

Detached aquaculture buoys in the SE Pacific: potential dispersal vehicles for associated organisms

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Appendix 1. Taxa found on 22 detached buoys sampled freely floating in the Bay System of Coquimbo and 18 anchored buoys from the Bay of Tongoy. Frequency of occurrence of each species on the buoys and the semi-quantitative abundance range (minimum and maximum) are shown

Taxa	Detached buoys				Anchored buoys			
	Frequency of occurrence N	%	Range of abundance No. ind.	Wet weight (g)	Frequency of occurrence N	%	Range of abundance No. ind.	Wet weight (g)
Chlorophyta								
<i>Ulva</i> spp.	16	72.7	<0.9–99.9		18	100.0	<0.9–≥100.0	
<i>Codium fragile</i>	2	9.1	<0.9–99.9		6	33.3	<0.9–9.9	
<i>Bryopsis rhizophora</i>	1	4.5	<0.9		1	5.6	1.0–9.9	
Ochrophyta								
<i>Colpomenia</i> sp.					2	11.1	<0.9	
<i>Petalonia fasciata</i>					5	27.8	1.0–9.9	
<i>Scytosiphon lomentaria</i>	1	4.5	<0.9		2	11.1	<0.9	
<i>Hincksia granulosa</i>	3	13.6	<0.9–9.9		11	61.1	<0.9–9.9	
<i>Ectocarpus acutus</i>	2	9.1	<0.9–9.9		8	44.4	<0.9	
Rhodophyta								
<i>Polysiphonia mollis</i>	12	54.5	<0.9–9.9		9	50.0	<0.9–9.9	
<i>Gelidium</i> spp.	3	13.6	<0.9					
<i>Rhodymenia</i> sp.	1	4.5	<0.9					
<i>Antithamnion densum</i>	1	4.5	<0.9–9.9					
<i>Corallina officinalis</i>	1	4.5	<0.9					
Magnoliophyta								
<i>Heterozostera tasmanica</i>	1	4.5	1.0–9.9					
Porifera								
Porifera sp. A	7	31.8	<0.9		10	55.6	<0.9	
Porifera sp. B	1	4.5	<0.9					
Cnidaria								
Hydrozoa								
<i>Plumularia setacea</i>	11	50.0	<0.9–99.9		11	61.1	<0.9–99.9	
<i>Obelia</i> sp.	5	22.7	<0.9		7	38.9	<0.9–99.9	
Hydrozoa sp. A	1	4.5	<0.9		3	16.7	<0.9	
Hydrozoa sp. B	4	18.2	<0.9		8	44.4	<0.9	
Hydrozoa sp. C	1	4.5	<0.9					
Hydrozoa sp. D	1	4.5	1.0–9.9					
Hydrozoa sp. E	2	9.1	<0.9					
Hydrozoa sp. F					1	5.6	<0.9	
Anthozoa								
<i>Anthothoe chilensis</i>	1	4.5	11–100					
<i>Phymactis clematis</i>					1	5.6	≥100.0	

Appendix 1 (continued)

Taxa	Detached buoys				Anchored buoys			
	Frequency of occurrence		Range of abundance		Frequency of occurrence		Range of abundance	
	N	%	No. ind.	Wet weight (g)	N	%	No. ind.	Wet weight (g)
Platyhelminthes								
Turbellaria sp. A	8	36.4	1–100		5	27.8	1–10	
Turbellaria sp. B	3	13.6	1–10		3	16.7	1–10	
Turbellaria sp. C	2	9.1	1–10		2	11.1	1–10	
Turbellaria sp. D	4	18.2	1–10		1	5.6	1–10	
Turbellaria sp. E	1	4.5	1–10		1	5.6	1–10	
Nemertinea								
Nemertinea sp. A	8	36.4	1–100		6	33.3	1–100	
Nemertinea sp. B	9	40.9	1–100					
Nemertinea sp. C	2	9.1	1–10					
Annelida								
Polychaeta								
<i>Polycirrus</i> sp.	1	4.5	11–100		5	27.8	1–100	
<i>Amaeana</i> sp.	8	36.4	1–10					
<i>Romanchella pustulata</i>	3	13.6	1–100					
<i>Branchiomma</i> sp.	1	4.5	1–10					
<i>Dodecacera opulens</i>	1	4.5	1–10					
<i>Cirratulus</i> sp.	2	9.1	1–10					
Cirratulidae sp.	2	9.1	1–10		1	5.6	1–10	
Cirratulidae indet.	1	4.5	1–10					
<i>Paleanotus</i> sp.	1	4.5	1–10		8	44.4	1–10	
<i>Autolytus simplex</i>	5	22.7	1–10		6	33.3	1–10	
<i>Autolytus</i> sp. A	6	27.3	1–10		3	16.7	1–10	
<i>Typosyllis magdalena</i>	17	77.3	1–1000		16	88.9	101–1000	
<i>Odontosyllis</i> sp. A	1	4.5	1–10		10	55.6	1–100	
Syllidae sp. A	1	4.5	11–100		1	5.6	1–10	
<i>Platynereis australis</i>	5	22.7	1–100		1	5.6	1–10	
<i>Nereis grubei</i>	7	31.8	1–10		9	50.0	1–10	
<i>Pseudonereis gallapagensis</i>					1	5.6	1–10	
Polynoidae sp.	1	4.5	1–10					
<i>Halosydna patagonica</i>	3	13.6	1–100		3	16.7	1–10	
<i>Steggoa magalhaensis</i>	1	4.5	1–10		5	27.8	1–100	
Orbiniidae sp. A					1	5.6	1–10	
Arthropoda								
Pycnogonida								
Pycnogonida sp.	2	9.1	1–10					
Amphipoda								
<i>Jassa mamorata</i>	16	72.7	11–≥1001		6	33.3	1–1000	
<i>Jassa slatteryi</i>	13	59.1	11–≥1001		12	66.7	1–≥1001	
<i>Stenothoe</i> sp.	21	95.5	11–≥1001		18	100.0	11–≥1001	
<i>Paradexamine pacifica</i>	16	72.7	1–≥1001		14	77.8	1–1000	
<i>Aora</i> sp.	4	18.2	1–100		4	22.2	1–100	
<i>Erichthonius</i> sp.	7	31.8	1–100		17	94.4	1–≥1001	
<i>Elasmopus rapax</i>					2	11.1	1–1000	
<i>Hyale media</i>					15	83.3	1–1000	
Amphipoda sp.					1	5.6	1–10	
<i>Caprella equilibra</i>	5	22.7	1–100		3	16.7	11–100	
<i>Caprella verrucosa</i>	19	86.4	1–≥1001		18	100.0	11–≥1001	
<i>Caprella scaura</i>	17	77.3	1–≥1001		18	100.0	11–≥1001	
<i>Deutella venenosa</i>	10	45.5	1–1000		9	50.0	11–1000	
<i>Paracaprella pusilla</i>	1	4.5	1–10		1	5.6	11–100	
Tanaidacea								
<i>Zeuxo marmoratus</i>	19	86.4	1–1000		18	100.0	1–≥1001	
Isopoda								
Isopoda sp.	1	4.5	1–10					

Appendix 1 (continued)

Taxa	Detached buoys				Anchored buoys			
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	N	%	No. ind.	Wet weight (g)	N	%	No. ind.	Wet weight (g)
Decapoda								
<i>Pilumnoides perlatus</i>	18	81.8	1–1000		15	83.3	1–100	
<i>Pisoides edwardsi</i>	4	18.2	1–1000		1	5.6	1–10	
<i>Taliepus dentatus</i>	4	18.2	1–10		5	27.8	1–10	
<i>Haliscarcinus planatus</i>	3	13.6	1–100					
<i>Cancer setosus</i>	7	31.8	1–10					
<i>Leptodus tridentatus</i>					1	5.6	1–10	
<i>Acanthocycclus</i> sp.	4	18.2	1–100		5	27.8	1–100	
<i>Pachycheles</i> sp.	11	50.0	1–100		7	38.9	1–100	
<i>Allopetrolisthes angulosus</i>					1	5.6	1–10	
<i>Allopetrolisthes spinifrons</i>	9	40.9	1–100		10	55.6	1–100	
<i>Petrolisthes tuberculatus</i>	4	18.2	1–10		2	11.1	1–100	
<i>Liopetrolisthes mitra</i>	1	4.5	1–10		1	5.6	1–10	
<i>Synalpheus spinifrons</i>	3	13.6	1–100		2	11.1	1–10	
<i>Hippolyte</i> sp.	1	4.5	1–10					
Bresiliidae sp.?	1	4.5	1–10		1	5.6	1–10	
<i>Lysmata</i> sp.?	1	4.5	1–10					
<i>Latreutes antiborealis</i>	1	4.5	1–10					
Caridea sp.	1	4.5	1–10					
Pleocyemata sp.	1	4.5	1–10					
Cirripedia								
<i>Balanus laevis</i>	2	9.1	1–10	<0.9	3	16.7	1–10	<0.9
<i>Balanus flosculus</i>	3	13.6	1–10	<0.9				
<i>Austromegabalanus psittacus</i>	11	50.0	1–100	<0.9–≥100.0	15	83.3	1–1001	<0.9–≥100.0
<i>Lepas anatifera</i>	11	50.0	1–100	<0.9–≥100.0	9	50.0	1–10	<0.9–9.9
<i>Lepas australis</i>	1	4.5	1–10	<0.9	2	11.1	1–10	<0.9
<i>Lepas pectinata</i>	5	22.7	1–100	<0.9	5	27.8	1–10	<0.9
<i>Lepas</i> spp. recruit	10	45.5	1–1000	<0.9				
Cypris larvae	21	95.5	1–≥1001					
Insecta								
Insecta larvae	1	4.5	1–10		7	38.9	1–100	
Mollusca								
Gastropoda								
<i>Thecacera darwini</i>	7	31.8	1–100		3	16.7	1–10	
<i>Doto uva</i>	1	4.5	101–1000		4	22.2	1–100	
<i>Hancockia schoeferti</i>					2	11.1	1–10	
<i>Phidiana lottinii</i>	1	4.5	11–100					
<i>Platydorid</i> sp. A					1	5.6	1–10	
Nudibranchia indet.	1	4.5	1–10					
<i>Crucibulum</i> sp.	4	18.2	1–10					
<i>Crepidula</i> sp.	3	13.6	1–10		3	16.7	1–10	
<i>Fissurella cumingi</i>	1	4.5	1–10					
<i>Fissurella latimarginata</i>	2	9.1	1–10		1	5.6	1–10	
<i>Fissurella</i> sp. A.	1	4.5	1–10					
<i>Scurria viridula</i>	1	4.5	1–10					
<i>Scurria orbigny</i>					1	5.6	1–10	
<i>Siphonaria lessoni</i>					1	5.6	1–10	
<i>Concholepas concholepas</i>					2	11.1	1–10	
<i>Mitrella</i> sp.	2	9.1	1–100					
<i>Nassarius</i> sp.	2	9.1	1–10					
Nassariidae sp.	1	4.5	1–10					
<i>Prisogaster</i> sp.	1	4.5	1–10					

Appendix 1 (continued)

Taxa	Detached buoys				Anchored buoys			
	Frequency of occurrence		Range of abundance		Frequency of occurrence		Range of abundance	
	N	%	No. ind.	Wet weight (g)	N	%	No. ind.	Wet weight (g)
Bivalvia								
<i>Semimytilus algosus</i>	12	54.5	1–1000	<0.9–9.9	11	61.1	1–100	<0.9–≥100.0
<i>Brachidontes granulata</i>	7	31.8	1–100	<0.9	5	27.8	1–1000	<0.9–9.9
<i>Argopecten purpuratus</i>	7	31.8	1–100					
Polyplacophora								
<i>Chiton</i> sp.					1	5.6	1–10	
<i>Tonicia</i> sp.					2	11.1	1–10	
Echinodermata								
Asteroidea								
<i>Patiria chilensis</i>	10	45.5	1–100		1	5.6	1–10	
Echinoidea								
<i>Tetrapygus niger</i>	10	45.5	1–100		6	33.3	1–100	
Chordata								
Ascidiacea								
<i>Pyura chilensis</i>	14	63.6	1–100	<0.9–≥100.0	17	94.4	1–100	0.9–≥100.0
<i>Ciona intestinalis</i>	16	72.7	1–1000	<0.9–≥100.0	10	55.6	1–100	<0.9–99.9
<i>Diplosoma</i> sp.	9	40.9		<0.9	10	55.6		<0.9
Ectoprocta (Bryozoa)								
Gymnolaemata								
<i>Cryptosula pallasiana</i>	3	13.6		<0.9	3	16.7		<0.9
<i>Membranipora isabelleana</i>	4	18.2		<0.9–9.9	7	38.9		10.0–99.9
<i>Bugula neritina</i>	18	81.8		<0.9–≥100.0	12	66.7		<0.9–99.9
<i>Bugula flabellata</i>	13	59.1		<0.9–99.9	18	100.0		<0.9–99.9
Bryozoa sp. A	1	4.5		<0.9				
Bryozoa sp. B	1	4.5		<0.9				
Bryozoa sp. C	2	9.1		<0.9				
TAXONOMIC SOURCES								
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