudus</i>																												
<i>Leptasterias</i> spp.																												
<i>Lotilia digitalis</i>																												
<i>Lotilia limicola</i>																												
<i>Lotilia pella</i>																												
<i>Maculinocia scabra</i>																												
<i>Mopalia</i> spp.																												
<i>Nucella emarginata</i>																												
<i>Ocenebra</i> spp.																												
<i>Pachygrapsus crassipes</i>																												
<i>Pagurus</i> spp.																												
<i>Pisaster ochraceus</i>																												
<i>Strongylocentrotus purpuratus</i>																												
<i>Tectaria personata</i>																												
<i>Tectura scutum</i>																												
<i>Tegula brunnea</i>																												
<i>Tegula lineatilis</i>																												
<i>Tegula pulligo</i>																												
<i>Terrilina rubescens</i>																												
Only Counted if Greater than 1"																												
<i>Acmaea mitra</i>																												
<i>Acmaeidae</i> und.																												
<i>Alia</i> spp.																												
<i>Anchaea</i> und.																												
<i>Asteria miniata</i>																												
<i>Bartleia</i> spp.																												
<i>Blittum</i> spp.																												
<i>Cancer</i> spp.																												
<i>Crepidula</i> spp.																												
<i>Cycmaria</i> spp.																												
<i>Cyanoptax</i> spp.																												
<i>Diadema</i> spp.																												
<i>Diopatra ornata</i>																												
<i>Discaria lutea</i>																												
<i>Gastropoda</i> (juv.)																												
<i>Henricia levinsculi</i>																												
<i>Hepicarpus</i> spp.																												
<i>Homoloe turdum/Littoraria succinea</i>																												
<i>Idolea</i> spp.																												
<i>Ischnochitonidae</i>																												
<i>Lacuna</i> spp.																												
<i>Leptodonta</i> spp.																												
<i>Littorina</i> spp.																												
<i>Lotilia asini</i>																												
<i>Lotilia gigantea</i>																												
<i>Lotilia insubilis</i>																												
<i>Lotilia ochracea</i>																												

ns = not sampled, < 1 = measured but in low abundance, + = only recorded as present

(continued)

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) North Diablo Cove Station NDC 2 at +0.9m (Based on 5 "Regula" Count Quadrats) (continued)

Taxon	Year	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
	# Surveys/Year	4	4	6	6	6	6	6	6	6	6	6	6	6	4	4	4	4	4	4	3	2	2	2	4	4	4	2
Only Counted if Greater than 1"																												
Myrtilidae		-	-	-	+	+	+	+	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Myrtilidae spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Myrtilus californianus		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Myrtilus galaprovencialis		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Myrtilus spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naumia und.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nemertea und.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nemertea spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nemertidae und.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nemertidae spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nudastrolia californica		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nudastrolia/Opalia spp		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Paralichthys spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Parasitica/leucaria (juv)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Platyhelminthes und.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polydora spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sipunculus und.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sipunculus spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sipuncidae und.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sipuncidae spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tunicella lineata		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tunicella spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
% Coverage																												
birozoa, und. (encrusting)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cylindroiulus fissus		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haliotis spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phragmatopoma californica		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pista spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Portia und. (encrusting)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Salicornia rhynchocoma		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sponidae		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ns = not sampled, < 1 = measured but in low abundance, + = only recorded as present

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) North Diablo Cove Station NDC 3 at +0.3m (Based on 5 "Tegula" Count Quadrats)

Taxon	Year	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
# Surveys/Year	4	5	6	6	5	6	5	6	4	6	6	5	6	4	4	4	4	4	4	4	3	2	2	2	4	4	4	2
Counted: Residuals of Size																												
<i>Acanthina</i> spp.	-	-	-	-	-	<1	-	-	<1	<1	-	<1	-	-	<1	-	<1	-	0.3	1.3	2.3	5.6	0.3	3.2	1.2	3.6	1.7	0.6
<i>Anthopleura elegantissima</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Balanus</i> spp.	1.8	0.2	0.7	0.8	0.1	-	-	-	<1	<1	<1	<1	<1	0.5	1.1	0.5	-	0.3	-	-	-	-	-	1.2	-	-	-	-
<i>Callistotoma ligatum</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Epilactis prolifera</i>	0.2	0.4	1.9	0.9	1.4	1.4	1.4	1.5	0.9	0.3	0.5	0.2	0.1	<1	0.2	0.2	0.3	0.4	0.3	1.0	0.5	0.1	0.2	0.3	0.5	-	-	-
<i>Fissurella volcano</i>	0.4	0.8	1.9	1.5	2.7	1.5	1.9	2.2	4.4	4.6	5.6	6.8	3.7	3.7	14.3	33.3	64.9	52.3	54.0	41.5	42.5	19.7	49.6	19.0	14.4	19.9	11.6	16.3
<i>Furcata</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Haliole</i> spp.	3.3	5.3	3.7	3.0	1.6	1.5	1.1	0.8	0.4	<1	<1	2.0	1.0	2.0	-	-	0.4	0.1	0.2	0.6	0.2	0.5	-	0.2	0.2	<1	-	-
<i>Hemigrapsus nudus</i>	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Lepidaster</i> spp.	0.1	0.1	1.9	1.2	1.6	1.1	0.5	0.8	1.0	1.5	0.6	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Lotia digitata</i>	-	-	<1	<1	<1	<1	0.3	0.1	0.5	0.1	0.5	1.2	3.7	6.6	7.3	3.7	3.5	1.3	3.0	7.8	15.4	26.6	3.3	2.18	16.9	29.4	14.7	16.3
<i>Lotia limicola</i>	0.1	<1	0.2	0.3	0.1	0.6	0.6	0.4	0.8	0.8	0.8	2.1	2.0	7.7	3.2	4.6	3.2	2.6	5.4	14.9	4.7	14.3	1.9	12.17	4.12	7.13	36.5	16.6
<i>Lotia pella</i>	<1	-	<1	0.2	<1	-	0.3	0.4	0.1	0.5	0.5	48.5	40.5	135.9	143.9	42.0	33.1	5.8	12.5	13.6	49.7	47.2	3.1	65.9	98.9	226.2	259.2	269.7
<i>Macclunochia scabra</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Mitra</i> spp.	<1	<1	0.2	0.3	0.6	0.3	0.4	0.3	0.4	0.4	0.4	0.6	0.7	1.2	0.3	-	<1	<1	0.1	-	<1	-	0.1	-	0.9	1.1	0.6	-
<i>Nephele</i> spp.	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Ocenebra</i> spp.	0.1	-	0.6	1.1	0.6	0.6	0.5	0.6	0.9	0.9	0.9	2.4	2.5	2.6	1.4	5.6	2.0	0.7	0.2	0.2	<1	-	0.1	0.7	0.1	0.1	0.5	0.2
<i>Pachyrrhynchus crassipes</i>	<1	<1	-	-	-	-	<1	<1	0.1	0.2	0.8	0.5	1.4	0.9	0.8	2.1	1.6	1.5	2.4	2.9	3.4	1.9	3.2	2.6	2.4	2.9	0.2	-
<i>Pagurus</i> spp.	6.4	8.6	7.0	7.4	11.2	15.1	13.5	12.6	12.1	12.1	9.4	6.3	11.7	4.1	11.1	5.0	2.6	1.9	6.2	2.9	3.3	3.1	0.3	0.3	2.3	1.2	-	0.1
<i>Pisaster ochraceus</i>	-	-	0.1	-	-	<1	-	<1	<1	<1	-	-	<1	0.2	0.1	0.4	0.8	0.6	0.5	0.7	0.6	0.6	0.7	0.1	<1	-	-	-
<i>Pseudonella torosa</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Strongylocentrotus purpuratus</i>	-	<1	-	-	0.2	0.4	<1	<1	<1	-	<1	0.2	0.3	2.7	3.9	3.7	11.8	20.6	30.0	74.3	59.1	30.2	13.6	11.1	14.8	26.7	87.5	40.8
<i>Tectaria palaceta</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Tectaria scutum</i>	1.2	0.3	1.7	0.6	1.2	1.3	2.2	0.8	0.6	1.6	1.6	4.4	6.3	10.9	11.3	3.7	2.0	0.4	1.6	2.5	28.4	13.5	3.1	0.9	1.9	8.3	12.6	9.1
<i>Tegula brunnea</i>	4.5	3.1	9.9	7.1	18.6	12.5	10.7	9.9	10.9	13.6	8.5	5.8	2.4	2.6	3.8	12	0.3	0.3	<1	0.8	0.2	0.2	1.3	-	0.2	4.1	0.1	0.5
<i>Tegula funebrilis</i>	1.5	3.0	2.5	1.4	3.7	5.5	3.4	4.6	4.8	4.8	7.0	110.5	135.2	189.9	60.2	29.8	2.8	<1	-	0.1	0.1	0.1	0.1	0.2	0.2	5.0	0.1	0.5
<i>Tegula montereyi</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Tegula rubescens</i>	4.5	0.7	9.0	3.5	3.8	9.4	6.6	10.5	12.8	20.1	24.3	9.4	8.2	9.4	69.4	124.9	137.5	156.8	244.3	144.1	223.8	144.2	52.2	49.2	138.5	158.1	67.3	-
Only Counted If Greater than 1																												
<i>Acanthina</i> spp.	-	-	0.2	0.1	<1	0.2	<1	<1	<1	0.3	0.2	0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.2	0.1	-
<i>Acanthina</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Aegires albopunctatus</i>	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Acaulidella olivae</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Allia</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Amphissa</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Amphissa</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Anthozoa</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Apistia californica</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Asterina miniata</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Bartolotta</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Bittium</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Cactosoma arenaria</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Cancer antennarius</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Cancer</i> spp.	<1	-	<1	-	<1	<1	0.1	<1	<1	<1	-	-	-	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
<i>Chelodactylus</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Clethrionomys</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Crepidula</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Crepidula</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Dinodora</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Dinodora</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Discorhiza laetosa</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Doropodilia albopunctata</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Elysia hedgerh</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Gastropoda</i> (new)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ns = not sampled, <1 = measured but in low abundance, + = only recorded as present

(continued)

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) North Diablo Cove Station NDC 3 at +0.3m (Based on 5 "Tegula" Count Quadrats) (continued)

[illegible]

ns = not sampled, <.1 = measured but in low abundance, + = only recorded as present

(continued)

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) North Diablo Cove Station NDC 3 at +0.3m (Based on 5 "Tegula" Count Quadrats) (continued)

Taxon	Year	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
# Surveys	Year	4	5	6	6	5	6	5	4	6	6	5	6	4	4	4	4	4	4	4	3	2	2	2	4	4	4	2
Onit Counts If Greater than 1																												
<i>Septulorthis squamigerus</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Spurcula und.</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Toniscella lineata</i>		-	-	01	01	-	-	-	-	01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Tritidia spp.</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Tridna spp.</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
% COVER																												
<i>Byozoa, und. (encrusting)</i>		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Byozoa, und. (foliose)</i>		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Chironomus fissus</i>		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Deridopoma spp.</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Dodacasteria foveol</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Eugostomella blabellata</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Halclena spp.</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Hydroids</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Phragmatopoma californica</i>		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Purra spp.</i>		10	10	02	1.1	0.3	0.7	1.1	0.2	0.3	0.6	0.3	0.3	0.3	2.9	2.6	1.5	0.4	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
<i>Portia und. (encrusting)</i>		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Salinacis rhynchocelia</i>		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Schroederia</i>		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Streblospio</i>		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Streblospio, colonial/typical und.</i>		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

n = not sampled, < 1 = measured but in low abundance, + = only recorded as present

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) North Diablo Cove Station NDC 3 at +0.9m (Based on 5 "Tegula" Count Quadrats)

Taxon	Year	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Taxon	# Survey/Year	4	3	6	6	6	6	6	6	6	6	6	6	6	1	4	4	4	4	4	3	2	2	2	4	4	4	2
Counted Regardless of Size																												
<i>Acanthina</i> spp		-	0.1	0.2	0.2	0.2	0.2	-	-	-	0.3	<1	<1	-	-	-	-	-	<1	0.1	0.1	0.4	0.4	0.4	0.3	0.3	0.6	0.2
<i>Anthopleura elegantissima</i>		-	1.3	0.3	0.8	0.1	<1	0.3	<1	0.2	0.7	0.9	0.3	-	3.2	4.2	1.4	0.4	0.2	0.3	-	-	-	0.5	-	-	-	
<i>Balanus</i> spp		<1	<1	0.2	0.1	0.3	0.1	0.2	0.1	<1	<1	<1	0.1	-	-	0.1	0.1	<1	0.1	-	-	-	-	0.1	-	-	-	
<i>Epitaxia prolifera</i>		0.4	0.3	1.0	1.0	0.8	0.9	0.9	1.0	1.4	1.2	0.9	0.8	-	1.4	2.0	5.0	1.8	14.7	17.7	15.3	6.6	7.4	6.3	4.5	1.9	3.4	2.2
<i>Fissurella volcano</i>		1.5	2.5	3.0	2.3	3.8	2.8	3.1	3.7	2.4	4.0	4.0	4.0	-	0.2	0.1	<1	<1	0.3	0.2	0.6	0.3	-	0.1	<1	-	-	
<i>Haliois</i> spp		-	<1	0.1	0.1	<1	0.2	0.1	-	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Hemigrapsus nudus</i>		0.5	0.1	0.5	1.4	1.2	0.8	0.6	0.6	0.4	0.4	0.2	0.2	-	1.6	4.6	3.5	3.7	4.7	40.6	15.9	20.4	54.8	39.4	61.3	33.6	16.1	
<i>Lepidasterias</i> spp		0.2	0.2	1.5	1.5	1.5	0.9	0.5	2.2	1.7	0.1	0.9	1.5	1.3	7.6	6.8	7.7	5.0	7.0	7.8	5.5	11.8	4.1	20.4	38.8	28.0	18.1	
<i>Littorina digitulus</i>		0.6	<1	1.8	1.7	1.8	2.4	2.6	2.3	2.2	3.5	6.2	5.1	-	1.6	0.9	1.2	0.9	4.8	3.5	2.2	0.8	0.5	30.8	29.9	10.8	11.6	
<i>Littorina lineatula</i>		0.6	0.3	1.3	1.5	1.1	3.3	3.0	2.4	3.0	1.4	2.6	1.0	-	170.2	146.6	123.7	142.4	237.5	177.5	178	181.3	80.2	181.7	235.5	335.6	268.2	
<i>Maccullochella scabra</i>		5.2	12.9	14.4	19.9	18.3	20.5	25.5	20.8	50.1	96.8	239.7	220.7	-	0.2	0.2	-	-	<1	-	0.1	-	-	-	0.4	0.8	0.5	
<i>Mopalia</i> spp		0.1	-	0.2	0.6	0.8	0.7	0.4	0.5	0.2	0.5	0.8	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Nucella emarginata</i>		0.3	-	-	<1	<1	-	-	-	-	-	-	-	-	5.4	3.5	2.7	2.8	0.2	1.1	0.7	1.4	1.8	1.9	0.5	0.4	0.5	
<i>Ocenebra</i> spp		0.3	-	1.4	1.0	0.4	0.3	1.1	1.6	1.8	2.1	4.5	6.6	-	1.2	1.4	1.0	4.1	2.7	3.8	3.9	2.7	4.8	2.4	2.8	1.8		
<i>Pachygrapsus crassipes</i>		0.1	0.5	0.4	0.3	0.7	0.5	0.7	0.3	0.5	0.6	1.1	2.0	-	14.8	10.2	10.5	24.8	24.7	47.1	17.2	11.0	24.7	0.4	0.8	3.2	2.6	
<i>Pagurus</i> spp		9.9	9.5	4.1	6.3	10.3	10.0	12.5	7.9	8.1	7.1	11.0	9.7	-	-	-	0.3	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
<i>Plataster oculatus</i>		<1	-	-	<1	<1	0.1	0.1	<1	<1	<1	0.3	0.2	-	0.4	0.3	0.9	3.5	3.7	11.9	21.4	11.6	6.7	4.0	3.4	3.6	20.0	
<i>Strongylocentrotus purpuratus</i>		<1	-	-	<1	<1	0.1	0.1	<1	<1	<1	0.3	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Tectaria persona</i>		<1	-	-	-	-	-	-	-	-	-	-	-	-	10.4	4.4	3.4	2.0	3.2	3.0	7.6	10.4	2.1	1.7	4.7	12.2	7.1	
<i>Tectaria scutum</i>		1.0	1.2	2.7	1.7	2.1	2.3	5.0	3.6	2.7	4.1	4.9	7.9	-	0.2	0.2	0.4	3.6	0.4	-	3.3	1.2	6.4	0.3	0.3	0.6		
<i>Tegula buxiana</i>		0.9	1.0	1.3	2.9	3.2	4.3	4.8	3.6	2.5	1.3	0.2	-	-	160.2	186.7	126	66.2	17.5	48.3	44.9	34.1	44.9	15.2	65.2	86.7	32.8	
<i>Tegula lineatula</i>		28.0	38.8	57.2	39.7	64.5	51.2	44.4	50.4	49.6	77.5	194.4	230.1	-	-	-	0.1	-	-	-	-	-	-	-	-	-	-	
<i>Tegula</i> spp		-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	2.1	17.8	18.0	46.6	53.7	50.7	50.8	19.2	26.8	8.8	4.5	5.3	
<i>Turricula rubescens</i>		18.1	13.8	18.7	6.5	9.0	12.5	10.3	5.8	6.7	11.6	4.1	4.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Only Counted if Greater than 1"																												
<i>Acanthina mitra</i>		-	-	-	-	-	0.1	<1	-	<1	<1	-	<1	-	-	-	-	-	-	-	-	-	-	-	0.1	-	-	
<i>Acmaeidae</i> und.		<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Alia</i> spp		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Amphusa</i> spp		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Barleeia</i> spp		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Bitum</i> spp		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Cancer antennarius</i>		-	-	-	-	-	0.1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Cancer productus</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Chastopentidae</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Cirratulidae/Terebellidae</i> und.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Crepidula</i> spp		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Diodora</i> spp		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Dontopistia albobrunata</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Gastropoda</i> (unv)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Hydriscus leviuscula</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Hippocampus</i> spp		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Homolo luridum/Luridaria succinea</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Iborea</i> spp		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Ischnochitonidae</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Lacuna</i> spp		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Lepidodonta</i> spp		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Leucandra frethi</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Lesoburnia aurens</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Littorina</i> spp		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Lophopanopeus</i> spp		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Littorina</i> spp		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

ns = not sampled, <1 = measured but in low abundance, + = only recorded as present

(continued)

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) North Diablo Cove Station NDC 3 at +0.9m (Based on 5 "Tegula" Count Quadrats) (continued)

Taxon	Year	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
	# Surveys/Year	4	3	6	6	6	6	6	6	6	6	6	6	6	1	4	4	4	4	4	3	2	2	2	4	4	4	2
Only Counted If Greater than 1"																												
<i>Littorina gigantea</i>		<1	-	<1	01	01	-	-	-	<1	-	-	<1	-	-	01	04	06	12	23	29	29	25	28	58	40	44	76
<i>Littorina ochracea</i>		-	-	-	+	+	-	-	-	-	+	-	-	-	-	-	02	-	-	-	-	-	-	-	-	-	-	-
<i>Mytilidae</i>		-	-	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Mytilus californianus</i>		17	01	10	07	05	12	07	04	13	16	40	36	90	82	59	02	+	+	+	+	09	24	+	17	19	20	42
<i>Mytilus galloprovincialis</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	+	-	-	-	-	+	+	<1	+
<i>Nemertea</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Nemertea</i> und.		<1	02	08	08	04	06	04	06	03	01	<1	-	-	-	<1	-	-	-	-	<1	-	-	-	-	04	08	03
<i>Nereididae</i> und.		-	-	-	-	-	-	<1	<1	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	05	04	08	03
<i>Nutallina californica</i>		05	29	46	73	61	65	63	69	60	52	59	32	14	07	04	-	02	05	05	03	03	05	05	05	04	08	<1
<i>Ocenebra</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	+	-	-
<i>Ophiobrya</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Pelecypoda</i> und. boring		-	-	<1	-	<1	<1	02	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Pemphidites</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-
<i>Phidiana hiltoni</i>		-	-	-	+	+	+	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Platystrophia</i> (juv)		-	-	-	+	<1	+	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Platyhelminthes</i> und.		10	-	08	04	07	13	05	08	05	02	04	05	+	03	07	05	+	01	-	-	-	04	-	03	02	05	13
<i>Polychaetes</i> spp.		-	-	-	<1	<1	02	01	02	01	<1	04	05	-	-	<1	<1	+	<1	05	02	04	01	09	06	02	04	07
<i>Polydora</i> spp.		-	-	02	02	01	02	05	02	01	<1	+	+	-	02	<1	03	<1	<1	05	02	04	01	09	06	02	04	07
<i>Pycnospoda helianthoides</i>		-	-	-	+	+	<1	+	<1	-	<1	+	+	-	-	-	+	-	-	+	-	01	+	-	-	+	+	07
<i>Serpulidae</i> und.		-	-	-	-	-	-	+	+	-	+	+	+	-	+	+	+	+	+	+	-	+	+	-	+	+	+	+
<i>Serpulorhiza squamigerus</i>		-	-	-	-	-	-	+	+	-	+	+	+	-	+	+	+	+	+	+	-	+	+	-	+	+	+	+
<i>Sipuncula</i> und.		-	-	-	-	-	-	+	+	-	+	+	+	-	+	+	+	+	+	+	-	+	+	-	+	+	+	+
<i>Tonella lineata</i>		-	-	-	+	+	+	-	+	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1	-
<i>Tricola</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
% Coverage																												
<i>Bryozoa</i> und. (encrusting)		<1	<1	02	02	02	02	03	08	04	11	36	43	14.7	19.2	19.3	21.0	12.0	17.3	17.2	17.0	16.0	11.5	7.5	7.5	7.5	13.2	26.2
<i>Chthamalus fissus</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Dodeceratia foveolata</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Halimeda</i> spp.		-	-	-	+	+	+	+	+	+	<1	<1	03	04	03	<1	-	+	+	+	+	+	+	01	02	06	01	07
<i>Phragmatopoma californica</i>		-	-	-	+	+	+	<1	<1	<1	+	+	+	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+
<i>Pista</i> spp.		-	-	-	+	+	+	+	<1	+	+	+	+	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+
<i>Portia</i> und. (encrusting)		-	-	-	+	+	+	+	+	+	+	+	+	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+
<i>Salmacina rhynchostoma</i>		-	-	-	+	<1	<1	02	04	02	02	<1	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Sponidae</i>		-	-	-	+	+	+	<1	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
tunicates, colonial/social und.		-	-	-	+	+	+	<1	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ns = not sampled, < 1 = measured but in low abundance, + = only recorded as present

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) South Diablo Cove Station SDC 1 at +0.3m (Based on 5 "Tegula" Count...

	Year	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
Taxon	# Surveys/Year	4	2	ns	ns	ns	ns	4	5	6	6	5	4	4	4	4	4	4	4	4	3	2	2	2	4	4	4	2	
Counted Researches of Size																													
<i>Aconitina</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Anthonomus elegantissima</i>	21.4	34.6	-	-	-	-	-	5.3	<1	<1	0.2	0.6	0.8	0.2	0.2	<1	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Balanus</i> spp.	-	-	-	-	-	-	-	<1	8.5	16.8	24.6	34.4	72.6	72.0	76.6	87.5	70.6	28.2	9.9	4.9	3.7	6.4	4.0	3.8	4.4	7.2	9.8	18.5	
<i>Callistoctonus ligatum</i>	-	-	-	-	-	-	-	<1	-	<1	1.6	5.6	11.6	6.4	1.5	1.2	0.7	-	-	<1	<1	0.2	-	-	-	0.7	<1	-	
<i>Epicauta profligata</i>	0.9	1.3	-	-	-	-	-	2.6	0.8	0.3	1.0	0.4	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-	
<i>Fissurella volcanica</i>	0.2	-	-	-	-	-	-	<1	-	0.2	0.1	0.4	1.8	1.3	0.1	1.3	1.6	2.2	4.6	3.3	2.6	1.4	1.7	9.9	23.6	14.8	13.4	20.4	
<i>Hemitepus nudus</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Lepidasterius</i> spp.	-	0.1	-	-	-	-	-	0.8	0.2	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Lottia digitalis</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Lottia limicola</i>	0.3	-	-	-	-	-	-	0.3	<1	0.4	2.2	3.5	1.9	2.7	1.7	1.8	1.2	0.7	1.0	2.5	2.2	1.9	1.9	5.5	11.79	12.8	10.8	18.1	
<i>Lottia pelta</i>	0.6	-	-	-	-	-	-	1.5	0.4	3.7	5.3	8.4	3.3	1.1	3.5	3.6	3.6	1.7	3.4	6.1	2.9	2.7	2.6	5.0	44.5	12.9	13.1	9.3	
<i>Mactolinecta scabra</i>	1.0	2.2	-	-	-	-	-	1.2	1.7	3.9	24.4	15.2	200.8	199.7	21.5	3.0	4.0	2.0	1.6	4.7	4.4	13.5	4.0	3.9	76.0	88.3	98.7	73.0	
<i>Mogella</i> spp.	0.1	-	-	-	-	-	-	0.2	0.4	0.5	0.4	0.9	0.3	0.1	-	-	<1	-	0.3	0.3	-	-	-	-	-	1.6	1.0	1.6	
<i>Nucella emarginata</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Ocenebra</i> spp.	-	-	-	-	-	-	-	0.7	0.2	-	0.4	0.4	0.2	0.4	0.4	-	0.1	-	-	0.4	0.6	0.3	-	-	0.3	0.6	0.5	0.6	0.5
<i>Pachygrapsus crassipes</i>	-	-	-	-	-	-	-	<1	-	<1	-	0.2	0.2	<1	0.2	0.3	0.3	0.2	0.3	0.4	0.6	0.3	-	-	0.3	0.6	0.5	0.6	0.5
<i>Pagurus</i> spp.	3.2	5.9	-	-	-	-	-	11.8	2.9	3.8	5.5	7.9	9.8	18.6	30.7	20.4	19.6	8.4	16.3	7.1	4.1	3.6	14.1	1.0	2.6	10.7	2.6	10.4	10.4
<i>Pustater ochraceus</i>	-	-	-	-	-	-	-	-	-	-	-	<1	<1	0.1	0.5	0.2	0.2	<1	<1	0.1	0.5	0.4	-	-	0.1	0.1	-	-	-
<i>Strongylocentrotus purpuratus</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.2	5.2	15.2	40.8
<i>Tectaria personata</i>	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Tectaria scabum</i>	0.9	0.6	-	-	-	-	-	2.2	0.9	3.9	10.6	18.3	3.6	3.8	2.2	2.3	0.7	0.6	0.9	1.4	1.1	0.2	0.5	0.8	1.2	1.1	0.6	2.3	
<i>Tegula brunnata</i>	1.3	0.2	-	-	-	-	-	9.7	0.6	1.0	3.0	0.7	0.2	3.9	9.1	1.8	1.7	0.2	0.1	<1	0.8	4.10	4.39	-	-	0.2	1.2	16.8	
<i>Tegula funebralis</i>	1.4	6.3	-	-	-	-	-	14.2	39.2	62.4	36.6	109.0	123.6	298.0	173.5	57.4	2.7	4.6	0.4	<1	0.8	-	-	-	-	0.6	1.2	16.8	
<i>Terracilla rubescens</i>	<1	-	-	-	-	-	-	2.0	1.5	0.6	23.6	126.6	82.1	110.5	101.7	153.3	268.6	71.2	23.1	49.1	71.0	57.9	15.5	11.3	97.7	135.4	168.6	130.7	
Only Counted If Greater than 1:																													
<i>Acanthina nitida</i>	<1	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Acanthina undulata</i>	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Acaulidina papillata</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Alia</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Amphioctia occidentalis</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Amphipholis</i> spp.	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Amphistoma</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Antipopeus antennata</i>	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Anthozoa</i> undulata	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Aplysia californica</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Archidoris</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Asterina muricata</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Bartera</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Burina</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Cancer antennarius</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Cancer</i> spp.	<1	-	-	-	-	-	-	<1	-	<1	-	<1	-	-	-	-	<1	-	<1	<1	-	-	-	0.1	<1	<1	-	-	
<i>Chaetoptera</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Cirratulidae</i> Terebellidae undulata	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Cleavelina hutchinsoni</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Crepidula</i> spp.	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Ctenophora</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Dianthia sandiegensis</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Diodora</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Diodora ornata</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Diporeia albopunctata</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Erethia</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Flabellina trilineata</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Glynn subquadrata</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Granulina morosifolia</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Granulidae</i> (juv.)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Haliotis decemcostata</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Haliotis</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

(continued)

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) South Diablo Cove Station SDC 1 at +0.3m (Based on 5"Regula" Count Quadrats) (continued)

Taxon	Year	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
# Surveys/Year	4	2	ns	ns	ns	ns	4	5	6	6	5	5	4	4	4	4	4	4	4	4	3	2	2	2	4	4	4	2
Only Counted if Greater than 1"																												
<i>Hemigrapsus oregonensis</i>	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Heptacarpus</i> spp.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Hermisprida crassicornis</i>	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Homolo. luridum/Lirularia succinea</i>	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Idotea</i> spp.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Ischnochitonidae</i>	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Isopoda</i> und.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Lacuna</i> spp.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Lamellariidae</i>	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Lepidodonta</i> spp.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Lasothuria murres</i>	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Littoripoma gibberum</i>	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Littorina</i> spp.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Lophopanopeus</i> spp.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Lottia asini</i>	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Lottia gigantea</i>	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Lottia nasabilis</i>	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Lottia ochracea</i>	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Mayidae</i>	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Megasthira crenulata</i>	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Modiolus</i> spp.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Myrtilidae</i>	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Mytilus californianus</i>	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Mytilus galloprovincialis</i>	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Mytilus</i> spp.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Neanthes</i> spp.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Nereis</i> spp.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Nereis</i> und.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Nereidae</i> und.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Nudistella/Ostia</i> spp.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Nutallina californica</i>	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Ocenebra</i> spp.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Ophiactis simplex</i>	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Ophiobryx</i> spp.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Ophiuridae</i> und.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Pelecyopoda</i> und.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Pelecyopoda</i> und. boring	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Phidiana hilarii</i>	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Piezaster/Hieracia</i> (juv.)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Platyhelminthes</i> und.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Polychaeta</i> und.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Pugetia</i> spp.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Pycnogonida</i> und.	.	.	.	.	.	.	.	.	.	.	.</																	

ns = not sampled, <1 = measured but in low abundance; + = only recorded as present

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) South Diablo Cove Station SDC 1 at +0.6m (Based on 5 "Tegula" Count

[illegible]

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) South Diablo Cove Station SDC 1 at +0.6m (Based on 5 "Tegula" Count Quadrats) (continued)

[illegible]

ns = not sampled, < 1 = measured but in low abundance, + = only recorded as present

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) South Diablo Cove Station SDC 2 at +0.3m (Based on 5 "Tegula" Count Quadrats)

Taxon	Year	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002		
	# Surveys/Year	4	6	6	6	6	6	6	6	6	6	5	6	ns	1	4	4	4	4	4	2	ns	ns	ns	4	4	4	2		
Counted Recruits of Size																														
<i>Acanthina</i> spp.		0.4	0.7	0.2	0.4	0.3	0.2	0.4	1.1	0.9	1.4	1.7	1.7	0.2	0.3	1.1	1.6	9.29	88.3	73.3	43.5					0.4	0.7	0.5		
<i>Anthopleura elegantissima</i>	270	337	381	446	537	39.5	39.1	33.6	47.3	29.3	55.6	77.9		194.0	150.2	116.6										33.3	56.8	64.2	90.7	
<i>Anthopleura xanthogramma</i>		<1	0.4	0.2	1.1	0.1	<1	<1	<1	<1	<1	<1	<1		4.6															
<i>Balanus</i> spp.		<1	0.4	0.2	1.1	0.1	<1	<1	<1	<1	<1	<1	<1		4.6															
<i>Coralliophila</i>		0.2	0.6	1.29	5.7	1.2	0.7	1.9	1.0	0.7	<1	<1	<1																	
<i>Epacris prolifera</i>		<1	<1	0.1	0.3	0.1	<1	<1	0.3	0.1	0.3	0.1	<1																	
<i>Fissurula volcano</i>		0.2	0.2	0.2	0.3	0.2	0.1	0.1	0.2	0.3	<1	0.2	<1																	
<i>Halysites</i> spp.		<1	0.1	0.2	0.1	0.2	0.1	<1	<1	<1	<1	<1	<1																	
<i>Hemigrapsus nudus</i>		0.6	0.3	0.4	0.8	0.6	0.3	0.2	<1	<1	<1	<1	<1																	
<i>Leptasterias</i> spp.		0.8	<1	1.1	1.1	0.5	0.3	0.3	0.5	0.5	0.5	0.5	0.5		2.4	1.5	4.3	2.5	2.9	5.1	3.7					1.59	8.1	6.3	3.1	
<i>Lottia digitalis</i>		1.0	<1	0.3	0.7	1.2	1.2	1.3	0.8	0.5	3.3	2.6	4.0		2.0	1.5	2.4	0.7	2.7	2.1	0.2					7.6	4.0	5.2	2.6	
<i>Lottia limicola</i>		0.2	0.1	1.0	1.9	0.4	1.1	2.1	3.1	4.2	2.6	1.5	2.6		39.4	14.6	7.2	1.3	3.2	5.6	1.7					24.4	63.3	29.5	14.4	
<i>Marchenella scabra</i>		6.3	3.8	4.1	10.7	14.6	11.9	22.9	15.4	19.4	40.3	54.4	65.0																	
<i>Mopelia</i> spp.		0.2	<1	0.9	0.8	0.2	<1	0.1	0.2	0.2	0.4	0.2	<1																	
<i>Mucella emarginata</i>			<1																											
<i>Ocenebra</i> spp.		0.2	0.4	1.0	1.0	2.0	0.9	0.2	0.4	0.6	0.3	<1	<1		<1	1.3	1.0	0.7	0.7	0.6						0.7	0.4	1.2	0.3	
<i>Pachyproctus crassipes</i>		<1	<1	<1	0.1	0.1	0.3	0.1	<1	0.3	<1	0.3	<1														4.0	8.8	4.1	13.5
<i>Pogonops</i> spp.	49	171	8.2	11.3	20.5	20.8	17.2	5.2	9.2	11.4	10.2	16.8		24.2	15.0	24.2	20.5	33.2	15.1	3.4										
<i>Plaster ochraceus</i>		<1	<1		0.1	0.2	<1	0.1	<1	<1	<1	<1	<1		0.2	0.2	0.6	0.5	0.6	0.5	0.1									
<i>Pseudodelphinus porus</i>		0.4	0.1	<1	<1	<1	<1	0.2	<1	<1	0.1	0.1	0.1														1.7	4.1	0.3	0.8
<i>Strongylocentrotus purpuratus</i>																														
<i>Tectaria pallescens</i>		1.1	2.0	2.0	2.6	2.7	2.2	4.8	8.0	8.6	7.2	8.1		6.0	0.8	1.9	0.6	0.9	1.8	0.5						0.8	2.4	3.8	7.5	
<i>Tectaria scutum</i>		0.2	0.4	1.0	2.5	3.5	2.3	3.1	0.4	0.4	1.5	0.8			1.4	0.4	0.3	<1	<1	0.1						<1	<1	<1		
<i>Tegula brunnea</i>	95	60.2	40.4	28.1	42.5	42.6	22.7	76.9	66.5	104.7	237.0	294.3		515.4	160.7	67.1	92.0	134.0	140.2	170.7						111.7	262.1	214.7	206.3	
<i>Tegula finialis</i>																														
<i>Tegula</i> spp.	54	1.3	0.7	1.0	4.7	5.0	2.5	1.5	4.9	12.1	5.2	3.3		9.8	11.4	74.1	48.9	78.7	46.1	29.9						20.6	40.4	26.0	35.7	
<i>Tegula rubescens</i>																														
Only Counted If Greater than 1																														
<i>Acmaea nitida</i>																														
<i>Acmaea</i> und.	0.5																													
<i>Aeolidia papillaria</i>	<1																													
<i>Aitia</i> spp.																														
<i>Amphissa</i> spp.																														
<i>Anthopleura artemesia</i>																														
<i>Antidotea</i> und.																														
<i>Aplysia californica</i>																														
<i>Asteria miniata</i>																														
<i>Balanus/Tectaria</i> spp.																														
<i>Barbatula</i> spp.																														
<i>Bitum</i> spp.																														
<i>Cancer antennarius</i>																														
<i>Cancer productus</i>																														
<i>Cancer</i> spp.																														
<i>Chactopoda</i>																														
<i>Ctenulidae/Tentaculidae</i> und.																														
<i>Crepidula</i> spp.																														
<i>Cyrenopsis</i> spp.																														
<i>Dionidia sandiegensis</i>																														
<i>Diplopora ornata</i>																														
<i>Dicentella insessa</i>																														
<i>Dorostella albopunctata</i>																														
<i>Gastropoda</i> (unv)	0.7																													
<i>Haplocaerus</i> spp.																														

ns = not sampled, <1 = measured but in low abundance, + = only recorded as present

(continued)

ns = not sampled, <1 = measured but in low abundance, + = only recorded as present

(continued)

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) South Diablo Cove Station SDC 2 at +0.3m (Based on 5 "Tegula" Count Quadrats) (continued)

[illegible]

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) South Diablo Cove Station SDC 2 at +0.9m (Based on 5 "Tegula" Count Quadrats)

Taxon	Year # Surveys/Year	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Counted Regardless of Size																												
<i>Acanthina</i> spp		0.2	-	0.5	0.6	0.4	0.6	0.8	0.3	0.5	0.8	0.6	0.8		1.2	0.1	0.3	-	0.2	0.2	0.3				0.2	0.2	0.4	-
<i>Anthopleura elegantissima</i>		219.5	160.4	138.5	236.0	242.0	193.0	156.1	58.6	94.5	129.3	142.5	172.9		301.0	280.0	317.2	214.8	192.5	174.5	81.0				92.0	148.9	214.7	154.9
<i>Anthopleura xanthogrammica</i>		-	-	<1	0.2	<1	<1	-	-	-	-	-	-		-	-	-	-	-	-	-				-	-	-	-
<i>Balanus</i> spp		-	-	<1	<1	-	-	-	-	-	0.2	0.3	-		0.4	0.4	<1	0.1	<1	-	-				-	-	-	-
<i>Eplactis prolifera</i>		-	-	0.2	0.1	<1	-	<1	-	-	-	-	-		-	-	-	-	-	-	-				-	-	<1	-
<i>Fissurella volcano</i>		-	-	-	-	-	-	-	-	<1	-	-	-		-	-	-	-	<1	-	-				0.1	-	-	-
<i>Haliotis</i> spp		-	-	-	-	-	-	-	-	-	-	-	-		-	-	0.2	-	-	-	-				-	-	-	-
<i>Hemigrapsus nudus</i>		-	0.2	0.1	<1	0.1	<1	0.1	0.1	<1	<1	0.1	-		-	<1	-	-	<1	-	-				-	-	<1	-
<i>Leptasterias</i> spp		-	-	-	<1	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-				-	-	-	-
<i>Lottia digitalis</i>		4.1	0.9	0.8	4.0	3.2	2.3	0.7	0.8	1.6	-	0.5	0.8		0.2	0.7	<1	-	<1	-	0.2				-	1.4	0.2	0.1
<i>Lottia limatula</i>		2.1	0.6	0.7	1.7	1.2	2.2	2.7	1.2	1.0	2.4	2.0	3.9		1.8	1.4	4.1	2.8	4.0	6.7	1.5				6.4	10.2	8.5	4.2
<i>Lottia pelta</i>		0.2	0.4	0.6	1.4	0.5	1.1	1.2	0.9	1.5	0.9	0.8	1.5		1.6	0.4	0.8	0.8	2.9	0.9	0.7				2.8	1.6	3.2	3.4
<i>Macclintockia scabra</i>		47.2	36.7	31.6	59.9	84.6	90.3	78.0	27.7	37.6	49.5	47.8	62.2		54.8	39.9	26.9	13.1	28.8	21.0	8.0				37.5	49.2	43.9	20.8
<i>Mopalia</i> spp		-	-	0.1	0.2	0.2	-	<1	<1	<1	0.2	0.2	<1		-	-	-	-	-	-	-				-	0.3	0.3	0.1
<i>Nucella emarginata</i>		-	-	0.8	<1	<1	-	-	-	-	-	-	<1		-	-	0.1	-	-	-	-				-	-	<1	-
<i>Ocenebra</i> spp		-	-	0.2	0.2	0.1	0.3	0.3	0.3	0.1	<1	<1	<1		-	-	<1	<1	<1	<1	-				-	<1	<1	-
<i>Pachygrapsus crassipes</i>		-	<1	0.1	0.2	<1	<1	0.1	0.2	<1	0.2	0.2	0.4		-	0.6	0.4	0.3	0.6	0.5	0.2				0.4	0.2	0.8	-
<i>Pagurus</i> spp		14.9	8.0	6.0	19.0	11.0	15.8	15.1	5.9	2.7	5.4	6.3	16.1		11.8	16.9	16.5	21.2	21.8	5.4	0.3				2.1	3.7	5.4	4.2
<i>Pisaster ochraceus</i>		-	-	-	<1	-	<1	<1	-	-	<1	-	-		-	0.3	0.3	0.7	0.3	-	0.1				-	<1	-	-
<i>Pseudomelasma torosa</i>		-	-	-	-	-	-	-	-	-	<1	-	-		-	-	-	-	-	-	-				-	-	-	-
<i>Sironylocentrotus purpuratus</i>		-	-	<1	<1	-	<1	<1	-	-	<1	-	-		-	-	-	<1	0.1	0.2	0.1				0.1	-	-	-
<i>Tectura persona</i>		-	-	-	-	-	<1	-	-	-	-	-	-		-	-	-	-	-	-	-				-	-	0.3	-
<i>Tectura scutum</i>		8.7	2.8	3.0	3.3	4.3	2.8	7.7	2.4	6.8	9.6	4.1	8.5		6.8	1.0	4.8	1.2	1.4	3.1	2.6				0.8	1.2	1.0	1.3
<i>Tegula brunnea</i>		-	-	<1	<1	-	-	<1	<1	-	-	-	-		-	0.3	-	-	-	-	0.1				-	-	-	-
<i>Tegula funebris</i>		83.8	124.8	85.5	63.2	88.4	84.4	134.7	108.5	91.4	112.8	122.9	154.2		145.2	263.4	217.3	120.2	176.0	295.2	216.6				182.0	136.7	176.2	118.5
<i>Tegula pulligo</i>		-	-	-	<1	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-				-	-	-	-
<i>Tetractia rubescens</i>		<1	<1	-	1.7	0.4	0.1	0.3	<1	0.2	2.1	0.3	0.5		1.0	4.7	40.5	20.0	7.5	11.3	6.2				<1	0.4	0.2	-
Only Counted if Greater than 1"																												
<i>Acmacea mitra</i>		0.6	-	-	-	-	-	-	-	<1	-	-	<1		-	-	<1	-	-	-	-				-	-	-	-
<i>Acmaceidae</i> unid		-	<1	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-				-	-	-	-
<i>Alla</i> spp		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-				-	-	-	-
<i>Amphissa</i> spp		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-				-	-	-	-
<i>Barlelea</i> spp		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-				-	-	-	-
<i>Bittrium</i> spp		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-				-	-	-	-
<i>Cancer</i> spp		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-				-	-	-	-
<i>Chaetoptendae</i>		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-				-	-	-	-
<i>Cirratulidae/Terebellidae</i> unid		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-				-	<1	-	-
<i>Crepidula</i> spp		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-				-	-	-	-
<i>Cyanoplax</i> spp		-	0.2	<1	2.2	2.1	1.6	0.8	1.6	0.9	2.3	1.5	2.6		-	0.4	0.3	0.1	0.7	0.2	0.2				0.3	0.7	0.3	0.1
<i>Diadula sandiegensis</i>		-	-	-	-	-	-	-	-	<1	-	-	-		-	-	-	-	-	-	-				-	-	-	-
<i>Diopatra ornata</i>		0.3	<1	-	0.1	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-				-	-	-	-
<i>Discuria insessa</i>		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-				-	-	-	-
<i>Grapsidae</i> (juv.)		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-				-	-	-	-
<i>Heptacarpus</i> spp		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-				-	-	-	-
<i>Hermisenda crassicornis</i>		-	-	-	-	-	-	-	-	<1	-	-	-		-	-	-	-	-	-	-				-	-	-	-
<i>Idotea</i> spp		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-				-	-	-	-
<i>Ischnochitonidae</i>		0.3	0.2	0.2	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-				-	-	-	-
<i>Isopoda</i> unid.		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-				-	-	-	-
<i>Lacuna</i> spp		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-				-	-	-	-
<i>Littorina</i> spp		-	<1	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-				-	-	-	-
<i>Lophopanopeus</i> spp		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-				-	-	-	-
<i>Lottia asmi</i>		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-				-	-	-	-
<i>Lottia gigantea</i>		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-				<1	0.2	-	-
<i>Lottia instabilis</i>		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-				-	-	-	-

ns = not sampled, <1 = measured but in low abundance, + = only recorded as present

(continued)

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) South Diablo Cove Station SDC 2 at +0.9m (Based on 5 "Tegula" Count Quadrats) (continued)

Taxon	Year # Surveys/Year	1976 4	1977 4	1978 6	1979 6	1980 6	1981 6	1982 6	1983 6	1984 6	1985 6	1986 6	1987 6	1988 ns	1989 1	1990 4	1991 4	1992 4	1993 4	1994 4	1995 2	1996 ns	1997 ns	1998 ns	1999 4	2000 4	2001 4	2002 2
Date Counted If Greater than 1"																												
<i>Lotia ochracea</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Magidae		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mytilidae		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Mytilus californianus</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Mytilus galloprovincialis</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Mytilus</i> spp.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Nassarius</i> und.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Nemertea</i> und.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Nereididae</i> und.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Nitidulidae</i> / <i>Opalia</i> spp.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Nitidulina californica</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Ophiuroides</i> und.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Platydorinae</i> und.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Pollicipes polymerus</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Polychaeta</i> und.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Pagella</i> spp.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Tychonotus</i> und.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Sepioidae</i> und.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Sipuncula</i> und.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Sponidae</i> und.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Tonacella lineata</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Trochile</i> spp.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
% COVERAGE																												
<i>Bryozoa</i> , und. (encrusting)		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Cribromma fissus</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Pilgramopora californica</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Pista</i> spp.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Porifera</i> und. (encrusting)		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Spirorbidae</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
unicates, colonial/social und.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

ns = not sampled, < 1 = measured but in low abundance, + = only recorded as present

Quadrats)

[illegible]

(continued)

Quadrats) (continued)

[illegible]

(continued)

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) South Diablo Cove Station SDC 3 at +0.3m (Based on 5 "Tegula" Count Quadrats) (continued)

Taxon	Year # Surveys/Year	1976 4	1977 6	1978 6	1979 6	1980 6	1981 6	1982 6	1983 6	1984 6	1985 6	1986 6	1987 6	1988 4	1989 4	1990 4	1991 4	1992 4	1993 4	1994 4	1995 3	1996 2	1997 2	1998 2	1999 4	2000 4	2001 4	2002 2
% Coverage																												
<i>Aglaophenia</i> spp.		-	-	-	-	-	+	-	-	-	+	-	-	+	-	+	-	+	+	+	+	-	-	-	-	-	-	-
Bryozoa, unid. (encrusting)		-	-	<1	+	<1	<1	+	+	<1	+	<1	-	+	-	+	-	+	+	+	+	-	-	-	-	-	-	-
Bryozoa, unid. (foliose)		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Chthamalus fissus</i>		+	+	<1	+	<1	+	<1	<1	0.1	1.9	4.9	3.3	2.6	3.4	2.4	1.1	1.2	0.9	0.6	0.5	1.3	1.4	1.3	0.2	0.7	5.4	8.2
<i>Dendropoma</i> spp.		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Eurytomella bilabiata</i>		-	<1	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Haliclona</i> spp.		-	-	-	-	<1	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Phragmatopoma californica</i>		-	+	<1	<1	+	+	+	+	+	+	+	<1	0.2	0.2	+	+	+	+	+	+	+	+	+	<1	0.1	+	<1
<i>Pista</i> spp.		1.2	0.5	0.9	2.3	1.7	1.6	1.1	+	+	<1	+	+	+	+	+	+	+	+	+	<1	+	+	+	+	+	+	+
Porifera unid. (encrusting)		-	-	-	<1	<1	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<1	<1	+	+	+
Spirorbidae		-	+	+	+	<1	<1	+	+	+	+	+	+	<1	<1	+	+	<1	<1	<1	<1	+	+	+	+	+	+	+
tunicates, colonial/social unid		<1	-	<1	<1	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ns = not sampled, < 1 = measured but in low abundance, + = only recorded as present

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) South Diablo Cove Station SDC 3 at +0.9m (Based on 5 "Tegula" Count Quadrats)

Taxon	Year																											
	# Survey/Year																											
	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
Genus/Retardant of Size																												
<i>Acanthia</i> spp.	<1	0.2	0.7	1.2	0.9	1.3	0.7	0.6	1.0	0.8	0.8	2.4	1.3	1.0	0.7	0.7	0.6	0.6	0.9	0.7	1.1	0.7	1.1	1.0	0.5	0.3	0.5	
<i>Anthonomus elegantissimus</i>	76.2	90.3	74.8	73.4	81.3	75.3	75.3	23.5	12.2	6.3	8.0	17.7	26.0	39.4	56.0	51.9	65.8	92.9	90.4	70.9	72.6	56.9	56.8	52.3	67.0	85.5	100.8	
<i>Anthonomus anthracinus</i>	-	0.1	0.1	0.1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Balanus</i> spp.	0.2	+	+	0.1	<1	+	0.2	-	-	0.1	<1	<1	<1	<1	0.2	-	<1	0.1	0.1	-	-	-	-	-	-	-	-	
<i>Callosoma ligatum</i>	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Epicauta proflera</i>	-	-	-	0.5	0.3	-	-	+	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Festuca volcanica</i>	-	-	-	<1	0.3	0.4	0.2	<1	<1	<1	<1	-	-	0.1	-	-	-	-	-	-	-	-	0.2	-	-	-	-	
<i>Hemiphaedusa nudus</i>	0.4	0.2	0.2	0.2	0.3	0.3	0.4	0.2	0.2	0.2	0.3	0.3	0.2	0.5	0.1	0.2	0.1	-	-	-	-	-	-	-	-	-	-	
<i>Lepidopterus</i> spp.	<1	<1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.5	0.1	0.2	0.1	-	-	-	-	-	-	-	-	-	
<i>Lottia elongata</i>	16	2.5	0.6	0.5	0.7	0.7	0.6	0.3	1.1	0.8	0.7	0.4	0.6	0.5	0.4	0.5	<1	0.2	0.2	0.2	0.2	0.7	0.1	0.3	0.4	0.5	0.5	
<i>Lottia diguila</i>	19	1.0	1.5	2.4	1.7	1.6	1.0	0.8	2.1	2.6	4.7	3.9	6.4	4.5	5.8	2.9	5.3	2.8	4.1	2.3	3.0	3.5	3.7	6.1	4.4	5.5	5.0	
<i>Lottia limicola</i>	0.4	0.3	0.2	0.5	0.2	1.3	2.5	1.1	0.7	1.3	0.7	0.8	1.1	1.9	1.7	1.1	0.4	<1	<1	0.3	0.4	0.8	0.5	3.7	1.8	0.6	1.9	
<i>Machinoceros scabra</i>	16.8	44.2	24.2	27.1	36.0	39.3	54.3	34.3	39.5	51.5	52.6	113.2	74.4	63.2	34.1	31.4	26.4	35.4	27.4	18.2	24.2	34.1	31.9	58.8	94.8	71.6	39.5	
<i>Mura idae</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Nitellia emarginata</i>	0.1	0.1	<1	<1	<1	<1	0.2	<1	0.1	<1	<1	<1	0.1	<1	<1	<1	-	<1	<1	-	0.1	-	-	-	0.1	-	-	
<i>Ocenebra</i> spp.	-	0.1	0.5	0.2	0.9	1.0	0.5	0.4	0.2	0.3	0.3	0.8	0.7	1.3	2.0	0.7	0.6	0.6	0.3	0.2	0.7	1.1	0.3	0.2	0.3	0.1	0.7	
<i>Pachyrrhynchus crassipes</i>	<1	<1	0.3	0.3	0.2	0.1	0.2	0.3	<1	0.2	0.2	0.4	0.4	1.0	0.6	1.1	0.6	0.7	0.5	0.1	0.7	0.2	0.7	0.6	0.4	0.5	1.3	
<i>Pogonus</i> spp.	41.7	17.9	18.3	22.5	30.8	35.6	31.1	15.2	11.0	10.6	16.6	17.3	9.9	11.0	24.9	27.3	71.9	39.9	24.3	15.7	20.3	27.9	3.8	5.3	10.7	15.4	18.8	
<i>Pissaster ochroleucus</i>	-	-	-	-	-	-	<1	<1	-	-	-	<1	+	-	-	0.1	<1	0.6	-	0.1	0.6	-	0.3	-	-	-	0.1	
<i>Strongylocentrotus purpuratus</i>	<1	-	-	-	-	<1	<1	<1	-	-	-	<1	+	-	-	-	<1	-	0.1	-	0.1	-	-	-	<1	-	0.1	
<i>Tectaria palaceta</i>	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Tectaria persana</i>	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Tectaria scutellum</i>	6.8	4.2	2.0	2.9	3.0	1.8	5.8	1.7	4.0	6.5	3.3	4.2	2.9	8.9	2.3	3.9	1.6	1.9	1.3	0.7	2.0	1.9	2.8	3.9	5.7	2.4	0.8	
<i>Tegula brunnea</i>	-	-	<1	0.2	<1	<1	<1	<1	-	-	-	-	-	-	-	-	<1	-	-	<1	-	-	0.2	<1	-	-	-	
<i>Tegula blanfordi</i>	111.7	173.7	169.9	136.9	217.5	216.1	158.7	170.3	141.5	207.7	232.3	229.9	201.2	366.7	361.4	370.8	184.6	213.6	243.1	342.9	294.2	313.3	298.8	251.5	238.6	181.7	103	
<i>Tegula</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Tenellaria rubescens</i>	<1	<1	1.1	3.9	6.1	4.1	4.7	0.7	1.0	3.8	1.9	0.9	2.7	1.6	2.8	3.7	2.5	4.0	3.0	0.4	0.1	3.0	0.1	<1	0.1	<1	-	
Only Counted If Greater than 1"																												
<i>Acmaea mitra</i>	-	-	-	+	+	-	<1	-	+	-	-	+	+	+	-	-	-	+	+	+	-	0.1	-	+	-	+	+	
<i>Acmaeidae</i> und.	0.1	-	+	+	+	+	+	+	+	<1	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Aeolidia papilliosa</i>	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Alia</i> spp.	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Amphissa</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Asterina muricata</i>	-	<1	+	+	+	+	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	0.1	-	-	-	-	-	-	
<i>Bitium</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Cancer antennarius</i>	-	0.1	-	0.1	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Cancer productus</i>	-	-	-	<1	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Cancer</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Chamaeleonidae</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Chamaeleonidae</i> Terebellidae und.	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Chamaeleonidae</i> Terebellidae und. A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Crepidula</i> spp.	<1	-	+	+	+	+	+	<1	+	+	+	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Crepidula</i> spp.	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Cyprochloa stelleri</i>	<1	+	+	1.0	0.4	0.2	1.0	0.4	0.1	0.7	0.6	1.1	0.4	0.8	0.8	0.5	0.1	0.4	0.2	0.2	0.2	0.4	0.9	0.4	0.2	0.4	0.2	
<i>Cyprochloa</i> spp.	-	<1	0.1	0.1	0.3	0.3	0.4	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Diplopora ornata</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Discaria uncinata</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Dorostella albopunctata</i>	-	-	+	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Gitapsidae</i> (uv)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Hemiphaedusa argentea</i>	-	-	-	<1	<1	0.1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Leptocarpus</i> spp.	-	0.3	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

ns = not sampled, <.1 = measured but in low abundance, + = only recorded as present

(continued)

Quadrats (continued)

ns = not sampled, <.1 = measured but in low abundance, + = only recorded as present

ns = not sampled, <.1 = measured but in low abundance, + = only recorded as present

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) South Diablo Point Station SDP 1 at +0.9m (Based on 5 "Tegula" Count Quadrats)

Taxon	Year	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
	# Surveys/Year	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Counted Regardless of Size																												
<i>Aniophora elegantissima</i>		36.1	35.8	32.5	16.1	21.3	25.2	57.2	49.8	63.2	68.8	99.1	100.2	78.1	92.6	111.7	114.0	108.7										
<i>Aniophora xanthogrammica</i>		0.7	0.8	0.9	0.8	0.7	0.7	0.4	1.1	0.6	1.1	1.1	0.9	0.8	0.9	1.1	1.4	0.8										
<i>Balanus</i> spp.		70	37	<1	33.9	18.9	77.0	9.4	16.4	<1	1.0	-	-	0.5	51.3	77.2	2.4	0.3										
<i>Calliotoma ligatum</i>		-	<1	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-										
<i>Epicaris prolifica</i>		-	0.2	-	0.3	0.1	<1	-	<1	0.1	-	0.2	-	-	-	-	-	-										
<i>Fusurella volcana</i>		2.5	1.2	4.7	3.3	3.5	6.1	2.4	1.8	5.4	6.1	6.4	11.7	16.3	12.5	7.3	2.7	1.4										
<i>Halona</i> spp.		<1	<1	-	0.3	0.2	-	-	-	-	-	-	-	-	-	-	-	-										
<i>Hemigrapsus nudus</i>		1.4	3.1	0.7	2.4	2.5	3.6	2.4	2.0	1.6	0.2	0.2	-	-	-	-	-	-										
<i>Lepidasterias</i> spp.		0.2	0.3	1.2	1.0	0.2	0.3	0.4	1.0	0.2	0.1	0.2	-	0.3	0.5	0.7	0.3	0.2										
<i>Lotia digitalis</i>		1.7	1.8	2.6	2.7	2.9	2.2	4.2	2.2	2.7	1.8	3.2	2.4	2.3	2.8	2.1	1.6	1.4	4.5									
<i>Lotia limicola</i>		0.7	5.1	8.7	3.1	4.2	4.6	5.0	5.3	10.2	7.9	25.1	16.0	17.8	108.5	161.6	105.0	100.0										
<i>Lotia pelta</i>		30.0	43.2	96.4	57.6	92.8	136.4	238.0	143.0	96.8	65.9	55.3	60.2	74.9	108.5	161.6	105.0	100.0										
<i>Macclintockia scabra</i>		0.2	0.2	<1	0.3	0.2	0.1	-	<1	-	-	<1	0.1	0.1	0.2	0.2	0.1	-										
<i>Mopalia</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
<i>Nassarius</i> spp.		0.2	0.1	0.2	0.8	0.7	0.6	0.4	0.3	0.3	0.3	0.4	0.1	0.1	<1	0.3	0.3	0.2										
<i>Nucella emarginata</i>		<1	<1	0.2	0.2	0.2	<1	0.2	0.8	0.7	0.5	0.3	0.4	0.4	<1	0.3	0.3	0.2										
<i>Ocenebra</i> spp.		0.7	0.6	0.5	0.7	1.1	1	0.4	0.5	2.9	1.6	2.3	1.9	0.8	2.9	2.0	0.9	1.3										
<i>Pachygrapsus crassipes</i>		9.1	4.0	3.1	3.9	6.9	3.9	8.2	4.2	1.2	1.3	1.1	0.4	0.6	0.7	1.1	0.7	0.6										
<i>Pagurus</i> spp.		0.3	0.3	0.3	0.2	0.4	0.8	1.0	1.0	1.3	1.1	1.8	1.2	1.6	0.1	0.1	0.1	-										
<i>Pisaster ochraceus</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
<i>Pseudomelasma torosa</i>		42.7	38.6	19.1	13.0	17.1	27.1	42.2	40.6	66.1	78.1	67.9	98.0	67.3	63.5	61.7	34.9	27.0										
<i>Strongylocentrotus purpuratus</i>		1.7	1.6	1.9	2.5	2.5	0.8	4.0	0.5	0.5	1.4	1.1	0.2	0.2	0.4	0.8	-	4.0										
<i>Tectaria scutum</i>		4.2	3.6	6.7	2.9	5.2	2.4	2.4	2.5	1.3	1.0	0.2	0.1	-	<1	0.5	1.2	0.4										
<i>Tegula brunnea</i>		0.2	0.5	0.8	1.4	3.5	4.4	14.0	13.1	3.7	0.5	0.4	0.1	0.1	0.7	1.6	4.2	1.1										
<i>Tegula funebrella</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
<i>Tegula</i> spp.		66.7	44.1	37.8	61.0	60.2	113.0	238.0	289.0	231.7	207.0	446.6	411.8	266.6	143.9	153.3	116.5	94.9										
<i>Tetracilia rubescens</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
Only Counted if Greater than 1"																												
<i>Acmaea mitra</i>		0.2	0.2	+	0.1	0.1	0.1	0.2	<1	+	+	<1	+	+	0.2	<1	+	+										
<i>Actinae</i> spp.		+	+	+	<1	+	+	+	+	+	+	+	+	+	+	+	+	+										
<i>Actinia</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
<i>Actinia papillata</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
<i>Actinia</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
<i>Amphisa</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
<i>Asteroida</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
<i>Balanus</i> spp.		3.3	1.2	1.2	1.2	1.2	8.8	-	-	-	-	-	-	-	-	-	-	-										
<i>Bartolotta</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
<i>Bitum</i> spp.		<1	<1	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-										
<i>Cancer antennarius</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
<i>Coralliophila</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
<i>Coralliophila</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
<i>Crepidula</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
<i>Crepidula</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
<i>Diploria</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
<i>Diploria</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
<i>Discordia</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
<i>Grapsidae</i> (juv.)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
<i>Henricia</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
<i>Homolidae</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
<i>Homolidae</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
<i>Idolea</i> spp.		0.2	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
<i>Ischnochitonidae</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
<i>Isopoda</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
<i>Katharina</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
<i>Lacuna</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										

ns = not sampled, <1 = measured but in low abundance, + = only recorded as present

(continued)

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) South Diablo Point Station SDP 1 at +0.9m (Based on 5 "Tegula" Count Quadrats) (continued)

[illegible]

ns = not sampled, < 1 = measured but in low abundance, + = only recorded as present

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) South Diablo Point Station SDP 2 at +0.9m (Based on 5 "Tegula" Count Quadrats)

Taxon	Year	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
# Surveys/Year	4	3	5	6	5	6	4	4	4	4	5	3	6	4	4	4	4	4	4	4	2	ns	ns	ns	3	4	4	2
Counted Abundances of Size																												
<i>Acanthina</i> spp.	12	32	18	17	12	12	12	<1	02	08	06	04	05	04	04	12	18	22	33	52	101				229	880	1052	1288
<i>Amphileura elegantissima</i>	04	01	08	04	09	08	07	02	03	05	05	01	03	03	03	02	03	02	07	11	11				091	07	11	09
<i>Amphileura xenobogranmica</i>	15	67	73	38	20	20	18	03	04	28	12	21	21	04	11	37	49	34	14	18	10				135	33		
<i>Balanus</i> spp.			01	02	03	02	03	05	16	12	12	11	15	16	09	17	13	05	01	01	01				<1	<1	01	01
<i>Calliostoma ligatum</i>																										<1		
<i>Calliostoma</i> spp.																												
<i>Comus californicus</i>		02	05	08	07	04	06	01	05	02	03	03	08	12	14	26	35	29	56	126	46				02	<1		01
<i>Epilactis prolifera</i>	<1	<1	03	03	04	03	02	02	07	08	13	08	12	14	12	10	06	<1	04	07	01				125	63	26	15
<i>Fissurella volcano</i>	08	12	10	08	05	08	08	04	13	06	09	04	04	04	12	10	05	<1	04	07	01				03		01	01
<i>Haliotis</i> spp.			<1																									
<i>Hemiphaedusa nudus</i>	03	03	16	26	38	19	36	21	23	28	23	27	22	16	15	19	15	16	15	28				05	11	22	21	
<i>Lepidaster</i> spp.			12	15	03	02	16	01	<1	<1				<1		01	02								03	10	10	17
<i>Lottia digitalis</i>				<1	01	02	09	01	09	02	02	08	08	18	34	24	12	19	65	74					399	146	79	43
<i>Lottia limicola</i>	02	05	02	02	03	12	13	04	05	04	10	10	10	02	03	13	03	<1	01	01	01				23	<1	10	23
<i>Meclochloa scabra</i>	01	03	01	01	01	01	01	02	02	02	<1	<1	01	01		01	02	<1	01	01	01				<1	01	02	02
<i>Mopelia</i> spp.																									03	06	01	02
<i>Mucella emarginata</i>			<1	<1			01	01		02	<1					<1	03	<1	01	<1	<1						<1	
<i>Ocenebra</i> spp.			02		<1	<1	<1	<1	<1	55	<1	01	03	07	04	03	09	03	13	09	19				15	16	18	10
<i>Pachyproctus crassipes</i>																												
<i>Pagurus</i> spp.	16	29	17	21	30	100	34	07	55	33	21	15	14	11	15	22	22	22	25	31	33				02	7	50	41
<i>Pagurus ochraceus</i>	05	02	06	09	17	08	12	11	09	20	09	09	18	11	15	15	22	22	22	25	31				57			
<i>Strongylocentrotus purpuratus</i>	121	248	198	121	63	80	67	86	49	24	43	66	86	87	167	359	515	846	1360	2148					2119	2338	1945	1611
<i>Tectura scutum</i>	02	09	24	02	42	37	31	30	20	17	40	42	50	51	60	65	73	53	09	12					03	12	13	242
<i>Tegula brunnea</i>	10		<1	01	02	02	<1	<1	<1	20	17	40	42	50	51	60	65	73	53	09	12				<1	<1	13	242
<i>Tegula funebralis</i>	10		<1	01	02	02	<1	<1	<1	20	17	40	42	50	51	60	65	73	53	09	12				<1	<1	13	242
<i>Tegula rubescens</i>	36	58	446	313	387	254	376	84	41	99	137	51	67	92	452	302	166	160	293	526					506	40	278	195
Only Counted If Greater than 1																												
<i>Acmaea mitra</i>			02	<1	+	+	<1	02	<1	02	<1	01	<1	<1	+	+	05	+	+	02	01				03	02	10	02
<i>Acmaea</i> und.	<1		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+
<i>Aeolidia papillaria</i>			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+
<i>Aeolidacea</i> und.			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+
<i>Alia</i> spp.			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+
<i>Amphusa</i> spp.			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+
<i>Amphileura artemisia</i>			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+
<i>Amphozoa</i> und.			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+
<i>Archidors</i> spp.			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+
<i>Asteria miniata</i>			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+
<i>Balanophyllia elegans</i>			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+
<i>Balanus/Teracilia</i> spp.			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+
<i>Borella</i> spp.			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+
<i>Brithium</i> spp.			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+
<i>Cadlina</i> spp.	<1		02	01	03	02	01	<1	<1	<1	01	03	<1	+	+	<1	<1	<1	01						01			
<i>Cancer antennatus</i>	<1		<1	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+
<i>Cancer</i> spp.			02	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+
<i>Charonidae</i>																												
<i>Chama</i> spp.																												
<i>Cirratulidae/Terebellidae</i> und.																												
<i>Clavelina leucomeni</i>																												
<i>Corynephia californica</i>	05																											
<i>Corynephia</i> spp.																												
<i>Cryptochiton stelleri</i>																												
<i>Cyclopea</i> spp.																												
<i>Cyrtoplex</i> spp.																												

ns = not sampled, < 1 = measured but in low abundance, + = only recorded as present

(continued)

Horizontal Band Transverse (continued)

[illegible]

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) South Diablo Point Station SDP 2 at +0.9m (Based on 5 "Tegula" Count Quadrats) (continued)

Taxon	Year # Surveys/Year	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Only Counted If Greater than 1"																												
<i>Pollicipes polymerus</i>	-	08	104	118	81	39	21	+	<1	+	+	+	<1	+	+	+	02	<1	02	06	12			249	184	197	16	
Polychaeta unid.	-	-	-	-	<1	+	02	-	-	-	<1	-	02	-	-	-	-	-	-	-	-	-	+	+	-	-	-	
Polydoridae	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Polyplacophora unid. a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Pygospio</i> spp.	12	03	06	11	03	08	11	05	08	07	13	05	09	05	03	04	02	02	02	04			+	+	+	+	+	
<i>Pygospion</i> unid.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Pura haustor</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Rostanga pulchra</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sabellidae	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Serpulidae unid.	<1	<1	01	02	02	02	02	02	04	02	05	04	09	08	20	16	06	05	20	44				113	64	38	48	
<i>Serpulorhis squamigerus</i>	02	03	04	04	06	12	16	18	16	16	16	72	62	61	53	66	90	75	65	57	102			90	64	51	46	
Sipunculida unid.	-	-	-	-	-	<1	02	+	02	<1	03	02	+	+	+	<1	<1	+	+	+	+	+	+	01	+	+	01	
<i>Sheila</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Tectura fenestrata</i>	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Tentacella lineata</i>	-	-	06	04	03	03	03	03	03	03	06	03	06	07	06	07	04	05	06	05	06			05	05	05	04	
<i>Tricola</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Trochophora catalinae</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Triopha maculata</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Trinia</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Ulicinia</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
snail, unid.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
%																												
<i>Abiet/Seriatella/Seriataria</i> spp.	-	-	-	<1	01	01	<1	<1	<1	<1	02	+	+	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Aglaophenia</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bryozoa, unid. (encrusting)	-	-	-	-	-	-	<1	<1	<1	+	<1	+	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Bryozoa, unid. (erect)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bryozoa, unid. (foliose)	-	-	-	-	-	-	01	02	+	+	<1	+	01	+	+	+	+	+	+	+	+	+	+	+	+	+	<1	
<i>Chlamidias fistus</i>	<1	02	<1	<1	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Dendropoma</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Dodecaceria fewkesi</i>	04	18	01	03	02	04	06	07	08	09	05	08	07	<1	<1	04	01	03	03	<1	08			04	02	01	02	
<i>Entoprocta</i> unid. a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Euxestonella bilabialis</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Halidiona</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Hydrobia</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Leucosolenia</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Metandrocarpa laniari</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Phragmatopoma californica</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Pista</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Portiera unid. (encrusting)	-	03	01	01	04	05	04	03	02	03	02	02	02	03	01	01	01	<1	<1	+	+	+	+	+	+	+	+	
<i>Salpinctes tribranchialis</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Spirorbidae	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Syllantheca porphyra</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Syllantheca</i> spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
bryozoan unid. a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
unicates, colonial/social unid.	-	-	-	02	04	06	03	08	06	06	08	04	07	05	03	+	<1	<1	+	+	+	+	+	+	+	+	+	

ns = not sampled, <1 = measured but in low abundance; + = only recorded as present

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) South Diablo Point Station SDP 3 at +0.3m (Based on 5 "Tegula" Count Quadrats)

Taxon	Year # Surveys/Year	1976 ns	1977 1	1978 ns	1979 ns	1980 ns	1981 ns	1982 ns	1983 ns	1984 ns	1985 1	1986 1	1987 1	1988 1	1989 ns	1990 ns	1991 ns	1992 ns	1993 ns	1994 ns	1995 ns	1996 ns	1997 ns	1998 ns	1999 ns	2000 ns	2001 ns	2002 ns
Counted Regardless of Size																												
<i>Acanthina</i> spp		-									0.4	0.2	-	-														
<i>Anthopleura elegantissima</i>		7.6									4.2	5.6	13.2	6.2														
<i>Calliostoma ligatum</i>		0.2									-	0.4	-	-														
<i>Epiactis prolifera</i>		0.2									-	-	0.2	-														
<i>Fissurella volcano</i>		-									-	0.4	0.4	0.2														
<i>Leptasterias</i> spp.		0.2									-	-	-	1.2														
<i>Lottia limatula</i>		0.2									0.2	-	0.4	-														
<i>Lottia pelta</i>		0.2									1.2	0.2	-	0.6														
<i>Macclintockia scabra</i>		-									3.8	0.4	-	0.6														
<i>Mopalia</i> spp		-									0.6	-	-	0.2														
<i>Ocenebra</i> spp		-									0.2	0.2	-	-														
<i>Pachygrapsus crassipes</i>		-									-	-	0.2	0.2														
<i>Pagurus</i> spp.		2.6									8.0	7.0	10.6	11.8														
<i>Tectura scutum</i>		-									-	-	0.6	-														
<i>Tegula brunnea</i>		1.2									2.2	2.2	0.2	-														
<i>Tegula funebralis</i>		209.2									226.6	337.2	176.8	292.0														
Only Counted if Greater than 1"																												
<i>Acmaea mitra</i>		-									+	+	-	-														
<i>Acmaeidae</i> unid.		-									+	+	+	+														
<i>Alia</i> spp		-									-	+	-	-														
<i>Crepidula</i> spp		+									+	+	+	+														
<i>Ischnochitonidae</i>		-									-	-	-	+														
<i>Lacuna</i> spp		-									+	+	+	+														
<i>Littorina</i> spp		-									+	-	-	-														
<i>Lottia asmi</i>		-									+	+	+	+														
<i>Nemertea</i> unid		-									0.4	-	+	-														
<i>Nuttallina californica</i>		-									0.2	-	-	-														
<i>Pugetia</i> spp.		0.2									-	-	0.4	-														
<i>Serpulidae</i> unid.		-									+	-	+	-														
<i>Serpulorbis squamigerus</i>		-									0.2	-	0.2	0.4														
% Coverage																												
Bryozoa, unid. (encrusting)		-									-	-	+	+														
<i>Chthamalus fissus</i>		-									+	+	+	-														
<i>Phragmatopoma californica</i>		-									+	+	+	-														
<i>Pisia</i> spp		-									+	+	+	+														
Porifera unid. (encrusting)		-									-	+	+	-														
<i>Salmacina tribranchiata</i>		-									+	-	-	-														
Spirorbidae		-									+	+	+	+														
tunicates, colonial/social unid		-									-	-	+	-														

ns = not sampled, < 1 = measured but in low abundance, + = only recorded as present

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) South Diablo Point Station SDP3 at +0.9m (Based on 5 "Tegula" Count Quadrats)

Taxon	Year # Surveys/Year	1976 ns	1977 1	1978 ns	1979 ns	1980 ns	1981 ns	1982 ns	1983 ns	1984 ns	1985 1	1986 1	1987 1	1988 1	1989 ns	1990 ns	1991 ns	1992 ns	1993 ns	1994 ns	1995 ns	1996 ns	1997 ns	1998 ns	1999 ns	2000 ns	2001 ns	2002 ns
Counted Regardless of Size																												
<i>Acanthina</i> spp.			-								0.8	0.4	-	-														
<i>Anthopleura elegantissima</i>			23.2								25.4	42.4	39.2	32.8														
<i>Anthopleura xanthogrammica</i>			-								0.2	0.2	-	-														
<i>Balanus</i> spp.			0.2								-	-	-	-														
<i>Leptasterias</i> spp.			-								-	0.4	-	-														
<i>Lottia digitalis</i>			0.2								0.2	-	-	0.2														
<i>Lottia limatula</i>			-								2.2	1.6	1.4	0.8														
<i>Lottia pelta</i>			0.4								1.4	-	0.2	0.4														
<i>Macclintockia scabra</i>			3.0								34.4	22.8	20.2	13.6														
<i>Mopalia</i> spp.			0.2								0.6	-	0.2	0.4														
<i>Nucella emarginata</i>			-								-	0.2	-	0.8														
<i>Ocenebra</i> spp.			-								2.6	3.0	2.0	1.6														
<i>Pachygrapsus crassipes</i>			-								-	-	-	1.8														
<i>Pagurus</i> spp.			5.0								8.2	2.8	8.2	6.2														
<i>Tectura scutum</i>			-								-	0.4	-	0.2														
<i>Tegula funebris</i>			153.2								228.8	251.0	193.6	211.6														
Only Counted if Greater than 1"																												
<i>Acmaeidae</i> unid.			-								+	+	+	+														
<i>Crepidula</i> spp.			-								+	+	-	+														
<i>Cyanoplax</i> spp.			-								0.2	0.4	-	0.6														
<i>Grapsidae</i> (juv.)			-								+	-	-	-														
<i>Ischnochitonidae</i>			-								-	-	-	+														
<i>Littorina</i> spp.			-								+	+	+	+														
<i>Lottia asmi</i>			-								+	+	+	+														
<i>Mytilus californianus</i>			-								-	0.2	-	-														
<i>Nuttallina californica</i>			0.2								-	3.4	1.4	2.4														
<i>Pugettia</i> spp.			-								-	-	0.2	-														
% Coverage																												
<i>Chthamalus fissus</i>			+								0.3	+	+	+														
<i>Phragmatopoma californica</i>			-								0.1	0.6	0.4	0.4														
<i>Spirorbidae</i>			-								+	+	+	+														

ns = not sampled, < 1 = measured but in low abundance; + = only recorded as present

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) South Control Station SC 1 at +0.3m (Based on 5 "Tegula" Count Quadrats)
(continued)

Taxon	Year # Surveys/Year	1976 4	1977 6	1978 6	1979 6	1980 6	1981 6	1982 6	1983 4	1984 6	1985 6	1986 6	1987 6	1988 4	1989 4	1990 4	1991 4	1992 4	1993 4	1994 4	1995 3	1996 2	1997 2	1998 2	1999 4	2000 4	2001 4	2002 2
% Coverage																												
<i>Stenoplax</i> spp		-	-	-	-	-	-	-	-	<1	<1	-	-	-	-	-	-	<1	-	<1	-	-	-	-	-	-	<1	-
<i>Tethya aurantia</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Tonicella lineata</i>		-	-	02	05	03	01	<1	+	01	<1	-	<1	-	-	02	<1	-	+	-	02	-	01	-	+	02	-	01
<i>Transennella</i> spp		-	-	-	+	+	+	+	+	+	+	+	+	+	+	-	-	+	+	-	+	-	-	-	+	-	+	-
<i>Tricolia</i> spp		-	-	-	+	+	+	+	+	+	+	+	+	+	+	-	-	+	+	-	+	-	-	-	+	-	+	-
snail, unid.		-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
% Coverage																												
Bryozoa, unid. (encrusting)		-	-	<1	+	+	<1	<1	+	+	+	<1	<1	<1	<1	+	+	+	01	+	+	+	+	+	<1	+	+	+
Bryozoa, unid. (erect)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bryozoa, unid. (foliose)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Chthamalus fissus</i>		+	+	<1	+	+	+	+	+	+	03	06	01	<1	+	+	+	+	+	<1	+	+	+	+	+	+	+	+
<i>Dendropoma</i> spp		-	-	-	+	+	-	+	-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Eurystomella bilabiata</i>		-	-	-	+	+	-	+	-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Haliciona</i> spp		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Leucosolenia</i> spp		-	-	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Phragmatopoma californica</i>		<1	20	53	34	27	09	10	03	02	07	13	22	28	54	50	20	15	06	03	03	03	15	07	14	18	15	07
<i>Pista</i> spp		-	13	-	01	<1	+	+	-	<1	+	+	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<1
Porifera unid. (encrusting)		<1	-	+	<1	+	+	+	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Salmacina tribranchiata</i>		-	<1	+	+	+	+	+	01	01	01	03	02	02	01	01	04	03	04	04	04	04	05	03	<1	<1	<1	+
Spirorbidae		-	<1	+	+	+	+	+	01	01	01	03	02	02	01	01	04	03	04	04	04	04	05	03	<1	<1	<1	+
tunicates, colonial/social unid.		-	<1	<1	03	01	02	05	<1	<1	+	<1	03	02	01	01	01	01	02	<1	+	+	+	+	<1	02	+	+

ns = not sampled, <1 = measured but in low abundance; + = only recorded as present

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) South Control Station SC 1 at +0.9m (Based on 5 "Tegula" Count Quadrats)

Taxon	Year # Surveys/Year	1976 4	1977 4	1978 6	1979 6	1980 6	1981 6	1982 6	1983 6	1984 6	1985 6	1986 6	1987 6	1988 4	1989 4	1990 4	1991 4	1992 4	1993 4	1994 4	1995 3	1996 2	1997 2	1998 2	1999 4	2000 4	2001 4	2002 2
Counted Regardless of Size																												
<i>Acanthina</i> spp.	-	02	03	<1	02	02	02	<1	<1	<1	03	02	03	02	01	-	-	02	<1	01	-	09	01	03	01	04	05	
<i>Anthopleura elegantissima</i>	416	480	545	373	305	324	266	92	62	51	56	46	36	44	45	36	40	30	35	25	36	44	25	44	45	41	58	
<i>Anthopleura xanthogramma</i>	08	04	02	03	03	05	04	04	05	04	03	<1	02	02	02	02	01	04	02	-	01	-	03	02	05	03	02	
<i>Balanus</i> spp.	196	03	03	04	05	02	04	05	-	10	01	03	+	03	01	03	-	-	-	-	-	-	-	-	-	-	-	
<i>Calliostoma canaliculatum</i>	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Calliostoma ligatum</i>	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Epiacis prolifera</i>	-	<1	<1	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	04	-	-	-	<1	-	-	-	
<i>Fissurella volcano</i>	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	-	-	-	-	-	<1	-	04	-	-	-	-	-	-	
<i>Fusinus luteopictus</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	04	-	-	-	-	<1	<1	
<i>Haliois</i> spp.	39	66	51	44	39	49	29	09	04	05	02	<1	<1	02	-	02	<1	02	-	<1	-	05	-	-	-	-	02	
<i>Hemigrapsus nudus</i>	05	02	04	07	04	<1	02	02	04	02	<1	02	01	<1	02	02	05	04	02	09	05	04	01	03	01	01	05	
<i>Leptasterias</i> spp.	01	05	02	05	04	04	05	<1	-	<1	01	-	-	02	02	02	04	03	<1	02	-	01	-	-	03	03	02	
<i>Littia digitalis</i>	-	105	12	50	18	08	09	02	01	09	-	01	-	-	03	-	01	<1	-	-	-	03	15	-	02	01	-	
<i>Littia limatula</i>	12	21	19	31	20	52	46	13	15	25	37	45	55	47	50	83	39	36	38	39	54	67	28	73	42	48	59	
<i>Littia pelta</i>	11	14	26	26	19	25	07	03	11	11	07	07	17	03	11	06	15	10	13	23	26	15	11	64	52	39	78	
<i>Macclintockia scabra</i>	279	951	664	794	761	1003	879	441	1092	1894	1256	997	1002	737	552	398	176	238	120	64	179	450	227	522	439	252	151	
<i>Mopalia</i> spp.	-	04	02	<1	-	<1	-	<1	-	-	<1	-	-	-	-	-	-	<1	-	-	-	01	-	-	01	-	02	
<i>Nucella emarginata</i>	<1	-	<1	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	03	
<i>Ocenebra</i> spp.	-	<1	06	06	04	03	01	02	<1	03	06	08	10	03	07	08	08	06	10	02	04	11	17	04	08	07	05	
<i>Pachygrapsus crassipes</i>	02	<1	06	05	03	05	02	04	03	01	02	04	02	05	04	09	08	10	07	05	02	09	07	06	03	07	07	
<i>Pagurus</i> spp.	49	55	77	91	122	85	133	53	81	71	54	74	87	68	125	102	142	111	110	133	56	116	75	101	164	93	252	
<i>Pisaster ochraceus</i>	-	<1	<1	01	03	02	02	<1	02	<1	<1	03	02	02	03	01	02	02	02	03	-	-	<1	01	01	01	-	
<i>Pseudomelasma torosa</i>	-	-	-	-	-	-	-	-	-	<1	<1	-	-	-	<1	-	-	-	-	-	01	-	-	-	-	-	-	
<i>Strongylocentrotus purpuratus</i>	-	-	<1	<1	-	02	-	-	-	-	<1	-	-	01	04	02	02	03	03	01	01	01	-	02	-	01	01	
<i>Tectura persona</i>	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Tectura scutum</i>	06	31	36	50	34	51	92	13	48	62	59	74	38	52	48	45	29	32	26	71	78	81	12	64	80	73	44	
<i>Tegula brunnea</i>	-	-	-	-	-	-	-	<1	-	<1	<1	<1	-	-	<1	-	-	-	-	-	-	-	-	+	-	04	05	
<i>Tegula funebris</i>	696	1410	984	1869	1845	1846	1425	1428	1630	1622	2642	2939	2761	2500	2344	2484	1421	1005	908	1232	1276	783	2075	1362	1307	1203	1543	
<i>Tegula pulligo</i>	-	-	-	<1	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Tetraclita rubescens</i>	02	45	11	03	34	65	50	35.3	10	10	07	04	09	1.1	29	1.2	86	118	216	17	82	22	06	-	1.7	03	-	
Only Counted if Greater than 1"																												
<i>Acmaea mitra</i>	-	-	-	-	-	-	-	-	-	+	+	-	-	-	-	-	-	-	-	+	-	-	+	-	-	-	-	
<i>Acmaeidae</i> unid.	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Alia</i> spp.	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Asterina miniata</i>	-	-	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Barlecia</i> spp.	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	
<i>Bittium</i> spp.	-	-	-	-	-	-	-	-	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Cancer</i> spp.	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Crepidula</i> spp.	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Cyanoplax</i> spp.	-	01	<1	05	07	02	03	-	<1	+	02	05	02	+	01	01	02	+	01	01	-	04	01	<1	+	02	-	
<i>Diadula sandiegensis</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Diopatra ornata</i>	-	-	-	<1	<1	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Discaria insessa</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Grapsidae</i> (juv.)	-	<1	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Homolo luridum/Lirularia succinea</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Idotea</i> spp.	<1	-	+	03	01	02	-	-	-	-	-	-	01	+	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	
<i>Ischnochitonidae</i>	02	-	02	01	+	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	01	-	+	+	+	+	
<i>Lacuna</i> spp.	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Lepidozoma</i> spp.	-	-	+	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	+	+	+	
<i>Lithopoma gibberosum</i>	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Littorina</i> spp.	-	+	03	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Littia asmi</i>	-	-	+	+	+	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Littia instabilis</i>	-	-	-	-	-	-	-	-	-	-	-	-	<1	+	-	+	-	-	-	-	-	-	-	-	-	-	-	
<i>Littia ochracea</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Majidae</i>	-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<i>Mytilidae</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	

ns = not sampled, < 1 = measured but in low abundance, + = only recorded as present

(continued)

Horizontal Band Transects - Yearly Invertebrate Mean Abundance (per 1m squared) South Control Station SC 1 at +0.9m (Based on 5 "Tegula" Count Quadrats)
(continued)

Taxon	Year	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
	# Surveys/Year	4	4	6	6	6	6	6	6	6	6	6	6	4	4	4	4	4	4	4	3	2	2	2	4	4	4	2
Only Counted If Grater than 1cm																												
<i>Mytilus californianus</i>		-	0.2	0.1	-	+	+	-	-	+	+	0.1	0.1	0.3	+	0.3	<1	-	-	-	-	-	-	-	-	-	-	+
<i>Mytilus galloprovincialis</i>		-	-	<1	0.2	0.1	0.2	0.4	<1	-	0.2	<1	0.1	0.1	0.3	0.1	0.4	<1	-	0.2	0.1	0.1	0.1	-	-	-	-	0.1
Nemertea und.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nereididae und.		-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Mitridiscia Opella</i> spp.		-	0.1	0.2	<1	-	<1	<1	<1	-	<1	0.1	<1	-	-	<1	-	-	<1	-	-	-	-	0.3	<1	<1	-	0.1
<i>Muralina californica</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ocenebridae spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pelecypoda und. boring		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Petrolia</i> spp.		-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Plaster/Hemera</i> (juv.)		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Platyhelminthes und.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Pollicipes polymerus</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychaeta und.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Pugeria</i> spp.		-	-	-	<1	-	-	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Serpulidae und.		-	-	-	+	-	-	+	0.1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Serpulorhis squamigerus</i>		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sipuncula und.		-	-	-	+	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Tricolia</i> spp.		-	-	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Velutina velutina</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
% COVERAGES																												
Bryozoa, und. (encrusting)		-	0.6	0.7	0.5	0.5	0.7	1.5	0.9	0.1	0.3	0.7	1.9	1.0	1.3	1.0	0.8	0.8	3.8	2.0	1.0	0.6	1.0	4.5	1.2	0.5	0.5	2.5
<i>Chamaelea</i> spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Halimeda</i> spp.		-	0.1	1.3	0.6	0.5	0.6	0.5	0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.8
<i>Phragmatopoma californica</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Pista</i> spp.		-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Porifera und. (encrusting)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spongiidae		-	-	-	<1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
tunicates, colonial/social und.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ns = not sampled, <1 = measured but in low abundance; + = only recorded as present

Vertical Band Transects - Fish Yearly Mean Abundance (# fish per station) North Control NC 1-V

Taxon	Year # Surveys/Year	1976 ns	1977 ns	1978 ns	1979 ns	1980 ns	1981 ns	1982 ns	1983 ns	1984 ns	1985 ns	1986 ns	1987 ns	1988 ns	1989 ns	1990 ns	1991 ns	1992 ns	1993 ns	1994 ns	1995 ns	1996 ns	1997 ns	1998 ns	1999 3	2000 4	2001 4	2002 2
<i>Anoplarchus purpureus</i>																									23	18	35	25
<i>Apodichthys flavida</i>																									-	-	03	-
<i>Artedius</i> spp																									03	-	03	-
<i>Cebidichthys violaceus</i>																									17	-	03	10
Cottidae (juv.)																									03	-	-	-
Cottidae unid																									-	05	-	15
<i>Gibbonsia</i> spp																									-	-	10	-
<i>Gobiesox maeandricus</i>																									100	120	75	85
<i>Oligocottus snyderi</i>																									03	15	05	05
<i>Oligocottus</i> spp.																									-	03	-	-
Pholididae/Stichneidae unid.																									493	100	85	60
<i>Typhlogobius californiensis</i>																									-	-	-	05
<i>Xerperes fucorum</i>																									03	20	10	15
<i>Xiphister atropurpureus</i>																									30	120	80	115
<i>Xiphister mucosus</i>																									133	183	73	100
<i>Xiphister</i> spp.																									-	15	-	-

Vertical Band Transects - Fish Yearly Mean Abundance (# fish per station) Fields Cove FC 1-V

Taxon	Year # Surveys/Year	1976 ns	1977 ns	1978 ns	1979 3	1980 4	1981 2	1982 ns	1983 ns	1984 ns	1985 1	1986 4	1987 5	1988 2	1989 3	1990 4	1991 4	1992 4	1993 3	1994 4	1995 4	1996 4	1997 3	1998 4	1999 4	2000 4	2001 4	2002 2
<i>Anoplarchus purpuraceus</i>																		40	23	33	63	43	33	05	58	18	08	25
<i>Anoplarchus/Cebidichthys</i> spp					40.3	26.5	27.0				31.0	23.8	43.2	31.5	1.3	3.0	6.8	-	-	05	03	05	-	-	-	-	-	-
<i>Artedius corallinus</i>												03																
<i>Artedius lateralis</i>							05																					
<i>Artedius</i> spp.																	03								03			05
<i>Cebidichthys violaceus</i>							10						02		50	35	63	28	87	30	23	28	20	35	60	08	50	20
<i>Clinocottus recalcitrans</i>					07																							
<i>Cottidae</i> (juv.)						08											15	18	07	18	05	15	03		15			
<i>Cottidae</i> unid.																										43	13	30
<i>Gibbonsia metzi</i>																03												
<i>Gibbonsia</i> spp						03	05										03	05		03	13	08		05	10		03	
<i>Goblesox maeandricus</i>					87	43	130				50	35	64	25	10	10	43	35	10	20	33	35	17	03	45	40	38	15
<i>Heterostichus rostratus</i>																									03			
<i>Oligocottus snyderi</i>					83	70	90				100	63	160	140	40	40	13	25	50	55	40	70	43	35	65	13	30	75
<i>Oligocottus</i> spp					03													03		08		08			05			
<i>Pholididae/Stichaeidae</i> unid.																	13	38	43	48	50	80	53	13	23	40	38	40
<i>Porichthys notatus</i>						03																						
<i>Typhlogobius californiensis</i>													02											05				
<i>Xerorpes fucorum</i>					97	23						10	04				08	03		05	10	03		03	03			
<i>Xiphister atropurpureus</i>					47	40	60				30	10	46	40	13	05	48	30	03				03			05	08	25
<i>Xiphister mucosus</i>					420	130	285				160	378	320	150	107	105	263	63	113	115	168	215	137	28	198	83	60	35
<i>Xiphister</i> spp																												05
<i>Xiphister</i> spp (juv.)													34	15		05	28	08										

Vertical Band Transects - Fish Yearly Mean Abundance (# fish per station) North Diablo Cove NDC 1-V

[illegible]

Vertical Band Transects - Fish Yearly Mean Abundance (# fish per station) South Diablo Cove SDC 2-V

Taxon	Year # Surveys/Year	1976 ns	1977 ns	1978 ns	1979 4	1980 6	1981 4	1982 5	1983 2	1984 ns	1985 1	1986 4	1987 5	1988 2	1989 3	1990 4	1991 4	1992 4	1993 4	1994 4	1995 2	1996 1	1997 1	1998 1	1999 4	2000 4	2001 4	2002 2
<i>Anoploarchus purpurascens</i>					-	-											03	70	50	10	-	10	-	20	15	18	28	
<i>Anoploarchus/Cebidichthys</i> spp					80	78	70	64	25		17.0	16.5	15.0	10.0	13	10	30	-	18	-	-	-	-	03	-	03	-	-
<i>Apodichthys flavidus</i>																	03	-	-	-	-	-	-	-	-	-	-	-
<i>Artedius lateralis</i>					03	03	-	-									08	-	-	-	-	-	-	-	-	-	-	-
<i>Artedius</i> spp					-															08	-	-	-	-	-	-	-	-
<i>Cebidichthys violaceus</i>					-	05	28	22							20	20	23	18	30	33	50	150	20	20	28	40	95	75
<i>Chilara taylori</i>																03												
Cottidae (juv.)					-												08	05	-	05	-	-	-	-	03	-	-	-
Cottidae unid.					-																				03	-	-	-
<i>Gibbonsia</i> spp					-	08	03	18											08		03	-	-	-	03	-	03	05
<i>Girella nigricans</i>					-															03	-	-	-	-	-	-	-	-
<i>Gobiosoma maeandricus</i>					118	63	43	110	10		30	05	02	10	03	-	03	05	03	03	-	10	30	20	-	-	03	-
<i>Micrometrus aurora</i>					-																03	-	-	-	-	-	-	-
<i>Micrometrus minimus</i>					-														08	-	-	-	-	-	-	-	-	-
<i>Oligocottus snyderi</i>					28	37	28	12	20			05	04	-	20	08	10	08	20	10	05	-	20	-	03	-	-	-
<i>Oligocottus</i> spp					-			02																				-
Pholididae/Suchaenidae unid.					-																							-
<i>Scyrtalina cerdale</i>					273	105	103	146	10		170	18	48	-	17	08	30	33	05	08	05	150	40	20	15	23	28	10
<i>Sebastes</i> spp					05	-	-	-																-	-	15	55	35
<i>Typhlogobius californiensis</i>					03	-	03	-																-	-	-	-	-
<i>Xerotes fucorum</i>					38	20	45	44	65			13	-	-	03	-	10	03	-	03	-	10	-	-	-	-	-	-
<i>Xiphister atropurpureus</i>					215	203	148	188	135		50	38	36	50	40	08	38	8.5	15	05	30	20	-	-	03	13	18	15
<i>Xiphister mucosus</i>					365	202	258	152	140		90	65	52	10	37	88	215	93	83	148	20	60	80	20	10	30	40	-
<i>Xiphister</i> spp (juv.)					08	-	-	-				04	25	-	-	13	08	-	-	-	-	-	-	-	-	-	-	-
fish eggs					03	-	-	-				-	-	-	-	-	-	-	-	-	-	-	-	-	310	-	-	-

Vertical Band Transects - Fish Yearly Mean Abundance (# fish per station) South Control SC 1-V

Taxon	Year # Surveys/Year	1976 ns	1977 ns	1978 ns	1979 ns	1980 ns	1981 ns	1982 ns	1983 ns	1984 ns	1985 ns	1986 ns	1987 ns	1988 ns	1989 ns	1990 ns	1991 ns	1992 ns	1993 ns	1994 ns	1995 ns	1996 ns	1997 ns	1998 ns	1999 3	2000 4	2001 4	2002 2
<i>Anoplarchus purpurascens</i>																									38.0	38.5	30.0	19.5
<i>Anoplarchus/Cebidichthys</i> spp.																									2.0	1.3	-	1.0
<i>Apodichthys flavidus</i>																									-	-	-	0.5
<i>Artedius corallines</i>																									0.3	-	-	-
<i>Artedius</i> spp.																									-	0.3	-	-
<i>Cebidichthys violaceus</i>																									25.3	27.3	24.5	32.5
Cottidae unid.																									-	2.8	0.5	2.5
<i>Gibbonsia</i> spp.																									-	0.3	1.0	0.5
<i>Gobiesox maeandricus</i>																									7.7	13.5	14.3	18.0
<i>Oligocottus snydert</i>																									1.3	2.5	-	0.5
<i>Oligocottus</i> spp.																									-	0.3	-	-
Pholididae/Stichaeidae unid.																									9.7	27.5	23.0	15.0
<i>Porichthys notatus</i>																									0.7	0.3	-	-
<i>Typhlogobius californiensis</i>																									-	0.5	0.3	-
<i>Xerperes fucorum</i>																									0.3	0.5	1.3	-
<i>Xiphister atropurpureus</i>																									1.7	12.3	4.5	13.0
<i>Xiphister mucosus</i>																									9.0	14.8	15.3	17.0
<i>Xiphister</i> spp. (juv.)																									1.3	-	-	-