

Appendix 1. All fish species observed in this study. For each species, fewer than 25% of the individuals occurred in less than the “common shallow” depth and fewer than 25% of the individuals occurred deeper than the “common deep” depth. Habitats were sorted in descending order of importance. Those habitats that are bolded equal 50% or more of the total individuals observed. Habitat categories (H= high relief rock, L = low relief rock, and S = soft) are defined in Methods. The names of “characteristic” species, defined as having been observed in 5% or more of all transects, are bolded. Depths and habitats of unidentified species groups are not characterized. We observed a total of 717,526 fishes, of 137 species and 47 families, in 14,373 habitat patches.

		Number		Length (cm)		Depth (rounded to nearest 5m)			Habitats in descending order of number of fish (most common in bold)									
Common Name	Scientific Name	Fish	Patches	Min	Max	Min	Common Occurrence											
							Shallow	Deep	Max									
Squarespot rockfish	<i>Sebastes hopkinsi</i>	165,681	3472	1	30	30	55	115	195	HH	HL	LH	HS	LL	SH	LS	SL	SS
Unidentified rockfishes	<i>Sebastes</i> spp.	109,789																
Halfbanded rockfish	<i>Sebastes semicinctus</i>	99,815	3723	5	25	25	60	135	285	SH	LL	SL	LS	SS	HS	LH	HL	HH
Shortbelly rockfish	<i>Sebastes jordani</i>	81,315	374	5	30	45	165	270	315	LL	LH	LS	HL	SL	SS	HH	HS	SH
Pygmy rockfish	<i>Sebastes wilsoni</i>	70,232	2074	5	25	40	90	140	200	LH	HL	LL	HH	LS	HS	SH	SL	SS
Unidentified <i>Sebastomus</i>		23,319																
Swordspine rockfish	<i>Sebastes ensifer</i>	23,272	2656	5	30	45	125	200	270	LL	LH	LS	HL	HH	SL	HS	SH	SS
Unknown YOY rockfishes	<i>Sebastes</i> spp.	20,330																
Blackeye goby*	<i>Rhinogobiops nicholsii</i>	17,731	3657	5	20	20	30	80	195	SH	HS	SS	HH	SL	HL	LS	LH	LL
Widow rockfish*	<i>Sebastes entomelas</i>	13,514	484	5	60	45	80	125	225	HH	HL	LH	HS	LL	LS	SL	SH	SS
Blacksmith	<i>Chromis punctipinnis</i>	7528	335	5	30	20	20	40	70	HH	HS	HL	SH	LL	LH	SS	LS	SL
Pink seaperch	<i>Zalembeus rosaceus</i>	5997	764	5	20	40	60	105	270	SS	SH	HS	HH	SL	HL	LS	LH	LL
Shortspine combfish	<i>Zaniolepis frenata</i>	5920	2122	5	25	50	130	215	305	SL	SS	LL	LS	LH	HL	SH	HS	HH
Blue rockfish*	<i>Sebastes mystinus</i>	5122	526	5	50	30	35	55	95	HH	HS	SH	HL	SS	LS	LH	LL	SL
Pinkrose rockfish	<i>Sebastes simulator</i>	5064	1351	5	35	75	205	290	360	LL	LS	HL	LH	HH	HS	SL	SH	SS
Rosy rockfish	<i>Sebastes rosaceus</i>	4810	1714	5	30	35	50	90	220	HH	HS	HL	LH	SH	LS	LL	SL	SS
Unidentified flatfishes		3985																
Senorita	<i>Oxyjulis californica</i>	3924	239	5	25	20	20	50	95	HH	HS	HL	SH	LH	LL	SS	SL	LS
Bank rockfish*	<i>Sebastes rufus</i>	3824	1005	5	60	85	195	275	350	HH	HL	LH	HS	LL	LS	SH	SL	SS

Unidentified fishes		3525																
Bocaccio*	<i>Sebastes paucispinis</i>	3247	996	5	80	35	95	225	315	HH	HL	LH	HS	LL	LS	SH	SL	SS
Dwarf-red rockfish	<i>Sebastes rufianus</i>	3153	205	5	20	55	85	115	190	HH	HL	LH	HS	SH	SL	LS	SS	LL
Greenspotted rockfish*	<i>Sebastes chlorostictus</i>	2673	1367	5	50	50	100	165	285	LL	LH	LS	SL	HL	HS	SH	HH	SS
Unidentified combfishes	<i>Zaniolepis</i> spp.	2603																
Vermilion rockfish*	<i>Sebastes miniatus</i>	2573	857	5	75	30	40	105	230	HH	HL	HS	LH	LL	LS	SH	SL	SS
Speckled rockfish*	<i>Sebastes ovalis</i>	2029	478	10	60	55	90	140	210	HH	HL	LH	HS	LL	LS	SH	SL	SS
Starry rockfish*	<i>Sebastes constellatus</i>	1898	1122	5	50	35	75	135	260	HH	HL	LH	LL	HS	SH	LS	SL	SS
Unidentified poachers	Family Agonidae	1684																
Whitespotted rockfish	<i>Sebastes moseri</i>	1597	148	5	30	50	95	135	220	HH	LH	HL	HS	SH	LL	LS	SL	SS
Lingcod*	<i>Ophiodon elongatus</i>	1547	1011	15	120	25	75	175	300	HH	HL	LL	LH	HS	LS	SL	SH	SS
Greenstriped rockfish	<i>Sebastes elongatus</i>	1321	854	5	40	60	130	205	290	SL	SS	LS	LH	LL	HS	SH	HL	HH
Unidentified sanddabs	<i>Citharichthys</i> spp.	1160																
Splitnose rockfish	<i>Sebastes diploproa</i>	1078	250	5	35	110	315	345	360	SL	LS	SS	LH	LL	HS	SH	HL	HH
Spotted ratfish	<i>Hydrolagus colliei</i>	1025	500	5	60	75	115	160	360	LL	LH	HL	LS	HH	SL	HS	SS	SH
Flag rockfish*	<i>Sebastes rubrivinctus</i>	838	584	5	45	40	80	115	220	LL	HL	LH	HH	HS	SH	LS	SL	SS
Deepwater kelpfish	<i>Cryptotrema corallinum</i>	817	432	5	20	35	55	95	195	SS	SH	SL	LS	HS	LH	LL	HH	HL
Stripetail rockfish	<i>Sebastes saxicola</i>	681	222	5	25	95	180	270	340	SL	SS	LS	LL	SH	HS	LH	HL	
Yellowtail rockfish*	<i>Sebastes flavidus</i>	669	219	15	60	35	75	110	130	HH	HL	HS	LH	SH	SS	LS	SL	LL
Olive rockfish*	<i>Sebastes serranoides</i>	656	390	10	50	30	30	55	115	HH	HS	SH	SS	HL	SL	LH	LL	LS
Longspine combfish	<i>Zaniolepis latipinnis</i>	617	279	5	30	55	115	205	265	SS	SL	SH	LS	HS	LL	LH	HH	HL
California sheephead*	<i>Semicossyphus pulcher</i>	513	295	10	60	25	35	55	95	HH	HL	HS	LH	LS	SH	SL	LL	SS
Painted greenling	<i>Oxylebius pictus</i>	508	387	5	25	20	25	50	105	HH	HS	SH	HL	SS	LS	LL	LH	SL
White seaperch	<i>Phanerodon furcatus</i>	479	142	5	25	25	35	50	80	HH	SS	HS	SH	HL	SL	LH	LS	LL
Greenblotched rockfish*	<i>Sebastes rosenblatti</i>	471	370	5	60	50	170	270	330	LL	HL	LS	LH	HS	SL	HH	SH	SS
Copper rockfish*	<i>Sebastes caurinus</i>	444	320	10	60	25	40	70	110	HH	HS	SH	HL	LH	SS	SL	LS	LL

Cowcod*	<i>Sebastes levis</i>	408	345	5	100	55	130	215	330	HL	HH	LL	LH	HS	LS	SL	SH	SS
Unidentified ronquils	Bathymasteridae	397																
Chilipepper*	<i>Sebastes goodei</i>	396	104	10	45	90	175	220	335	HH	LH	LL	HL	HS	LS	SL	SS	
Pile perch*	<i>Rhacochilus vacca</i>	371	104	5	40	25	30	55	90	HH	HS	SH	SS	HL	LL	LH	LS	SL
Dover sole*	<i>Microstomus pacificus</i>	365	137	5	45	60	200	300	340	SS	SL	HS	SH	LH	LL	LS	HL	
Sharpnose seaperch	<i>Phanerodon atripes</i>	354	55	5	30	40	40	80	120	HH	HS	SS	HL	SL	LH	SH	LS	LL
Unidentified seaperches	Embiotocidae	351																
Unidentified sculpins	Cottidae	341																
Unidentified eelpouts	Zoarcidae	305																
Unidentified cusk-eels		289																
Spotted scorpionfish*	<i>Scorpaena guttata</i>	281	66	15	40	40	40	85	140	HH	SH	HS	SS	LL	SL	HL	LS	LH
Honeycomb rockfish	<i>Sebastes umbrosus</i>	257	158	5	30	45	45	70	140	HH	LH	LS	HL	HS	SH	LL	SL	SS
Pacific hake*	<i>Merluccius productus</i>	230	60	5	40	150	275	330	340	SL	SS	LS	LL	LH	SH	HS	HL	
Unidentified pricklebacks	Stichaeidae	229																
Treefish*	<i>Sebastes serriceps</i>	201	142	5	30	30	40	50	100	HH	HL	HS	SH	LH	LS	SL	SS	
Rubberlip seaperch*	<i>Rhacochilus toxotes</i>	193	44	10	45	30	35	50	60	HH	HL	HS	LL	LS				
Bluebarred prickleback	<i>Plectobranchnus evides</i>	187	88	5	20	45	210	265	310	SL	SS	SH	LS	HL	HS	LH		
Darkblotched rockfish*	<i>Sebastes crameri</i>	186	83	5	35	75	180	250	315	SL	LS	LL	LH	SS	HS	HH	SH	HL
Gopher rockfish*	<i>Sebastes carnatus</i>	166	127	10	35	30	30	50	65	HH	HS	HL	SH	LL	LH			
Rainbow seaperch	<i>Hypsurus caryi</i>	164	64	5	35	35	35	45	275	HS	SH	HL	HH	SS	SL	LS		
Pacific argentine	<i>Argentina sialis</i>	155	52	10	25	105	175	220	290	SL	SS	LS	LL	LH	HL	HS	SH	
Pacific sanddab*	<i>Citharichthys sordidus</i>	148	77	5	30	45	65	140	210	SS	SL	LS	SH					
Calico rockfish	<i>Sebastes dalli</i>	145	51	5	25	35	45	70	110	SL	LL	HH	HS	SH	SS	LS	HL	LH
Canary rockfish*	<i>Sebastes pinniger</i>	135	66	20	60	60	100	120	130	HL	HH	LH	HS	SL	SH	LS	SS	LL
Spotfin sculpin	<i>Icelinus tenuis</i>	133	83	5	20	40	60	100	210	SS	SL	SH	LS	HL	HS			
Yelloweye rockfish*	<i>Sebastes ruberrimus</i>	121	33	10	80	50	95	155	170	HH	HL	LL	LH	LS	HS			

Bluebanded ronquil	<i>Rathbunella hypoplecta</i>	115	90	10	25	45	55	90	120	SS	SH	SL	LS	HS	HL	LH	HH	LL
Unidentified thornyheads*	<i>Sebastolobus</i> spp.	110																
Bearded eelpout	<i>Lyconema barbatum</i>	105	27	5	20	150	220	290	315	SS	SL	SH	LS	HS				
Rosethorn rockfish	<i>Sebastes helvomaculatus</i>	99	48	10	30	95	195	295	305	LL	HS	SL	SH	LS	HL	LH	HH	SS
Jack mackerel*	<i>Trachurus symmetricus</i>	94	5	10	60	25	25	175	205	LL	HL	SH	SS	HS				
Unidentified <i>Icelinus</i>	<i>Icelinus</i> spp	92																
Freckled rockfish	<i>Sebastes lentiginosus</i>	86	48	10	25	50	75	85	190	LH	LL	SL	HL	HH	SH	LS	HS	SS
Threadfin sculpin	<i>Icelinus filamentosus</i>	75	47	5	25	60	160	265	315	SS	SL	LS	LL	HS	HL			
Sharpchin rockfish	<i>Sebastes zacentrus</i>	70	38	10	40	100	195	275	335	LS	SL	HH	HS	HL	SH	LH	SS	
Shortspine thornyhead*	<i>Sebastolobus alascanus</i>	68	49	10	40	210	295	350	360	SL	LS	SS	HL	LL	SH	LH	HS	HH
Pink rockfish*	<i>Sebastes eos</i>	67	62	15	55	90	220	300	330	LS	HL	HS	SH	LL	SL	HH	LH	SS
Slender sole	<i>Lyopsetta exilis</i>	65	22	10	25	65	170	295	335	SS	SL							
Blackgill rockfish*	<i>Sebastes melanostomus</i>	61	48	5	50	215	290	350	360	HH	SL	LS	LH	SS	HL	HS	LL	SH
Blackbelly eelpout	<i>Lycodes pacificus</i>	58	7	10	20	150	160	225	240	SS								
Brown rockfish*	<i>Sebastes auriculatus</i>	57	15	15	40	50	60	70	110	HH	HL	SH	SL	LH	HS			
English sole	<i>Parophrys vetulus</i>	56	34	10	30	70	155	205	315	SS	SL	LH	LS	HH				
Ocean whitefish*	<i>Caulolatilus princeps</i>	52	40	10	50	25	25	45	100	SS	SH	HH	HS	LL	LS	HL	LH	SL
California smoothtongue	<i>Leuroglossus stilbius</i>	48	24	5	25	70	260	290	335	LS	LL	SS	SL	LH	SH			
Bronzespotted rockfish*	<i>Sebastes gilli</i>	44	31	10	70	70	235	265	305	HS	HL	HH	LS	LH	SL	LL	SH	SS
Unidentified skates	Rajidae	44																
Threadfin bass	<i>Pronotogrammus multifasciatus</i>	43	20	10	25	80	80	95	110	HL	HH	HS	LH					
Pacific electric ray	<i>Torpedo californica</i>	39	37	20	120	45	135	215	280	SS	LL	SH	LS	SL	HL	HS	HH	LH
Aurora rockfish	<i>Sebastes aurora</i>	35	15	10	20	220	260	295	305	HS	SL	LS	SH	SS				
Longnose skate	<i>Raja rhina</i>	35	24	15	100	70	155	250	305	SS	LS	SL	HL	LL	LH	HH	HS	
Unidentified hagfishes	Myxinidae	35																
Bigfin eelpout	<i>Lycodes cortezianus</i>	27	14	10	25	145	210	295	335	SS	SL	LS						

Island kelpfish	<i>Alloclinus holderi</i>	27	22	5	25	45	50	65	80	LS	HH	HS	HL	SH	SL	LH	SS	
California lizardfish	<i>Synodus lucioceps</i>	23	16	10	25	40	60	225	225	SS	LS	SH						
Rex sole	<i>Glyptocephalus zachirus</i>	23	14	5	35	80	205	295	300	SS	SL	HL	HS					
Black perch	<i>Embiotoca jacksoni</i>	22	16	5	25	35	35	40	65	HS	HH	SH	SS					
Petrale sole*	<i>Eopsetta jordani</i>	21	15	10	30	90	135	240	265	SS	SL							
Big skate	<i>Raja binoculata</i>	19	16	10	60	95	165	210	270	SS	SL	HS						
Kelp rockfish*	<i>Sebastes atrovirens</i>	16	11	15	35	30	30	40	50	HH	HS	HL						
Black rockfish	<i>Sebastes melanops</i>	15	3	20	30	45	45	65	65	HL	HH							
Pacific hagfish	<i>Eptatretus stoutii</i>	14	14	15	40	100	350	360	360	LL	LS	HL	LH	HS				
Hornyhead turbot	<i>Pleuronichthys verticalis</i>	11	11	10	30	65	140	215	220	SS	SL	LS						
Kelp greenling*	<i>Hexagrammos decagrammus</i>	11	11	20	35	50	50	115	115	HH	HS	LH	SH	SS				
Wolf-eel	<i>Anarrhichthys ocellatus</i>	11	11	20	120	50	85	185	185	HH	LH	HS						
Plainfin midshipman	<i>Sebastes simulator</i>	10	10	10	25	90	160	180	285	LL	SL	SS						
Striped seaperch	<i>Embiotoca lateralis</i>	10	6	10	30	30	30	35	50	HH	SL	HS						
Saddled prickleback	<i>Lumpenopsis clitella</i>	10	3	5	5	105	105	105	125	SL	SS							
Blacktip poacher	<i>Xeneretmus latifrons</i>	9	3	15	20	265	265	315	315	SL	SS							
California skate	<i>Raja inornata</i>	9	9	15	45	45	150	285	285	SS	LS	HH						
Fantail sole	<i>Xystreureys liolepis</i>	8	8	10	30	55	60	140	150	SL	SS	SH						
Slender snipefish	<i>Macroramphosus scolopax</i>	6	1	5	5	95	95	95	95	SL								
Shiner surfperch	<i>Cymatogaster aggregata</i>	5	4	5	20	40	40	140	140	LS	SH	SL	SS					
Bluntnose sixgill shark	<i>Hexanchus griseus</i>	4	4	20	200	80	90	230	230	HH	HL	HS						
C-O turbot	<i>Pleuronichthys coenosus</i>	4	4	20	20	55	55	55	60	SS								
Opaleye*	<i>Girella nigricans</i>	4	2	20	30	35	35	35	35	HH								
Sablefish*	<i>Anoplopoma fimbria</i>	4	4	15	60	95	155	285	285	SL	SS							
Spotted cusk-eel	<i>Chilara taylori</i>	4	4	25	25	100	165	205	205	SS	HL	SH						
Swell shark	<i>Cephaloscyllium ventriosum</i>	4	4	30	100	65	90	125	125	LL	LS	SH	SL					

