

TABLE 2. Summary of the Results of the Photographic Quadrat Survey for Stations BP-1 Through BP-4, Barbers Point Ocean Outfall, 'Ewa Beach, O'ahu, Hawai'i, 1996

		Percent Cover				
		Photographic Quadrat				
		AAA3	ACC1	AAB3	ACC2	AAC3
		(0 m)	(5 m)	(10 m)	(15 m)	(20 m)

Algae						
<i>Porolithon onkodes</i>		2.9				0.6
Sponges						
<i>Chondrosia chucalla</i>			0.3	0.6		2.0
Soft Corals						
<i>Anthelia edmondsoni</i>						0.3
Corals						
<i>Porites lobata</i>	60.0	52.3				22.4
<i>Porites compressa</i>	0.5	1.1				
<i>Pocillopora meandrina</i>				0.3		
Sand			8.7	3.4		28.7
Rubble			20.1			
Hard Substratum	39.5	43.7	70.9	95.7		46.0
Mean Coral Coverage = 27.3%						

		Percent Cover				
		Photographic Quadrat				
		ABA3	ACA1	ABB3	ACA2	ABC3
		(0 m)	(5 m)	(10 m)	(15 m)	(20 m)

Algae						
<i>Porolithon onkodes</i>	19.0	0.8		0.8		1.1
Sponges						
<i>Spirastrella coccinea</i>	0.3					
<i>Chondrosia chucalla</i>	0.3	0.3	0.8	0.1		
Corals						
<i>Porites lobata</i>	36.1	7.6	8.4	16.5		57.7
<i>Porites compressa</i>	2.8	4.2	0.6	1.1		2.2
<i>Pocillopora meandrina</i>	0.3	0.6				1.1
<i>Montipora patula</i>		0.3				

Sand			4.7	0.6	
Rubble		9.0	8.1	14.3	
Hard Substratum	55.2	77.2	77.4	66.6	37.9
Mean Coral Coverage = 27.9%					

TABLE 2—Continued

		Percent Cover				
		Photographic Quadrat				
		BAA3	BCC1	BAB3	BCC2	BAC3
		(0 m)	(5 m)	(10 m)	(15 m)	(20 m)

Algae						
<i>Asparagopsis taxiformis</i>			0.3			
Sponges						
<i>Spirastrella coccinea</i>			0.4	0.6		
<i>Chondrosia chucalla</i>	0.3			0.8	0.1	
<i>Plakortis simplex</i>				0.3		
Corals						
<i>Porites lobata</i>	0.4			1.7	0.6	
<i>Pocillopora meandrina</i>			0.1		0.1	
Sand	1.4	14.8	22.4	1.7	12.9	
Hard Substratum	97.9	85.2	76.8	95.0	86.3	
Mean Coral Coverage = 0.6%						

		Percent Cover				
		Photographic Quadrat				
		BBA3	BCA1	BBB3	BCA2	BBC3
		(0 m)	(5 m)	(10 m)	(15 m)	(20 m)

Sponges						
<i>Spirastrella coccinea</i>	0.1	0.3				
<i>Chondrosia chucalla</i>	0.1	0.3		0.8	0.3	
Unidentified orange sponge	0.1				0.1	
Corals						
<i>Porites lobata</i>	0.4	3.4	0.3		0.3	
<i>Pocillopora meandrina</i>	0.3	0.6	0.3			
Sand	36.7	1.7	7.0	1.7	1.7	
Hard Substratum	62.2	93.8	92.4	98.3	97.6	
Mean Coral Coverage = 1.1%						

TABLE 2—Continued

		Percent Cover				
		Photographic Quadrat				
		CAA3	CCC1	CAB3	CCC2	CAC3
		(0 m)	(5 m)	(10 m)	(15 m)	(20 m)

Algae						
<i>Porolithon onkodes</i>		1.4				
Sponges						
<i>Spirastrella coccinea</i>		0.3		0.3		
<i>Chondrosia chucalla</i>	0.1			8.4	0.1	
Corals						
<i>Porites lobata</i>		0.1		2.2		
<i>Porites compressa</i>				0.3		
<i>Pocillopora meandrina</i>				2.0		
Sand	1.1		0.8			3.4
Rubble	68.2	46.5	99.2	51.5	62.3	
Hard Substratum	30.5	51.7		35.3	34.2	
Mean Coral Coverage = 0.9%						

		Percent Cover				
		Photographic Quadrat				
		CBA3	CCA1	CBB3	CCA2	CBC3
		(0 m)	(5 m)	(10 m)	(15 m)	(20 m)

Algae						
<i>Porolithon onkodes</i>	0.6	1.7		0.6		
Sponges						
<i>Spirastrella coccinea</i>	0.6	1.4		3.4	0.6	
<i>Chondrosia chucalla</i>		0.6				
Corals						
<i>Porites lobata</i>	1.1	2.0		16.5	0.3	
<i>Porites compressa</i>				3.1		
<i>Pocillopora meandrina</i>				0.6	0.1	
<i>Montipora patula</i>				0.3		
Sand						0.8
Rubble	25.8	47.6	0.8	13.4	56.4	

Hard Substratum	61.9	46.8	99.2	62.2	41.7
Mean Coral Coverage = 4.8%					

TABLE 2—Continued

		Percent Cover				
		Photographic Quadrat				
		EAA1	EAA2	EAA3	EAA4	EBA1
		(0 m)	(5 m)	(10 m)	(15 m)	(20 m)

Algae						
<i>Porolithon onkodes</i>				2.0		2.2
Sponges						
<i>Spirastrella coccinea</i>	1.4			0.8	0.1	0.6
Corals						
<i>Porites lobata</i>	4.8	20.7	19.3	24.6	17.9	
Rubble	33.3	5.3	11.8			6.4
Hard Substratum	60.5	74.0	66.1	75.3	72.9	
Mean Coral Coverage = 17.5%						

		Percent Cover				
		Photographic Quadrat				
		ECA1	ECA2	ECA3	EAC4	EEA1
		(0 m)	(5 m)	(10 m)	(15 m)	(20 m)

Sponges						
<i>Spirastrella coccinea</i>						0.1
<i>Chondrosia chucalla</i>		0.1		0.8	1.1	
<i>Plakortis simplex</i>			0.3			
Soft Corals						
<i>Anthelia edmondsoni</i>				0.3		
Corals						
<i>Porites lobata</i>	0.6		2.0	2.8	0.6	
<i>Pocillopora meandrina</i>	14.0		2.8		0.3	
Sand	0.8	3.4	0.8	0.8	0.8	
Hard Substratum	84.6	96.8	94.1	95.2	97.0	
Mean Coral Coverage = 4.6%						

NOTE: Presented in the body of the table are the percent cover of species and substrate types for each transect. Data for all stations are based on one 0.67-m² photo-quadrat at each 5-m stop (i.e., at the 0 m, 5 m, 10 m, 15 m, and 20 m points along

the transect).