

SUPPLEMENTAL TABLE 1

Univariate frequentist associations of key environmental variables with school seroprevalence of *Plasmodium falciparum* and *P. vivax*

	<i>P. falciparum</i>			<i>P. vivax</i>		
	OR	95% CI	<i>P</i>	OR	95% CI	<i>P</i>
<b>Precipitation</b>						
Annual accumulative	0.978	0.695, 1.374	0.869	1.409	1.047, 1.898	0.024
Annual mean	0.971	0.693, 1.361	0.865	1.400	1.043, 1.880	0.025
Wettest quarter	0.991	0.723, 1.359	0.956	1.479	1.061, 2.062	0.021
Mean at peak transmission	0.781	0.588, 1.039	0.090	0.923	0.711, 1.199	0.549
Annual standard deviation	0.902	0.676, 1.203	0.483	1.336	0.928, 1.924	0.119
<b>Land temperature</b>						
Annual mean	1.272	0.915, 1.767	0.152	0.866	0.657, 1.140	0.305
Mean at peak transmission	1.243	0.892, 1.734	0.199	0.890	0.659, 1.201	0.445
Altitude	0.785	0.590, 1.044	0.096	1.041	0.784, 1.381	0.782
Land gradient	0.565	0.402, 0.796	0.001	0.531	0.336, 0.838	0.007
<b>Distance to</b>						
Any water body	0.808	0.644, 1.014	0.065	0.585	0.422, 0.811	0.001
Permanent water body	0.768	0.609, 0.969	0.026	0.570	0.456, 0.712	< 0.001
Permanent river	0.402	0.172, 0.940	0.036	0.154	0.047, 0.506	0.002
Road	0.983	0.191, 5.057	0.984	1.059	0.206, 5.460	0.945
<b>Land cover type</b>						
Shrubland	1	–	–	1	–	–
Cultivated land	5.320	2.419, 11.70	< 0.001	6.782	2.907, 15.82	< 0.001
Forest	9.5e-7	2.9e-7, 3.1e-6	< 0.001	0.185	0.066, 0.522	0.001
Bare/sparse	4.338	1.979, 9.507	< 0.001	2.236	0.848, 5.900	0.104
<b>Normalized difference vegetation index</b>						
Maximum 2005–2009	0.810	0.658, 0.997	0.047	1.074	0.736, 1.569	0.711
Mean 2005–2009	0.785	0.628, 0.982	0.034	0.903	0.699, 1.166	0.434
Standard deviation 2005–2009	0.824	0.647, 1.049	0.116	1.126	0.770, 1.647	0.541
Maximum 2009	0.846	0.625, 1.146	0.280	1.269	0.831, 1.937	0.271
Mean 2009	0.739	0.571, 0.955	0.021	0.868	0.680, 1.108	0.255
Standard deviation 2009	0.928	0.695, 1.238	0.611	1.398	0.949, 2.060	0.090
<b>Population density</b>						
All ages	0.994	0.720, 1.372	0.970	0.958	0.690, 1.329	0.796
Children < 5 years	0.981	0.696, 1.381	0.912	0.966	0.690, 1.353	0.840
<b>Type of area</b>						
Rural	1	–	–	1	–	–
Peri-urban	0.468	0.182, 1.202	0.115	0.361	0.123, 1.066	0.065
Urban	0.200	0.026, 0.880	0.033	0.065	0.015, 0.283	< 0.001

CI = confidence interval; OR = odds ratio.