

ROCKY SHORE QUADRAT STUDIES: PRIMARY QUADRAT FORM

Khoyatan Marine Laboratory

Station: 12 /97 yr.; Transect Letter: B; Height 3.5 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] [cover] [abundance]

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

SUBSTRATE		LIMPETS	
rock		ribbed limpet	
shell		shield limpet	
sand		mask limpet	
mud		plate limpet	
SEAWEED CRUSTS		tiny limpet	
green crust		SNAILS	
brown crust		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		BIVALVES	
green ribbon		blue mussel	
purple tissue		rectangle clam	
shiny blade		CRUSTACEANS	
		commonbarnacle	F
tancauliflower		brown barnacle	
yellow sacs		thatchbarnacle	
blacknob blade		pill bug	
black brush		seaweed isopod	
rock weed		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		DIATOM MAT	light cover of diatoms, often upper washed out.
mossy chiton			
lined chiton			

Station: 12 /98 yr.; Transect Letter: B; Height 3.5 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]

[cover]

[abundance]

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

SUBSTRATE			LIMPETS		
rock	✓		ribbed limpet		
shell			shield limpet		
sand			mask limpet		
mud			plate limpet		
SEAWEED CRUSTS			tiny limpet		
green crust			SNAILS		
brown crust		F	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			BIVALVES		
green ribbon			blue mussel		
purple tissue			rectangle clam		
shiny blade			CRUSTACEANS		
			commonbarnacle	✓	F
tancauliflower			brown barnacle		
yellow sacs			thatchbarnacle		
blacknob blade			pill bug		
black brush			seaweed isopod		
rock weed			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					
moosy chiton					
lined chiton					

[The page contains extremely faint, illegible text, likely bleed-through from the reverse side. The text is organized into several paragraphs and possibly a list or table, but the characters are too light to transcribe accurately.]

Station: 12/19 yr.; Transect Letter: B; Height 3.5 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" [cover] [abundance] No. intersects 1,2,F,C

SUBSTRATE			LIMPETS	
rock	✓	C	ribbed limpet	
shell			shield limpet	
sand			mask limpet	
mud			plate limpet	
SEAWEED CRUSTS			tiny limpet	
green crust			SNAILS	
brown crust			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			BIVALVES	
green ribbon			blue mussel	
purple tissue			rectangle clam	
shiny blade			CRUSTACEANS	
			commonbarnacle	✓ F
tancauliflower			brown barnacle	
yellow sacs			thatchbarnacle	
blacknob blade			pill bug	
black brush			seaweed isopod	
rock weed		2 juv.	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				
moosy chiton				
lined chiton				

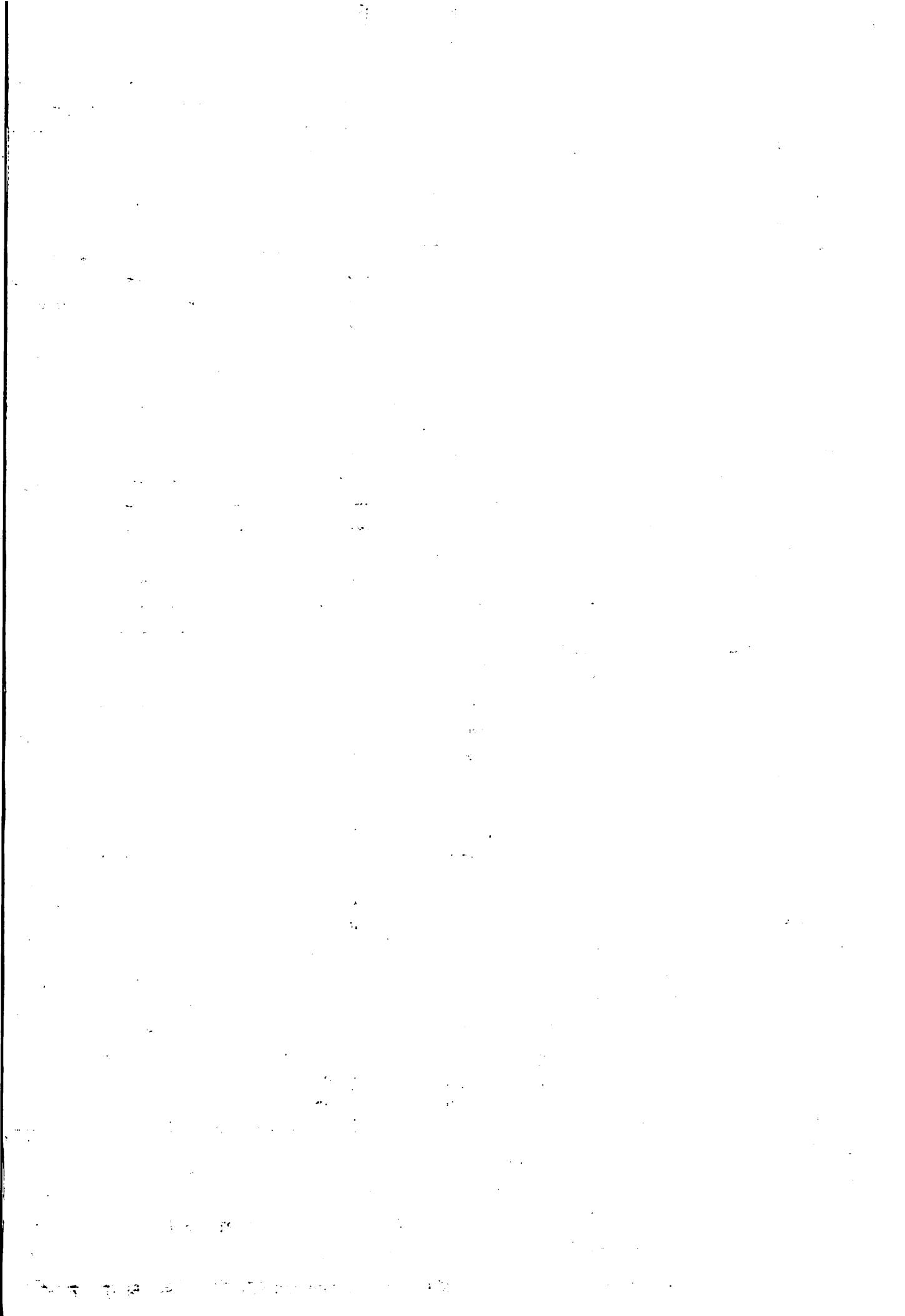


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Station: 12 2000 yr.; Transect Letter: B; Height 3.5 meters;Circle 1+: Bedrock, Boulder; Cobble; Pebble; Gravel; Shell; Sand; Muddy-sand; Mud
25+cm 6-25cm 4mm-6cm 2-4mmQuadrat size WITHIN strings: 50x50cm=1/4 square meter; Abundance 1, 2, Few=3-10, Common=10+
[cover] [abundance]

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

SUBSTRATE			LIMPETS		
rock	✓		ribbed limpet		
shell			shield limpet		
sand			mask limpet		
mud			plate limpet		
SEAWEED CRUSTS			tiny limpet		
green crust			SNAILS		
brown crust			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			blue mussel		
purple tissue			rectangle clam		
shiny blade			CRUSTACEANS		
			commonbarnacle	✓	FEW
tancauliflower			brown barnacle		
yellow sacs			thatchbarnacle		
blacknob blade			pill bug		
black brush			seaweed isopod		
rock weed			hermit crab		
japanese weed			purple crab		
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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					
mossy chiton					
lined chiton					



ROCKY SHORE QUADRAT STUDIES: PRIMARY QUADRAT FORM

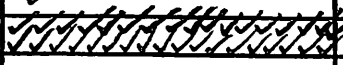
Khoyatan Marine Laboratory

Station: 12/50/yr.; Transect Letter: B.; Height 3.5 meters;

Circle 1+ Bedrock Boulder; Cobble; Pebble; Gravel; Shell; Sand; Muddy-sand; Mud
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 [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	
sand		mask limpet	
mud		plate limpet	
SEAWEED CRUSTS		tiny limpet	
green crust		SNAILS	
brown crust		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		blue mussel	
purple tissue		rectangle clam	
shiny blade		CRUSTACEANS	
		common barnacle	FEW
tan cauliflower		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	
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ANEMONES		mottled star	
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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			
mossy chiton			
lined chiton			

Station cover



ROCKY SHORE QUADRAT STUDIES: PRIMARY QUADRAT FORM

Khoyatan Marine Laboratory

Station: 12 0219 yr.; Transect Letter: B; Height 3.5 meters;

Circle 1+: Bedrock; Boulder; Cobble; Pebble; Gravel; Shell; Sand; Muddy-sand; Mud
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[cover] [abundance]

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

SUBSTRATE			LIMPETS	
rock	✓		ribbed limpet <i>digitalis</i>	
shell			shield limpet <i>pilula</i>	
sand			mask limpet <i>porpora</i>	
mud			plate limpet <i>scutum</i>	
SEAWEED CRUSTS			tiny limpet	
green crust			SNAILS	
brown crust			checked winkle	9
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	Aie. > 20
tan cauliflower			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	
RR strap			SEA URCHINS	
SPONGES			green urchin	
yellow sponge			SEA STARS	
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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			porphyra (laver)	✓ 10
mossy chiton				
lined chiton				

12

Site Code: CC1 Date (Y/M/D): 10/00/03 Repetition: Quadrat Height: 3.5 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)		A	beach hopper gr	Traskorchestia+	
shell (incl dead molluscs, barnacles)			seaweed isopod gr	Idotea sp	
sand (sugar grain to pea size)			ocean pill bug gr	Gnathosphaeroma+	
mud			shrimplike gr	var tiny amphipods	
Sponges	14		red velvet mite	Neomolgus littoralis	
bread crumb	Halichondria sp		Sea Stars	16	
Anemones	11 + 5 hydroids + 4 misc		ochre star	Pisaster ochraceus	
aggregate green	Anthopleura elegantissima		Colonial Tunicates	10	
lined	Haliplanella		sea pork	Aplidium californicum	
Free Range Worms	7 ribbon + others		lined compound gr	Botryllus+	
polychaete flatworm gr	Kaburaka+		Solitary Tunicates	10	
primitive ribbon	Tubulanus polymorphus		broadbase squirt	Orenidocarpa finmarkensis	
clam worm gr	Nereis+		wrinkled squirt	Pyura haustor	
scale worm gr	Arctonoe+		Crusts	3	
Tube Worms	14		algal crust	Ralfsia+	
calcareous tube	Serpula vermicularis		calcified rock crust	Pseudolithophyllum+	
spiral tube	Sipholia 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	Onchidopsis bilamellata		green rope/filament gr.	Acrisiphonia+	
Limpets	9		fuzzy gr.	Anthamionella+	
shield/mask/plate gr	Tectura sp. l. pella		Caulacanthus		
ribbed	Lottia digitalis		sea moss	Endocladia muricata	
Snails	10		spaghetti gr.	Gracilaria+	
checkered periwinkle	Littorina scutulata		Branched	8	
silica periwinkle	Littorina alkana		dead man's fingers	Halosaccus glandiforme	
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				

Coulter Island

Georgia Strait Alliance Quadrat Studies

Primary Quadrat Form

Site Code: CC1 Date (Y/M/D): 04/06/17 Repetition: Quadrat Height: 3.5 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)	14/14/14/14/14/14		beach hopper gr	Traskorchestia+	
shell (incl dead molluscs, barnacles)			seaweed isopod gr	Idotea sp	
sand (sugar grain to pea size)			ocean pill bug gr	Gnathosphaeroma+	
mud			shrimplike gr	var tiny amphipods	
Sponges	14		red velvet mite	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	Aplidium californicum	
lined	Haliplanella		lined compound gr	Botryllus+	
Free Range Worms	7 ribbon + others		Solitary Tunicates	10	
polychaet flatworm gr	Kaburako+		broadbase squirt	Cnemidocarpa (in markings)	
primitive ribbon	Tubulanus polymorphus		wrinkled squirt	Pyura tunicata	
clam worm gr	Nereis+				
scale worm gr	Arctonoe+		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 - red blade	Porphyra sp	20
Pacific oyster	Crassostrea gigas		turkish washcloth gr.	Mastocarpus+	
Chitons	14		tangle incl sugar kelp	Laminaria sp	
mossy	Mopalia muscosa		cauliflower gr.	Leathesia+	
lined gr	Tonkella lineata+		Filaments & Fuzzes	17	
Nudibranchs & Sea Slugs	25		green tuft	Cladophora sp	
barnacle	Onchidaris bilamellata		green rope/filament gr.	Acrisiphonia+	
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+	
checkered periwinkle	Littorina scutulata	✓	Branched	8	
silka periwinkle	Littorina alkana		dead man's fingers	Halosaccion glandiforme	
dogwinkle gr	Nucella sp		japanese weed	Sargassum muticum	
Barnacles	4				
acorn barnacle	Balanus glandula	✓			
brown barnacle	Chthamalus dalli				
thatched barnacle	Semibalanus cariosus				
Crabs & Hermits	21 + 4				
hermit crabs	Pagurus sp				
purple shore crab	Hemigrapsus nudus				
hairy shore crab	Hemigrapsus oregonensis				
			Mat		

Georgia Strait Alliance Quadrat Studies

Cortes Island Foreshore Monitoring Primary Quadrat Form

Site name: Coulter IslandDate (Y/M/D): 06/06/22Quadrat Height (m): 3.5m2.35/317Data collection by: Bill Crago & CCMCircle 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			Anemones		
shell			aggregate green (<i>Anthopleura</i>)		
SEAWEED			lined (<i>Haliplanella</i>)		
Crusts			Tube Worms		
algal (<i>Ralfsia</i> , <i>Hildenbrandia</i>)			general grp (<i>Serpula</i> , <i>Spirorbis</i>)		
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>)			ribbed limpet (<i>Lottia digitalis</i>)		
green rope (<i>Acrosiphonia</i>)			other limpets (<i>Lottia</i> , <i>Tectura</i>)		
green tuft (<i>Cladophora</i>)			Snails		
Blade			check periwinkle (<i>L. scutulata</i>)		
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>)			Bivalves		
turk washcloth (<i>Mastocarpus</i>)			pacific blue mussel (<i>Mytilus</i>)		
sea cauliflower (<i>Leathesia</i>)			pacific oyster (<i>Crassostrea</i>)		
Branched			Sarnacles		
black larch (<i>Neorhodomela</i>)			acorn group (<i>Balanus</i>)		
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>)		
Other			Sea Stars		
			ochre star (<i>Pisaster</i>)		
			Other		



Cortes Island Foreshore Monitoring Primary Quadrat Form

Quadrat Height (m): 3.5

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			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 nudibanch (<i>Onchidoris</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		

THE
FOLLOWING
TABLE
GIVES
A
SUMMARY
OF
THE
RESULTS
OBTAINED
IN
THE
EXPERIMENT
CONCERNING
THE
EFFECT
OF
TEMPERATURE
ON
THE
RATE
OF
REACTION
BETWEEN
SODIUM
HYDROXIDE
AND
SODIUM
CARBONATE
IN
AQUEOUS
SOLUTION
AT
VARIABLE
TEMPERATURES
AND
INITIAL
CONCENTRATIONS
OF
THE
REACTANTS
THE
TEMPERATURE
WAS
VARIABLE
BETWEEN
10°C
AND
30°C
AND
THE
INITIAL
CONCENTRATIONS
WERE
VARIABLE
BETWEEN
0.01M
AND
0.1M
THE
RESULTS
WERE
AS
FOLLOWS

Quadrat Height (m): 3.5

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

[illegible]

Georgia Strait Alliance Quadrat Studies

Cortes Island Foreshore Monitoring Primary Quadrat Form

Site name: COLLIER ISLANDDate (Y/M/D): 2010/07/11Quadrat Height (m): 3.5Data collection by: SLM

Circle 1+ Bedrock; Boulder (dinner plate); Cobble (>apple); Pebble (> pea); Sand (sugar grain); Muck, 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		
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>Onchidoris</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>)		75-100
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		

Notes on pin:

pin flush w/ bedrock
 & 5/5 washer around
 exposed obvious
 immediately on site

Cortes Island Foreshore Monitoring Primary Quadrat Form

COULTER Island
SLAM-

2014/06/12

3.5

Data collection_by:

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	IX		Anemones		
shell	IX		aggregate anemone (<i>Anthopleura</i>)		
SEAWEED			lined anemone (<i>Haliplanella</i>)		
Crusts			Tube Worms		
general algal crust group		0-26	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>)	III	> 100
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 nudibanch (<i>Onchidoris</i>)		
rockweed (<i>Fucus spp.</i>)		0-25	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>)	III	> 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		

11-11-11

11-11-11

11-11-11

11-11-11

Georgia Strait Alliance Quadrat Studies

Cortes Island Foreshore Monitoring Primary Quadrat Form

Site name: COWETER Island Date (Y/M/D): 2020/06/04 Quadrat Height (m): 3.5mData collection by: SLM & DMCircle 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: # Incl 1-25 / 25-50 / 50-75 / 75-100 / >100

SPECIES	# INTERSECTS	est. total	SPECIES	# INTERSECTS	est. total
SUBSTRATE			INVERTEBRATES		
rock	14		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>)		0-25	Nudibranchs		
purple laver (<i>Porphyra</i>)			barnacle nudibanch (<i>Onchidoris</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>)	14	1-25
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		
diatom mat/light film		75-100	ochre star (<i>Pisaster</i>)		
			Other		

* All pins located & cleared May.

- Redrance
- 3.5m
- 2.5m
- 1.5m