





Table X. Matrix of pairwise Fst statistics for 9 populations of *Palythoa tuberculosa* based on 26,111 SNPs are on the bottom of the matrix and the p-values are values on the top. Bolded numbers indicate significance after controlling for **false discovery rates** at $\alpha = 0.05$ (as per Narum, 2006). The corrected $\alpha = XXX$. (NWHI, Northwestern Hawaiian Islands; MHI, Main Hawaiian Islands)

		NWHI				MHI				
		Kure	Pearl & Hermes	Maro Reef	French Frigate Shoals	Kauai	Oahu	Molokai	Maui	Big Island
NWHI	Kure	--	0.136	0.098	0.002	0.001	0.004	0.001	0.001	0.001
	Pearl & Hermes	0.005	--	0.291	0.365	0.015	0.565	0.01	0.245	0.004
	Maro Reef	0.006	0.001	--	0.359	0.013	0.249	0.044	0.308	0.027
	French Frigate Shoals	0.01	0.003	0	--	0.001	0.085	0.046	0.048	0.003
MHI	Kauai	0.025	0.02	0.013	0.019	--	0.001	0.004	0.001	0.023
	Oahu	0.005	-0.002	0.002	0.007	0.025	--	0.001	0.008	0.001
	Molokai	0.036	0.023	0.012	0.011	0.011	0.023	--	0.112	0.054
	Maui	0.024	0.004	0.002	0.011	0.012	0.011	0.005	--	0.002
	Big Island	0.031	0.025	0.011	0.015	0.004	0.028	0.005	0.012	--



Table X. Analysis of molecular variance (AMOVA) based on 26,111 SNPs for *Palythoa tuberculosa*. Bolded values denote significance at $P < 0.05$. (NWHI, Northwestern Hawaiian Islands; MHI, Main Hawaiian Islands; OA, O‘ahu).

Regions	Among groups				Among Populations (within groups)		
	F _{ct}	P-value	% variation		F _{sc}	P-value	% variation
Breaks ^a	0.017	<0.001	0.02%		-0.002	0.026	0.00%
NWHI vs. MHI	0.008	<0.001	0.01%		0.011	<0.001	0.01%
OA vs NWHI vs MHI	0.013	<0.001	1%		0.006	<0.001	1%

^aBreaks combine populations Kure and Pearl & Hermes, Maro Reef and French Frigate Shoals, and the Main Hawaiian Islands as individual populations



Molecular diversity indices table

Sample location		<i>n</i>	<i>Eff. Num</i>	<i>Ho</i>	<i>Hs</i>	<i>Gis</i>
<i>Northwestern Hawaiian Islands</i>						
Kure		10	1.188	0.148	0.13	-0.143
Pearl & Hermes		4	1.181	0.137	0.13	-0.052
Maro Reef		5	1.192	0.156	0.135	-0.156
French Frigate Shoals		9	1.184	0.135	0.13	-0.032
<i>Main Hawaiian Islands</i>						
Kaua'i		15	1.187	0.142	0.131	-0.081
O'ahu		10	1.187	0.135	0.132	-0.018
Moloka'i		10	1.188	0.14	0.134	-0.04
Maui		10	1.177	0.112	0.129	0.132
Hawai'i Island		17	1.191	0.15	0.134	-0.115