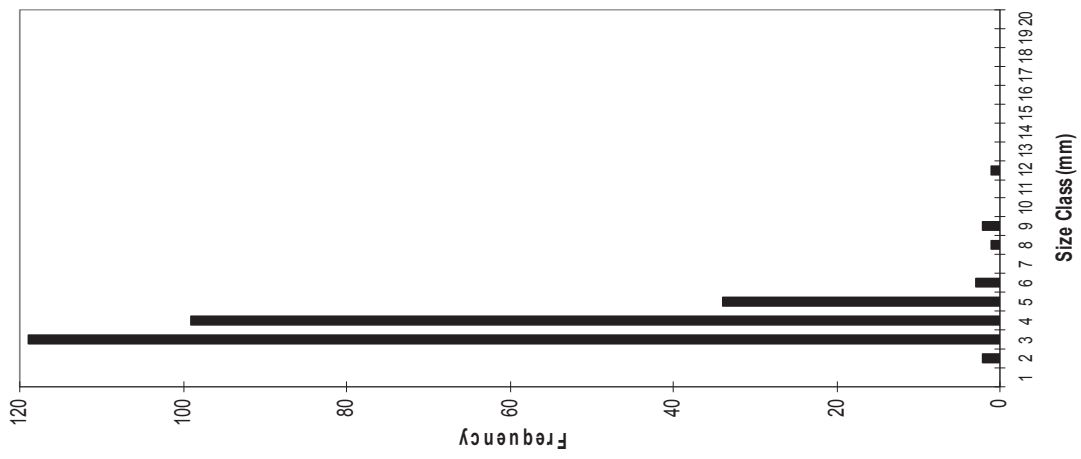
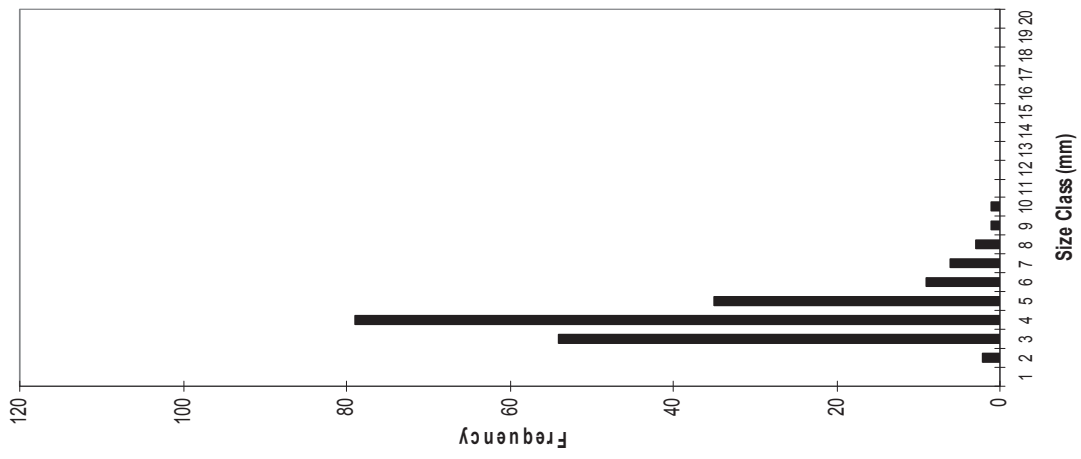


Figure A1. Size frequency distributions of *Pinctada margaritifera* spat per station (1 and 2) and replicate (A and B) collector, from February to June of 2007. Reprinted from Fairbairn (2009).

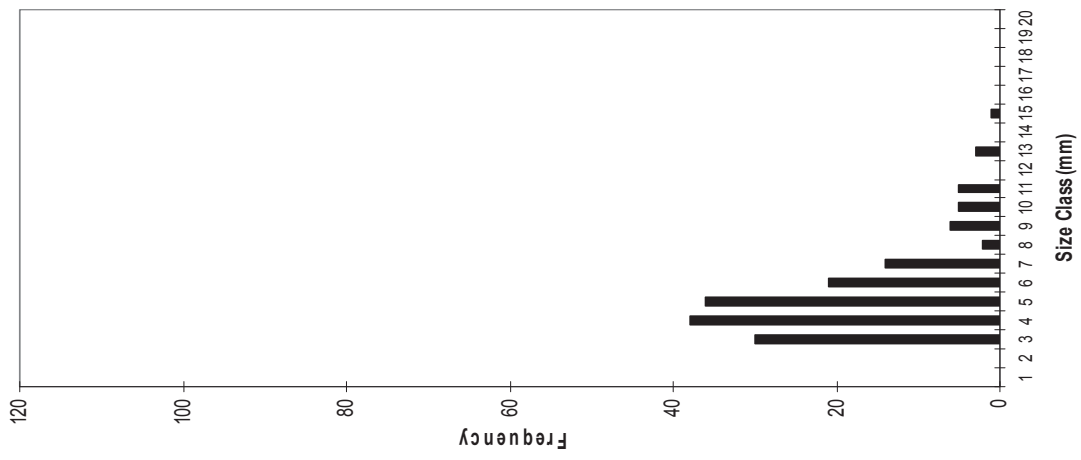
April 2B



April 2A



April 1B



April 1A

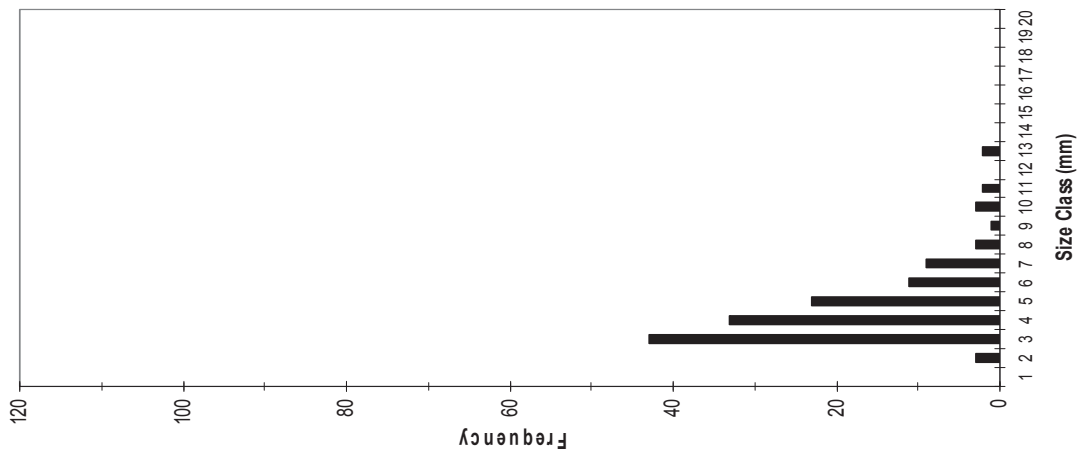


Figure 1A continued.

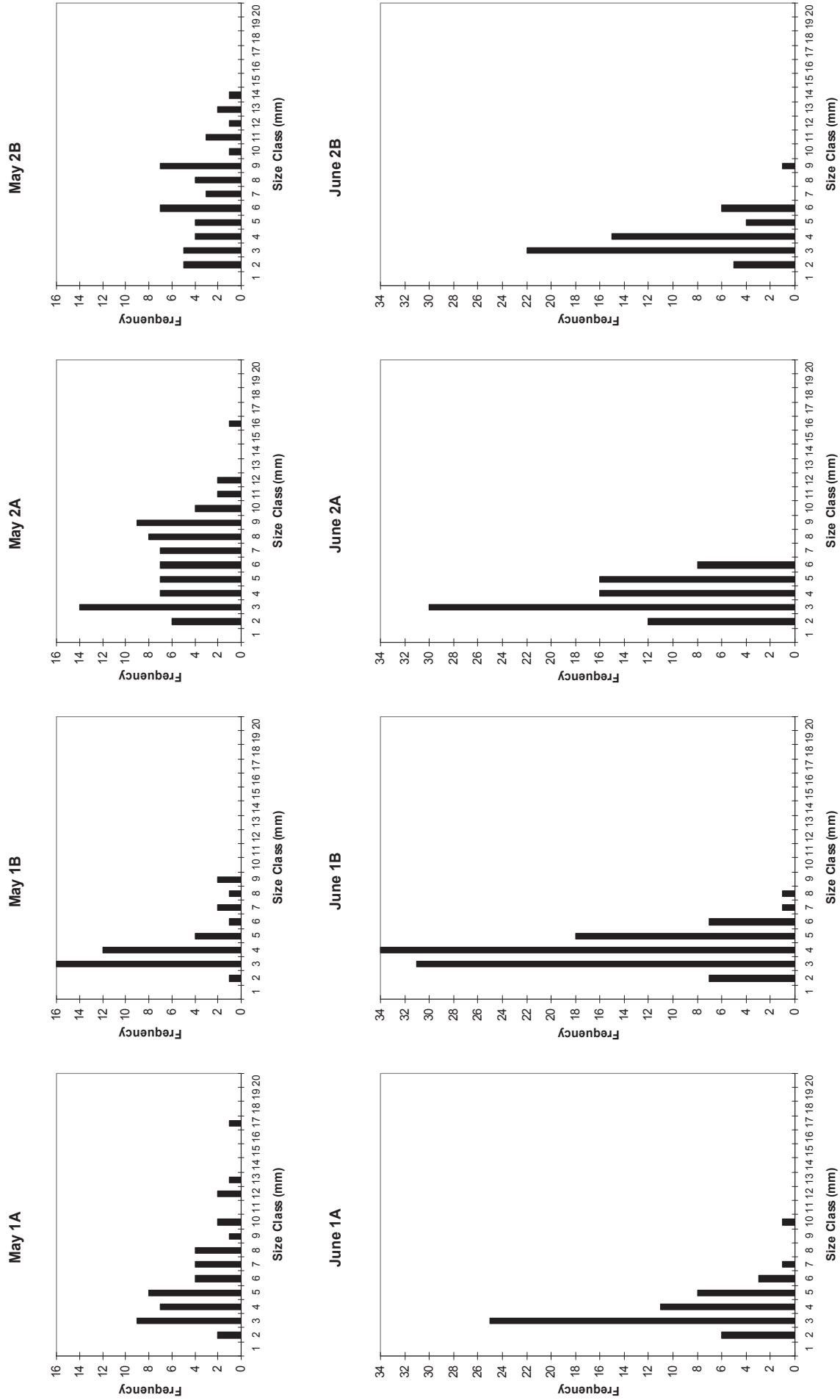


Figure A1 continued.

Table A3. Pair-wise F_{ST} matrix of pearl oyster juveniles from collectors at two sampling stations within the Takapoto lagoon over five months, based on 11 microsatellite loci. All replicates and stations are separate. F_{ST} values are below the diagonal, while probability values based on 3800 permutations are above the diagonal. Bold values are those significant at $\alpha = 0.05$. None were significant after correction for multiples comparisons.

	Feb1A	Feb1B	Feb2A	Feb2B	Mar1A	Mar1B	Mar2A	Mar2B	Apr1A	Apr1B	Apr2A	Apr2B	May1A	May1B	May2A	May2B	Jun1A	Jun1B	Jun2A	Jun2B
Feb 1A	0	0.8661	0.5124	0.6832	0.9818	0.7126	0.9824	0.4045	0.6016	0.6142	0.9958	0.6250	0.9905	0.9855	0.8511	0.8958	0.6124	0.7313	0.4068	0.8213
Feb 1B	-0.0095	0	0.0016	0.2158	0.0471	0.0008	0.8626	0.0558	0.1697	0.0668	0.1640	0.0697	0.3645	0.2524	0.2508	0.0771	0.0095	0.5758	0.0334	0.2071
Feb 2A	0.0008	0.0105	0	0.0300	0.0732	0.0811	0.1634	0.0261	0.0047	0.0068	0.0413	0.0900	0.0832	0.0111	0.0047	0.2337	0.0279	0.1450	0.1576	0.1155
Feb 2B	-0.0021	0.0034	0.0038	0	0.0961	0.1197	0.7482	0.1482	0.4608	0.2942	0.1342	0.5271	0.0866	0.2966	0.2829	0.3961	0.6368	0.2526	0.2918	0.3858
Mar 1A	-0.0135	-0.0010	0.0091	0.0009	0	0.1047	0.8276	0.2411	0.8068	0.5734	0.4134	0.4311	0.2974	0.2582	0.3216	0.6463	0.0626	0.3347	0.2250	0.1713
Mar 1B	-0.0053	0.0040	0.0062	0.0005	-0.0017	0	0.6613	0.2479	0.1163	0.0155	0.1782	0.2121	0.0747	0.3526	0.0961	0.0634	0.0458	0.0545	0.0268	0.0800
Mar 2A	-0.0086	-0.0004	0.0091	-0.0018	-0.0035	-0.0040	0	0.4195	0.8540	0.2432	0.9800	0.9071	0.8045	0.9337	0.7350	0.8968	0.7074	0.8968	0.5134	0.1937
Mar 2B	-0.0040	0.0038	0.0056	0.0013	-0.0046	-0.0007	0.0025	0	0.2655	0.1529	0.1029	0.3829	0.1145	0.0261	0.0187	0.0471	0.0368	0.2192	0.0040	0.1818
Apr 1A	-0.0011	0.0007	0.0193	0.0061	-0.0049	0.0037	0.0038	0.0025	0	0.5316	0.6421	0.5482	0.3353	0.4184	0.7305	0.2579	0.4018	0.8113	0.0313	0.2966
Apr 1B	-0.0085	0.0007	0.0099	-0.0019	-0.0048	0.0003	0.0033	0.0003	-0.0001	0	0.1482	0.5097	0.6666	0.4232	0.0090	0.0521	0.0182	0.0692	0.0926	0.0953
Apr 2A	-0.0094	-0.0029	0.0102	0.0032	-0.0021	0.0013	-0.0024	-0.0021	-0.0037	0.0007	0	0.6200	0.7416	0.6361	0.4650	0.5066	0.9790	0.7958	0.0666	0.9034
Apr 2B	-0.0051	0.0020	0.0141	0.0016	-0.0033	0.0001	-0.0048	0.0004	-0.0021	-0.0028	-0.0033	0	0.7990	0.6432	0.1250	0.4292	0.3500	0.3000	0.0287	0.2708
May 1A	-0.0121	-0.0041	0.0072	0.0037	-0.0014	0.0028	-0.0002	0.0027	0.0017	-0.0050	-0.0041	-0.0046	0	0.3500	0.1979	0.3890	0.4505	0.0761	0.0845	0.6524
May 1B	-0.0083	0.0019	0.0194	0.0035	0.0012	0.0027	-0.0061	0.0089	0.0050	0.0033	0.0011	-0.0009	0.0038	0	0.6645	0.4705	0.1161	0.3287	0.0105	0.3158
May 2A	-0.0048	-0.0004	0.0143	0.0043	-0.0042	0.0028	0.0008	0.0023	-0.0046	0.0020	-0.0024	-0.0008	-0.0020	0.0028	0	0.6487	0.1553	0.6300	0.0055	0.1013
May 2B	-0.0095	-0.0016	0.0024	0.0018	-0.0044	0.0008	-0.0015	0.0032	0.0050	0.0020	-0.0002	0.0001	-0.0038	0.0046	-0.0012	0	0.1253	0.7637	0.2097	0.3037
Jun 1A	0.0005	0.0082	0.0001	-0.0045	0.0034	0.0021	0.0028	0.0035	0.0057	0.0057	-0.0033	0.0018	0.0007	0.0112	0.0041	0.0024	0	0.7347	0.1163	0.3971
Jun 1B	-0.0061	-0.0027	0.0012	0.0027	-0.0034	0.0018	-0.0027	-0.0024	0.0004	0.0004	-0.0050	0.0004	0.0033	0.0056	-0.0035	-0.0040	-0.0030	0	0.1547	0.2871
Jun 2A	-0.0047	0.0028	0.0007	-0.0022	-0.0050	0.0035	0.0027	0.0035	0.0039	0.0010	0.0016	0.0018	-0.0008	0.0133	0.0034	0.0003	-0.0049	-0.0038	0	0.1576
Jun 2B	-0.0068	-0.0003	0.0042	0.0004	-0.0019	0.0022	0.0037	-0.0009	0.0015	0.0011	-0.0054	-0.0025	-0.0044	0.0055	0.0016	-0.0041	-0.0008	-0.0011	-0.0031	0

Indicative adjusted nominal level (5%) for multiple comparisons is: 0.000263; for just the comparisons between replicates within station and month it is: 0.005.

Table A4. The P-value from tests of genic differentiation for each population pair across all loci (exact G test). Purple shows 10 comparisons between replicates within the same monthly station, pink shows the 20 comparisons between replicates across stations within the same month, light turquoise signifies the 40 comparisons across months within station 1, light green denotes the 40 comparisons across months within station 2, and yellow represents the 80 comparisons across station and across months.

Cohort	Feb1A	Feb1B	Mar1A	Mar1B	Apr1A	Apr1B	May1A	May1B	Jun1A	Jun1B	Feb2A	Feb2B	Mar2A	Mar2B	Apr2A	Apr2B	May2A	May2B	Jun2A	Jun2B
Feb1A	-																			
Feb1B	0.5221	-																		
Mar1A	0.8273	0.0013	-																	
Mar1B	0.1685	0.0000	0.0051	-																
Apr1A	0.0136	*	0.1857	0.0000	-															
Apr1B	0.1034	0.0002	0.0228	0.0001	0.0036	-														
May1A	0.4509	0.0033	0.0094	0.0015	0.0030	0.1483	-													
May1B	0.5015	0.0256	0.0066	0.0074	0.0158	0.0140	0.0132	-												
Jun1A	0.0132	0.0000	0.0004	0.0005	0.0023	0.0000	0.0128	*	-											
Jun1B	0.1130	0.0848	0.0139	0.0002	0.0189	0.0003	0.0000	0.0038	0.0182	-										
Feb2A	0.0072	0.0000	0.0002	0.0002	0.0000	0.0004	0.0004	*	0.0002	0.0002	-									
Feb2B	0.0338	0.0021	0.0003	0.0002	0.0005	0.0056	*	0.0021	0.0173	0.0020	0.0001	-								
Mar2A	0.4940	0.1469	0.0559	0.0225	0.0384	0.0012	0.0459	0.1857	0.0326	0.1440	0.0001	0.0223	-							
Mar2B	0.0076	*	0.0109	0.0003	0.0008	0.0004	*	0.0000	0.0000	0.0004	*	0.0000	0.0012	-						
Apr2A	0.4500	0.0074	0.0289	0.0056	0.0354	0.0007	0.0904	0.0564	0.2513	0.0814	0.0000	0.0001	0.2251	0.0011	-					
Apr2B	0.0387	0.0003	0.0394	0.0019	0.0625	0.0129	0.0978	0.0492	0.0035	*	0.0001	0.0024	0.1088	0.0003	0.1295	-				
May2A	0.1836	0.0028	0.0032	0.0005	0.0382	0.0000	0.0022	0.0759	0.0001	0.0354	0.0000	0.0020	0.0397	0.0000	0.0073	0.0002	-			
May2B	0.1909	0.0004	0.0755	0.0006	0.0004	0.0001	0.0180	0.0029	0.0009	0.0618	0.0019	0.0038	0.1352	*	0.0118	0.0022	0.0644	-		
Jun2A	0.0417	0.0001	0.0197	0.0000	0.0000	0.0003	0.0002	0.0000	0.0061	0.0019	0.0000	0.0010	0.0040	0.0000	0.0004	0.0001	*	0.0003	-	
Jun2B	0.1141	0.0004	0.0072	0.0038	0.0008	0.0003	0.1129	0.0094	0.0148	0.0008	0.0010	0.0018	0.0013	0.0034	0.2957	0.0107	*	0.0086	0.0018	-

* = "highly significant" P-value and means the chi-square value was infinity. Values in bold are P-values below the critical value at the threshold of 0.000263 (after correction for multiple comparisons) after 1000 iterations. Sample sizes for each collector were as follows: February, 17, 31, 19, 15; March, 25 for each collector; and June, 25, 25, 25, and 26.