

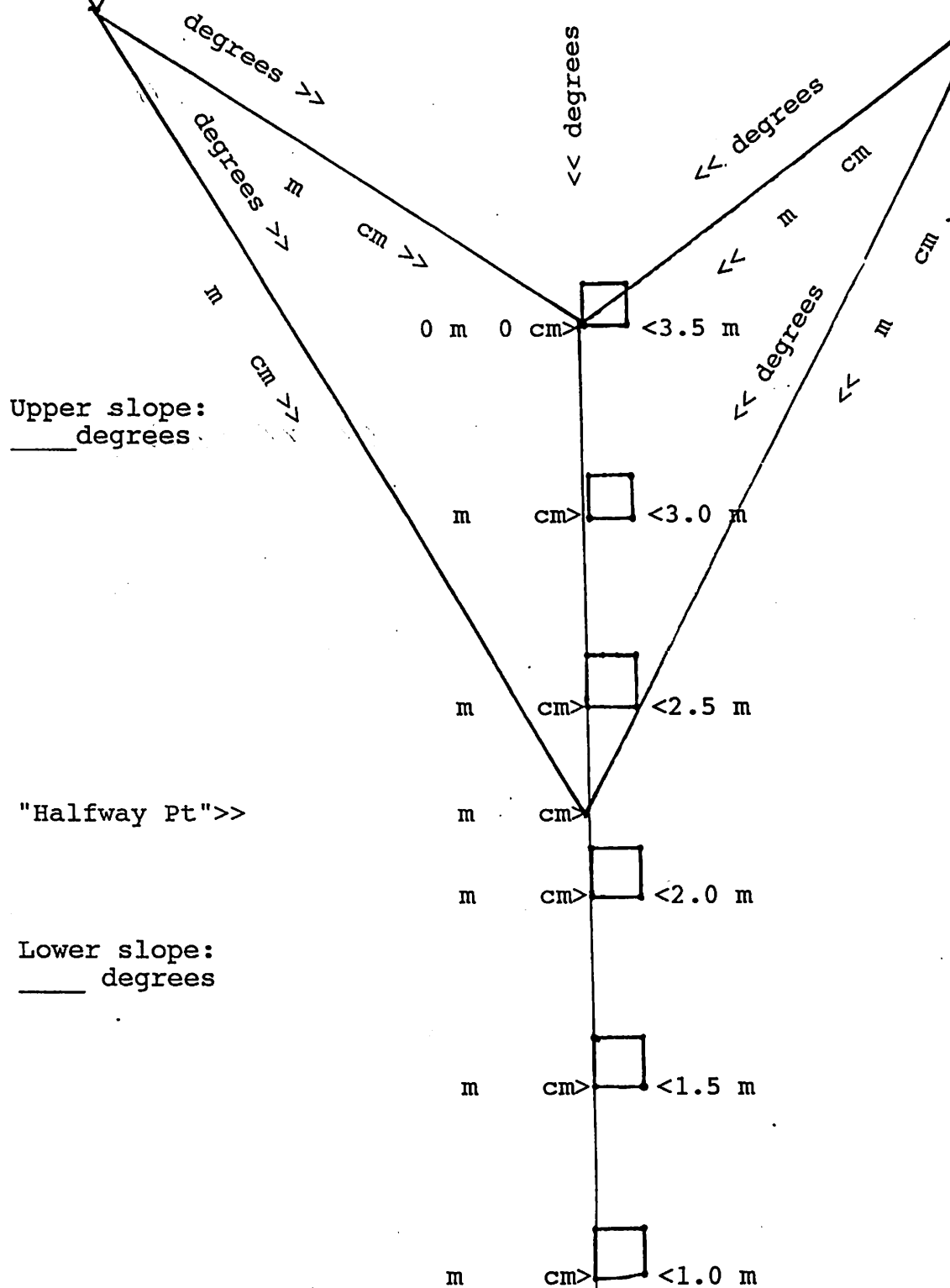
STATION ____/9__ year; TRANSECT ____.

Khoyatan

LAND

Left Landmark

Right Landmark



SEA

ROCKY SHORE QUADRAT STUDIES: PRIMARY QUADRAT FORM

Khoyatan Marine Laboratory

Station: 125 / 97 yr.; Transect Letter: B.; Height 2.5 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		F
sand			mask limpet		
mud			plate limpet		
SEAWEED CRUSTS			tiny limpet		
green crust			SNAILS		
brown crust	✓✓	F	checked winkle		C
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	✓	F
purple tissue			rectangle clam		
shiny blade			CRUSTACEANS	✓✓✓✓✓✓✓✓	C
			common barnacle		
tancauliflower			brown barnacle		
yellow sacs			thatch barnacle		
blacknob blade			pill bug		
black brush	✓✓✓✓✓✓✓✓✓✓	C	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		Q IN C	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	✓✓✓✓✓	C
mossy chiton			POLYSIPHONIA		F
lined chiton					

Khoyatan Marine Laboratory

lined chiton		chiton	thymocladia ✓	1
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Chitron

Lepidochitona ✓

Station: 12/19 yr.; Transect Letter: B; Height 2.5 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	✓✓	C
sand			mask limpet		
mud			plate limpet		
SEAWEED CRUSTS			tiny limpet		
green crust	✓✓		SNAILS	✓	
brown crust		F	checked winkle		C
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 <i>entomomorpha</i>		F	blue mussel		F
purple tissue			rectangle clam		
shiny blade			CRUSTACEANS	✓✓✓✓✓✓✓✓	C
			common barnacle		
tancauliflower			brown barnacle		
yellow sacs			thatch barnacle		2
blacknob blade			pill bug		
black brush	✓✓✓✓✓✓✓✓✓✓✓✓✓✓✓✓	C	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		in rock crack	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		F
mossy chiton			gigartina		F
lined chiton			lined ribbon worm		1

ROCKY SHORE QUADRAT STUDIES: PRIMARY QUADRAT FORM

Khoyatan Marine Laboratory

Station: 12 ²⁰⁰⁰ yr.; Transect Letter: B; Height 2.5 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" No. intersects 1,2,F,C

SUBSTRATE			LIMPETS		
rock	✓		ribbed limpet		
shell			shield limpet	✓	FEW
sand			mask limpet		
mud			plate limpet	3 large	FEW
SEAWEED CRUSTS			tiny limpet		
green crust			SNAILS		
brown crust	✓	FEW	checked winkle		COM
black crust			spiral winkle		
pink crust			frilled whelk		ONE
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		FEW
purple tissue			rectangle clam		
shiny blade			CRUSTACEANS		
			common barnacle	✓✓✓✓✓	COM
tan cauliflower			brown barnacle		
yellow sacs			thatch barnacle	two large	FEW
blacknob blade			pill bug		
black brush			seaweed isopod		
rock weed	✓✓✓✓✓✓✓✓✓✓✓✓✓✓✓✓	COM	hermit crab		
japanese weed			purple crab		ONE
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	✓✓✓	COM	blood star		
WORMS			sunflower star		
pale ribbonworm			SEA SQUIRTS		
mussel worm			red sea squirt		
whitetube worm			OTHER		
CHITONS			MASTOCARPUS	✓	FEW
moosy chiton			CAULOCAPTIVUS		FEW
lined chiton					

flatworms or nudella

ROCKY SHORE QUADRAT STUDIES: PRIMARY QUADRAT FORM

Rhoyatan Marine Laboratory

Station: 12/19 yr.; Transect Letter: B; Height 2.5 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" No. intersects 1,2,F,C

SUBSTRATE			LIMPETS		
rock	✓		ribbed limpet		
shell			shield limpet		com
sand			mask limpet		
mud			plate limpet		
SEAWEED CRUSTS			tiny limpet		
green crust			SNAILS		
brown crust		FEW	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		FEW	BIVALVES		
green ribbon			blue mussel		
purple tissue			rectangle clam		
shiny blade			CRUSTACEANS		
			commonbarnacle	XXXXXXXXXXXX	com
tancauliflower			brown barnacle		HERM DIATA COVER
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		common in CRACK	blood star		
WORMS			sunflower star		
pale ribbonworm			SEA SQUIRTS		
mussel worm			red sea squirt		
whitetube worm			OTHER		
CHITONS			CALOCANTHUS	✓	FEW
mossy chiton			MASTOCARPUS		FEW
lined chiton					

ROCKY SHORE QUADRAT STUDIES: PRIMARY QUADRAT FORM

Khoyatan Marine Laboratory

Station: 12 024 yr.; Transect Letter: B; Height 2.5 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	✓	A
sand			mask limpet		
mud			plate limpet		
SEAWEED CRUSTS			tiny limpet		
green crust			SNAILS		
brown crust	✓	18	checked winkle	✓	A
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		20 in crack
purple tissue			rectangle clam		
shiny blade			CRUSTACEANS		
			common barnacle	XXXXXXXXXX	A
tan cauliflower			brown barnacle		
yellow sacs			thatch barnacle		
black nob blade			pill bug		
black brush	XXXXXXXXXX	A	seaweed isopod		
rock weed			hermit crab		
japanese weed			purple crab		1
acid kelp			drab crab		1
RR strap			SEA URCHINS		
SPONGES			green urchin		
yellow sponge			SEA STARS		
purple sponge			purp-brwn star		
ANEMONES			mottled star		
green anemone A. elegantissima	✓	30/A	6 armed star		

Georgia Strait Alliance Quadrat Studies

Primary Quadrat Form

12 Site Code: CC1 Date (Y/M/D) 10/08/03 Repetition: Quadrat Height: 2.5 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)	✓✓		beach hopper gr	Traskorchestia+	
shell (incl dead molluscs, barnacles)			seaweed isopod gr	Idotea sp	
sand (sugar grain to pea size)			ocean pill bug gr	Gninosphaeroma+	
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				
aggregato green	Anthopora elegantissima	✓	Colonial Tunicates	10	
lined	Haliphanella	all in back 20	sea pork	Aplidium californicum	
Free Range Worms	7 ribbon + others		lined compound gr	Borystius+	
polychaet flatworm gr	Kaburakia+		Solitary Tunicates	10	
primitive ribbon	Tubulanus polymorphus		broadbase squirt	Cnemidocarpa finmarkiensis	
clam worm gr	Nereis+		wrinkled squirt	Pyura lamarckii	
scale worm gr	Arctonoe+				
Tube Worms	14		Crusts	3	
calcareous tube	Serpula vermicularis		algal crust	Ralfsia+	F
spiral tube	Spirobia sp		calcified rock crust	Pseudolithophyllum+	
Bryozoans	8		Blades	17	
encrusting gr	Schizoporella+		eel grass	Zostera marina	
kelp lace	Membranipora sp.		sea lettuce gr.	Ulva+	F
Algae	7+		green string lettuce	Enteromorpha sp	✓✓✓ F
pacific blue mussel	Mytilus edulis		rock weed gr.	Fucus+	✓ F
Pacific oyster	Crassostrea gigas		purple laver	Porphyra sp	
Chitons	14		turkish washcloth gr.	Mastocarpus+	F
mossy	Mopalia mucosa		tangle incl sugar kelp	Laminaria sp	
lined gr	Tonicella lineata+		cauliflower gr.	Leathesia+	
Nudibranchs & Sea Slugs	25				
barnacle	Onchidaris bilamellata		Filaments & Fuzzes	17	
Limpets	9		green tuft	Cladophora sp	
shield/mask/plate gr	Tectura sp. l. pella	F	green rop/filament gr.	Azucisiphonia+	
ribbed	Lottia digitalis		fuzzy gr.	Antithamnionella+	
Snails	10		sea moss	Endocladia muricata	
chokedered periwinkle	Littorina scutulata	F	spaghetti gr.	Gracilaria+	
sitka periwinkle	Littorina sitkana		Branched	8	
dogwinkle gr	Nucella sp		dead man's fingers	Halosaccion glandiforme	
Barnacles	4	✓✓✓✓✓	japanese weed	Sargassum muticum	

Georgia Strait Alliance Quadrat Studies

Primary Quadrat Form

SiteCode: CCIS1 Date (Y/M/D): 04/06/17 Repetition: Quadrat Height: 2.5 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)	VVVVVVVV		beach hopper gr	Traskorchestia+	F
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 mille	Neumolgus littoralis	
bread crumb	Halichondria sp		Sea Stars	16	
			ochre star	Pisaster ochraceus	
Anemones	11 + 5 hydroids + 4 misc		Colonial Tunicates	10	
aggregato green	Anthopleura elegantissima		sea pork	Aplidium californicum	
lined	Haliplanella	IN CRACK ONLY (40) A	lined compound gr	Botryllus+	
Free Range Worms	7 ribbon + others		Solitary Tunicates	10	
polychaete flatworm gr	Kaburako+		broadbase squirt	Cnemidocarpa finmarkiensis	
primitive ribbon	Tubulanus polymorphus		wrinkled squirt	Pyura hians/gr	
clam worm gr	Nereis+				
scale worm gr	Ardonoe				
Tube Worms	14		Crusts	3	
calcareous tube	Serpula vermicularis		algal crust	Ralfsia+	W F
spiral tube	Spiralis sp		calcified rock crust	Pseudolithophyllum+	
Bryozoans	8		Blades	17	
encrusting gr	Schizoporella+		eel grass	Zostera marina	
kelp lace	Membranipora sp		sea lettuce gr	Ulva+	F
Bivalves	7+		green string lettuce	Enteromorpha sp	
pacific blue mussel	Mytilus edulis	V F	rock weed gr	Fucus+	VVV F
Pacific oyster	Crassostrea gigas		purple laver	Porphyra sp	
Chitons	14		turkish washcloth gr	Mastocarpus+	V F
mossy	Mopalia muscosa		tangle incl sugar kelp	Laminaria sp	
lined gr	Tonkinella lineata+		cauliflower gr	Leathesia+	
Nudibranchs & Sea Slugs	25				
barnacle	Onchidaris blanfordiana		Filaments & Fuzzes	17	
Limpets	9		green luff	Cladophora sp	
shield/mask/plate gr	Tectura sp, L. pella	V A	green rope/filament gr	Acrusiphonia+	
ribbed	Lottia digitalis		fuzzy gr	Anthamnioclella+	
Snails	10			Caulacanthus	
choked periwinkle	Littorina scutellata	V F	sea moss	Endocladia muricata	
silk periwinkle	Littorina alkana		spaghetti gr	Gracilaria+	
dogwinkle gr	Nucella sp		Branched	8	
			dead man's fingers	Halosaccion glandiforma	
Barnacles	4		japanese weed	Sargassum muticum	

Site name:

Courten Island

Date (Y/M/D):

06/06/27

Quadrat Height (m):

2.5m

Data collection by:

Bill Craig & SCMCircle 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>)		0-25
SEAWEED			lined (<i>Halplanelia</i>)		
Crusts		0-25	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>)		25-50
green tuft (<i>Cladophora</i>)			Snails		
Blade			check periwinkle (<i>L. scutulata</i>)		< 100
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>Onchidaris</i>)		
rockweed (<i>Fucus</i>)		0-25	Bivalves		
turk washcloth (<i>Mastocarpus</i>)		0-25	pacific blue mussel (<i>Mytilus</i>)		0-25
sea cauliflower (<i>Leathesia</i>)			pacific oyster (<i>Crassostrea</i>)		
Branched			Barnacles		> 100
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

Site name: Coulter Island Date (Y/M/D): 07/08/10

Quadrat Height (m): 2.5

Data collection by: Bill & Judith

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]

Quadrat Height (m): 2.5

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	11		Anemones		
shell			aggregate anemone (<i>Anthopleura</i>)		
SEAWEED			lined anemone (<i>Haliplanella</i>)		
Crusts			Tube Worms		
general algal crust group	11	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</i> spp.)			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</i> spp.)	11 11 11 11	25-50	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>)	11 11 1	25-50
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		

2.5

S/M.

1345 4/24/44

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

SPECIES	# INTERSECTS	est. total	SPECIES	# INTERSECTS	est. total
SUBSTRATE			INVERTEBRATES		
rock	1 1 1		Anemones		
shell			aggregate anemone (<i>Anthopleura</i>)		0-25
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		50-75
green rope (<i>Acrosiphonia</i>)			ribbed limpet (<i>Lottia digitalis</i>)		
green tuft (<i>Cladophora</i>)			Snails		
Blade			checkered periwinkle (<i>L. scutulata</i>)		1-25
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>)	1 1 1	0-25	Bivalves		
turk washcloth (<i>Mastocarpus</i>)		0-25	pacific blue mussel (<i>Mytilus</i>)		0-25
sea cauliflower (<i>Leathesia</i>)			pacific oyster (<i>Crassostrea</i>)		
Branched			Barnacles		
black larch (<i>Neorhodomeia</i>)			acorn barnacle group (<i>Balanus</i>)	1 1 1	>100 with spat & small juv.
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):

2014/06/12

Quadrat Height (m):

2.5

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

SPECIES	# INTERSECTS	est. total	SPECIES	# INTERSECTS	est. total
SUBSTRATE			INVERTEBRATES		
rock	1		Anemones		
shell			aggregate anemone (<i>Anthopleura</i>)	1	32x
SEAWEED			lined anemone (<i>Haliplanella</i>)		
Crusts		0-25	Tube Worms		
general algal crust group			general tube worm group		
Filaments/ Fuzz/ Tuft			Chitons		
filamentous-green group			general chiton group		1x
red filamentous group			Limpets		
red fuzz (<i>Caulacanthus</i>)			general limpet group	1	>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>)		>100
sea lettuce (<i>Ulva</i> spp.)	1	0-25	sitka periwinkle (<i>L. sitkana</i>)		
green ribbon (<i>Ulva intestinalis</i>)	1	0-25	Nudibranchs		
purple laver (<i>Porphyra</i>)	1	0-25	barnacle nudibanch (<i>Onchidoris</i>)		
rockweed (<i>Fucus</i> spp.)	1	50%	Bivalves		
turk washcloth (<i>Mastocarpus</i>)	1	0-25	pacific blue mussel (<i>Mytilus</i>)	1	75-100
sea cauliflower (<i>Leathesia</i>)			pacific oyster (<i>Crassostrea</i>)		
Branched			Barnacles		
black larch (<i>Neorhodomela</i>)			acorn barnacle group (<i>Balanus</i>)	1	>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>)		1x
Other			Sea Stars		
			ochre star (<i>Pisaster</i>)		
			Other		

Site name: Coulter Island Date (Y/M/D): 2020/06/04 Quadrat Height (m): 2.5Data 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			Anemones		
shell			aggregate anemone (<i>Anthopleura</i>)		25-50
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		0-25	Limpets		
red fuzz (<i>Caulacanthus</i>)		0-25	general limpet group		25-50
green rope (<i>Acrosiphonia</i>)			ribbed limpet (<i>Lottia digitalis</i>)		
green tuft (<i>Cladophora</i>)			Snails		
Blade			checkered periwinkle (<i>L. scutulata</i>)		1-25
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>)		0-25	barnacle nudibanch (<i>Onchidoris</i>)		
rockweed (<i>Fucus spp.</i>)		25-50	Bivalves		
turk washcloth (<i>Mastocarpus</i>)		0-25	pacific blue mussel (<i>Mytilus</i>)		75-100
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		
			NEMERTINE WORM		1