

Station: 12 /97 yr.; Transect Letter: B; Height 1.0 meters;Circle 1+: Bedrock; Boulder; Cobble; Pebble; Gravel; Shell; Sand; Muddy-sand; Mud
25+cm 6-25cm 4mm-6cm 2-4mmQuadrat size WITHIN strings: 50x50cm=1/4 square meter; Abundance 1,2, Few=3-10, Common=10+
[cover] [abundance] [cover] [abundance]

"Species" No. intersects 1,2,F,C "Species" No. intersects 1,2,F,C

SUBSTRATE			LIMPETS		
rock	✓✓✓✓✓		ribbed limpet		
shell			shield limpet		E
sand			mask limpet		
mud			plate limpet		
SEAWEED CRUSTS			tiny limpet		
green crust			SNAILS		
brown crust	✓✓✓✓✓✓✓✓✓✓	C	checked winkle		
black crust			spiral winkle		
pink crust			frilled whelk		
FILAMENTS			banded whelk		
Brown beard			dire whelk		
green filament			leafyhornmouth		
sausage links			SEA SLUGS		
red sea hair			yellow seaslug		
LEAFY			brown seaslug		
sea lettuce			BIVALVES		
green ribbon			blue mussel		
purple tissue			rectangle clam		
shiny blade			CRUSTACEANS		
			common barnacle	✓✓✓✓✓	C
tan cauliflower			brown barnacle		
yellow sacs			thatch barnacle		
black knob blade			pill bug		
black brush			seaweed isopod		
rock weed	✓✓✓✓	F	hermit crab		
japanese weed			purple crab		I
acid kelp			drab crab		
RR strap			SEA URCHINS		
SPONGES			green urchin		
yellow sponge			SEA STARS		
purple sponge			purp-brwn star		
ANEMONES			mottled star		
green anemone			6 armed star		
white/tan anem			leather star		
red-green anem			blood star		
WORMS			sunflower star		
pale ribbonworm			SEA SQUIRTS		
mussel worm			red sea squirt		
whitetube worm			OTHER		
CHITONS			GIGARTINA WKE	✓	F
mossy chiton			RED MAT	✓ Polysiphonia	F
lined chiton					

? Rhodoglossum ov
REF.

ROCKY SHORE QUADRAT STUDIES: PRIMARY QUADRAT FORM

Khoyatan Marine Laboratory

Station: 12198 yr.; Transect Letter: B; Height 1.0 meters;

Circle 1+: Bedrock; Boulder; Cobble; Pebble; Gravel; Shell; Sand; Muddy-sand; Mud
 25-4cm 6-25cm 4mm-6cm 2-4mm

Quadrat size WITHIN strings: 50x50cm=1/4 square meter; Abundance 1,2, Few=3-10, Common=10+
 [cover] [abundance] [cover] [abundance]

"Species" No. intersects 1,2,F,C "Species" No. intersects 1,2,F,C

SUBSTRATE		LIMPETS	
rock		ribbed limpet	
shell		shield limpet	C juv.
sand		mask limpet	
mud		plate limpet	
SEAWEED CRUSTS		tiny limpet	
green crust		SNAILS	
brown crust		checked winkle	1
black crust		spiral winkle	
pink crust		frilled whelk	
FILAMENTS		banded whelk	
Brown beard		dire whelk	
green filament		leafyhornmouth	
sausage links		SEA SLUGS	
red sea hair		yellow seaslug	
LEAFY		brown seaslug	
sea lettuce	F	BIVALVES	
green ribbon		blue mussel	F juv.
purple tissue		rectangle clam	
shiny blade		CRUSTACEANS	
		commonbarnacle	F
tancauliflower	F	brown barnacle	
yellow sacs		thatchbarnacle	
blacknob blade		pill bug	
black brush		seaweed isopod	
rock weed		hermit crab	
japanese weed		purple crab	3
acid kelp		drab crab	
RR strap		SEA URCHINS	
SPONGES		green urchin	
yellow sponge		SEA STARS	
purple sponge		purp-brwn star	
ANEMONES		mottled star	
green anemone		6 armed star	
white/tan anem		leather star	
red-green anem		blood star	
WORMS		sunflower star	
pale ribbonworm		SEA SQUIRTS	
mussel worm		red sea squirt	
whitetube worm	1	OTHER	
CHITONS		Caulocanthus	F
mossy chiton		Gelidium	F
lined chiton		Mastocarpus	F
		Cladophora	1

ROCKY SHORE QUADRAT STUDIES: PRIMARY QUADRAT FORM

Khoyatan Marine Laboratory

Station: 12/19/99 yr.; Transect Letter: B; Height 1.0 meters;

Circle 1+: Bedrock; Boulder; Cobble; Pebble; Gravel; Shell; Sand; Muddy-sand; Mud
25+cm 6-25cm 4mm-6cm 2-4mm

Quadrat size WITHIN strings: 50x50cm=1/4 square meter; Abundance 1,2, Few=3-10, Common=10+
[cover] [abundance]

"Species" No. intersects 1,2,F,C "Species" No. intersects 1,2,F,C

SUBSTRATE			LIMPETS		
rock	✓		ribbed limpet		
shell	✓✓✓✓✓✓✓✓✓✓		shield limpet		C
sand			mask limpet		
mud			plate limpet		F
SEAWEED CRUSTS			tiny limpet		
green crust			SNAILS		
brown crust	✓✓✓✓✓✓✓✓✓✓	C	checked winkle		F
black crust			spiral winkle		
pink crust			frilled whelk		
FILAMENTS			banded whelk		
Brown beard			dire whelk		
green filament			leafyhornmouth		
sausage links			SEA SLUGS		
red sea hair			yellow seaslug		
LEAFY			brown seaslug		
sea lettuce	✓	F	BIVALVES		
green ribbon		F	blue mussel		
purple tissue			rectangle clam		
shiny blade			CRUSTACEANS		
			common barnacle	✓✓	C juv.
tancauliflower		F	brown barnacle		
yellow sacs			thatch barnacle		
blacknob blade			pill bug		
black brush			seaweed isopod		
rock weed			hermit crab		
japanese weed			purple crab		
acid kelp			drab crab		III
RR strap			SEA URCHINS		
SPONGES			green urchin		
yellow sponge			SEA STARS		
purple sponge			purp-brwn star		
ANEMONES			mottled star		
green anemone			6 armed star		
white/tan anem			leather star		
red-green anem			blood star		
WORMS			sunflower star		
pale ribbonworm			SEA SQUIRTS		
mussel worm			red sea squirt		
whitetube worm			OTHER		
CHITONS			gillidium	✓	F
mossy chiton			ligartina	✓✓	F
lined chiton			unidentified red		F
			spongomorpha		F (1 or 2)

as per 03 '99

ROCKY SHORE QUADRAT STUDIES: PRIMARY QUADRAT FORM

Khoyatan Marine Laboratory

Station: 12-01A yr.; Transect Letter: B; Height 1.0 meters;

Circle 1+: Bedrock; Boulder; Cobble; Pebble; Gravel; Shell; Sand; Muddy-sand; Mud
 25+cm 6-25cm 4mm-6cm 2-4mm

Quadrat size WITHIN strings: 50x50cm=1/4 square meter; Abundance 1, 2, Few=3-10, Common=10+
 [cover] [abundance]

"Species" No. intersects 1, 2, F, C "Species" No. intersects 1, 2, F, C

SUBSTRATE			LIMPETS		
rock	✓		ribbed limpet		
shell			shield limpet	J	com
sand			mask limpet		
mud			plate limpet		
SEAWEEED CRUSTS			tiny limpet		
green crust			SNAILS		
brown crust	✓✓✓✓✓✓✓✓✓✓	com	checked winkle		FEW
black crust			spiral winkle		
pink crust			frilled whelk		
FILAMENTS			banded whelk		
Brown beard			dire whelk		
green filament			leafyhornmouth		
sausage links			SEA SLUGS		
red sea hair			yellow seaslug		
LEAFY			brown seaslug		
sea lettuce			BIVALVES		
green ribbon	✓✓✓✓✓✓✓✓✓✓	com	blue mussel		
purple tissue			rectangle clam		
shiny blade			CRUSTACEANS		
			commonbarnacle	✓✓✓✓✓✓✓✓✓✓	com
tancauliflower			brown barnacle		
yellow sacs			thatchbarnacle		
blacknob blade			pill bug		
black brush			seaweed isopod		
rock weed	✓✓✓✓✓	FEW	hermit crab		
japanese weed			purple crab		
acid kelp			drab crab		
RR strap			SEA URCHINS		
SPONGES			green urchin		
yellow sponge			SEA STARS		
purple sponge			purp-brwn star		
ANEMONES			mottled star		
green anemone			6 armed star		
white/tan anem			leather star		
red-green anem			blood star		
WORMS			sunflower star		
pale ribbonworm			SEA SQUIRTS		
mussel worm			red sea squirt		
whitetube worm			OTHER		
CHITONS			KELP CRAB		ONE
mossy chiton			CALOCANTHUS		FEW
lined chiton					

[Faint, illegible text covering the majority of the page, possibly bleed-through from the reverse side.]

ROCKY SHORE QUADRAT STUDIES: PRIMARY QUADRAT FORM

Station: 671002; Transect letter: B; Height 1.0 meters;
Khyatun Marine Laboratory

Circle 1+; Bedrock; 25+cm
Boulder; 6-25cm
Cobble; Pebble; Gravel; Shell; Sand; Muddy-sand; Mud

Quadrat size WITHIN strings: 50x50cm=1/4 square meter; abundance 1,2, few=3-10, common=10+ [cover] [abundance] 1,2,F,C "Species" No. intersects 1,2,F,C "Species" No. intersects 1,2,F,C [cover] [abundance] 1,2,F,C "Species" No. intersects 1,2,F,C

[illegible]

Georgia Strait Alliance Quadrat Studies

Primary Quadrat Form

12 SiteCode: CC1 Date (Y/M/D): 10/08/03 Repetition: Quadrat Height: 1.0 m Quadrat#

Circle 1: Bedrock; Boulder (dinner plate +); Cobble (> apple); Pebble (> pea); Sand (sugar grain); Mud; Shell

Est. total: After doing Intersects, count/estimate every species in quadrat from 1 to 20; if 21+ put an "A"

"Species"	# Intersects	Est. total	"Species"	# intersects	Est. total
Substrate			Misc Crustaceans	6	
rock (bigger than pea sized)	V V V V		beach hopper gr	Traskorchestia+	
shell (incl dead molluscs, barnacles)			seaweed isopod gr	Idotea sp	
sand (sugar grain to pea size)			ocean pill bug gr	Gnoriomphaeroma+	
mud			shrimplike gr	var tiny amphipods	
Sponges	14		red velvet mite	Neumolgus littoralis	
bread crumb	Halichondria sp		Sea Stars	16	
			ochre star	Pisaster ochraceus	
Anemones	11 + 5 hydroids + 4 misc		Colonial Tunicates	10	
aggregate green	Anthopleura elegantissima		sea pork	Apilidium californicum	
lined	Haliplanella		lined compound gr	Botryllus+	
Free Range Worms	7 ribbon + others		Solitary Tunicates	10	
polychaet flatworm gr	Kaburakia+		broadbase squirt	Cnemidocarpa finmarkiensis	
primitive ribbon	Tubulanus polymorphus		wrinkled squirt	Pyura hystrix	
clam worm gr	Nereis+		Crusts	3	
scale worm gr	Arcionoe+		algal crust	Ralfsia+	V V V V V A
Tube Worms	14		calcified rock crust	Pseudolithophyllum+	
calcareous tube	Serpula vermicularis		Blades	17	
spiral tube	Spirobia sp		eel grass	Zostera marina	
Bryozoans	8		sea lettuce gr.	Ulva+	V V 20
encrusting gr	Schizoporella+		green string lettuce	Enteromorpha sp	
kelp lace	Membranipora sp		rock weed gr.	Fucus+	V V V V V A
valves	7+		purple laver	Porphyra sp	
pacific blue mussel	Mytilus edulis		turkish washcloth gr.	Mastocarpus+	F
Pacific oyster	Crassostrea gigas		tangle incl sugar kelp	Laminaria sp	
Chitons	14		cauliflower gr.	Leathesia+	
mossy	Mopalia mucosa		Filaments & Fuzzes	17	
lined gr	Tonicella lineata+		green tuft	Cladophora sp	
Nudibranchs & Sea Slugs	25		green rope/filament gr.	Acrosiphonia+	
barnacle	Onchidoris bilamellata		fuzzy gr.	Anithamniotella+	
Limpets	9		sea moss	Caulacanthus	F
shield/mask/plate gr	Tectura sp. l. pella	18	spaghetti gr.	Gracilaria+	
ribbed	Lottia digitalis		Branched	8	
Snails	10		dead man's fingers	Halosaccion glandiforme	
chokedered periwinkle	Littorina scutulata	F	japanese weed	Sargassum muticum	
silk periwinkle	Littorina sitkana		string acid hair	Dosmarestia sp	
dogwinkle gr	Nucella sp		bleach weed	Prionitis sp	
Barnacles	4		coral seaweed gr.	Corallina+	
acorn barnacle	Balanus glandula	V V V V V A	bushy red gr.	Ceramium	
brown barnacle	Chthamalus dalii			Gelidium	
hatched barnacle	Semibalanus cariosus			Neorhodomela+	
Crabs & Hermits	21 & 4		Mat		
hermit crabs	Pagurus sp				
purple shore crab	Hemigrapsus nudus				
gray shore crab	Hemigrapsus oregonensis				

Georgia Strait Alliance Quadrat Studies

Primary Quadrat Form

 SiteCode: CC1 Date (Y/M/D): 04/06/17 Repetition: Quadrat Height: 1.0 m Quadrat#

Circle (1): Bedrock; Boulder (dinner plate +); Cobble (> apple); Pebble (> pea); Sand (sugar grain); Mud; Shell

Est. total: After doing intersects, count/estimate every species in quadrat from 1 to 20; if 21+ put an "A"

"Species"	# Intersects	Est. total	"Species"	# intersects	Est. total
Substrate			Misc Crustaceans	6	
rock (bigger than pea sized)	✓		beach hopper gr	Traskorchestia+	
shell (incl dead molluscs, barnacles)			seaweed isopod gr	Idotea sp	
sand (sugar grain to pea size)			ocean pill bug gr	Gnornimosphaeroma+	
mud			shrimplike gr	var tiny amphipods	
Sponges	14		red velvet mile	Neomolgus littoralis	
bread crumb	Halichondria sp		Sea Stars	16	
			ochre star	Pisaster ochraceus	
Anemones	11 + 5 hydroids + 4 misc		Colonial Tunicates	10	
aggregate green	Anthopleura elegantissima		sea pork	Apidium californicum	
lined	Haliplanella		lined compound gr	Botryllus+	
Free Range Worms	7 ribbon + others		Solitary Tunicates	10	
polychaet flatworm gr	Kaburakia+		broadbase squirt	Cnemidocarpa finmarkiensis	
primitive ribbon	Tubulanus polymorphus		wrinkled squirt	Pyura haueri	
clam worm gr	Nereis+				
scale worm gr	Ardonoe+		Crusts	3	
Tube Worms	14		algal crust	Ralfsia+	✓
calcareous tube	Serpula vermicularis		calcified rock crust	Pseudolithophyllum+	
spiral tube	Spirobia sp		Blades	17	
Bryozoans	8		eel grass	Zostera marina	✓
encrusting gr	Schizoporella+		sea lettuce gr.	Ulva+	✓
kelp lace	Membranipora sp		green string lettuce	Enteromorpha sp	✓
Bivalves	7+		rock weed gr.	Fucus+	✓
pacific blue mussel	Mytilus edulis		purple laver	Porphyra sp	✓
Pacific oyster	Crassostrea gigas		turkish washcloth gr.	Mastocarpus+	✓
Chitons	14		tangle incl sugar kelp	Laminaria sp	
mossy	Mopalia mucosa		cauliflower gr.	Leathesia+	
lined gr	Tonicella lineata+		Filaments & Fuzzes	17	
Nudibranchs & Sea Slugs	25		green tuft	Cladophora sp	
barnacle	Onchidaris bilamellata		green rope/filament gr.	Acrusiphonia+	
Limpets	9		fuzzy gr.	Antithamnionella+	
shield/mask/plate gr	Tectura sp. (pella)		caulacanthus	✓	✓
ribbed	Lottia digitalis		sea moss	Endocladia muricata	
Snails	10		spaghetti gr.	Gracilaria+	
chockered periwinkle	Littorina scutellata		Branched	8	
slitka periwinkle	Littorina slitkana		dead man's fingers	Halosaccus glandiformis	
dogwinkle gr	Nucella sp		japanese weed	Sargassum muticum	
Barnacles	4		string acid hair	Desmarestia sp	
acorn barnacle	Balanus glandula	✓	bleach weed	Prionitis sp	
brown barnacle	Chthamalus dalli		coral seaweed gr.	Corallina+	
thatched barnacle	Semibalanus cariosus		bushy red gr	Ceramium	
Crabs & Hermits	21 & 4			Gelidium	
hermit crabs	Pagurus sp			Neorhodomela+	
purple shore crab	Hemigrapsus nudus		Mat		
hairy shore crab	Hemigrapsus oregonensis				

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Georgia Strait Alliance Quadrat Studies

Cortes Island Foreshore Monitoring Primary Quadrat Form

Site name:

Coulter Island

Date (Y/M/D):

06/06/24

Quadrat Height (m):

1.0m

Data collection by:

Bill Craig & SKM

Circle 1+: Bedrock; Boulder (dinner plate); Cobble (> apple); Pebble (> pea); Sand (sugar grain); Mud; Shell

Est. total: After doing Intersects, count/estimate every species in quadrat: Seaweeds: % cover 0-25 / 25-50 / 50-75 / 75-100

Invertebrates: # Ind 0-25 / 25-50 / 50-75 / 75-100 / >100

SPECIES	# INTERSECTS	est. total	SPECIES	# INTERSECTS	est. total
SUBSTRATE			INVERTEBRATES		
rock	11		Anemones		
shell			aggregate green (<i>Anthopleura</i>)		
SEAWEED			lined (<i>Haliplanella</i>)		
Crusts			Tube Worms		
algal (<i>Ralfsia</i> , <i>Hildenbrandia</i>)		0-25	general grp (<i>Serpula</i> , <i>Spirorbis</i>)		1
Filaments/ Fuzz/ Tuft			Chitons		
green filament (<i>Lola</i> , <i>Urospora</i>)			general grp (<i>Mopalia</i> , <i>Tonicella</i>)		
red filament (<i>Polysiphonia</i>)			Limpets		
red fuzz (<i>Caulacanthus</i>)		0-25	ribbed limpet (<i>Lottia digitalis</i>)		
green rope (<i>Acrosiphonia</i>)			other limpets (<i>Lottia</i> , <i>Tectura</i>)		0-25
green tuft (<i>Cladophora</i>)			Snails		
Blade			check periwinkle (<i>L. scutulata</i>)		0-25
sea lettuce (<i>Ulva</i>)			sitka periwinkle (<i>L. sitkana</i>)		
green ribbon (<i>Enteromorpha</i>)			Nudibranchs		
purple laver (<i>Porphyra</i>)			general grp (<i>Onchidoris</i>)		
rockweed (<i>Fucus</i>)		0-25	Bivalves		
turk washcloth (<i>Mastocarpus</i>)	11	0-25	pacific blue mussel (<i>Mytilus</i>)		
sea cauliflower (<i>Leathesia</i>)			pacific oyster (<i>Crassostrea</i>)		
Branched			Barnacles		
black larch (<i>Neorhodomela</i>)			acorn group (<i>Balanus</i>)		>100
sea bush (<i>Odonthalia</i>)			thatched (<i>Semibalanus</i>)		
red branched (<i>Gelidium</i>)			Isopods and Amphipods		
jointed coralline (<i>Corallina</i>)			amphipod group		
Mat			seaweed isopod (<i>Idotea</i>)		
a.			Crabs		
b.			hermit crabs (<i>Pagurus</i>)		
c.			shore crab grp (<i>Hemigrapsus</i>)		1
Other			Sea Stars		
			ochre star (<i>Pisaster</i>)		
			Other		

Cortes Island Foreshore Monitoring Primary Quadrat Form

Couffer Bay

Date (Y/M/D):

07/08/10

Quadrat Height (m):

1.0

Data collection by:

Bill Crage & SLM

Est. total: After doing intersects, count/estimate every species in quadrat: Seaweeds: % cover 0-25 / 25-50 / 50-75 / 75-100

Invertebrates: # Ind 1-25 / 25-50 / 50-75 / 75-100 / >100

SPECIES	# INTERSECTS	est. total	SPECIES	# INTERSECTS	est. total
SUBSTRATE			INVERTEBRATES		
rock			Anemones		
shell			aggregate anemone (<i>Anthopleura</i>)		
SEAWEED			lined anemone (<i>Haliplanella</i>)		
Crusts			Tube Worms		
general algal crust group		0-25	general tube worm group		
Filaments/ Fuzz/ Tuft			Chitons		
filamentous green group			general chiton group		
red filamentous group			Limpets		
red fuzz (<i>Caulacanthus</i>)		0-25	general limpet group		> 100
green rope (<i>Acrosiphonia</i>)			ribbed limpet (<i>Lottia digitalis</i>)		
green tuft (<i>Cladophora</i>)			Snails		
Blade			checkered periwinkle (<i>L. scutulata</i>)		
sea lettuce (<i>Ulva spp.</i>)		0-25	sitka periwinkle (<i>L. sitkana</i>)		
green ribbon (<i>Ulva intestinalis</i>)			Nudibranchs		
purple laver (<i>Porphyra</i>)			barnacle nudibanch (<i>Onchidoris</i>)		
rockweed (<i>Fucus spp.</i>)		0-25	Bivalves		
turk washcloth (<i>Mastocarpus</i>)		0-25	pacific blue mussel (<i>Mytilus</i>)		/
sea cauliflower (<i>Leathesia</i>)			pacific oyster (<i>Crassostrea</i>)		
Branched			Barnacles		
black larch (<i>Neorhodomela</i>)			acorn barnacle group (<i>Balanus</i>)		> 100
sea brush (<i>Odonthalia</i>)			thatched barnacle (<i>Semibalanus</i>)		
red branched (<i>Gelidium</i>)			Isopods and Amphipods		
coralline seaweed (<i>Corallina</i>)			general amphipod group		
Mat			seaweed isopod (<i>Idotea</i>)		
a.			Crabs		
b.			hermit crabs (<i>Pagurus</i>)		
c.			shore crab group (<i>Hemigrapsus</i>)		
Other			Sea Stars		
			ochre star (<i>Pisaster</i>)		
			Other		

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Georgia Strait Alliance Quadrat Studies

Cortes Island Foreshore Monitoring Primary Quadrat Form

Site name:

Coulter Island

Date (Y/M/D):

09/08/22

Quadrat Height (m):

1.0

Data collection by:

Bill Crago & JudithCircle 1+: Bedrock; Boulder (dinner plate); Cobble (>apple); Pebble (> pea); Sand (sugar grain); Mud; Shell

Est. total: After doing intersects, count/estimate every species in quadrat: Seaweeds: % cover 0-25 / 25-50 / 50-75 / 75-100

Invertebrates: # Ind 1-25 / 25-50 / 50-75 / 75-100 / >100

SPECIES	# INTERSECTS	est. total	SPECIES	# INTERSECTS	est. total
SUBSTRATE			INVERTEBRATES		
rock			Anemones		
shell			aggregate anemone (<i>Anthopleura</i>)		
SEAWEED			lined anemone (<i>Haliplanella</i>)		
Crusts			Tube Worms		
general algal crust group			general tube worm group		
Filaments/ Fuzz/ Tuft			Chitons		
filamentous green group			general chiton group		
red filamentous group			Limpets		
red fuzz (<i>Caulacanthus</i>)			general limpet group		
green rope (<i>Acrosiphonia</i>)			ribbed limpet (<i>Lottia digitalis</i>)		
green tuft (<i>Cladophora</i>)			Snails		
Blade			checkered periwinkle (<i>L. scutulata</i>)		
sea lettuce (<i>Ulva spp.</i>)			sitka periwinkle (<i>L. sitkana</i>)		
green ribbon (<i>Ulva intestinalis</i>)			Nudibranchs		
purple laver (<i>Porphyra</i>)			barnacle nudibranch (<i>Onchidaris</i>)		
rockweed (<i>Fucus spp.</i>)			Bivalves		
turk washcloth (<i>Mastocarpus</i>)			pacific blue mussel (<i>Mytilus</i>)		
sea cauliflower (<i>Leathesia</i>)			pacific oyster (<i>Crassostrea</i>)		
Branched			Barnacles		
black larch (<i>Neorhodomela</i>)			acorn barnacle group (<i>Balanus</i>)		
sea brush (<i>Odonthalia</i>)			thatched barnacle (<i>Semibalanus</i>)		
red branched (<i>Gelidium</i>)			Isopods and Amphipods		
coralline seaweed (<i>Corallina</i>)			general amphipod group		
Mat			seaweed isopod (<i>Idotea</i>)		
a.			Crabs		
b.			hermit crabs (<i>Pagurus</i>)		
c.			shore crab group (<i>Hemigrapsus</i>)		
Other			Sea Stars		
			ochre star (<i>Pisaster</i>)		
			Other		

Site name:

Coulter Island

Date (Y/M/D):

2010/07/11

Quadrat Height (m):

1.0

(P) ✓

Data collection by:

SLM

Circle 1+: Bedrock; Boulder (dinner plate); Cobble (>apple); Pebble (> pea); Sand (sugar grain); Mud; Shell

Est. total: After doing Intersects, count/estimate every species in quadrat: Seaweeds: % cover 0-25 / 25-50 / 50-75 / 75-100

Invertebrates: # Ind 1-25 / 25-50 / 50-75 / 75-100 / >100

SPECIES	# INTERSECTS	est. total	SPECIES	# INTERSECTS	est. total
SUBSTRATE			INVERTEBRATES		
rock			Anemones		
shell			aggregate anemone (<i>Anthopleura</i>)		
SEAWEED			lined anemone (<i>Haliplanella</i>)		
Crusts			Tube Worms		
general algal crust group		0-25	general tube worm group		1
Filaments/ Fuzz/ Tuft			Chitons		
filamentous green group			general chiton group		
red filamentous group			Limpets		
red fuzz (<i>Caulacanthus</i>)		0-25	general limpet group		0-25
green rope (<i>Acrosiphonia</i>)			ribbed limpet (<i>Lottia digitalis</i>)		
green tuft (<i>Cladophora</i>)			Snails		
Blade			checkered periwinkle (<i>L. scutulata</i>)		
sea lettuce (<i>Ulva spp.</i>)	1	0-25	sitka periwinkle (<i>L. sitkana</i>)		
green ribbon (<i>Ulva intestinalis</i>)		0-25	Nudibranchs		
purple laver (<i>Porphyra</i>)			barnacle nudibanch (<i>Onchidaris</i>)		
rockweed (<i>Fucus spp.</i>)		0-25	Bivalves		
turk washcloth (<i>Mastocarpus</i>)		0-25	pacific blue mussel (<i>Mytilus</i>)		
sea cauliflower (<i>Leathesia</i>)			pacific oyster (<i>Crassostrea</i>)		
Branched			Barnacles		
black larch (<i>Neorhodomela</i>)			acorn barnacle group (<i>Balanus</i>)		>100
sea brush (<i>Odonthalla</i>)			thatched barnacle (<i>Semibalanus</i>)		spot & small juv.
red branched (<i>Gelidium</i>)			Isopods and Amphipods		
coralline seaweed (<i>Corallina</i>)			general amphipod group		
Mat			seaweed isopod (<i>Idotea</i>)		
a.			Crabs		
b.			hermit crabs (<i>Pagurus</i>)		
c.			shore crab group (<i>Hemigrapsus</i>)		
Other			Sea Stars		
			ochre star (<i>Pisaster</i>)		
			Other		

1230 start. 1.621139

Cortes Island Foreshore Monitoring Primary Quadrat Form

Quadrat Height (m): 1.0

Circle 1+: Bedrock; Boulder (dinner plate); Cobble (>apple); Pebble (> pea); Sand (sugar grain); Mud; Shell

Invertebrates: # incl 1-25 / 25-50 / 50-75 / 75-100 / >100

*Note that many of the barnacles are dead.

1005 Sp. Gorge Gout docks
1030 < Coulter Island
1045 start.
1105 begin first [1.0].
[1.5]
1145 begin. [2.0] [2.5].
1230 begin [3.0]
1255 COMPLETE []
3.5.
+ pack up.
1310 Sp. Coulter
1335 Sw. Gorge Gout docks

Cortes Island Foreshore, Monitoring Primary Quadrat Form

Data collection by: SLM & DM

Est. total: After doing intersects, count/estimate every species in quadrat: Seaweeds: % cover 0-25 / 25-50 / 50-75 / 75-100

Invertebrates: # Incl 1-25 / 25-50 / 50-75 / 75-100 / >100

SPECIES	# INTERSECTS	est. total	SPECIES	# INTERSECTS	est. total
SUBSTRATE			INVERTEBRATES		
rock			Anemones		
shell			aggregate anemone (<i>Anthopleura</i>)		
SEAWEED			lined anemone (<i>Haliplanella</i>)		
Crusts			Tube Worms		
general algal crust group		25-50	general tube worm group	4	
Filaments/ Fuzz/ Tuft			Chitons		
filamentous green group			general chiton group		
red filamentous group			Limpets		
red fuzz (<i>Caulacanthus</i>)			general limpet group	1-25	
green rope (<i>Acrosiphonia</i>)			ribbed limpet (<i>Lottia digitalis</i>)		
green tuft (<i>Cladophora</i>)			Snails		
Blade			checkered periwinkle (<i>L. scutulata</i>)		
sea lettuce (<i>Ulva spp.</i>)		0-25	sitka periwinkle (<i>L. sitkana</i>)		
green ribbon (<i>Ulva intestinalis</i>)		25-50	Nudibranchs		
purple laver (<i>Porphyra</i>)			barnacle nudibanch (<i>Onchidoris</i>)		
rockweed (<i>Fucus spp.</i>)		0-25	Bivalves		
turk washcloth (<i>Mastocarpus</i>)		0-25	pacific blue mussel (<i>Mytilus</i>)		
sea cauliflower (<i>Leathesia</i>)			pacific oyster (<i>Crassostrea</i>)		
Branched			Barnacles		
black larch (<i>Neorhodomela</i>)			acorn barnacle group (<i>Balanus</i>)		>100
sea brush (<i>Odonthalia</i>)			thatched barnacle (<i>Semibalanus</i>)		juv
red branched (<i>Gelidium</i>)			Isopods and Amphipods		
coralline seaweed (<i>Corallina</i>)			general amphipod group		
Mat			seaweed isopod (<i>Idotea</i>)		
a.			Crabs		
b.			hermit crabs (<i>Pagurus</i>)		
c.			shore crab group (<i>Hemigrapsus</i>)		
Other			Sea Stars		
			ochre star (<i>Pisaster</i>)		
			Other		