

## Supplementary Information

Environmental correlates of prevalence of an intraerythrocytic apicomplexan infecting Caribbean damselfish

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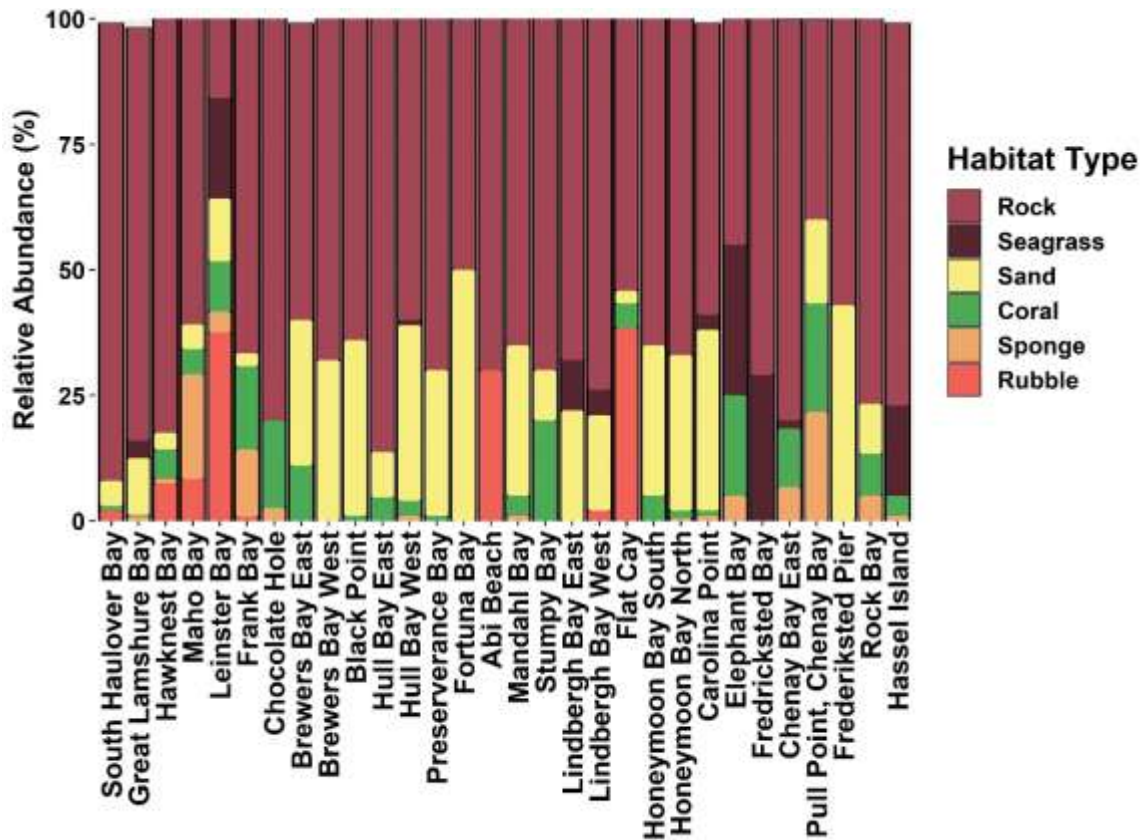


Figure S1: Habitat composition of each of 30 sampled sites in the US Virgin Islands from which *Stegastes adustus* were collected.

Table S1. Model selection table

(Intercept)	Avg. Meridional Velocity	Avg. Zonal Velocity	Habitat Complex- ity	Dist. Water- shed	Population Density	All <i>Stegast.</i> Pop.Dens.	Avg.Merid. Vel.:Avg. Zonal.Vel.	Avg.Merid. Vel.: Near Dist	Habitat Comp.: Pop.Dens.	Pop.Dens: All <i>Stegast.</i> Pop.Dens.	df	logLik	AIC	delta	weight
-0.09472	3.183447	NA	NA	NA	0.015275	NA	NA	NA	NA	NA	4	2.638648	4.322703	0	0.131785
-0.02766	3.363464	NA	NA	-8.11564	0.013758	NA	NA	NA	NA	NA	5	3.773672	4.952656	0.629952	0.096177
0.066342	3.045737	NA	NA	-9.41798	0.018666	-0.00571	NA	NA	NA	NA	6	5.016211	5.619752	1.297049	0.068899
-0.02643	2.899071	NA	NA	NA	0.019501	-0.00469	NA	NA	NA	NA	5	3.421875	5.656251	1.333548	0.067653
0.18569	3.423485	NA	NA	-10.0063	NA	NA	NA	NA	NA	NA	4	1.468633	6.662734	2.340031	0.040901
-0.03954	3.261121	0.631369	NA	NA	0.014189	NA	NA	NA	NA	NA	5	2.759146	6.981707	2.659004	0.034871
0.130587	3.204053	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	-0.03142	6.985925	2.663222	0.034798
-0.03132	3.100339	NA	-0.07178	NA	0.015209	NA	NA	NA	NA	NA	5	2.733786	7.032427	2.709724	0.033998
0.003833	2.571803	NA	NA	-14.4552	0.014485	NA	NA	108.906	NA	NA	6	4.032856	7.586462	3.263758	0.025772
0.06244	3.256877	NA	-0.09874	-8.46444	0.013603	NA	NA	NA	NA	NA	6	3.966292	7.719589	3.396886	0.024112
0.088229	2.984562	1.155908	NA	NA	0.018356	-0.00562	NA	NA	NA	NA	6	3.818936	8.014301	3.691598	0.020809
-0.04526	3.343473	-0.24405	NA	-8.56797	0.014094	NA	NA	NA	NA	NA	6	3.789359	8.073455	3.750752	0.020202
0.558935	2.9883	NA	-0.90395	NA	-0.02113	NA	NA	NA	0.052532	NA	6	3.783466	8.085242	3.762539	0.020084
0.225844	3.389381	1.535384	NA	NA	NA	NA	NA	NA	NA	NA	4	0.650985	8.298029	3.975326	0.018057
0.0947	2.307025	NA	NA	-15.3492	0.019286	-0.00564	NA	102.1753	NA	NA	7	5.263746	8.563417	4.240714	0.015813
0.538064	-8.23252	8.621775	NA	NA	0.013526	NA	-155.229	NA	NA	NA	6	3.494053	8.664069	4.341366	0.015037
0.021323	2.840769	NA	-0.05576	NA	0.019357	-0.00458	NA	NA	NA	NA	6	3.481912	8.68835	4.365647	0.014855
0.02918	2.921879	NA	NA	NA	0.015583	-0.00658	NA	NA	NA	0.000119	6	3.452615	8.746943	4.42424	0.014426
0.140114	2.962985	NA	-0.0831	-9.68304	0.018428	-0.00559	NA	NA	NA	NA	7	5.163576	8.763757	4.441054	0.014305
0.690244	-11.2988	9.764062	NA	-10.361	0.013228	NA	-197.985	NA	NA	NA	7	5.043281	9.004346	4.681643	0.012684
0.112668	3.064437	NA	NA	-9.3919	0.015386	-0.0073	NA	NA	NA	9.94E-05	7	5.040182	9.010545	4.687842	0.012645
0.088039	3.058203	0.263519	NA	-8.96694	0.018445	-0.00588	NA	NA	NA	NA	7	5.035014	9.02088	4.698177	0.01258
0.286133	3.30061	NA	-0.11311	-10.3813	NA	NA	NA	NA	NA	NA	5	1.685925	9.128149	4.805446	0.011923
0.218222	3.472108	0.640453	NA	-8.69839	NA	NA	NA	NA	NA	NA	5	1.570308	9.359384	5.036681	0.010621
0.219918	3.363859	NA	NA	-10.4041	NA	-0.00115	NA	NA	NA	NA	5	1.521138	9.457724	5.135021	0.010111
0.201275	3.109854	NA	-0.08127	NA	NA	NA	NA	NA	NA	NA	4	0.070734	9.458532	5.135829	0.010107
0.205997	3.04906	NA	NA	-13.0642	NA	NA	NA	51.7155	NA	NA	5	1.519754	9.460492	5.137789	0.010097
0.869944	-9.71551	10.59306	NA	NA	NA	NA	-176.897	NA	NA	NA	5	1.488807	9.522387	5.199684	0.00979
0.124578	3.216873	NA	NA	NA	NA	0.000216	NA	NA	NA	NA	4	-0.02968	9.659352	5.336649	0.009142
1.019356	-12.8443	11.72639	NA	-10.6864	NA	NA	-220.504	NA	NA	NA	6	2.926409	9.799357	5.476654	0.008524

0.016575	3.179572	0.597697	-0.06685	NA	0.014186	NA	NA	NA	NA	NA	6	2.841966	9.968242	5.645538	0.007833
0.480525	3.141376	NA	-0.70999	-6.70963	-0.013	NA	NA	NA	0.038939	NA	7	4.526124	10.03866	5.715957	0.007562
0.17657	NA	NA	NA	NA	0.021848	-0.00712	NA	NA	NA	NA	4	-0.32767	10.25534	5.932636	0.006786
0.099095	NA	NA	NA	NA	0.015449	NA	NA	NA	NA	NA	3	-1.77902	10.48111	6.158405	0.006062
0.106005	2.390107	NA	-0.10918	-15.3521	0.014372	NA	NA	117.6874	NA	NA	7	4.271144	10.54862	6.225917	0.00586
0.505909	2.809537	NA	-0.76092	NA	-0.01227	-0.00347	NA	NA	0.044268	NA	7	4.210611	10.66969	6.346984	0.005516
0.485027	-5.29271	6.854359	NA	NA	0.017175	-0.00468	-112.418	NA	NA	NA	7	4.19622	10.69847	6.375766	0.005437
-0.02081	2.5099	-0.35976	NA	-15.3817	0.015009	NA	NA	113.3678	NA	NA	7	4.067122	10.95667	6.633962	0.004779
0.286375	3.31908	1.767863	NA	NA	NA	-0.00165	NA	NA	NA	NA	5	0.742944	11.01411	6.691409	0.004643
0.282263	3.307259	1.501268	-0.0673	NA	NA	NA	NA	NA	NA	NA	5	0.723881	11.05224	6.729534	0.004556
0.041493	3.222339	-0.35477	-0.10381	-9.13992	0.014082	NA	NA	NA	NA	NA	7	3.999378	11.09215	6.76945	0.004466
0.636947	-8.38183	8.015257	NA	-10.2891	0.016824	-0.00461	-155.521	NA	NA	NA	8	5.799921	11.2573	6.934598	0.004112
0.162023	3.015846	1.1865	NA	NA	0.01334	-0.00806	NA	NA	NA	0.000151	7	3.869795	11.35132	7.028616	0.003923
0.122123	2.937009	1.12427	-0.04324	NA	0.018275	-0.00552	NA	NA	NA	NA	7	3.855681	11.37955	7.056844	0.003868
0.264298	NA	NA	NA	-8.01829	0.021238	-0.0081	NA	NA	NA	NA	5	0.557996	11.38401	7.061305	0.003859
0.563398	3.024675	0.251883	-0.87971	NA	-0.02059	NA	NA	NA	0.051133	NA	7	3.803239	11.48443	7.161729	0.00367
0.925182	-13.4636	10.94099	-0.16241	-11.4977	0.013093	NA	-224.695	NA	NA	NA	8	5.584075	11.68899	7.36629	0.003314
0.677579	-9.40138	9.294035	-0.10382	NA	0.013461	NA	-169.304	NA	NA	NA	7	3.698443	11.69402	7.37132	0.003305
0.179483	2.158911	NA	-0.09311	-16.091	0.019065	-0.0055	NA	109.8371	NA	NA	8	5.450662	11.95582	7.633116	0.0029
0.046794	2.862575	NA	-0.04763	NA	0.017093	-0.0057	NA	NA	NA	6.92E-05	7	3.491124	12.10866	7.785957	0.002686
0.38589	2.930608	NA	-0.45927	-8.45006	0.001517	-0.00486	NA	NA	0.023834	NA	8	5.366737	12.12367	7.800966	0.002666
0.31564	2.84692	NA	-0.11902	-14.0537	NA	NA	NA	61.77684	NA	NA	6	1.759393	12.13339	7.810684	0.002653
0.305575	3.349712	0.527931	-0.1048	-9.27568	NA	NA	NA	NA	NA	NA	6	1.754761	12.14265	7.819949	0.002641
0.328256	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	-3.85536	12.15516	7.832458	0.002625
0.315931	3.247781	NA	-0.1111	-10.7416	NA	-0.00106	NA	NA	NA	NA	6	1.731176	12.18982	7.86712	0.00258
1.260949	-15.0864	12.93332	-0.16944	-11.8688	NA	NA	-248.129	NA	NA	NA	7	3.437245	12.21642	7.893715	0.002545
0.287133	3.393271	0.891088	NA	-8.83941	NA	-0.00189	NA	NA	NA	NA	6	1.697382	12.25741	7.934707	0.002494
1.01487	-10.9363	11.2895	-0.10911	NA	NA	NA	-191.579	NA	NA	NA	6	1.686283	12.27961	7.956905	0.002466
0.155537	NA	NA	NA	-5.8708	0.014359	NA	NA	NA	NA	NA	4	-1.34014	12.28029	7.957586	0.002465
0.106419	2.328238	0.148947	NA	-14.9806	0.019149	-0.00574	NA	100.2158	NA	NA	8	5.269759	12.31763	7.994922	0.00242
0.112898	2.33248	NA	NA	-15.1954	0.017934	-0.00629	NA	99.7087	NA	4.05E-05	8	5.267647	12.32185	7.999146	0.002415
0.193315	3.127477	NA	-0.08219	NA	NA	0.000314	NA	NA	NA	NA	5	0.074462	12.35108	8.028374	0.00238
0.234927	NA	NA	-0.16711	NA	0.015285	NA	NA	NA	NA	NA	4	-1.37662	12.35325	8.030542	0.002377
0.678434	-11.3322	9.256422	NA	-15.5593	0.013973	NA	-189.715	87.73679	NA	NA	8	5.221255	12.41463	8.09193	0.002305

0.235677	3.125493	0.615986	NA	-11.5639	NA	NA	NA	47.61781	NA	NA	6	1.613783	12.42461	8.101904	0.002294
0.151117	2.973232	0.161744	-0.08049	-9.39789	0.018299	-0.00569	NA	NA	NA	NA	8	5.170581	12.51598	8.193277	0.002191
0.235292	3.029276	NA	NA	-13.1445	NA	-0.00105	NA	46.9494	NA	NA	6	1.562984	12.52621	8.203504	0.00218
0.145272	2.967382	NA	-0.08139	-9.67383	0.01796	-0.00582	NA	NA	NA	1.43E-05	8	5.164016	12.52911	8.206409	0.002177
0.279712	NA	NA	-0.1317	NA	0.021396	-0.00676	NA	NA	NA	NA	5	-0.05746	12.61491	8.292207	0.002086
0.874594	-9.39171	10.43552	NA	NA	NA	-0.0006	-172.185	NA	NA	NA	6	1.500785	12.6506	8.327902	0.002049
0.141033	3.080015	0.29341	NA	-8.88734	0.014842	-0.00762	NA	NA	NA	0.000108	8	5.063336	12.73047	8.407769	0.001969
0.257771	NA	0.777998	NA	NA	0.021123	-0.0078	NA	NA	NA	NA	5	-0.18746	12.87491	8.55221	0.001831
0.909325	NA	NA	-1.12966	NA	-0.02692	NA	NA	NA	0.061015	NA	5	-0.29217	13.08434	8.761636	0.001649
0.171391	NA	NA	NA	NA	0.022201	-0.00695	NA	NA	NA	-1.07E-05	5	-0.32747	13.15494	8.83224	0.001592
0.096502	NA	-0.02732	NA	NA	0.015496	NA	NA	NA	NA	NA	4	-1.77884	13.15769	8.834984	0.00159
1.024143	-12.5138	11.56547	NA	-10.6886	NA	-0.00061	-215.692	NA	NA	NA	7	2.940203	13.2105	8.887799	0.001548
1.021141	-12.8764	11.62087	NA	-12.0724	NA	NA	-218.644	23.31049	NA	NA	7	2.9377	13.21551	8.892807	0.001545
0.381786	NA	NA	NA	-7.80368	NA	NA	NA	NA	NA	NA	3	-3.15688	13.23684	8.914133	0.001528
0.473877	2.462634	NA	-0.65787	-12.3674	-0.00975	NA	NA	93.70804	0.035089	NA	8	4.720404	13.41633	9.093631	0.001397
0.462694	3.094316	-0.45737	-0.72995	-7.54195	-0.01296	NA	NA	NA	0.039793	NA	8	4.582975	13.69119	9.36849	0.001218
0.39506	NA	NA	-0.15888	-8.59778	0.020648	-0.00774	NA	NA	NA	NA	6	0.972291	13.70759	9.384889	0.001208
1.120542	-8.40195	8.186649	-0.84812	NA	-0.01846	NA	-153.938	NA	0.047031	NA	8	4.54885	13.75944	9.43674	0.001177
0.469506	NA	NA	-0.17694	NA	NA	NA	NA	NA	NA	NA	3	-3.46241	13.8479	9.525194	0.001126
0.332794	3.250177	1.71962	-0.06078	NA	NA	-0.00153	NA	NA	NA	NA	6	0.802229	14.04772	9.725012	0.001019
0.319636	NA	NA	-0.19222	-6.68831	0.014019	NA	NA	NA	NA	NA	5	-0.7982	14.0964	9.773698	0.000994
0.50736	2.877315	0.742735	-0.65786	NA	-0.00873	-0.00423	NA	NA	0.038317	NA	8	4.367064	14.12301	9.800312	0.000981
0.079239	2.292009	-0.49574	-0.11687	-16.6919	0.015086	NA	NA	124.4541	NA	NA	8	4.336121	14.1849	9.862198	0.000951
0.393236	NA	0.935131	NA	NA	NA	NA	NA	NA	NA	NA	3	-3.6581	14.23928	9.916572	0.000926
0.589759	-6.32658	7.45378	-0.07547	NA	0.016898	-0.00438	-125.333	NA	NA	NA	8	4.306189	14.24476	9.922062	0.000923
0.598148	-5.64047	7.16055	NA	NA	0.010694	-0.00775	-117.686	NA	NA	0.000193	8	4.281057	14.29503	9.972325	0.0009