

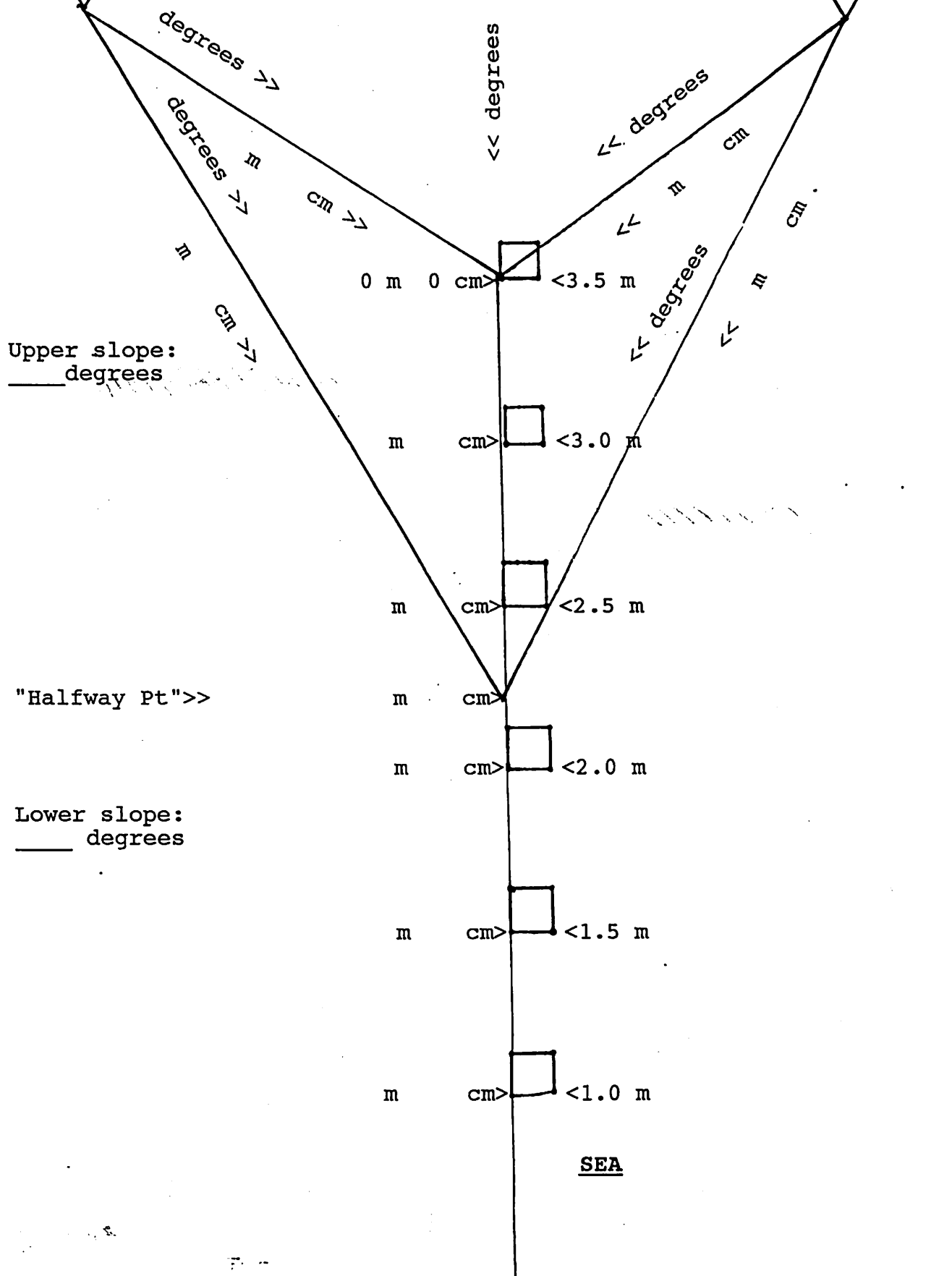
STATION ____/9____year; TRANSECT ____.

Khoyatan

LAND

Left Landmark

Right Landmark



ROCKY SHORE QUADRAT STUDIES: PRIMARY QUADRAT FORM

Khoyatan Marine Laboratory

Station: 12 /97 yr.; Transect Letter: B; Height 2.0 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		C
sand			mask limpet		
mud			plate limpet		
SEAWEED CRUSTS			tiny limpet		
green crust			SNAILS		
brown crust	✓✓	C	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	✓ form tight flow mat between fucns.	C
purple tissue			rectangle clam		
shiny blade			CRUSTACEANS		
			common barnacle	✓✓✓✓✓	C
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			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	✓ as in f.5. Ceramium sp.	
whitetube worm			OTHER		
CHITONS		low	UNIO MAT	✓	F
mossy chiton			GIGARTINA	✓✓✓	C juv.
lined chiton			✓ LACUNA P.	yes.	C juv. found under fucns

Station: 12/98 yr.; Transect Letter: B; Height 20 meters;Circle 1+: Bedrock 25+cm 6-25cm 4mm-6cm 2-4mm Boulder; Cobble; Pebble; Gravel; Shell; Sand; Muddy-sand; MudQuadrat 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 (small)
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		F (30+)
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	✓	F (4)	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					

Station: 12 / 99 yr.; Transect Letter: B; Height 2.0 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]			[cover]			[abundance]		
"Species"	No. intersects	1,2,F,C	"Species"	No. intersects	1,2,F,C	"Species"	No. intersects	1,2,F,C	"Species"	No. intersects	1,2,F,C
1	1	1	1	1	1	1	1	1	1	1	1
2	1	1	2	1	1	2	1	1	2	1	1
3	1	1	3	1	1	3	1	1	3	1	1
4	1	1	4	1	1	4	1	1	4	1	1
5	1	1	5	1	1	5	1	1	5	1	1
6	1	1	6	1	1	6	1	1	6	1	1
7	1	1	7	1	1	7	1	1	7	1	1
8	1	1	8	1	1	8	1	1	8	1	1
9	1	1	9	1	1	9	1	1	9	1	1
10	1	1	10	1	1	10	1	1	10	1	1
11	1	1	11	1	1	11	1	1	11	1	1
12	1	1	12	1	1	12	1	1	12	1	1
13	1	1	13	1	1	13	1	1	13	1	1
14	1	1	14	1	1	14	1	1	14	1	1
15	1	1	15	1	1	15	1	1	15	1	1
16	1	1	16	1	1	16	1	1	16	1	1
17	1	1	17	1	1	17	1	1	17	1	1
18	1	1	18	1	1	18	1	1	18	1	1
19	1	1	19	1	1	19	1	1	19	1	1
20	1	1	20	1	1	20	1	1	20	1	1
21	1	1	21	1	1	21	1	1	21	1	1
22	1	1	22	1	1	22	1	1	22	1	1
23	1	1	23	1	1	23	1	1	23	1	1
24	1	1	24	1	1	24	1	1	24	1	1
25	1	1	25	1	1	25	1	1	25	1	1
26	1	1	26	1	1	26	1	1	26	1	1
27	1	1	27	1	1	27	1	1	27	1	1
28	1	1	28	1	1	28	1	1	28	1	1
29	1	1	29	1	1	29	1	1	29	1	1
30	1	1	30	1	1	30	1	1	30	1	1
31	1	1	31	1	1	31	1	1	31	1	1
32	1	1	32	1	1	32	1	1	32	1	1
33	1	1	33	1	1	33	1	1	33	1	1
34	1	1	34	1	1	34	1	1	34	1	1
35	1	1	35	1	1	35	1	1	35	1	1
36	1	1	36	1	1	36	1	1	36	1	1
37	1	1	37	1	1	37	1	1	37	1	1
38	1	1	38	1	1	38	1	1	38	1	1
39	1	1	39	1	1	39	1	1	39	1	1
40	1	1	40	1	1	40	1	1	40	1	1
41	1	1	41	1	1	41	1	1	41	1	1
42	1	1	42	1	1	42					

[illegible]

ROCKY SHORE QUADRAT STUDIES: PRIMARY QUADRAT FORM

Khoyatan Marine Laboratory

Station: 12 ~~2009~~ yr.; Transect Letter: B; Height 2.0 meters;

Circle 1+: Bedrock; Boulder; Cobbles; Pebbles; 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+

"Species"	[cover]		[abundance]		"Species"	[cover]		[abundance]	
	No. intersects	1,2,F,C	No. intersects	1,2,F,C		No. intersects	1,2,F,C	No. intersects	1,2,F,C
1					1				
2					2				
3					3				
4					4				
5					5				
6					6				
7					7				
8					8				
9					9				
10					10				
11					11				
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57					57				
58					58				
59					59				
60					60				
61					61				
62					62				
63					6				

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 wrinkle ✓	com
black crust		spiral wrinkle	
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	FEW
purple tissue		rectangle clam	
shiny blade		CRUSTACEANS	
tancauliflower		common barnacle ✓✓✓✓✓✓✓✓	com
yellow sacs		brown barnacle	
blacknob blade		thatcbarnacle	
black brush		pill bug	
rock weed ✓✓✓✓✓✓✓✓✓✓	COM	seaweed isopod	
japanese weed		hermit crab	
acid kelp		purple crab	ONE
RR strap		drab crab	
SPONGES		SEA URCHINS	
yellow sponge		green urchin	
purple sponge		SEA STARS	
ANEMONES		purp-brwn star	ONE
green anemone		mottled star	
white/tan anem		6 armed star	
red-green anem ✓✓	FEW	leather star	
WORMS		blood star	
pale ribbonworm		sunflower star	
mussel worm		SEA SQUIRTS	
whitetube worm		red sea squirt	
CHITONS		OTHER	
moosy chiton		MASTOCARPUS ✓✓	FEW
lined chiton			

A: ELEGANT.

Khoyatan Marine Laboratory

Station: 1201 yr.; Transect Letter: B; Height 2.0 meters;

Circle 1+: Bedrock; Boulder; 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] [cover] [abundance]

"Species"	[cover] No. intersects	[abundance] 1,2,F,C	"Species"	[cover] No. intersects	[abundance] 1,2,F,C
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SUBSTRATE	No. intersects	Species	No. intersects
rock	✓✓	LIMPETS	
shell		ribbed limpet	
sand		shield limpet	J COM
mud		mask limpet	
SEAWEED CRUSTS		plate limpet	
green crust		tiny limpet	
brown crust	✓✓	SNAILS	
black crust		checked winkle	FEW
pink crust		spiral winkle	
FILAMENTS		frilled whelk	
Brown beard		banded whelk	
green filament		dire whelk	
sausage links		leafyhornmouth	
red sea hair		SEA SLUGS	
LEAFY		yellow seaslug	
sea lettuce		brown seaslug	
green ribbon	✓✓✓	BIVALVES	
purple tissue		blue mussel	
shiny blade		rectangle clam	
		CRUSTACEANS	
tancauliflower		common barnacle	COM
yellow sacs		brown barnacle	
blacknob blade		thatch barnacle	
black brush		pill bug	
rock weed		seaweed isopod	
japanese weed		hermit crab	
acid kelp		purple crab	
RR strap		drab crab	
SPONGES		SEA URCHINS	
yellow sponge		green urchin	
purple sponge		SEA STARS	
ANEMONES		purp-brwn star	
green anemone		mottled star	
white/tan anem		6 armed star	
red-green anem		leather star	
WORMS		blood star	
pale ribbonworm		sunflower star	
mussel worm		SEA SQUIRTS	
whitetube worm		red sea squirt	
CHITONS		OTHER	
mossy chiton		MASTOCARPUS	✓ FEW
lined chiton			

ROCKY SHORE QUADRAT STUDIES: PRIMARY QUADRAT FORM

Khoyatan Marine Laboratory

Station: 12 02A yr.; Transect Letter: B; Height 2.0 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	1	A
sand			mask limpet		
mud			plate limpet		ONE
SEAWEED CRUSTS			tiny limpet		
green crust			SNAILS		
brown crust		A	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		
purple tissue			rectangle clam		
shiny blade			CRUSTACEANS		
			commonbarnacle		A
tancauliflower			brown barnacle		
yellow sacs			thatchbarnacle		
blacknob blade			pill bug		
black brush			seaweed isopod	100%	1
rock weed		A	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	1	4.3	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			MASTOCARPUS	1	A
mossy chiton					
lined chiton					

Georgia Strait Alliance Quadrat Studies

Primary Quadrat Form

12 Site Code: CC1 Date (Y/M/D): 10/08/03 Repetition: Quadrat Height: 2.0 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	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	Apilidium californicum	
lined	Haliplanella		lined compound gr	Botryllus+	
Free Range Worms	7 ribbon + others		Solitary Tunicates	10	
polychaet flatworm gr	Kaburako+		broadbase squirt	Cnemidocarpa finmarkiensis	
primitive ribbon	Tubulanus polymorphus		wrinkled squirt	Pyura haurator	
clam worm gr	Nereis+		Crusta	3	
scale worm gr	Arcanoe+		algal crust	Ralfsia+	
Tube Worms	14		calcified rock crust	Pseudolithophyllum+	
calcareous tube	Serpula vermicularis		Blades	17	
spiral tube	Sipholia sp		eel grass	Zostera marina	
Bryozoans	8		sea lettuce gr.	Ulva+	
encrusting gr	Schizoporella+		green string lettuce	Enteromorpha sp	
kelp lace	Membranipora sp		rock weed gr.	Fucus+	
bivalves	7+		purple laver	Porphyra sp	
pacific blue mussel	Mytilus edulis		turkish washcloth gr.	Mastocarpus+	
Pacific oyster	Crassostrea gigas		tangle incl sugar kelp	Laminaria sp	
Chitons	14		cauliflower gr.	Leathesia+	
moosey	Mopalia mucosa		Filaments & Fuzzes	17	
lined gr	Tonicella lineata+		green tuft	Cladophora sp	
Nudibranchs & Sea Slugs	25		green rope/filament gr.	Acruciphonia+	
barnacle	Onchidoris bilamellata		fuzzy gr.	Antithamnionella+	
Limpets	9		spaghetti gr	Caulacanthus	
shield/mask/plate gr	Tectura sp. l. pella	smaller than shielded barnacle	sea moss	Endocladia muricata	
ribbed	Lottia digitalis		spaghetti gr.	Gracilaria+	
Snails	10		Branched	8	
checkered periwinkle	Littorina scutulata		dead man's fingers	Halosaccion glandiforme	
sitka periwinkle	Littorina sitkana		japanese weed	Sargassum muticum	
dogwinkle gr	Nucella sp		string acid hair	Dosmarelia sp	
Barnacles	4		bleach weed	Prionitis sp	
acorn barnacle	Balanus glandula		coral seaweed gr.	Corallina+	
brown barnacle	Chthamalus dalli		bushy red gr.	Ceramium	
thatched barnacle	Semibalanus carnosus			Gelidium	
Crabs & Hermits	21 & 4			Neorhodomela+	
hermit crabs	Pagurus sp		Mat		
purple shore crab	Hemigrapsus nudus				
airy shore crab	Hemigrapsus oregonensis				

Georgia Strait Alliance Quadrat Studies

Primary Quadrat Form

 Site Code: CC1 Date (Y/M/D): 04/06/17 Repetition: 1 Quadrat Height: 200 m Quadrat # 1

 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	Gnathosphaeroma+	
mud			shrimplike gr	var tiny amphipods	
Sponges	14		red velvet mille	Neomolgus 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	Aploidium californicum	
lined	Haliplanella		lined compound gr	Botryllus+	
Free Range Worms	7 ribbon + others		Solitary Tunicates	10	
polychaete flatworm gr	Kaburaka+		broadhose squirt	Cnemidocarpa finmarkiensis	
primitive ribbon	Tubulanus polymorphus		wrinkled squirt	Pyura haustor	
clam worm gr	Nereis+		Crusts	3	
scale worm gr	Aricidea+		algal crust	Ralfsia+	
Tube Worms	14		calcified rock crust	Pseudolithophyllum+	
calcareous tube	Serpula vermicularis		Blades	17	
spiral tube	Spiroble sp		eel grass	Zostera marina	
Bryozoans	8		sea lettuce gr.	Ulva+	
encrusting gr	Schizoporella+		green string lettuce	Enteromorpha sp	
kelp lace	Membranipora sp		rock weed gr.	Fucus+	
Bivalves	7+		purple laver	Porphyra sp	
pacific blue mussel	Mytilus edulis		turkish washcloth gr.	Mastocarpus+	
Pacific oyster	Crassostrea gigas		tangle incl sugar kelp	Laminaria sp	
Chitons	14		cauliflower gr.	Leathesia+	
moosey	Mopalia mucosa		Filaments & Fuzzes	17	
lined gr	Tonkalia lineata+		green tuft	Cladophora sp	
Nudibranchs & Sea Slugs	25		green rope/filament gr.	Acrisiphonia+	
barnacle	Onchidaris bilamellata		fuzzy gr.	Anthamionella+	
Limpets	9		Caulacanthus		
shield/mask/plate gr	Tectaria sp. l. pella		sea moss	Endocladia muricata	
ribbed	Lottia digitalis		spaghetti gr.	Gracilaria+	
Snails	10		Branched	8	
choked periwinkle	Littorina scutulata		dead man's fingers	Halosaccion glandiforme	
sitka periwinkle	Littorina sitkana		japanese weed	Sargassum muticum	
dogwinkle gr	Nucella sp		string acid hair	Dosmarestia sp	
Barnacles	4		bleach weed	Prionitis sp	
acorn barnacle	Balanus glandula		coral seaweed gr.	Corallina+	
brown barnacle	Chthamalus dalli		bushy red gr.	Ceramium	
thatched barnacle	Semibalanus cariosus			Gelidium	
Crabs & Hermits	21 & 4			Neorhodomela+	
hermit crabs	Pagurus sp		Mat		
purple shore crab	Hemigrapsus nudus				
hairy shore crab	Hemigrapsus oregonensis				

Georgia Strait Alliance Quadrat Studies

Cortes Island Foreshore Monitoring Primary Quadrat Form

Site name:

Coulter Island

Date (Y/M/D):

08/06/27

Quadrat Height (m):

2.0

Data collection by:

Bill Crago & 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 0-25 / 25-50 / 50-75 / 75-100 / >100

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

Cortes Island Foreshore Monitoring Primary Quadrat Form

Data collection by: Bill Gao & SCM.

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): 2.0

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			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>)		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>)		25-50
sea brush (<i>Odonthalla</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		

COUNTRY ISLAND

Date (Y/M/D):

2010/07/11

Quadrat Height (m):

Data collection by:

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 / >

SPECIES	# INTERSECTS	est. total	SPECIES	# INTERSECTS	est.
SUBSTRATE			INVERTEBRATES		
rock	III		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		2
green rope (<i>Acrosiphonia</i>)			ribbed limpet (<i>Lottia digitalis</i>)		
green tuft (<i>Cladophora</i>)			Snails		
Blade			checkered periwinkle (<i>L. scutulata</i>)		0
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 nudibranch (<i>Onchidoris</i>)		
rockweed (<i>Fucus spp.</i>)	IIII	25-50	Bivalves		
turk washcloth (<i>Mastocarpus</i>)		0-25	pacific blue mussel (<i>Mytilus</i>)	1	
sea cauliflower (<i>Leathesia</i>)			pacific oyster (<i>Crassostrea</i>)		
Branched			Barnacles		
black larch (<i>Necorhodomela</i>)			acorn barnacle group (<i>Balanus</i>)	IIII	>
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		0
Mat			seaweed isopod (<i>Idotea</i>)		
a.			Crabs		
b.			hermit crabs (<i>Pagurus</i>)		
c.			shore crab group (<i>Hemigrapsus</i>)		1
Other			Sea Stars		
			ochre star (<i>Pisaster</i>)		
			Other		

Data collection by: 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>)			general limpet group		75-100
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 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>)		75-100	Bivalves		
turk washcloth (<i>Mastocarpus</i>)		0-25	pacific blue mussel (<i>Mytilus</i>)		>100
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		
<i>Nucella lamellosa</i>		6x	ochre star (<i>Pisaster</i>)		
<i>whelk/snail</i>			Other		

Cortes Island Foreshore Monitoring Primary Quadrat Form

Quadrat Height (m): 2.0

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		25-50	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>)			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>)		>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		