

Table S1. Total abundance of macrofauna individuals from each of 120 families identified from all four locations along the southwestern coast of South Africa

Phyla	Major 'Taxa'	Families	Gansbaai	Miller's Point	Cosy Beach	St Helena Bay
Echinodermata	Asteroidea	Asterinidae		3		
		Echinasteridae	1			
	Crinoidea	Tropiometridae		2		
	Echinoidea	Parechinidae	3	13	2	81
	Holothuroidea	Cucumariidae	1	1	7	2
		Ophiuroidea	Amphiuridae	4	120	261
		Ophiactidae		2	1	
		Ophiocomidae			1	
		Ophionereididae		1		
		Ophiodermatidae	23			
		Ophiothricidae		5		22
Arthropoda	Amphipoda	Acanthonotozomatidae				3
		Aeginellidae	9			
		Ampeliscadae	10	87	131	10
		Amphilochidae		1		
		Amphipod Family 1		35		
		Amphipod Family 2	2			
		Ampithoidae		50		
		Caprellidae	4	8	11	104
		Colomastigidae				2
		Corophiidae	126	84	7	53
		Dexaminidae	3		1	26
Eusiridae		19		13		

Phyla	Major 'Taxa'	Families	Gansbaai	Miller's Point	Cosy Beach	St Helena Bay
		Gammaridae	326	52	62	1833
		Leucothidae				2
		Lysianassidae	24		26	23
		Oedicerotidae				1
		Phoxocephalidae			12	
		Phtisicidae		26	62	
		Podoceridae	10	2		296
		Pontogeniidae				6
		Sebidae		3		
		Synopiidae	2			2
		Talitridae		15		1
		Temnophliantidae		10	5	1
	Decapoda	Pilumnidae	29	38		
		Plagusiidae	2		3	
		Pilumnoididae				2
		Diogenidae		11		
		Palinuridae		1		
		Alpheidae			3	
	Balanomorpha	Balanidae				2
	Cumacea	Bodotriidae	8			3
	Leptostraca	Nebaliidae				6
	Pycnogonoidea	Ammotheidae	2		7	
	Isopoda	Anthuridae	16	30	11	
		Cirolanidae		4	7	
		Idoteidae		1		2

Phyla	Major 'Taxa'	Families	Gansbaai	Miller's Point	Cosy Beach	St Helena Bay
Mollusca		Isopod Family 1			1	
		Janiridae		5	1	29
		Joeropsididae	4	2		64
		Limnoriidae	3	8	3	81
		Sphaeromatidae	16	34	30	50
		Tanaidacea				
		Tanaididae	13	70	19	368
		Apseudidae		19		
		Tanaid Family 1	1	12		
		Tanaid Family 2		2		
		Tanaid Family 3	1			
		Ostracoda				
		Ostracoda Family 1	2	8	15	88
		Bivalvia				
		Lasaeidae	1			174
		Mytilidae	6		91	1027
		Pectinidae			3	
		Tellinidae	7			
		Veneridae	1		1	
		Polyplacophora				
	Chitonidae	7	1			
	Ischnochitonidae			8		
	Gastropoda					
	Dorididae				2	
	Dotidae				3	
	Limapontiidae	1				
	Buccinoidea		1	2		
	Clavatulidae			1		
	Conidae		1			
	Fissurellidae	2		7		

Phyla	Major 'Taxa'	Families	Gansbaai	Miller's Point	Cosy Beach	St Helena Bay
		Littorinidae		11	6	
		Marginellidae	1	7		
		Muricidae			5	
		Nassariidae			1	
		Naticidae	3			
		Patellidae	3	5	5	
		Phasianellidae			1	
		Trochidae	3		2	
		Turbinidae		1		
Annelida	Polychaeta	Alciopidae				3
		Aphroditidae			3	
		Capitellidae				1
		Cirratulidae	27	11	1	23
		Eunicidae	15	36	31	10
		Flabelligeridae	5		7	
		Nereididae	66	39	187	173
		Orbiniidae	81		8	4
		Oweniidae	83		2	
		Phyllodocidae				5
		Polynoidae	10	30	12	5
		Sabellariidae	18	6	11	1
		Sabellidae	69	127	11	100
		Sigalionidae				2
		Spionidae				282
		Syllidae	326	145	200	39

Phyla	Major 'Taxa'	Families	Gansbaai	Miller's Point	Cosy Beach	St Helena Bay
		Terebellidae	111	44	27	22
		Polychaete Family 1	27	110	78	5
		Polychaete Family 2	6	59	12	4
		Polychaete Family 3		13	6	
		Polychaete Family 4			10	2
		Polychaete Family 5				3
	Sipunculida	Golfingiidae	11			
	Hirudinea	Hirudinea Family 1	15			2
Platyhelminthes		Flatworm Family 1	1			2
		Flatworm Family 2				1
Nematoda		Nematode Family 1				39
		Nematode Family 2	4			
Cnidaria	Anthozoa	Actiniidae	1	4	1	
		Sagartiidae	1			
		Corallimorphidae			60	
		Anemone Family 1				37
		Anemone Family 2				22
TOTAL			1557	1438	1486	5261

Table S2. Species identified from different families found in holdfasts from four locations. With X denoting presence of species at locations and * denoting presence of family at each locations

Phyla	Major 'Taxa'	Families	Species	Gansbaai	Miller's Point	Cosy Beach	St Helena Bay	
Echinodermata	Asteroidea	Asterinidae	<i>Parvulastra exigua</i>		X			
		Echinasteridae	<i>Henricia ornata</i>	X				
	Crinoidea	Tropiometridae	<i>Tropiometra carinata</i>		X			
	Echinoidea	Parechinidae	<i>Parechinus angulosus</i>	X	X	X	X	
	Holothuroidea	Cucumariidae	<i>Pentacta doliolum</i>	X	X	X	X	
			<i>Amphiura (Amphiura) capensis</i>		X	X		
	Ophiuroidea	Amphiuridae	<i>Amphipholis squamata</i>	X	X	X	X	
			<i>Ophiactis carnea</i>		X	X		
			Ophiocomidae				*	
			Ophionereididae	<i>Ophionereis porrecta</i>		X		
			Ophiodermatidae		*			
			Ophiothricidae	<i>Ophiothrix fragilis</i>		X		X
								*
Arthropoda	Amphipoda	Acanthonotozomatidae					*	
		Aeginellidae		*				
		Ampeliscadae	<i>Ampelisca</i> sp.		X			
			<i>Ampelisca excavata</i>	X	X	X	X	
		Amphilochidae			*			
		Amphipod Family 1			*			
		Amphipod Family 2			*			
		Ampithoidae				*		
		Caprellidae	<i>Caprellina longicollis</i>					X
			<i>Caprella equilibra</i>	X	X	X	X	
Colomastigidae						*		

Phyla	Major 'Taxa'	Families	Species	Gansbaai	Miller's Point	Cosy Beach	St Helena Bay
		Corophiidae	<i>Chevalia aviculae</i>		X		X
			<i>Aora kergueleni</i>				X
			<i>Gammaropsis</i> sp.	X	X	X	X
		Dexaminidae		*		*	*
		Eusiridae			*		*
		Gammaridae	<i>Ceradocus (Denticeradocus) rubromaculatus</i>	X	X		*
			<i>Quadrimaera inaequipes</i>		X	X	X
			<i>Maera</i> spp.	X			X
		Leucothidae	<i>Leucothoe spinicarpa</i>				X
		Lysianassidae		*		*	*
		Oedicerotidae					*
		Phoxocephalidae				*	
		Phtisicidae			*	*	
		Podoceridae	<i>Podocerus</i> spp.	X	X		X
		Pontogeniidae	<i>Paramoera capensis</i>				X
		Sebidae			*		
		Synopiidae		*			*
		Talitridae			*		*
		Temnophliantidae	<i>Temnophilias capensis</i>		X	X	X
	Decapoda	Pilumnidae	<i>Pilumnus minutus</i>	X	X		
		Plagusiidae	<i>Guinusia chabrus</i>	X		X	
		Pilumnoididae	<i>Pilumnoides rubus</i>				X
		Diogenidae	<i>Paguristes gamianus</i>		X		
		Palinuridae	<i>Jasus lalandii</i>		X		
		Alpheidae	<i>Synalpheus tumidomanus</i>			X	

Phyla	Major 'Taxa'	Families	Species	Gansbaai	Miller's Point	Cosy Beach	St Helena Bay
	Balanomorpha	Balanidae	<i>Notomegabalanus algicola</i>				X
	Cumacea	Bodotriidae	<i>Cumopsis africanum africanum</i>	X			X
	Leptostraca	Nebaliidae	<i>Nebalia capensis</i>				X
	Pycnogonidae	Ammotheidae	<i>Tanystylum brevipes</i>	X		X	
	Isopoda	Anthuridae	<i>Mesanthura catenula</i>	X			
<i>Mesanthura</i> sp. 1			X	X	X		
<i>Mesanthura</i> sp. 2				X	X		
<i>Mesanthura</i> sp. 3					X		
<i>Panathura serricauda</i>			X				
		Cirolanidae	<i>Natatolana virilis</i>		*	*	
<i>Politolana obtusispina</i>				X			
		Idoteidae	<i>Paridotea rubra</i>		X		X
		Isopod Family 1				*	
		Janiridae	<i>Neojaera pusilla</i>		X	X	X
		Joeropsididae	<i>Joeropsis stebbingi</i>	*	*		X
<i>Joeropsis</i> sp.							X
		Limnoriidae	<i>Limnoria quadripunctata</i>	X	X	X	X
		Sphaeromatidae	<i>Cymodocella pustulata</i>	X	*	X	X
<i>Parisocladus perforatus</i>			X				
<i>Dynamenella</i> sp.			X	X	X		
<i>Exosphaeroma porrectum</i>	X						
	Tanaidacea	Tanaididae	<i>Zeuxoides helleri</i>	X	X	X	X
		Apseudidae	<i>Apseudes minutus</i>		X		
		Tanaid Family 1		*	*		
		Tanaid Family 2			*		

Phyla	Major 'Taxa'	Families	Species	Gansbaai	Miller's Point	Cosy Beach	St Helena Bay	
		Tanaid Family 3		*				
Mollusca	Ostracoda	Ostracoda Family 1		X	X	X	X	
	Bivalvia	Lasaeidae	<i>Tellimya trigona</i>	X			X	
		Mytilidae	<i>Mytilus galloprovincialis</i>					X
			<i>Aulacomya atra</i>	X		X	X	
			<i>Perna perna</i>	X		X	X	
		Pectinidae	<i>Talochlamys multistriata</i>			X		
		Tellinidae	<i>Homalina trilatera</i>	X				
		Veneridae	<i>Venerupis corrugata</i>	X			X	
			<i>Pitar hebraeus</i>	X				
			<i>Venerupis</i> sp.					X
		Polyplacophora	Chitonidae	<i>Chiton</i> spp.	X	X		
	Ischnochitonidae		<i>Ischnochiton</i> sp.			X		
	Gastropoda	Dorididae	<i>Doris</i> sp.					X
		Dotidae	<i>Doto coronata</i>					X
		Limapontiidae	<i>Placida capensis</i>	X				
		Buccinoidea	<i>Burnupena</i> sp.			X	X	
		Clavatulidae	<i>Clionella rosaria</i>				X	
		Conidae	<i>Conus</i> sp.			X		
		Fissurellidae	<i>Fissurella mutabilis</i>					X
			<i>Dendrofissurella scutellum</i>	X				X
Littorinidae		<i>Afrolittorina</i> sp.			X	X		
Marginellidae		<i>Volvarina zonata</i>	X		X			
	<i>Prunum capense</i>			X				
	<i>Volvarina</i> sp.			X				

Phyla	Major 'Taxa'	Families	Species	Gansbaai	Miller's Point	Cosy Beach	St Helena Bay	
Annelida	Polychaeta	Muricidae	<i>Nucella</i> sp.			X		
			<i>Mancinella</i> sp.			X		
		Nassariidae	<i>Bullia</i> sp.				X	
		Naticidae	<i>Tectonatica</i> sp.	X				
		Patellidae	<i>Helcion</i> sp.	X	X	X		
		Phasianellidae	<i>Tricolia capensis</i>				X	
		Trochidae	<i>Oxystele</i> sp.				X	
			<i>Gibbula multicolor</i>	X				
		Turbinidae	<i>Turbo cidaris</i>			X		
		Alciopidae						*
		Aphroditidae					*	
		Capitellidae						*
		Cirratulidae			*	*	*	*
		Eunicidae			*	*	*	*
		Flabelligeridae			*		*	
		Nereididae			*	*	*	*
		Orbiniidae			*		*	*
		Oweniidae			*		*	
		Phyllodocidae						*
		Polynoidae	<i>Lepidonotus</i> sp.		X	X	X	X
		Sabellariidae	<i>Gunnarea gaimardi</i>		X	X	X	X
		Sabellidae			*	*	*	*
		Sigalionidae						*
Spionidae						*		
Syllidae			*	*	*	*		

Phyla	Major 'Taxa'	Families	Species	Gansbaai	Miller's Point	Cosy Beach	St Helena Bay
		Terebellidae		*	*	*	*
		Polychaete Family 1		*	*	*	*
		Polychaete Family 2		*	*	*	*
		Polychaete Family 3			*	*	
		Polychaete Family 4				*	*
		Polychaete Family 5					*
		Golfingiidae		*			
		Hirudinea Family 1		*			*
Platyhelminthes		Flatworm Family 1		*			*
		Flatworm Family 2					*
Nematoda		Nematode Family 1					*
		Nematode Family 2		*			
Cnidaria	Anthozoa	Actiniidae	<i>Pseudactinia flagellifera</i>		X	X	
			<i>Anthostella</i> sp.	X	X		
		Sagartiidae	<i>Anthothoe chilensis</i>	X			
		Corallimorphidae	<i>Corynactis annulata</i>			X	
		Anemone Family 1					*
		Anemone Family 2					*
	Hydrozoa	Aglapheniidae	<i>Aglao phenia pluma</i>				X
Porifera	Demospongiae	Chalinidae	<i>Haliclona</i> sp.				X
		Callyspongiidae	<i>Callyspongia</i> sp.				X
		Coelosphaeridae	<i>Coelospharea</i> sp.	X			
Bryozoa		Phidoloporidae	<i>Schizoretepora tessellata</i>				X